

**Extended Data Table 7.** Differentially methylated cytosines (DMCs) in LSK mice compared to wild-type controls, identified by MethyKit

chr	start	end	strand	<i>p</i> -value	<i>q</i> -value	methylation difference
chr1	6359020	6359020	-	1.42E-09	4.58E-08	-27.15657767
chr1	9878413	9878413	+	0.00011778	0.0014518	-27.73279352
chr1	9908620	9908620	+	0	0	-25.03079114
chr1	9908649	9908649	+	0	0	-26.32648499
chr1	10008904	10008904	+	0	0	-28.84877359
chr1	10008940	10008940	+	0	0	-33.41372749
chr1	13219606	13219606	-	1.11E-16	7.26E-15	-28.17699326
chr1	13225545	13225545	-	0.00113242	0.00977285	-29.51388889
chr1	18141481	18141481	-	0.00067983	0.00642559	-26.01299103
chr1	20803511	20803511	+	0	0	-32.02000103
chr1	20803563	20803563	-	0	0	-33.32448349
chr1	20817785	20817785	+	0.00098194	0.00869897	-30.42622951
chr1	20997163	20997163	-	1.23E-05	0.00019862	-31.5503876
chr1	23584738	23584738	-	0.00034737	0.00366418	-28.10820184
chr1	33993699	33993699	+	9.40E-12	3.92E-10	-25.55874955
chr1	33993934	33993934	-	6.85E-07	1.45E-05	-26.96992767
chr1	34074796	34074796	+	8.54E-09	2.47E-07	-36.94896653
chr1	34075028	34075028	-	2.34E-14	1.27E-12	-51.28144281
chr1	34077684	34077684	+	2.43E-06	4.63E-05	-29.27331568
chr1	34103959	34103959	-	0	0	-31.17695295
chr1	34473615	34473615	-	0.00015751	0.00186709	-27.63798701
chr1	34536465	34536465	-	0	0	-25.25626983
chr1	34807113	34807113	-	0	0	-29.91746862
chr1	34807160	34807160	+	0	0	-25.09678094
chr1	35688172	35688172	-	3.26E-05	0.00047338	-28.95902547
chr1	35974005	35974005	+	0	0	-28.40116178
chr1	36076224	36076224	-	1.81E-11	7.32E-10	-32.28282828
chr1	36254919	36254919	+	4.40E-09	1.33E-07	-40.90909091
chr1	36254937	36254937	+	1.40E-06	2.80E-05	-29.33372642
chr1	36254955	36254955	+	7.18E-07	1.52E-05	-36.62092624
chr1	36254957	36254957	+	3.75E-08	9.87E-07	-38.89379229
chr1	36255169	36255169	-	9.40E-06	0.00015664	-33.64102564
chr1	36255193	36255193	-	0	0	-34.00372254
chr1	36255205	36255205	+	0	0	-34.63673489
chr1	36255206	36255206	-	0	0	-42.58237788

chr1	36255229	36255229	-	0	0	-29.81341639
chr1	36313922	36313922	-	0	0	-28.46743774
chr1	36313950	36313950	-	0	0	-27.77795392
chr1	36313954	36313954	-	0	0	-27.56304038
chr1	36457176	36457176	+	1.28E-13	6.45E-12	-28.98908027
chr1	36580174	36580174	+	0	0	-29.83897589
chr1	36607184	36607184	-	8.20E-09	2.38E-07	-25.11107026
chr1	36704759	36704759	+	9.86E-06	0.0001634	37.03703704
chr1	36764563	36764563	+	4.20E-11	1.63E-09	-28.57237103
chr1	36771106	36771106	-	0	0	-27.06377781
chr1	37480055	37480055	-	1.67E-07	3.96E-06	-25.34661285
chr1	37624224	37624224	+	7.73E-07	1.62E-05	41.37931034
chr1	38384911	38384911	-	6.13E-11	2.34E-09	-54.17032485
chr1	38626475	38626475	+	0	0	-39.34643184
chr1	38626506	38626506	+	0	0	-40.28265104
chr1	38626513	38626513	+	0	0	-37.40214156
chr1	38626602	38626602	-	0	0	-32.00870816
chr1	38626625	38626625	-	0	0	-38.82666667
chr1	38626648	38626648	+	0	0	-34.27015986
chr1	38626649	38626649	-	0	0	-40.37751578
chr1	38626657	38626657	+	0	0	-34.1665717
chr1	38626709	38626709	+	0	0	-36.05442177
chr1	38626710	38626710	-	0	0	-38.13844183
chr1	38626759	38626759	+	0	0	-26.01741918
chr1	38626831	38626831	-	0	0	-34.16833364
chr1	38626871	38626871	+	0	0	-44.41795909
chr1	38626885	38626885	-	3.57E-07	7.98E-06	-47.28837877
chr1	38626897	38626897	+	0	0	-33.06408209
chr1	38626898	38626898	-	1.07E-06	2.18E-05	-44.18938307
chr1	38626904	38626904	-	0.00047187	0.00473855	-26.80057389
chr1	39047001	39047001	-	4.12E-11	1.60E-09	-26.60744244
chr1	39105819	39105819	+	0	0	-35.28535562
chr1	39105824	39105824	+	0	0	-47.1158429
chr1	39105825	39105825	-	0	0	-42.0203811
chr1	39105832	39105832	+	0	0	-48.21836916
chr1	39105833	39105833	-	0	0	-44.91447258
chr1	39105871	39105871	-	0	0	-39.41823298
chr1	39361883	39361883	+	5.56E-07	1.20E-05	-26.761293
chr1	39361920	39361920	-	0	0	-30.26658666
chr1	39361959	39361959	-	0	0	-26.98163082
chr1	39361969	39361969	+	0	0	-28.19822373

chr1	39361970	39361970	-	0	0	-35.57136643
chr1	39361979	39361979	-	0	0	-43.92713249
chr1	39361991	39361991	-	0	0	-43.81850279
chr1	39687266	39687266	-	0	0	-25.94159589
chr1	39720744	39720744	+	0	0	-28.21147722
chr1	39720778	39720778	-	7.50E-12	3.16E-10	-27.45697464
chr1	39720785	39720785	-	1.97E-11	7.92E-10	-38.99374711
chr1	39720820	39720820	-	5.78E-09	1.72E-07	-26.39140271
chr1	39720938	39720938	-	0	0	-25.55790368
chr1	39760973	39760973	-	0	0	-27.21670617
chr1	39842790	39842790	+	0	0	-31.34433872
chr1	39842867	39842867	+	1.17E-09	3.82E-08	-29.50819672
chr1	40179624	40179624	+	4.78E-07	1.04E-05	-31.91489362
chr1	40325950	40325950	+	0	0	-38.27596375
chr1	40325955	40325955	+	0	0	-31.98505102
chr1	40325968	40325968	+	0	0	-44.09198486
chr1	40325969	40325969	-	0	0	-43.05917312
chr1	40325987	40325987	+	0	0	-47.16315288
chr1	40325988	40325988	-	0	0	-42.17279822
chr1	40326002	40326002	-	0	0	-44.49423816
chr1	40326019	40326019	-	0	0	-34.44699093
chr1	40682049	40682049	+	5.12E-05	0.0007047	38.0952381
chr1	40682055	40682055	+	6.15E-05	0.00082684	38.0952381
chr1	40682061	40682061	+	5.12E-05	0.0007047	38.0952381
chr1	40682075	40682075	+	0.00098633	0.00873028	34.76190476
chr1	40715038	40715038	+	7.60E-08	1.91E-06	-27.60387344
chr1	40874691	40874691	-	1.22E-07	2.95E-06	-32.28041902
chr1	43164245	43164245	-	0	0	-31.50575859
chr1	43502890	43502890	-	1.62E-13	8.10E-12	-33.08035714
chr1	53978333	53978333	-	0	0	-30.07246377
chr1	53988740	53988740	+	0	0	-26.65867907
chr1	54905817	54905817	+	1.42E-14	7.84E-13	-25.3761959
chr1	54905899	54905899	+	0	0	-31.41579732
chr1	54905900	54905900	-	0	0	-28.99471641
chr1	54905937	54905937	-	0	0	-30.03742195
chr1	55226298	55226298	+	0	0	-31.18830239
chr1	55226310	55226310	+	0	0	-34.30758479
chr1	55226312	55226312	+	0	0	-29.37908497
chr1	55226336	55226336	+	0	0	-37.63582966
chr1	55382359	55382359	-	4.34E-05	0.00061012	-27.90697674
chr1	56955382	56955382	+	1.84E-10	6.63E-09	-32.82646392

chr1	56956033	56956033	-	0.00028079	0.00306209	-26.84848485
chr1	56984594	56984594	-	4.49E-13	2.14E-11	-30.87599234
chr1	56984614	56984614	-	4.44E-16	2.79E-14	-28.30249419
chr1	56984632	56984632	-	6.31E-05	0.00084524	-31.27944225
chr1	57608309	57608309	+	1.11E-16	7.26E-15	-32.68770923
chr1	57772932	57772932	-	0.0002988	0.00322659	-42
chr1	57772962	57772962	-	1.62E-05	0.00025519	-41.17647059
chr1	57989974	57989974	+	1.78E-12	8.02E-11	-28.64219114
chr1	59139645	59139645	-	5.48E-06	9.65E-05	-27.40610329
chr1	59376334	59376334	+	0	0	-36.65835828
chr1	59376348	59376348	+	0	0	-26.9696757
chr1	59376350	59376350	+	0	0	-28.99774506
chr1	59376379	59376379	+	0	0	-28.68988685
chr1	59376380	59376380	-	0	0	-27.75389101
chr1	59376392	59376392	-	0	0	-44.50787604
chr1	59376412	59376412	-	0	0	-35.85545667
chr1	59423382	59423382	-	0	0	-43.10191366
chr1	59484390	59484390	-	0	0	-32.23534336
chr1	59484405	59484405	+	0	0	-33.2423254
chr1	59484503	59484503	+	2.13E-14	1.16E-12	-33.05193876
chr1	59484684	59484684	-	0	0	-33.12348668
chr1	59610092	59610092	+	0	0	-32.56918126
chr1	59610096	59610096	+	0	0	-25.51710186
chr1	59610104	59610104	+	0	0	-27.28007367
chr1	59610157	59610157	+	0	0	-26.22895078
chr1	59610158	59610158	-	0	0	-32.67063788
chr1	59610210	59610210	-	0	0	-27.26075098
chr1	61143398	61143398	-	0	0	-26.64247041
chr1	61379555	61379555	-	5.18E-08	1.34E-06	-28.1177977
chr1	62182008	62182008	-	0	0	-29.00941708
chr1	62985323	62985323	+	0.00036971	0.00386194	-43.45454545
chr1	64088737	64088737	+	1.36E-09	4.40E-08	-34.26242074
chr1	64117050	64117050	-	1.72E-12	7.73E-11	-29.16935195
chr1	64338369	64338369	-	1.32E-06	2.65E-05	-44.44444444
chr1	64338396	64338396	-	1.91E-06	3.72E-05	-42.85714286
chr1	64735107	64735107	-	0	0	-25.65342956
chr1	64735116	64735116	-	0	0	-32.48574511
chr1	64735118	64735118	-	0	0	-33.7706846
chr1	64735131	64735131	-	0	0	-30.41579732
chr1	64735135	64735135	-	0	0	-35.69652779
chr1	64735140	64735140	+	0	0	-26.94233519

chr1	64735146	64735146	+	1.11E-16	7.26E-15	-25.02717982
chr1	64735148	64735148	+	0	0	-32.33188863
chr1	64735149	64735149	-	0	0	-33.57808278
chr1	64735177	64735177	+	0	0	-31.21428571
chr1	64735178	64735178	-	0	0	-31.75642109
chr1	64735899	64735899	-	5.21E-14	2.73E-12	-55.81633962
chr1	64735907	64735907	-	3.52E-09	1.08E-07	-43.99585921
chr1	64735911	64735911	-	4.38E-13	2.10E-11	-50.25009619
chr1	64735914	64735914	+	0	0	-30.19511023
chr1	64735926	64735926	+	0	0	-31.58323526
chr1	64735927	64735927	-	0	0	-29.42681868
chr1	64735945	64735945	-	0	0	-27.35172342
chr1	64735946	64735946	+	0	0	-26.67783706
chr1	64735969	64735969	+	0	0	-34.5582975
chr1	64868010	64868010	+	0	0	-26.48534278
chr1	64868041	64868041	-	0	0	-25.98717716
chr1	65109885	65109885	+	0	0	-25.71031663
chr1	69493649	69493649	+	2.79E-07	6.36E-06	-33.4622824
chr1	69680384	69680384	+	4.32E-06	7.77E-05	-27.95454545
chr1	69680777	69680777	-	2.51E-06	4.76E-05	-32.44581215
chr1	71893742	71893742	-	0.00029452	0.00318703	-30.77922078
chr1	72108737	72108737	+	5.94E-06	0.00010367	-30.8988764
chr1	72184502	72184502	-	0	0	-25.64590994
chr1	72255632	72255632	+	4.12E-08	1.08E-06	-30.16194332
chr1	72577621	72577621	-	1.78E-15	1.06E-13	-25.44034091
chr1	72952087	72952087	-	0	0	-26.18319321
chr1	73827446	73827446	+	2.70E-05	0.00040073	-25.2780154
chr1	73990631	73990631	-	3.66E-11	1.43E-09	36.17021277
chr1	74013613	74013613	-	1.25E-07	3.01E-06	-43.38512241
chr1	74018435	74018435	-	1.09E-08	3.10E-07	-30.58064516
chr1	74018455	74018455	-	0	0	-39.24634886
chr1	74027681	74027681	-	0	0	-26.31053525
chr1	74027687	74027687	+	0	0	-33.48413881
chr1	74027688	74027688	-	0	0	-34.64833645
chr1	74206865	74206865	-	0	0	-28.27272727
chr1	74275325	74275325	+	0	0	-37.96010577
chr1	74275326	74275326	-	0.00015217	0.00181118	-26.62271805
chr1	74275333	74275333	+	0	0	-44.20250791
chr1	74275334	74275334	-	4.86E-14	2.55E-12	-27.84391534
chr1	74594183	74594183	-	0.00106661	0.00930792	-31.01135191
chr1	74782673	74782673	-	0	0	-44.1267725

chr1	74782677	74782677	-	0	0	-40.02486887
chr1	74782684	74782684	-	0	0	-30.91675885
chr1	74783639	74783639	+	0	0	-35.61537864
chr1	74783745	74783745	-	0	0	-48.0793854
chr1	74793457	74793457	+	0	0	-31.78403756
chr1	74793478	74793478	+	0	0	-30.6892026
chr1	74793489	74793489	+	0	0	-29.89201809
chr1	74793495	74793495	+	0	0	-27.67327107
chr1	74793523	74793523	-	0	0	-29.94964475
chr1	74824886	74824886	+	0	0	-25.0780413
chr1	75015945	75015945	+	1.61E-09	5.15E-08	-30.78680374
chr1	75015965	75015965	+	6.35E-10	2.15E-08	-31.10012193
chr1	75015974	75015974	+	0	0	-50.33986405
chr1	75128021	75128021	+	5.47E-05	0.00074634	-28.67494824
chr1	75219851	75219851	+	0	0	-25.16866905
chr1	75219875	75219875	-	0	0	-26.24194889
chr1	75219877	75219877	-	0	0	-32.3445111
chr1	75219926	75219926	+	0	0	-45.80907336
chr1	75219935	75219935	+	0	0	-40.21016289
chr1	75219938	75219938	+	0	0	-34.32731387
chr1	75220019	75220019	+	2.38E-10	8.48E-09	-33.02407705
chr1	75220020	75220020	-	0	0	-34.6147185
chr1	75252481	75252481	-	1.04E-10	3.85E-09	-28.46593766
chr1	75344705	75344705	-	1.22E-15	7.41E-14	-41.9036096
chr1	75344847	75344847	-	4.33E-06	7.79E-05	-30.29271613
chr1	75344857	75344857	-	1.84E-06	3.59E-05	-29.15140415
chr1	75344896	75344896	+	0	0	-27.51284999
chr1	75344936	75344936	+	0	0	-37.0665774
chr1	75345031	75345031	-	5.88E-15	3.37E-13	-36.14037899
chr1	75360329	75360329	-	0	0	-31.12370435
chr1	75375265	75375265	+	0	0	-33.73888105
chr1	75375266	75375266	-	1.11E-16	7.26E-15	-25.68141436
chr1	75375313	75375313	+	0	0	-25.616978
chr1	75420732	75420732	+	2.23E-05	0.00033907	-30.98591549
chr1	75431389	75431389	+	0	0	-29.46613745
chr1	77512947	77512947	-	0	0	-25.71200122
chr1	78347244	78347244	+	5.88E-07	1.26E-05	-26.30109566
chr1	78347252	78347252	+	3.40E-07	7.63E-06	-30.86273666
chr1	78351988	78351988	+	7.06E-06	0.00012109	28.20512821
chr1	78454864	78454864	+	0	0	-29.40377036
chr1	78454866	78454866	+	0	0	-31.50183086

chr1	79672738	79672738	+	1.07E-09	3.53E-08	-32.32457367
chr1	79672741	79672741	+	8.07E-13	3.76E-11	-36.12664244
chr1	79672759	79672759	+	2.90E-09	8.98E-08	-29.10865411
chr1	80293572	80293572	-	0	0	-26.10105942
chr1	82918165	82918165	+	3.32E-07	7.46E-06	-26.75284838
chr1	82974597	82974597	-	0	0	-27.19356803
chr1	82974611	82974611	-	0	0	-27.96969327
chr1	85221178	85221178	+	5.82E-10	1.98E-08	-53.76955903
chr1	86274719	86274719	-	5.84E-09	1.73E-07	-26.34918019
chr1	86303006	86303006	-	1.80E-07	4.24E-06	-37.49385749
chr1	86303023	86303023	-	5.09E-05	0.00070072	-29.6037296
chr1	86310704	86310704	-	1.72E-05	0.00026797	-39.42819149
chr1	86313763	86313763	+	0	0	-30.88342247
chr1	86313765	86313765	+	1.11E-16	7.26E-15	-25.49315971
chr1	86313768	86313768	+	0	0	-35.25633238
chr1	86313772	86313772	+	0	0	-27.42767933
chr1	86313809	86313809	-	0	0	-26.2523255
chr1	86313957	86313957	+	4.00E-15	2.32E-13	-32.09099594
chr1	86435603	86435603	-	0	0	-46.05422134
chr1	86435628	86435628	-	3.37E-11	1.32E-09	-31.12645868
chr1	86491530	86491530	+	5.55E-15	3.18E-13	-43.39867638
chr1	86674736	86674736	-	0.00101264	0.00892254	-27.31314254
chr1	87157645	87157645	+	0.00100465	0.00886484	-28.18015825
chr1	87521131	87521131	-	0.00071594	0.00670534	-37.69946809
chr1	87541945	87541945	-	5.21E-08	1.34E-06	-25.60137457
chr1	87852738	87852738	+	0.00034146	0.00361174	-36.87943262
chr1	87946614	87946614	-	0	0	-32.36489159
chr1	88241361	88241361	+	7.76E-05	0.00101225	32.87220026
chr1	88261163	88261163	+	5.99E-06	0.00010449	31.03896104
chr1	88668636	88668636	+	0	0	-31.57506564
chr1	88668680	88668680	+	0	0	-36.36348937
chr1	88668681	88668681	-	0	0	-32.83535866
chr1	88668743	88668743	+	1.91E-09	6.08E-08	-36.01979498
chr1	89090532	89090532	+	0	0	-34.00187551
chr1	89090533	89090533	-	1.09E-08	3.11E-07	-30.33599808
chr1	89090541	89090541	+	0	0	-37.00409913
chr1	89090549	89090549	+	0	0	-35.18428626
chr1	89090672	89090672	+	2.86E-07	6.50E-06	-25.54559121
chr1	89466787	89466787	+	0	0	-34.01852628
chr1	89466797	89466797	+	0	0	-34.23172757
chr1	89466823	89466823	+	0	0	-32.87773004

chr1	89581711	89581711	+	0	0	-25.95003725
chr1	89581712	89581712	-	0	0	-28.06826434
chr1	89581797	89581797	+	3.33E-16	2.11E-14	-33.93051857
chr1	89750927	89750927	+	0	0	-26.74002459
chr1	89750980	89750980	-	0	0	-29.28600617
chr1	89751017	89751017	+	0	0	-29.21938587
chr1	89751019	89751019	+	0	0	-27.35486687
chr1	89751021	89751021	+	0	0	-28.32599916
chr1	89751051	89751051	-	0	0	-39.19393214
chr1	89751063	89751063	-	0	0	-26.64041995
chr1	89751072	89751072	-	0	0	-26.10983982
chr1	89751075	89751075	-	0	0	-33.48632928
chr1	89751083	89751083	-	3.00E-15	1.76E-13	-25.70108051
chr1	89913443	89913443	-	0.00017779	0.00207172	-43.17647059
chr1	89918241	89918241	-	0	0	-27.23211116
chr1	89922081	89922081	-	0	0	-26.53559057
chr1	89928771	89928771	+	0	0	-36.32486854
chr1	89928774	89928774	+	0	0	-27.33293453
chr1	89928805	89928805	+	0	0	-47.26725786
chr1	89928820	89928820	+	0	0	-26.95744717
chr1	89928899	89928899	-	0	0	-38.9386146
chr1	89928916	89928916	-	0	0	-34.02747775
chr1	89928919	89928919	-	0	0	-37.95530793
chr1	89928922	89928922	-	0	0	-46.50523931
chr1	89928924	89928924	+	0	0	-35.28654538
chr1	89928925	89928925	-	0	0	-39.57986278
chr1	89928941	89928941	+	0	0	-36.43411288
chr1	89928961	89928961	+	0	0	-44.01517171
chr1	89928962	89928962	-	0	0	-40.98601131
chr1	89928964	89928964	+	0	0	-39.48233429
chr1	89928965	89928965	-	0	0	-42.83985044
chr1	89928971	89928971	+	0	0	-27.06437338
chr1	89928972	89928972	-	0	0	-25.77510713
chr1	89928989	89928989	-	0	0	-42.55860107
chr1	89931501	89931501	-	0	0	-28.6636655
chr1	89931649	89931649	+	0	0	-34.08603084
chr1	89931683	89931683	-	0	0	-42.77086821
chr1	89931704	89931704	-	0	0	-53.17003631
chr1	89931709	89931709	-	0	0	-34.35248367
chr1	89931721	89931721	-	0	0	-37.71134208
chr1	89931726	89931726	-	0	0	-46.8014904



chr1	89932158	89932158	+	2.28E-11	9.10E-10	-47.54545455
chr1	89935549	89935549	+	0	0	-41.28709925
chr1	89935562	89935562	+	0	0	-42.92973532
chr1	89935584	89935584	+	0	0	-44.38844062
chr1	89935585	89935585	-	0	0	-41.43350617
chr1	89935597	89935597	+	0	0	-33.71136979
chr1	89935598	89935598	-	0	0	-34.8853653
chr1	89935630	89935630	+	0	0	-41.76242606
chr1	89935724	89935724	-	0	0	-31.84575543
chr1	90202264	90202264	+	0	0	-25.26793584
chr1	90202364	90202364	+	0	0	-32.84610814
chr1	90202382	90202382	+	0	0	-27.73914483
chr1	90202464	90202464	-	0	0	-32.30430734
chr1	90202691	90202691	+	8.83E-07	1.84E-05	-35.77764636
chr1	90927469	90927469	-	0	0	-25.34570892
chr1	90927559	90927559	-	0	0	-28.17954448
chr1	90969679	90969679	-	2.32E-10	8.28E-09	-25.88932806
chr1	91017732	91017732	+	1.08E-12	4.95E-11	-26.97417124
chr1	91017752	91017752	-	0	0	-29.36268518
chr1	91017772	91017772	-	0	0	-29.5649303
chr1	91017783	91017783	-	0	0	-25.79133746
chr1	91017788	91017788	-	0	0	-28.2707318
chr1	91022713	91022713	-	3.34E-08	8.88E-07	-36.36363636
chr1	91022735	91022735	-	2.32E-05	0.00035112	-28.18181818
chr1	91449618	91449618	+	0	0	-34.92685475
chr1	91449619	91449619	-	0	0	-34.63530639
chr1	91449623	91449623	+	0	0	-35.30723001
chr1	91449624	91449624	-	0	0	-39.14617249
chr1	91449639	91449639	-	0	0	-35.33778129
chr1	92976440	92976440	+	0	0	-30.77568437
chr1	93190933	93190933	-	3.83E-10	1.33E-08	-30.22710623
chr1	93211755	93211755	-	1.00E-09	3.30E-08	-43.44888367
chr1	93211793	93211793	+	0	0	-26.07867732
chr1	105880787	105880787	-	9.13E-09	2.63E-07	-48.31730769
chr1	106037278	106037278	+	1.13E-07	2.75E-06	-28.79945163
chr1	106173275	106173275	-	0	0	-31.54275714
chr1	106876112	106876112	+	2.22E-16	1.43E-14	-25.42511919
chr1	108852411	108852411	-	3.39E-07	7.61E-06	-37.69181991
chr1	118097504	118097504	+	0	0	-30.74759615
chr1	118457228	118457228	+	2.99E-07	6.77E-06	-28.54531002
chr1	118457479	118457479	-	2.64E-06	4.99E-05	-27.86868268

chr1	118969181	118969181	+	1.33E-15	8.06E-14	-35.24239544
chr1	118991170	118991170	-	0	0	-25.86974332
chr1	119035503	119035503	-	6.59E-07	1.40E-05	-32.0508167
chr1	119035538	119035538	-	0.00011222	0.00139229	-25.47198082
chr1	119050408	119050408	+	0	0	-33.23357153
chr1	119065007	119065007	-	7.29E-08	1.83E-06	-26.01909152
chr1	119077269	119077269	+	0	0	-28.32615074
chr1	119077295	119077295	+	0	0	-29.92018191
chr1	119077400	119077400	-	2.53E-12	1.12E-10	-31.89811787
chr1	119305525	119305525	+	0	0	-25.68263602
chr1	120099496	120099496	+	1.75E-06	3.43E-05	-31.80946292
chr1	120176375	120176375	+	1.17E-08	3.33E-07	-26.71568627
chr1	120469149	120469149	-	4.65E-05	0.00064758	-27.60171744
chr1	120964224	120964224	+	1.03E-09	3.40E-08	-26.89447483
chr1	126677310	126677310	+	0	0	-26.66759674
chr1	128440508	128440508	+	0	0	-34.12329649
chr1	128440596	128440596	-	0	0	-35.09209745
chr1	128440599	128440599	-	0	0	-33.20772097
chr1	128440611	128440611	-	0	0	-27.50996188
chr1	128440621	128440621	-	0	0	-30.54379681
chr1	128440634	128440634	+	8.59E-13	3.99E-11	-29.38004365
chr1	128440635	128440635	-	0	0	-32.32307029
chr1	128440742	128440742	+	0	0	-32.29407486
chr1	128440743	128440743	-	0	0	-39.85416623
chr1	128457074	128457074	-	0	0	-37.12284949
chr1	130659862	130659862	-	5.22E-15	3.00E-13	-30.17424564
chr1	130942149	130942149	-	7.28E-12	3.07E-10	-25.48262548
chr1	130947120	130947120	+	0	0	-30.97221279
chr1	131003559	131003559	-	0	0	-37.75519018
chr1	131003568	131003568	-	0	0	-35.03127142
chr1	131003615	131003615	-	0	0	-26.13198333
chr1	131188029	131188029	-	0	0	-26.59099451
chr1	131244665	131244665	+	0	0	-30.78532077
chr1	131244676	131244676	+	0	0	-27.20834273
chr1	131744244	131744244	-	5.43E-10	1.85E-08	-28.81393035
chr1	131748331	131748331	-	0	0	-25.18766833
chr1	132116717	132116717	+	2.53E-13	1.24E-11	-25.42484944
chr1	132116742	132116742	+	1.36E-13	6.81E-12	-26.67748061
chr1	132138101	132138101	-	0.00021936	0.00247951	-31.27943485
chr1	132140446	132140446	+	0.00082145	0.00751208	-33.58876117
chr1	132195468	132195468	+	8.73E-09	2.53E-07	-25.32358156

chr1	132233908	132233908	-	0.00011501	0.0014218	-31.06947697
chr1	132291419	132291419	-	2.46E-05	0.0003696	-34.11764706
chr1	132292800	132292800	+	1.31E-10	4.81E-09	-32.88825512
chr1	132323008	132323008	-	0	0	-26.30455041
chr1	132338072	132338072	+	0	0	-27.55488549
chr1	132390009	132390009	-	0	0	-25.89794757
chr1	132921048	132921048	-	0.00074291	0.00691276	31.81818182
chr1	133071785	133071785	+	2.77E-12	1.22E-10	-25.83887068
chr1	133076930	133076930	+	3.82E-11	1.49E-09	-29.41414834
chr1	133077137	133077137	-	5.45E-11	2.09E-09	-48.20384294
chr1	133077163	133077163	-	2.28E-06	4.36E-05	-37.15956558
chr1	133101106	133101106	-	0	0	-40.60647213
chr1	133168578	133168578	-	0	0	-25.05044908
chr1	133222892	133222892	+	0	0	-38.88888889
chr1	133222893	133222893	-	0	0	-32.04153646
chr1	133226196	133226196	+	0	0	-33.38367566
chr1	133226219	133226219	+	0	0	-41.84029614
chr1	133298819	133298819	-	0	0	-25.86264503
chr1	133412977	133412977	+	1.19E-08	3.38E-07	-25.65960016
chr1	133438095	133438095	+	0	0	-26.81295587
chr1	133438131	133438131	+	0	0	-25.5018483
chr1	133438176	133438176	-	0	0	-27.40625
chr1	133763401	133763401	+	0	0	-26.16437401
chr1	133763402	133763402	-	0	0	-25.38958543
chr1	133886826	133886826	+	7.77E-16	4.79E-14	-25.61369549
chr1	133890078	133890078	+	0	0	-41.32876177
chr1	133890108	133890108	-	0	0	-52.2502267
chr1	133890114	133890114	-	0	0	-48.42709662
chr1	133890135	133890135	-	0	0	-29.15158871
chr1	133890150	133890150	+	0	0	-36.48715212
chr1	133890151	133890151	-	1.11E-16	7.26E-15	-31.10410013
chr1	133890193	133890193	-	0	0	-35.21011981
chr1	133890675	133890675	+	0	0	-34.17645192
chr1	133890709	133890709	+	0	0	-42.60232521
chr1	133917800	133917800	+	1.05E-14	5.88E-13	-32.20325804
chr1	133961904	133961904	+	0	0	-28.69023591
chr1	134046634	134046634	-	0	0	-25.97782369
chr1	134046666	134046666	+	3.15E-06	5.85E-05	-29.54627949
chr1	134046667	134046667	-	1.42E-05	0.00022691	-25.77605322
chr1	134083124	134083124	-	0	0	-25.9080012
chr1	134233632	134233632	+	0.00050411	0.00500844	-27.04686618

chr1	134292394	134292394	-	1.67E-05	0.0002613	-29.88748242
chr1	134421758	134421758	+	0	0	-25.26637332
chr1	134421759	134421759	-	1.62E-12	7.32E-11	-30.19834475
chr1	134709637	134709637	-	0	0	-33.767507
chr1	135084930	135084930	-	2.01E-07	4.70E-06	-37.11711712
chr1	135085391	135085391	-	0.00017491	0.00204325	-28.9071882
chr1	135110594	135110594	+	2.83E-14	1.52E-12	-25.82378348
chr1	135110739	135110739	-	1.04E-07	2.55E-06	-26.6198854
chr1	135136111	135136111	-	1.31E-10	4.79E-09	-51.50713908
chr1	135154287	135154287	+	1.11E-16	7.26E-15	-26.11836982
chr1	135154345	135154345	-	0	0	-31.43401509
chr1	135248513	135248513	+	0	0	-26.21826259
chr1	135584032	135584032	+	2.02E-08	5.54E-07	-30.38630028
chr1	135584843	135584843	+	0	0	-44.6274825
chr1	135584844	135584844	-	0	0	-39.04246262
chr1	135584847	135584847	-	0	0	-37.64832259
chr1	135584849	135584849	+	1.11E-16	7.26E-15	-44.69320066
chr1	135584850	135584850	-	0	0	-35.83829852
chr1	135584877	135584877	+	3.24E-14	1.73E-12	-33.13519814
chr1	135584898	135584898	+	0	0	-52.8473245
chr1	135585043	135585043	-	1.13E-13	5.72E-12	-43.21378718
chr1	135585056	135585056	-	7.77E-07	1.63E-05	-29.63265751
chr1	135585126	135585126	+	2.12E-08	5.80E-07	-25.78828829
chr1	135616091	135616091	-	0.00031911	0.00341127	-34.31372549
chr1	135673590	135673590	+	0	0	-26.03599963
chr1	135691532	135691532	-	3.71E-05	0.00053082	-27.87387387
chr1	135691559	135691559	-	2.16E-06	4.16E-05	-37.33333333
chr1	135699019	135699019	+	0	0	-49.2331049
chr1	135699032	135699032	+	0	0	-38.92548799
chr1	135699038	135699038	+	0	0	-52.3368663
chr1	135699066	135699066	+	0	0	-43.29901257
chr1	135699092	135699092	-	0	0	-40.93031426
chr1	135699104	135699104	-	0	0	-28.64294386
chr1	135699113	135699113	-	0	0	-38.57123775
chr1	135699125	135699125	-	0	0	-31.16489115
chr1	135735466	135735466	+	1.11E-16	7.26E-15	-28.29088642
chr1	135851715	135851715	-	1.76E-10	6.37E-09	-26.05880513
chr1	136133185	136133185	+	1.11E-16	7.26E-15	-26.04077863
chr1	136133725	136133725	+	3.08E-09	9.52E-08	-26.85877991
chr1	136133726	136133726	-	2.08E-09	6.57E-08	-33.40540541
chr1	136133747	136133747	-	2.44E-09	7.64E-08	-35.67567568

chr1	136230388	136230388	+	0	0	-36.70322624
chr1	136230470	136230470	-	0	0	-42.61245968
chr1	136230486	136230486	+	0	0	-50.25824556
chr1	136231839	136231839	+	0	0	-29.24401382
chr1	136232283	136232283	+	8.60E-07	1.79E-05	-26.45976182
chr1	136232428	136232428	-	2.22E-16	1.43E-14	-27.24559883
chr1	136570401	136570401	-	0	0	-28.01842179
chr1	136695273	136695273	+	5.04E-08	1.30E-06	-45.27950311
chr1	136695300	136695300	+	1.12E-06	2.29E-05	-40.86580087
chr1	136696294	136696294	+	0	0	-36.22041597
chr1	136696321	136696321	+	0	0	-38.70786428
chr1	136696326	136696326	+	0	0	-37.33756604
chr1	136696327	136696327	-	1.11E-16	7.26E-15	-29.76874608
chr1	136696351	136696351	-	0	0	-38.52740715
chr1	136696360	136696360	-	1.03E-14	5.76E-13	-25.72867938
chr1	136733489	136733489	-	7.05E-05	0.00093093	-32.25806452
chr1	138617531	138617531	-	3.22E-08	8.58E-07	-26.73919706
chr1	142369645	142369645	+	0.00020792	0.0023688	26.66666667
chr1	149954175	149954175	+	1.75E-07	4.14E-06	-30.91355819
chr1	151087339	151087339	+	9.89E-07	2.04E-05	-27.73109244
chr1	151087532	151087532	-	1.02E-09	3.37E-08	-35.54778555
chr1	151250918	151250918	-	5.19E-08	1.34E-06	-25.2188047
chr1	151571056	151571056	+	5.04E-08	1.30E-06	-33.75841584
chr1	151686763	151686763	-	8.86E-11	3.32E-09	-25.55449012
chr1	152047556	152047556	+	4.10E-12	1.78E-10	-31.8657299
chr1	152241888	152241888	+	0.00033383	0.00354353	-28.00189843
chr1	152426123	152426123	+	0.00099681	0.00880808	-28.04621849
chr1	152677014	152677014	+	2.26E-09	7.11E-08	-34.32098765
chr1	153048133	153048133	-	0	0	-27.125044
chr1	153048146	153048146	+	0	0	-27.50523909
chr1	153048289	153048289	-	0	0	-31.66768812
chr1	153191649	153191649	-	2.41E-05	0.00036282	-25.32144944
chr1	153346103	153346103	-	7.99E-10	2.67E-08	-28.84411453
chr1	153642216	153642216	+	2.11E-15	1.25E-13	-30.41568319
chr1	153642223	153642223	+	1.21E-11	4.97E-10	-25.18755638
chr1	153964157	153964157	-	0	0	-45.60273096
chr1	155086692	155086692	+	0	0	-26.18385842
chr1	155086693	155086693	-	0	0	-25.96946606
chr1	155480212	155480212	-	0.00043733	0.00444437	-34.61538462
chr1	155530852	155530852	-	5.24E-06	9.25E-05	-30.12987013
chr1	155784838	155784838	-	0	0	-27.98835692

chr1	156304205	156304205	-	3.22E-15	1.89E-13	-32.28137996
chr1	156310801	156310801	+	0	0	-29.96611871
chr1	156310803	156310803	+	0	0	-32.15420207
chr1	156378325	156378325	+	7.79E-06	0.00013224	-33.33333333
chr1	157415906	157415906	+	1.48E-05	0.00023548	-31.15441022
chr1	157415960	157415960	-	0	0	-33.58713972
chr1	157450853	157450853	+	5.70E-10	1.94E-08	-26.3645483
chr1	157450886	157450886	-	9.99E-16	6.10E-14	-33.49275362
chr1	159816853	159816853	-	0.00079932	0.00734456	-27.71892655
chr1	160793387	160793387	-	0	0	-30.15982988
chr1	161142978	161142978	-	0	0	-26.80479879
chr1	161142994	161142994	-	0	0	-36.14287283
chr1	161143056	161143056	-	0	0	-25.77030812
chr1	162004467	162004467	+	0.00011583	0.00143063	-25.91149735
chr1	162076961	162076961	+	0	0	-34.94983278
chr1	162412415	162412415	-	2.22E-16	1.43E-14	-29.74600457
chr1	164136792	164136792	+	0.00114645	0.00986966	-28.96825397
chr1	164144749	164144749	-	8.17E-12	3.43E-10	-33.37077337
chr1	165091745	165091745	-	7.68E-09	2.24E-07	-38.06613947
chr1	165153366	165153366	+	3.29E-05	0.00047702	-36.24127617
chr1	165153367	165153367	-	0	0	-28.26073357
chr1	165617025	165617025	+	3.17E-08	8.46E-07	-26.81928777
chr1	165617037	165617037	+	8.22E-06	0.0001387	-26.85584689
chr1	165617213	165617213	+	0	0	-25.77235772
chr1	165617214	165617214	-	8.35E-06	0.00014081	-26.15646259
chr1	165663408	165663408	+	0	0	-27.97211755
chr1	165701665	165701665	-	3.36E-09	1.03E-07	-50.43067519
chr1	165725208	165725208	+	6.41E-11	2.44E-09	-26.18657291
chr1	165771469	165771469	+	6.68E-08	1.69E-06	-29.75520476
chr1	166068916	166068916	+	7.79E-05	0.00101559	-37.22349352
chr1	166365659	166365659	+	7.25E-05	0.00095351	-31.91489362
chr1	167269382	167269382	-	2.58E-09	8.05E-08	-34.1089154
chr1	167283163	167283163	+	0	0	-27.55705694
chr1	167545448	167545448	-	9.16E-12	3.82E-10	-28.0129717
chr1	168215015	168215015	-	0	0	-27.03524417
chr1	168232518	168232518	+	2.46E-10	8.73E-09	-27.33359764
chr1	168382998	168382998	-	1.32E-06	2.65E-05	-29.90510949
chr1	168416240	168416240	+	1.38E-07	3.33E-06	-26.67378917
chr1	170820234	170820234	+	1.16E-07	2.82E-06	-26.08118657
chr1	171064607	171064607	+	1.99E-06	3.86E-05	-47.07602339
chr1	171115974	171115974	+	7.35E-05	0.00096493	-27.90697674

chr1	171160027	171160027	-	0	0	-28.53793691
chr1	171160052	171160052	-	0	0	-34.22925636
chr1	171193136	171193136	+	0	0	-28.54743403
chr1	171193137	171193137	-	0	0	-29.61265156
chr1	171193249	171193249	+	0	0	-42.05079558
chr1	171193250	171193250	-	0	0	-45.17236739
chr1	171193313	171193313	-	0	0	-33.40061676
chr1	171230915	171230915	-	5.31E-08	1.37E-06	-36.54054054
chr1	171250980	171250980	-	0	0	-30.70158443
chr1	171250987	171250987	-	0	0	-27.71746781
chr1	171251243	171251243	+	0	0	-27.61542738
chr1	171251244	171251244	-	3.52E-06	6.47E-05	-35.89285714
chr1	171251271	171251271	+	0	0	-34.40636632
chr1	171251341	171251341	-	0	0	-37.05041644
chr1	171271346	171271346	-	4.73E-05	0.0006568	-29.25707429
chr1	171271351	171271351	-	7.66E-06	0.00013022	-30.22655008
chr1	171280382	171280382	-	2.03E-06	3.93E-05	-26.49425287
chr1	171370561	171370561	-	1.20E-08	3.41E-07	-31.47605083
chr1	171370608	171370608	-	1.14E-06	2.33E-05	-28.32285586
chr1	171380414	171380414	-	0	0	-25.55622879
chr1	172001936	172001936	-	0	0	-25.10745109
chr1	172244206	172244206	+	0	0	-33.19385957
chr1	172244227	172244227	+	0	0	-36.00366525
chr1	172244377	172244377	-	3.28E-09	1.01E-07	-34.36656334
chr1	172244382	172244382	-	3.51E-10	1.22E-08	-36.47058824
chr1	172245133	172245133	+	0	0	-27.48300918
chr1	172245134	172245134	-	3.66E-15	2.14E-13	-25.33648022
chr1	172392396	172392396	+	0	0	-29.74296976
chr1	172392418	172392418	+	0	0	-25.63605402
chr1	172392421	172392421	+	0	0	-27.7304533
chr1	172392480	172392480	-	0	0	-26.56550122
chr1	172532410	172532410	+	0	0	-37.22743353
chr1	172532415	172532415	+	0	0	-44.80911336
chr1	172532416	172532416	-	0	0	-44.79348014
chr1	172532464	172532464	+	0	0	-41.11034931
chr1	172532471	172532471	+	0	0	-29.40545704
chr1	172532472	172532472	-	0	0	-26.70583364
chr1	172532490	172532490	+	0	0	-28.63154951
chr1	172561080	172561080	+	0	0	-41.17411115
chr1	172561240	172561240	-	0	0	-31.21604393
chr1	172587098	172587098	+	0.00063885	0.00610269	-25.20222447

chr1	172592498	172592498	-	0	0	-39.1797522
chr1	173368020	173368020	+	0.00038201	0.00396919	-32.43781095
chr1	177012008	177012008	-	0	0	-28.8278526
chr1	177012048	177012048	-	0	0	-32.30567315
chr1	177323228	177323228	-	1.82E-06	3.56E-05	-28.90559733
chr1	177512273	177512273	+	1.23E-05	0.00019847	-41.17647059
chr1	177640656	177640656	+	1.14E-07	2.78E-06	-29.64559387
chr1	180302123	180302123	-	0	0	-30.72269484
chr1	180312405	180312405	+	3.62E-06	6.63E-05	-30.26315789
chr1	180312432	180312432	-	0.00012967	0.00157813	-30.09169214
chr1	180332533	180332533	+	0	0	-35.67919799
chr1	180332534	180332534	-	1.90E-14	1.03E-12	-27.45478036
chr1	180357111	180357111	+	1.16E-08	3.31E-07	-35.69549971
chr1	180357243	180357243	-	6.17E-13	2.91E-11	-29.44430475
chr1	180433193	180433193	+	3.39E-09	1.04E-07	-35.81529582
chr1	180433195	180433195	+	3.85E-06	7.00E-05	-26.12121212
chr1	180433214	180433214	+	9.36E-06	0.00015594	-31.1976912
chr1	180433216	180433216	+	3.55E-07	7.94E-06	-32.83492823
chr1	180465075	180465075	+	0.00043193	0.00439839	27.4122807
chr1	180697245	180697245	+	8.97E-08	2.22E-06	-31.70869789
chr1	180697253	180697253	+	2.65E-08	7.16E-07	-31.49253731
chr1	180697254	180697254	-	0	0	-27.45382824
chr1	180771488	180771488	-	0	0	-26.39594647
chr1	180935357	180935357	-	3.58E-12	1.56E-10	-36.51960784
chr1	181376409	181376409	-	0	0	-28.4784498
chr1	181449981	181449981	+	6.03E-11	2.30E-09	-47.82324059
chr1	181845762	181845762	+	0.00078396	0.00722816	-33.34717608
chr1	182088002	182088002	+	6.25E-06	0.00010852	-31.49920255
chr1	182102352	182102352	-	1.86E-08	5.14E-07	-25.24667932
chr1	182365015	182365015	+	2.51E-05	0.00037609	42.30769231
chr1	182501419	182501419	-	0	0	-27.10974742
chr1	182585267	182585267	+	0	0	-33.80212953
chr1	182671634	182671634	+	0	0	-26.99323117
chr1	182765267	182765267	+	0	0	-26.91332577
chr1	182765371	182765371	-	0	0	-31.73631276
chr1	182819188	182819188	+	0	0	-26.78660099
chr1	183082003	183082003	+	0	0	-40.22828784
chr1	183082004	183082004	-	1.52E-08	4.26E-07	-29.43262411
chr1	183082044	183082044	+	0	0	-34.36728395
chr1	183322748	183322748	+	1.83E-08	5.06E-07	-25.85949178
chr1	183439001	183439001	+	1.83E-07	4.31E-06	-41.11111111



chr1	184279497	184279497	+	0	0	-37.65914352
chr1	184279512	184279512	+	0	0	-42.72727273
chr1	184279581	184279581	-	0	0	-35.34151034
chr1	184615567	184615567	-	1.98E-06	3.84E-05	-32.25490196
chr1	184664235	184664235	-	1.32E-14	7.30E-13	-27.35326087
chr1	184724802	184724802	+	2.03E-14	1.10E-12	-25.9556445
chr1	184724880	184724880	-	0	0	-37.17535985
chr1	184724899	184724899	-	0	0	-34.33530947
chr1	184727543	184727543	-	0	0	-25.43203554
chr1	184727892	184727892	+	0	0	-41.60599436
chr1	184727904	184727904	+	0	0	-40.42218384
chr1	184727908	184727908	+	0	0	-34.93252021
chr1	184727932	184727932	+	0	0	-38.78890562
chr1	184727933	184727933	-	0	0	-36.36763136
chr1	184727938	184727938	+	0	0	-37.45967468
chr1	184727939	184727939	-	0	0	-36.79159105
chr1	184727955	184727955	-	0	0	-32.66448334
chr1	184727969	184727969	+	0	0	-30.74747389
chr1	184727970	184727970	-	0	0	-37.34313088
chr1	184727997	184727997	+	0	0	-25.61791115
chr1	184727998	184727998	-	0	0	-26.61955241
chr1	184728040	184728040	-	0	0	-30.68607482
chr1	184730850	184730850	+	6.48E-11	2.46E-09	-37.16899374
chr1	184730860	184730860	+	0	0	-45.39639465
chr1	184730893	184730893	+	1.78E-09	5.67E-08	-33.07333824
chr1	184730991	184730991	-	0	0	-34.20937171
chr1	184731037	184731037	+	0	0	-48.28520994
chr1	184731038	184731038	-	0	0	-43.95743266
chr1	184731183	184731183	-	3.54E-08	9.36E-07	-28.66265414
chr1	184733994	184733994	+	0	0	-26.86860678
chr1	184748729	184748729	+	0	0	-30.27128259
chr1	184748741	184748741	+	0	0	-28.68573479
chr1	184748806	184748806	-	1.18E-13	5.98E-12	-35.41999666
chr1	184748867	184748867	+	1.11E-16	7.26E-15	-25.14071295
chr1	184748871	184748871	+	0	0	-27.77654614
chr1	184749010	184749010	-	2.22E-16	1.43E-14	-29.11649499
chr1	184827466	184827466	-	4.88E-10	1.68E-08	-40.71637427
chr1	184864519	184864519	+	2.39E-06	4.55E-05	-29.23143351
chr1	184864531	184864531	+	2.92E-11	1.15E-09	-48.37306263
chr1	184864532	184864532	-	0	0	-34.66981132
chr1	184864552	184864552	-	0	0	-40.88269454

chr1	186285117	186285117	-	0.00035023	0.00368934	38.72282609
chr1	186652611	186652611	-	5.33E-15	3.06E-13	-27.04127143
chr1	187651203	187651203	+	0	0	-25.9238495
chr1	187651239	187651239	-	0	0	-27.88805459
chr1	189946233	189946233	-	2.01E-06	3.88E-05	-27.70400773
chr1	190009915	190009915	-	4.16E-05	0.00058679	-34.27419355
chr1	191277284	191277284	-	5.08E-09	1.52E-07	-36.60082547
chr1	191277325	191277325	-	2.79E-06	5.24E-05	-27.808418
chr1	191446042	191446042	+	0	0	-27.81392557
chr1	191476256	191476256	-	0	0	-40.46494324
chr1	191476267	191476267	-	0	0	-32.13076
chr1	191476302	191476302	-	1.44E-15	8.70E-14	-29.91931584
chr1	192522611	192522611	+	3.11E-06	5.78E-05	40.74074074
chr1	192799485	192799485	+	0	0	-33.58503993
chr1	192799486	192799486	-	0	0	-36.73241088
chr1	192833865	192833865	-	7.80E-06	0.00013234	-50.92592593
chr1	192834310	192834310	+	0	0	-31.75594602
chr1	192834311	192834311	-	0	0	-25.74333397
chr1	192834339	192834339	+	0	0	-25.49358801
chr1	193272972	193272972	+	0	0	-33.57544681
chr10	4249395	4249395	-	0	0	-28.2985524
chr10	4255107	4255107	-	8.17E-14	4.20E-12	-25.47374961
chr10	4265727	4265727	+	0	0	-28.07913894
chr10	4265740	4265740	+	0	0	-28.63906926
chr10	4265743	4265743	+	0	0	-25.67595459
chr10	4265863	4265863	-	0	0	-36.82969512
chr10	4265913	4265913	-	0	0	-34.76183136
chr10	4430437	4430437	+	7.32E-06	0.00012499	-26.2254902
chr10	4712163	4712163	+	0	0	-29.23030848
chr10	4712173	4712173	+	0	0	-30.70950788
chr10	7158799	7158799	+	0	0	-29.46845355
chr10	7269326	7269326	+	0	0	-26.25781274
chr10	7393684	7393684	+	0	0	-30.1320092
chr10	7850827	7850827	+	1.31E-06	2.62E-05	-31.03448276
chr10	7867678	7867678	+	8.24E-05	0.00106596	-30.74698795
chr10	7867687	7867687	+	4.28E-06	7.71E-05	-34.47467167
chr10	7883376	7883376	-	1.35E-05	0.00021693	26.61290323
chr10	12614665	12614665	+	4.37E-11	1.70E-09	-35.59263121
chr10	12615014	12615014	-	0	0	-35.57966321
chr10	12615020	12615020	-	1.11E-16	7.26E-15	-30.95226772
chr10	12615057	12615057	-	0	0	-37.83678756

chr10	12823411	12823411	-	2.32E-10	8.28E-09	-44.34468524
chr10	13060882	13060882	+	0	0	-33.73185287
chr10	13061019	13061019	-	0	0	-45.06308685
chr10	13061022	13061022	-	0	0	-49.44265377
chr10	13061033	13061033	-	0	0	-51.01318119
chr10	13061039	13061039	-	0	0	-55.45877889
chr10	13061051	13061051	-	3.87E-12	1.68E-10	-30.99177152
chr10	13061065	13061065	-	0	0	-44.12774725
chr10	13061067	13061067	+	0	0	-27.54357659
chr10	13061068	13061068	-	1.75E-12	7.88E-11	-33.37912088
chr10	13061072	13061072	+	0	0	-45.39735627
chr10	13061083	13061083	+	0	0	-50.24031225
chr10	13061088	13061088	+	0	0	-38.41836735
chr10	13061090	13061090	+	0	0	-40.89947791
chr10	13061092	13061092	+	0	0	-43.17822096
chr10	13061110	13061110	+	0	0	-44.29548946
chr10	13061111	13061111	-	0	0	-41.82692308
chr10	13061112	13061112	+	0	0	-44.18016194
chr10	13061113	13061113	-	0	0	-44.25866199
chr10	13061114	13061114	+	0	0	-47.6548066
chr10	13061115	13061115	-	0	0	-39.03747405
chr10	13061116	13061116	+	5.44E-15	3.12E-13	-38.29231198
chr10	13061117	13061117	-	0	0	-31.94466246
chr10	13061124	13061124	-	0	0	-39.65953239
chr10	13061127	13061127	-	0	0	-37.45934959
chr10	13061161	13061161	-	0	0	-28.38072307
chr10	13061171	13061171	+	0	0	-41.50683639
chr10	13061172	13061172	-	0	0	-40.10162832
chr10	13061173	13061173	+	0	0	-25.82038012
chr10	13061174	13061174	-	0	0	-26.65681213
chr10	13061183	13061183	+	0	0	-38.20510609
chr10	13061184	13061184	-	0	0	-41.74640495
chr10	13061192	13061192	+	0	0	-25.94546067
chr10	13061193	13061193	-	0	0	-25.77001102
chr10	13061222	13061222	-	0	0	-32.67656133
chr10	13572374	13572374	-	8.16E-11	3.07E-09	-27.56060782
chr10	13850250	13850250	-	2.84E-06	5.33E-05	-28.91566265
chr10	13850280	13850280	-	2.01E-05	0.00030918	-32.46007285
chr10	14016445	14016445	-	0	0	-25.50551681
chr10	14016457	14016457	-	0	0	-26.85531465
chr10	14281655	14281655	+	0	0	-33.34695976

chr10	14281656	14281656	-	0	0	-29.33765834
chr10	14281666	14281666	+	0	0	-29.96608253
chr10	14281667	14281667	-	0	0	-25.18657376
chr10	14544583	14544583	+	2.11E-08	5.78E-07	-27.27232282
chr10	14544584	14544584	-	2.63E-05	0.00039173	-26.32940872
chr10	17230137	17230137	+	1.65E-07	3.90E-06	-50.74668142
chr10	17237600	17237600	-	4.41E-07	9.69E-06	-33.72916667
chr10	17653462	17653462	+	0	0	-30.11148864
chr10	18204535	18204535	+	0	0	-27.87068004
chr10	18204536	18204536	-	2.34E-12	1.04E-10	-26.45995551
chr10	18317697	18317697	+	5.47E-10	1.86E-08	-32.48287146
chr10	18317708	18317708	+	1.52E-09	4.88E-08	-32.66680481
chr10	18844627	18844627	-	0	0	-30.90108647
chr10	19338981	19338981	-	8.29E-10	2.76E-08	-25.53499132
chr10	19361673	19361673	+	0	0	-27.63997342
chr10	19361748	19361748	+	0	0	-31.56738031
chr10	19361749	19361749	-	0	0	-43.07805731
chr10	19361764	19361764	+	0	0	-38.17933931
chr10	19361893	19361893	-	0	0	-35.8477237
chr10	19361933	19361933	-	0	0	-40.42297172
chr10	19691652	19691652	+	3.70E-07	8.24E-06	-38.08278867
chr10	19818806	19818806	-	0	0	-32.43237747
chr10	19818874	19818874	+	0	0	-28.01949122
chr10	19818875	19818875	-	0	0	-29.25029348
chr10	19818890	19818890	+	0	0	-30.25004378
chr10	19818891	19818891	-	0	0	-33.63110008
chr10	19818895	19818895	+	0	0	-35.20211302
chr10	19818933	19818933	+	0	0	-27.82787534
chr10	19818934	19818934	-	0	0	-30.79810354
chr10	19818950	19818950	-	0	0	-34.63299219
chr10	19893415	19893415	+	1.10E-06	2.25E-05	-32.71099744
chr10	20548847	20548847	+	1.56E-05	0.00024576	-37.35418218
chr10	20548865	20548865	+	1.55E-07	3.70E-06	-42.46964609
chr10	21146305	21146305	+	0	0	-30.17944273
chr10	21494517	21494517	-	1.21E-14	6.71E-13	-25.8657739
chr10	21824912	21824912	-	5.30E-11	2.03E-09	-29.75834741
chr10	21991592	21991592	-	2.72E-07	6.21E-06	-33.18008878
chr10	21991610	21991610	-	3.21E-05	0.00046726	-26.25160462
chr10	22058472	22058472	-	2.22E-16	1.43E-14	-26.31888917
chr10	22191492	22191492	-	7.38E-10	2.47E-08	-39.72500929
chr10	22191501	22191501	-	3.08E-11	1.21E-09	-35.29586679

chr10	22191525	22191525	-	3.09E-07	6.98E-06	-32.45394252
chr10	23346036	23346036	+	0	0	-26.24293785
chr10	23350806	23350806	-	7.03E-14	3.63E-12	-61.35794031
chr10	23350843	23350843	-	0.00038084	0.00395891	-30.1663249
chr10	24596231	24596231	-	2.05E-06	3.95E-05	-30.45977011
chr10	24684320	24684320	-	0.00037404	0.00390054	-27.37339196
chr10	31080115	31080115	-	0.00031308	0.00335691	-38.0952381
chr10	31600284	31600284	-	1.77E-11	7.18E-10	-35.625
chr10	39109906	39109906	-	2.66E-15	1.57E-13	-30.49543617
chr10	39172828	39172828	+	1.22E-07	2.96E-06	-28.34304893
chr10	39173053	39173053	-	4.74E-05	0.00065886	-26.99890471
chr10	39471849	39471849	-	0	0	-26.84656805
chr10	39471859	39471859	-	0	0	-27.39539615
chr10	39488214	39488214	+	0	0	-30.09260576
chr10	39552700	39552700	+	2.92E-10	1.03E-08	-39.9068323
chr10	39659995	39659995	-	2.07E-10	7.41E-09	-26.2624676
chr10	39926444	39926444	-	0.00074496	0.00692868	-31.49065955
chr10	39926604	39926604	-	0	0	-30.95136048
chr10	40198133	40198133	+	4.31E-06	7.76E-05	-30.47619048
chr10	40425661	40425661	+	0	0	-27.803723
chr10	40425710	40425710	-	0	0	-36.19693095
chr10	40810525	40810525	+	4.23E-09	1.28E-07	-28.97116325
chr10	41598286	41598286	+	0	0	-34.13931394
chr10	41598455	41598455	+	1.11E-16	7.26E-15	-28.03254121
chr10	41598604	41598604	-	0	0	-34.26281458
chr10	41598637	41598637	-	3.11E-15	1.82E-13	-25.20253351
chr10	42855423	42855423	+	0	0	-34.3164794
chr10	42855467	42855467	-	0	0	-28.73719443
chr10	42952278	42952278	-	0	0	-33.13804375
chr10	42952291	42952291	-	0	0	-35.37092206
chr10	43037576	43037576	-	0	0	-25.23720714
chr10	43695463	43695463	-	7.46E-05	0.00097842	-40.74074074
chr10	43719018	43719018	+	0	0	-28.74571532
chr10	43762724	43762724	+	0	0	-28.36504902
chr10	44148574	44148574	+	0	0	-27.76045447
chr10	44148575	44148575	-	0	0	-26.37197497
chr10	44148616	44148616	+	0	0	-37.40330156
chr10	44383353	44383353	+	0	0	-31.87766714
chr10	44456617	44456617	+	0	0	-32.48266955
chr10	44456709	44456709	-	0	0	-43.22888434
chr10	44456729	44456729	+	0	0	-38.07165

chr10	44456844	44456844	-	0	0	-40.61018707
chr10	44456849	44456849	+	0	0	-37.47963818
chr10	44456850	44456850	-	0	0	-35.07991451
chr10	44456908	44456908	+	1.05E-12	4.84E-11	-55.24034673
chr10	44456909	44456909	-	0	0	-43.90218341
chr10	44456911	44456911	+	5.50E-07	1.19E-05	-41.48977987
chr10	45118259	45118259	+	0.0001103	0.00137173	-37.55555556
chr10	45118521	45118521	-	1.34E-07	3.23E-06	-27.05482363
chr10	45807820	45807820	-	3.33E-15	1.95E-13	-28.79567328
chr10	50168565	50168565	+	2.68E-06	5.05E-05	-32.695462
chr10	51620366	51620366	+	4.21E-08	1.10E-06	-37.27272727
chr10	52385019	52385019	-	8.33E-15	4.69E-13	-30.40545216
chr10	56115696	56115696	-	0	0	-30.87618007
chr10	56115704	56115704	+	0	0	-25.39374591
chr10	56115705	56115705	-	0	0	-30.04352193
chr10	56115710	56115710	+	0	0	-32.05005102
chr10	56115713	56115713	+	0	0	-25.24846326
chr10	56115719	56115719	+	0	0	-29.97859491
chr10	56115728	56115728	+	0	0	-33.74550875
chr10	56115741	56115741	+	0	0	-37.07361813
chr10	56115746	56115746	+	0	0	-33.95833333
chr10	56115815	56115815	-	0	0	-29.34049352
chr10	56115851	56115851	-	0	0	-37.52745136
chr10	56608867	56608867	-	0.00032787	0.00348964	-26.34453782
chr10	58232486	58232486	+	1.42E-06	2.83E-05	38.23529412
chr10	58746685	58746685	+	0.0001531	0.00182168	-28.00324675
chr10	59470604	59470604	+	0.00067199	0.00636509	28.57142857
chr10	59556717	59556717	-	7.88E-13	3.68E-11	-29.13298021
chr10	59863620	59863620	-	0	0	-36.14253941
chr10	59864440	59864440	+	3.29E-07	7.40E-06	-25.6314407
chr10	59889685	59889685	-	0	0	-54.37782076
chr10	59889723	59889723	-	6.72E-08	1.70E-06	-27.29851709
chr10	59911670	59911670	-	0	0	-38.80118173
chr10	59911677	59911677	-	0	0	-43.51374381
chr10	59911683	59911683	-	0	0	-27.24598742
chr10	59911738	59911738	+	0	0	-27.038839
chr10	59919740	59919740	+	0	0	-35.88906304
chr10	59919777	59919777	+	0	0	-27.9977069
chr10	60108430	60108430	+	6.52E-11	2.48E-09	-27.20650246
chr10	60186140	60186140	+	3.10E-09	9.57E-08	-25.02917785
chr10	60186354	60186354	+	8.26E-08	2.06E-06	-25.61911115

chr10	60186640	60186640	-	1.41E-05	0.00022475	-28.70521522
chr10	60194538	60194538	-	6.00E-08	1.53E-06	-30.23643024
chr10	60279551	60279551	-	4.04E-05	0.00057167	-43.67567568
chr10	60333854	60333854	-	6.84E-07	1.45E-05	-39.70823697
chr10	60495199	60495199	-	0	0	-26.37958854
chr10	60593148	60593148	-	6.44E-15	3.67E-13	-26.3144684
chr10	60593185	60593185	-	0	0	-39.79555385
chr10	60593348	60593348	-	9.21E-10	3.05E-08	-28.8911381
chr10	60593376	60593376	-	1.91E-08	5.26E-07	-26.71896504
chr10	60615997	60615997	+	0.00111757	0.00966907	-31.74486804
chr10	60624599	60624599	+	0	0	-26.75874338
chr10	60624629	60624629	+	0	0	-28.4233497
chr10	60624641	60624641	+	0	0	-32.44312363
chr10	60624642	60624642	-	0	0	-25.27527528
chr10	60624663	60624663	-	0	0	-27.9897872
chr10	60685779	60685779	+	1.89E-07	4.44E-06	-28.63451087
chr10	60685796	60685796	+	8.03E-08	2.01E-06	-32.77442562
chr10	60691975	60691975	-	0	0	-28.9820529
chr10	60691994	60691994	+	0	0	-40.3429288
chr10	60692206	60692206	+	0.00019475	0.00223994	-34.35047951
chr10	60692207	60692207	-	1.35E-12	6.16E-11	-28.84210526
chr10	60706590	60706590	-	0.00065572	0.00623687	-37.47560182
chr10	60793167	60793167	-	1.07E-05	0.00017593	-27.85123967
chr10	60814838	60814838	+	1.09E-10	4.03E-09	-47.60638298
chr10	60815534	60815534	+	0	0	-28.23347296
chr10	60826398	60826398	-	0	0	-25.33260377
chr10	60826422	60826422	-	0	0	-32.04627161
chr10	60826435	60826435	+	2.00E-15	1.19E-13	-25.66176721
chr10	61051374	61051374	-	0.00010984	0.00136677	40.5141844
chr10	61069155	61069155	-	0	0	-35.95704369
chr10	61184194	61184194	+	2.03E-10	7.29E-09	-32.01203137
chr10	61370824	61370824	-	0	0	-31.02494706
chr10	61496437	61496437	-	0	0	-29.83029092
chr10	61732449	61732449	+	0	0	-29.40196588
chr10	61732519	61732519	-	0	0	-28.55709508
chr10	61781963	61781963	-	4.47E-05	0.00062626	-27.07961973
chr10	61820148	61820148	-	3.98E-07	8.82E-06	-44.64285714
chr10	61820162	61820162	-	3.30E-05	0.00047842	-36.40394089
chr10	61879509	61879509	+	0	0	-26.49258167
chr10	61879935	61879935	+	0	0	-28.39987017
chr10	61879936	61879936	-	0.00033202	0.00352682	-25.87387387

chr10	61928586	61928586	+	7.66E-15	4.33E-13	-36.10241503
chr10	61928605	61928605	+	2.01E-12	8.99E-11	-27.87776654
chr10	61928948	61928948	-	0	0	-27.60875088
chr10	61965565	61965565	-	0	0	-26.51115895
chr10	61965578	61965578	+	3.63E-09	1.11E-07	-30.79023116
chr10	61965605	61965605	+	1.52E-09	4.90E-08	-31.63120567
chr10	62028236	62028236	-	4.42E-07	9.71E-06	-33.88505747
chr10	62208789	62208789	-	1.95E-14	1.06E-12	-29.12955466
chr10	62208803	62208803	-	0	0	-47.60763297
chr10	62208808	62208808	-	0	0	-39.31902491
chr10	62208810	62208810	+	0	0	-31.3704741
chr10	62208811	62208811	-	0	0	-32.07293007
chr10	62336328	62336328	-	1.15E-13	5.84E-12	-38.6017683
chr10	62721906	62721906	+	0	0	-29.31415297
chr10	62721959	62721959	-	0	0	-27.35169724
chr10	62865855	62865855	-	2.32E-12	1.03E-10	-25.84213172
chr10	62866228	62866228	-	0	0	-27.35641965
chr10	62866261	62866261	+	0	0	-28.84409985
chr10	62866262	62866262	-	0	0	-26.28565771
chr10	62866302	62866302	+	0	0	-27.16365754
chr10	62866303	62866303	-	0	0	-27.56777215
chr10	63366036	63366036	-	0	0	-32.03400978
chr10	63416278	63416278	-	2.00E-06	3.88E-05	-29.11583595
chr10	63416388	63416388	-	0.00022148	0.0024992	-25.61561562
chr10	67079463	67079463	+	0	0	-32.94753086
chr10	67378243	67378243	+	0	0	-36.95646857
chr10	67501950	67501950	-	3.14E-06	5.83E-05	-26.45040549
chr10	67540779	67540779	+	0	0	-34.25418505
chr10	67540907	67540907	-	0	0	-25.28185383
chr10	67547793	67547793	-	0	0	-29.76740879
chr10	67547805	67547805	-	0	0	-26.54363517
chr10	67578518	67578518	+	0.00058154	0.00564397	29.62962963
chr10	68431127	68431127	+	1.41E-11	5.76E-10	-30.40739558
chr10	68431148	68431148	+	0	0	-37.33923677
chr10	68431149	68431149	-	0	0	-38.76190518
chr10	68431171	68431171	+	0	0	-38.50755569
chr10	68431172	68431172	-	0	0	-48.09867867
chr10	68431198	68431198	-	0	0	-26.887275
chr10	69312052	69312052	+	9.27E-06	0.00015463	-34.94595986
chr10	69924392	69924392	+	0	0	-35.05903909
chr10	70105068	70105068	-	0	0	-34.14600158



chr10	70255029	70255029	+	2.63E-05	0.00039205	-30.09259259
chr10	70255047	70255047	+	0.00108442	0.00943378	-26.66666667
chr10	70289190	70289190	+	0	0	-41.11507037
chr10	70289231	70289231	-	0	0	-35.97303343
chr10	70292274	70292274	-	0	0	-27.15410635
chr10	70292352	70292352	-	0	0	-36.54336735
chr10	70292382	70292382	-	0	0	-33.41354041
chr10	72130773	72130773	-	0.00023443	0.00262434	37.03703704
chr10	74739552	74739552	+	1.57E-05	0.00024706	-37.05882353
chr10	75015807	75015807	-	1.82E-05	0.00028257	-28.31325301
chr10	75319559	75319559	+	0	0	-30.37868564
chr10	75323072	75323072	-	0	0	-28.94293586
chr10	75424612	75424612	+	4.39E-14	2.31E-12	-31.08688655
chr10	75560806	75560806	-	2.41E-14	1.30E-12	-29.87512237
chr10	75560826	75560826	+	6.99E-15	3.97E-13	-33.15298477
chr10	75560827	75560827	-	1.60E-09	5.14E-08	-27.85272558
chr10	75561223	75561223	+	1.21E-13	6.13E-12	-42.03853637
chr10	75561237	75561237	+	1.74E-12	7.86E-11	-42.22682483
chr10	75561269	75561269	+	2.03E-12	9.08E-11	-41.87856372
chr10	75882350	75882350	+	0	0	-28.31604041
chr10	75931518	75931518	+	4.51E-06	8.08E-05	-32.65306122
chr10	75931546	75931546	+	2.61E-07	5.99E-06	-37.44329897
chr10	75931554	75931554	+	0.00012592	0.00153859	-25.26460481
chr10	75931792	75931792	+	0.00013931	0.00167924	-49.62121212
chr10	75951052	75951052	-	0	0	-36.72186255
chr10	77026011	77026011	-	3.15E-08	8.39E-07	-31.80465533
chr10	77134234	77134234	+	0	0	-27.29472802
chr10	77134794	77134794	+	0	0	-35.97583879
chr10	77134918	77134918	-	0	0	-35.51401869
chr10	77151229	77151229	+	0	0	-29.5279213
chr10	77251362	77251362	+	0	0	-33.73034054
chr10	77251440	77251440	-	0	0	-29.43601821
chr10	77266381	77266381	+	1.11E-16	7.26E-15	-29.31952188
chr10	77449876	77449876	+	3.20E-06	5.94E-05	-25.0877193
chr10	77589440	77589440	+	0	0	-36.43916935
chr10	77664560	77664560	+	0	0	-25.40345395
chr10	78043373	78043373	+	2.18E-06	4.19E-05	-26.55120623
chr10	78049158	78049158	-	4.30E-06	7.75E-05	-31.92857143
chr10	78260353	78260353	+	0	0	-43.81705251
chr10	78298983	78298983	-	0	0	-26.23281746
chr10	78388544	78388544	+	0	0	-27.85286148

chr10	78481698	78481698	+	0.00089007	0.00802641	-27.27832512
chr10	78487638	78487638	+	0	0	-32.37578061
chr10	79675611	79675611	-	0	0	-25.92117547
chr10	79735495	79735495	+	0	0	-28.02305412
chr10	79735519	79735519	-	0	0	-28.6153166
chr10	79735521	79735521	-	0	0	-32.95683493
chr10	79735550	79735550	-	0	0	-26.18772372
chr10	79735553	79735553	-	0	0	-25.0531189
chr10	79735560	79735560	-	0	0	-28.42468208
chr10	79735673	79735673	+	0	0	-26.64903517
chr10	79735708	79735708	+	4.42E-11	1.71E-09	-26.49981597
chr10	79768047	79768047	+	1.05E-07	2.57E-06	-33.98588821
chr10	79803711	79803711	+	0	0	-26.59607825
chr10	79803748	79803748	-	0	0	-43.46365915
chr10	79803796	79803796	-	0	0	-25.41449215
chr10	79805896	79805896	+	0	0	-29.00290177
chr10	79805967	79805967	-	0	0	-32.52569471
chr10	79852235	79852235	+	0	0	-28.43411974
chr10	79852236	79852236	-	0	0	-31.52004823
chr10	79882609	79882609	-	0	0	-26.34449375
chr10	79918384	79918384	-	0	0	-59.62059621
chr10	79918978	79918978	+	0	0	-42.49949822
chr10	79918983	79918983	+	0	0	-49.96703659
chr10	79919125	79919125	+	0	0	-33.26149425
chr10	79919126	79919126	-	1.22E-13	6.15E-12	-33.26238978
chr10	79919162	79919162	+	0	0	-45.26814926
chr10	79919163	79919163	-	0	0	-49.97150672
chr10	79919204	79919204	-	0	0	-39.16022323
chr10	79919221	79919221	+	0	0	-36.89888117
chr10	79919231	79919231	+	0	0	-26.98954692
chr10	79919268	79919268	+	0	0	-42.95544819
chr10	79919352	79919352	-	7.14E-08	1.80E-06	-29.75829507
chr10	79919378	79919378	+	1.11E-16	7.26E-15	-33.40801887
chr10	79919407	79919407	+	2.74E-13	1.34E-11	-37.22917213
chr10	79919534	79919534	-	0	0	-37.07238214
chr10	79919556	79919556	-	0	0	-40.18232518
chr10	79919558	79919558	-	0	0	-33.52746249
chr10	79919573	79919573	+	0	0	-49.52479465
chr10	79919609	79919609	+	0	0	-41.79296066
chr10	79919693	79919693	-	2.34E-13	1.15E-11	-30.3798487
chr10	79921901	79921901	+	0	0	-26.72167702

chr10	79921902	79921902	-	0	0	-31.94226237
chr10	79921910	79921910	-	0	0	-28.77585403
chr10	79921917	79921917	-	0	0	-43.71953193
chr10	79921928	79921928	-	0	0	-45.9649351
chr10	79921940	79921940	+	0	0	-26.43410654
chr10	79921941	79921941	-	0	0	-31.99307501
chr10	79921963	79921963	+	0	0	-40.85378924
chr10	79921964	79921964	-	0	0	-37.57496149
chr10	79921967	79921967	+	0	0	-44.85056033
chr10	79921968	79921968	-	0	0	-42.07933888
chr10	79921974	79921974	+	0	0	-50.58784376
chr10	79921975	79921975	-	0	0	-40.51418524
chr10	79921987	79921987	+	0	0	-49.80491445
chr10	79921988	79921988	-	0	0	-48.84706638
chr10	79922008	79922008	-	0	0	-31.68259593
chr10	79947069	79947069	-	0	0	-38.64877135
chr10	79947579	79947579	+	3.31E-13	1.60E-11	-41.46267203
chr10	79947596	79947596	+	2.24E-14	1.21E-12	-45.50177096
chr10	79947748	79947748	-	0	0	-25.35788601
chr10	79988271	79988271	+	0	0	-26.129779
chr10	80019221	80019221	+	0	0	-30.83945841
chr10	80019259	80019259	+	5.62E-13	2.66E-11	-26.49430456
chr10	80019390	80019390	+	0.00097107	0.00861987	-29.25925926
chr10	80019617	80019617	-	2.84E-05	0.00041931	-26.99430199
chr10	80051143	80051143	-	0	0	-34.50829607
chr10	80131577	80131577	-	1.35E-09	4.38E-08	-28.79766361
chr10	80131581	80131581	-	1.11E-16	7.26E-15	-38.58220211
chr10	80131590	80131590	-	6.42E-13	3.02E-11	-32.91494942
chr10	80131617	80131617	-	1.79E-13	8.88E-12	-34.67925387
chr10	80131627	80131627	-	2.42E-11	9.64E-10	-31.1946533
chr10	80131957	80131957	+	0	0	-32.0494856
chr10	80132002	80132002	+	0	0	-32.21693544
chr10	80132008	80132008	+	1.11E-13	5.63E-12	-25.22066035
chr10	80132016	80132016	+	0	0	-35.83408014
chr10	80132019	80132019	+	0	0	-32.20609268
chr10	80132024	80132024	+	0	0	-27.75862069
chr10	80132034	80132034	+	2.22E-16	1.43E-14	-29.37065935
chr10	80132036	80132036	+	0	0	-36.33313727
chr10	80136399	80136399	+	0	0	-27.29793473
chr10	80164463	80164463	+	0	0	-35.92870232
chr10	80164564	80164564	-	0	0	-35.33104098

chr10	80164600	80164600	-	0	0	-27.94341773
chr10	80164606	80164606	-	0	0	-28.11982825
chr10	80208940	80208940	+	2.99E-09	9.24E-08	-25.40836941
chr10	80209140	80209140	-	7.33E-13	3.43E-11	-25.03626827
chr10	80209169	80209169	-	2.02E-12	9.03E-11	-28.42012357
chr10	80228846	80228846	+	0	0	-30.17954418
chr10	80285890	80285890	+	5.10E-06	9.04E-05	-25.87034814
chr10	80293595	80293595	+	0	0	-25.98348765
chr10	80312729	80312729	-	1.98E-11	7.98E-10	-31.11111111
chr10	80326210	80326210	-	2.00E-15	1.19E-13	-29.55121704
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chr10	80341664	80341664	+	1.16E-13	5.85E-12	-31.07508378
chr10	80349164	80349164	+	0	0	-33.13006303
chr10	80386178	80386178	+	1.46E-06	2.90E-05	-26.7104543
chr10	80472132	80472132	+	1.11E-16	7.26E-15	-30.16269643
chr10	80472185	80472185	-	0	0	-27.76180698
chr10	80536642	80536642	+	1.36E-13	6.82E-12	-25.28409091
chr10	80657234	80657234	+	3.33E-16	2.11E-14	-29.07242063
chr10	80657260	80657260	+	0	0	-32.48978734
chr10	80810385	80810385	+	2.20E-12	9.80E-11	-26.16330114
chr10	80810499	80810499	-	0	0	-27.19641195
chr10	80843500	80843500	+	0.00030086	0.00324524	25.68299842
chr10	80856147	80856147	+	4.52E-11	1.75E-09	-29.01467655
chr10	80898092	80898092	+	0	0	-33.33549643
chr10	80898097	80898097	+	0	0	-29.62709701
chr10	80898114	80898114	+	0	0	-33.68069057
chr10	80898120	80898120	+	0	0	-27.70558215
chr10	80898127	80898127	+	0	0	-25.58036505
chr10	80898142	80898142	-	0	0	-33.28144369
chr10	80898174	80898174	-	0	0	-32.68934626
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chr10	80961257	80961257	+	0	0	-36.22926336
chr10	80961288	80961288	-	0	0	-42.15026888
chr10	80961302	80961302	-	0	0	-33.8751006
chr10	80961362	80961362	-	1.79E-10	6.48E-09	-26.87228825
chr10	81000559	81000559	-	5.66E-10	1.93E-08	-32.29618483
chr10	81041947	81041947	+	7.01E-06	0.00012023	-32.98245614
chr10	81098852	81098852	+	1.21E-12	5.54E-11	-33.06650246
chr10	81161813	81161813	+	0	0	-25.9588573

chr10	81161861	81161861	+	0	0	-29.40100883
chr10	81174764	81174764	+	0	0	-31.11962732
chr10	81174792	81174792	+	0	0	-30.99525974
chr10	81268827	81268827	-	3.08E-07	6.97E-06	-28.33742834
chr10	81284681	81284681	+	0	0	-28.11602386
chr10	81291073	81291073	+	0	0	-27.13670614
chr10	81291182	81291182	+	0	0	-28.30395757
chr10	81291183	81291183	-	0	0	-29.03118779
chr10	81291204	81291204	-	0	0	-27.61618373
chr10	81301196	81301196	+	4.92E-11	1.90E-09	-25.32656023
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chr10	81317097	81317097	+	0	0	-27.86068197
chr10	81317133	81317133	+	0	0	-36.78128249
chr10	81341266	81341266	+	6.13E-05	0.00082493	-26.48351648
chr10	81341267	81341267	-	2.67E-08	7.20E-07	-35.50387597
chr10	81347094	81347094	-	3.21E-13	1.55E-11	-26.32373304
chr10	81349422	81349422	-	0	0	-27.1265867
chr10	81349427	81349427	-	0	0	-37.7360601
chr10	81364711	81364711	-	1.97E-07	4.60E-06	-26.07142857
chr10	81385715	81385715	-	0	0	-29.53473211
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chr10	81385739	81385739	-	0	0	-29.67730575
chr10	81385753	81385753	+	0	0	-30.11356537
chr10	81401248	81401248	+	0	0	-50.68897835
chr10	81401249	81401249	-	5.07E-10	1.74E-08	-39.05021174
chr10	81401259	81401259	+	0	0	-45.7232692
chr10	81401263	81401263	+	0	0	-38.44056707
chr10	81401271	81401271	+	0	0	-49.59311193
chr10	81401463	81401463	+	0	0	-40.59321055
chr10	81402032	81402032	+	0	0	-41.03093329
chr10	81402316	81402316	+	0	0	-26.9314872
chr10	81402317	81402317	-	2.54E-13	1.24E-11	-28.79630918
chr10	81402385	81402385	-	0	0	-35.64118317
chr10	81402396	81402396	-	0	0	-43.49553361
chr10	81404318	81404318	+	0	0	-36.18467882
chr10	81404324	81404324	+	7.77E-16	4.79E-14	-31.06623984
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chr10	81404879	81404879	-	0	0	-31.2549369
chr10	81404903	81404903	-	0	0	-41.09884968
chr10	81404910	81404910	-	0	0	-44.23051475

chr10	81406108	81406108	+	3.72E-12	1.62E-10	-30.90909091
chr10	81407390	81407390	+	4.64E-10	1.59E-08	-29.91532921
chr10	81407395	81407395	+	2.05E-14	1.12E-12	-36.76071622
chr10	81408153	81408153	+	0	0	-31.88092354
chr10	81419154	81419154	-	0	0	-28.09696451
chr10	81424760	81424760	+	1.62E-06	3.20E-05	-34.01759531
chr10	81424772	81424772	+	2.20E-12	9.80E-11	-49.08285895
chr10	81424779	81424779	+	2.97E-07	6.73E-06	-34.73731884
chr10	81424787	81424787	+	2.76E-05	0.00040872	-30.48780488
chr10	81424990	81424990	-	4.53E-05	0.00063257	-25.12046931
chr10	81503159	81503159	-	0	0	-26.8818524
chr10	81541944	81541944	+	0	0	-25.12910687
chr10	81541955	81541955	+	0	0	-27.52739819
chr10	81541966	81541966	+	0	0	-33.40823103
chr10	81541971	81541971	+	0	0	-31.2185992
chr10	81572436	81572436	+	1.49E-10	5.44E-09	-25.95456453
chr10	81572479	81572479	+	8.88E-16	5.45E-14	-28.59078591
chr10	81572711	81572711	+	0	0	-37.22741433
chr10	81596002	81596002	+	0	0	-26.99026136
chr10	81596003	81596003	-	0	0	-32.35503077
chr10	81596005	81596005	+	0	0	-30.42404762
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chr10	81598948	81598948	+	1.22E-15	7.41E-14	-33.82812393
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chr10	83041237	83041237	-	6.25E-08	1.59E-06	-30.37559455
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chr10	83286511	83286511	-	2.55E-05	0.00038094	-38.81118881
chr10	83286554	83286554	-	0.00042318	0.0043237	-31.067694
chr10	84388958	84388958	+	0	0	-34.76996198
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chr10	84392201	84392201	+	0	0	-32.248772
chr10	84392218	84392218	+	0	0	-30.35714286
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chr10	84392242	84392242	+	0	0	-25.69256023
chr10	84392328	84392328	+	0	0	-26.65609584
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chr10	84392427	84392427	+	0	0	-26.9047619
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chr10	84442379	84442379	-	9.85E-06	0.00016319	-25.88970662
chr10	84533101	84533101	+	0	0	-25.7082285
chr10	84533186	84533186	-	0	0	-27.72516833
chr10	84740724	84740724	+	1.77E-05	0.00027524	-35.44749824
chr10	84760549	84760549	+	0	0	-26.50260563
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chr10	85044537	85044537	+	2.05E-10	7.35E-09	-29.20268586
chr10	85044597	85044597	+	0	0	-28.29928762
chr10	85044598	85044598	-	0	0	-30.22484136
chr10	86066922	86066922	-	0.00014941	0.00178406	-31.89269747
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chr10	86820147	86820147	+	0	0	-33.94088407
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chr10	86820188	86820188	+	0	0	-32.73978146
chr10	88349972	88349972	-	2.83E-13	1.38E-11	-27.14754407
chr10	88349979	88349979	-	0	0	-28.40069843
chr10	88492820	88492820	-	4.30E-11	1.67E-09	-29.83781021
chr10	89621307	89621307	+	0	0	-27.7034945
chr10	89644403	89644403	+	0.00017	0.00199355	-26.47058824
chr10	90741913	90741913	-	0.00095616	0.00851118	27.27272727
chr10	90966069	90966069	-	0	0	-31.61401827
chr10	90969502	90969502	-	0	0	-25.06280193
chr10	91180836	91180836	+	8.62E-08	2.14E-06	-28.82352941
chr10	91187347	91187347	+	0	0	-31.82301322
chr10	91229857	91229857	+	5.76E-10	1.96E-08	-31.01487314
chr10	91229875	91229875	+	5.34E-10	1.82E-08	-36.02430556
chr10	93087627	93087627	+	4.66E-12	2.01E-10	-29.59301052
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chr10	93276337	93276337	+	1.98E-06	3.84E-05	-46.41414141
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chr10	93276604	93276604	+	0	0	-31.30715143
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chr10	93437194	93437194	+	4.16E-12	1.80E-10	-33.69516056
chr10	93437240	93437240	+	2.62E-10	9.29E-09	-28.125
chr10	93437244	93437244	+	2.22E-16	1.43E-14	-40.81632653
chr10	93437263	93437263	-	0	0	-36.17348527
chr10	93437296	93437296	-	0	0	-30.95321765
chr10	93820068	93820068	+	8.46E-09	2.45E-07	-33.93162393
chr10	93820098	93820098	-	3.87E-07	8.60E-06	-46.96969697
chr10	93831466	93831466	-	0	0	-39.37563037
chr10	93831485	93831485	+	0	0	-34.327362
chr10	93831486	93831486	-	0	0	-35.12550882
chr10	93831489	93831489	+	0	0	-37.97174975
chr10	93831490	93831490	-	0	0	-40.47561227
chr10	93831530	93831530	+	0	0	-33.91490038
chr10	93831531	93831531	-	0	0	-39.05416987
chr10	93831538	93831538	-	0	0	-36.86968765
chr10	94351118	94351118	+	1.11E-16	7.26E-15	-34.9350584
chr10	94514270	94514270	+	6.62E-09	1.95E-07	-25.43921554
chr10	94520590	94520590	-	0	0	-33.33252857
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chr10	94946018	94946018	-	0	0	-28.02820564
chr10	94992471	94992471	+	0	0	-28.79088826
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chr10	95256269	95256269	+	0	0	-51.26468128
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chr10	95256307	95256307	-	0	0	-40.49954059
chr10	95264526	95264526	-	9.44E-15	5.29E-13	-46.97478992
chr10	95264538	95264538	-	2.22E-16	1.43E-14	-55.15873016
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chr10	95394446	95394446	-	1.51E-13	7.54E-12	-25.10298516
chr10	95577162	95577162	-	0.00088008	0.00795239	-29.32889344
chr10	96048206	96048206	-	0	0	-26.36000899
chr10	96264555	96264555	+	6.67E-05	0.0008872	-30.26315789
chr10	96264643	96264643	-	4.50E-10	1.55E-08	-25.35809433
chr10	97692949	97692949	+	1.27E-08	3.60E-07	-25.17097784
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chr10	99279429	99279429	+	0	0	-30.11641929
chr10	99279478	99279478	+	0	0	-31.88108108
chr10	99279479	99279479	-	0.00012399	0.00151807	-25.29499525
chr10	99279532	99279532	-	0	0	-25.6428826
chr10	99287262	99287262	+	3.36E-13	1.62E-11	-33.36680294



chr10	99354148	99354148	+	3.82E-12	1.66E-10	-38.95710681
chr10	99360863	99360863	+	1.24E-05	0.00020022	-37.58286588
chr10	99534309	99534309	-	0	0	-25.16449378
chr10	102780968	102780968	-	0.00022558	0.00253888	-43.77289377
chr10	103609925	103609925	-	0	0	28.48662477
chr10	104865090	104865090	+	0	0	31.19478561
chr10	104865091	104865091	-	0	0	31.63046224
chr10	107491998	107491998	-	0.0005959	0.00575918	-25.95238095
chr10	107494256	107494256	+	6.63E-05	0.00088257	-28.77288471
chr10	108113782	108113782	-	0.00065539	0.00623427	-36.25615764
chr10	108298458	108298458	-	0	0	44.08058756
chr10	108444001	108444001	+	0	0	30.75329639
chr10	108455271	108455271	-	0	0	68.48946986
chr10	110600965	110600965	-	3.61E-05	0.00051728	-32.41074353
chr10	110600971	110600971	-	0.00096443	0.00857201	-25.722274
chr10	110640983	110640983	+	7.11E-09	2.08E-07	-35.22713507
chr10	110787220	110787220	-	1.81E-11	7.35E-10	-36.96594427
chr10	110828522	110828522	-	3.71E-06	6.79E-05	-34
chr10	111598811	111598811	-	2.40E-07	5.53E-06	-39.69974979
chr10	112587327	112587327	-	0.00014594	0.00174845	-27.86407767
chr10	112587369	112587369	-	0.00100311	0.00885364	-29.86715529
chr10	116264774	116264774	+	0	0	-25.23624297
chr10	116310650	116310650	+	0	0	-26.38393504
chr10	116310699	116310699	+	0	0	-27.13892805
chr10	116310700	116310700	-	1.11E-16	7.26E-15	-26.77763413
chr10	116310706	116310706	-	0	0	-31.07306827
chr10	116728081	116728081	+	0	0	-33.55811404
chr10	116728280	116728280	+	0	0	-33.26118047
chr10	116728330	116728330	+	0	0	-29.24290459
chr10	116728423	116728423	-	0	0	-28.84451058
chr10	117045439	117045439	-	0	0	-27.74567172
chr10	117150769	117150769	+	0	0	-26.28363972
chr10	117150798	117150798	+	0	0	-28.59945862
chr10	117230152	117230152	-	2.43E-05	0.00036511	-29.26136364
chr10	117390593	117390593	+	0.00029348	0.00317762	-25.85287846
chr10	117390770	117390770	-	0.00028352	0.00308707	-29.67032967
chr10	117472237	117472237	-	1.53E-05	0.00024254	-25.71399429
chr10	117472272	117472272	-	1.01E-05	0.00016714	-26.10418731
chr10	117669790	117669790	-	0	0	-26.19082677
chr10	117676149	117676149	-	3.11E-07	7.02E-06	-31.37254902
chr10	117688399	117688399	-	1.27E-09	4.13E-08	-34.59746835

chr10	117947426	117947426	-	0	0	-40.59966167
chr10	117947438	117947438	-	0	0	-39.45728332
chr10	117947465	117947465	-	9.33E-12	3.89E-10	-33.65024489
chr10	117976267	117976267	+	1.78E-15	1.06E-13	-29.92340744
chr10	118218797	118218797	+	2.27E-07	5.26E-06	41.95652174
chr10	118559051	118559051	+	0.00049157	0.00490433	-29.04656319
chr10	118595890	118595890	-	0.00073329	0.00683873	-35.65217391
chr10	118596548	118596548	+	1.05E-12	4.83E-11	-41.11414901
chr10	118596772	118596772	-	6.92E-11	2.62E-09	-33.4788175
chr10	118883635	118883635	+	0	0	-26.71046402
chr10	119024716	119024716	+	2.33E-12	1.04E-10	-41.47592245
chr10	119168813	119168813	+	2.40E-05	0.00036194	-29.91304348
chr10	119169014	119169014	-	0.00014709	0.00176031	-29.12650602
chr10	119169017	119169017	-	6.43E-06	0.0001114	-28.0372472
chr10	119169112	119169112	-	0	0	-26.57302237
chr10	119169119	119169119	+	2.17E-06	4.17E-05	-26.62270045
chr10	119169351	119169351	-	5.54E-09	1.65E-07	-35.48936861
chr10	120233838	120233838	+	0	0	-33.36949427
chr10	120233839	120233839	-	0	0	-26.81444711
chr10	120558169	120558169	-	6.33E-15	3.61E-13	-26.20290102
chr10	120558198	120558198	-	5.48E-14	2.87E-12	-26.85703742
chr10	120647029	120647029	+	0	0	-37.67303391
chr10	120647125	120647125	-	0	0	-42.87710652
chr10	120647159	120647159	-	0	0	-47.74122553
chr10	120647172	120647172	+	0	0	-39.9605861
chr10	120647203	120647203	+	0	0	-28.43040792
chr10	120647207	120647207	+	5.75E-11	2.20E-09	-43.67363027
chr10	120647208	120647208	-	0	0	-35.86888712
chr10	120647219	120647219	+	1.80E-07	4.25E-06	-36.58383534
chr10	120697218	120697218	-	0	0	-51.86001469
chr10	120697228	120697228	-	0	0	-58.02368314
chr10	120722163	120722163	-	0	0	-30.84720806
chr10	120801848	120801848	-	0	0	-31.62292678
chr10	120801898	120801898	+	8.67E-05	0.00111422	-44.97607656
chr10	121267251	121267251	-	0	0	-25.1710427
chr10	121411693	121411693	-	2.03E-08	5.57E-07	-37.7301496
chr10	121461922	121461922	+	3.98E-08	1.04E-06	-58.42318059
chr10	121461927	121461927	+	6.67E-06	0.00011499	-52.46734398
chr10	121477823	121477823	-	6.09E-10	2.06E-08	-28.7142164
chr10	121505626	121505626	-	0.00047915	0.00480045	-29.5751634
chr10	121506710	121506710	-	6.98E-06	0.00011976	-27.88141239

chr10	121533674	121533674	-	2.71E-06	5.10E-05	-26.73267327
chr10	121583452	121583452	-	2.35E-05	0.00035407	-27.51613142
chr10	121583455	121583455	-	8.01E-06	0.00013548	-28.5326087
chr10	121689615	121689615	-	5.81E-08	1.49E-06	-26.76190476
chr10	121967992	121967992	+	0	0	-36.95019205
chr10	122006770	122006770	+	6.81E-06	0.00011725	-64.42687747
chr10	122196180	122196180	-	0	0	-26.09160164
chr10	122699032	122699032	-	0	0	33.57059479
chr10	122793236	122793236	+	3.33E-16	2.11E-14	-38.24969001
chr10	122886439	122886439	+	0	0	-31.57101545
chr10	122886524	122886524	-	0	0	-28.5462932
chr10	122963344	122963344	+	0.0004853	0.00485171	-28.27993898
chr10	123266535	123266535	-	6.66E-16	4.13E-14	-36.18020178
chr10	123266776	123266776	-	0.00014437	0.00173187	-27.11988304
chr10	125843965	125843965	+	0.0008541	0.00775864	-30.44217687
chr10	126929173	126929173	+	9.19E-06	0.00015347	-44.88348531
chr10	126957001	126957001	-	0	0	-37.85687382
chr10	126982687	126982687	+	0	0	-30.71049478
chr10	126982695	126982695	+	0	0	-31.77692343
chr10	127045016	127045016	-	0	0	36.53522342
chr10	127077639	127077639	+	0	0	-37.73024361
chr10	127077648	127077648	+	0	0	-44.55110723
chr10	127077724	127077724	-	0	0	-31.98176064
chr10	127077740	127077740	-	0	0	-29.63878115
chr10	127077742	127077742	-	0	0	-29.56271648
chr10	127079354	127079354	+	3.30E-08	8.76E-07	-27.3107248
chr10	127079357	127079357	+	3.88E-12	1.69E-10	-41.31868132
chr10	127079386	127079386	+	8.64E-13	4.01E-11	-33.17736431
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chr10	127079486	127079486	-	1.11E-16	7.26E-15	-28.38254338
chr10	127079498	127079498	-	2.44E-11	9.75E-10	-27.83021348
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chr10	127079605	127079605	-	1.95E-14	1.06E-12	-26.62116041
chr10	127081459	127081459	+	0	0	-25.5984556
chr10	127081530	127081530	-	0	0	-37.31880252
chr10	127081554	127081554	-	8.44E-15	4.75E-13	-27.56380269
chr10	127081559	127081559	-	0	0	-30.47066141
chr10	127081660	127081660	+	1.98E-11	8.00E-10	-26.54953917
chr10	127096964	127096964	-	9.97E-08	2.45E-06	-34.41128285
chr10	127167766	127167766	-	8.63E-06	0.00014505	-40.03889969
chr10	127183900	127183900	-	0	0	-27.09906573

chr10	127183902	127183902	-	0	0	-26.49354894
chr10	127183909	127183909	-	0	0	-27.4426952
chr10	127320349	127320349	+	2.28E-06	4.37E-05	-27.16049383
chr10	127326557	127326557	-	0	0	-28.99515952
chr10	127326610	127326610	+	9.27E-07	1.92E-05	-33.72950369
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chr10	127326897	127326897	+	0	0	-37.66776011
chr10	127326898	127326898	-	0	0	-40.10333277
chr10	127326904	127326904	+	0	0	-26.4177118
chr10	127326905	127326905	-	0	0	-29.00710558
chr10	127326912	127326912	-	0	0	-39.65161367
chr10	127326917	127326917	+	0	0	-42.47978712
chr10	127326920	127326920	+	0	0	-41.13653423
chr10	127326921	127326921	-	0	0	-42.32242038
chr10	127326929	127326929	+	0	0	-42.22485221
chr10	127326930	127326930	-	0	0	-45.76668436
chr10	127326938	127326938	+	0	0	-43.75585378
chr10	127326939	127326939	-	0	0	-44.20499272
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chr10	127326965	127326965	-	0	0	-34.88755242
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chr10	127327003	127327003	-	0	0	-41.4913593
chr10	127327018	127327018	+	0	0	-34.87271379
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chr10	127327024	127327024	-	0	0	-39.96543169
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chr10	127327907	127327907	-	0	0	-34.26477894
chr10	127491505	127491505	-	0	0	-32.47923248
chr10	127524542	127524542	+	1.09E-08	3.12E-07	-27.84994698
chr10	127524785	127524785	-	3.64E-09	1.11E-07	-33.0117724
chr10	127588141	127588141	+	0	0	-26.85171386
chr10	127588142	127588142	-	0	0	-32.03182595
chr10	127588165	127588165	+	0	0	-34.43624636
chr10	127588166	127588166	-	0	0	-28.46695558

chr10	127614025	127614025	+	7.54E-13	3.52E-11	-28.74945023
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chr10	127620224	127620224	-	0	0	-45.17812479
chr10	127620240	127620240	-	0	0	-34.07471264
chr10	127661678	127661678	-	3.00E-05	0.00043983	-32.13307241
chr10	127661702	127661702	+	0	0	-25.74080052
chr10	127661713	127661713	+	0	0	-28.88639907
chr10	127749503	127749503	+	0	0	-33.25594406
chr10	127749644	127749644	-	0	0	-36.57603223
chr10	127749661	127749661	-	0	0	-40.52664656
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chr10	127750363	127750363	-	2.41E-07	5.56E-06	-49.31656643
chr10	127750390	127750390	+	0	0	-32.48369887
chr10	128123445	128123445	-	7.61E-09	2.22E-07	-45.14464713
chr10	128524029	128524029	+	1.98E-11	7.97E-10	-25.45685377
chr10	128584742	128584742	+	0	0	-30.42206916
chr10	128645290	128645290	-	0	0	-37.07409018
chr10	128645314	128645314	-	0	0	-30.70601919
chr10	128737439	128737439	+	0	0	-25.08157451
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chr10	129389939	129389939	+	8.07E-05	0.00104682	-26.35658915
chr11	3193177	3193177	+	0.00011226	0.00139274	-27.3993808
chr11	3193187	3193187	+	7.48E-06	0.00012754	-31.17647059
chr11	3193782	3193782	-	0.00018227	0.0021168	-34.09836066
chr11	3353319	3353319	-	0	0	-27.20573736
chr11	3453505	3453505	+	0	0	-25.76895492
chr11	3495628	3495628	-	3.33E-16	2.11E-14	-39.49918636
chr11	3608555	3608555	-	3.35E-12	1.47E-10	-27.28619396
chr11	3912593	3912593	-	4.44E-16	2.79E-14	-27.77757321
chr11	3913050	3913050	+	4.55E-15	2.63E-13	-25.11391774
chr11	4218838	4218838	-	0.00016267	0.00191953	-37.62626263
chr11	4232775	4232775	-	2.32E-06	4.44E-05	-29.62767561
chr11	4267440	4267440	-	0	0	-29.88367316
chr11	4308425	4308425	+	0	0	-31.67287978
chr11	4308520	4308520	-	0	0	-37.95854694
chr11	4308642	4308642	-	0	0	-37.65019535
chr11	4308674	4308674	-	0	0	-27.08651422
chr11	4441132	4441132	-	0	0	-26.29295772
chr11	4620262	4620262	+	4.70E-07	1.03E-05	-25.57925896
chr11	4949351	4949351	+	7.27E-06	0.00012423	-26.4047619
chr11	4949361	4949361	+	2.42E-05	0.0003637	-25.28397566

chr11	4949374	4949374	+	2.90E-06	5.44E-05	-27.48184019
chr11	4949384	4949384	+	1.05E-09	3.44E-08	-31.24078986
chr11	4949395	4949395	+	5.57E-09	1.66E-07	-28.42130751
chr11	4954035	4954035	+	1.20E-14	6.65E-13	-43.65203762
chr11	4954154	4954154	+	0	0	-41.1328976
chr11	4954155	4954155	-	0	0	-37.13847942
chr11	4954184	4954184	+	0	0	-48.64111498
chr11	4954185	4954185	-	0	0	-46.73225468
chr11	4954188	4954188	-	0	0	-39.43439339
chr11	5056504	5056504	+	4.33E-14	2.28E-12	-31.14861329
chr11	5056507	5056507	+	0	0	-43.3396387
chr11	5056508	5056508	-	0	0	-45.98039216
chr11	5056513	5056513	+	0	0	-27.68679162
chr11	5056543	5056543	-	3.47E-09	1.06E-07	-31.12491373
chr11	5057159	5057159	+	0	0	-26.47805574
chr11	5057530	5057530	+	0	0	-38.16227746
chr11	5057726	5057726	+	0	0	-29.76576577
chr11	5064127	5064127	+	0	0	-25.80006573
chr11	5064137	5064137	+	0	0	-30.59821775
chr11	5064152	5064152	+	0	0	-34.87924046
chr11	5064160	5064160	+	0	0	-31.14928046
chr11	5064238	5064238	+	0	0	-29.45141774
chr11	5064248	5064248	+	0	0	-28.42351786
chr11	5064257	5064257	+	0	0	-29.55435053
chr11	5064298	5064298	-	0	0	-32.4606701
chr11	5064312	5064312	-	0	0	-38.52994719
chr11	5064321	5064321	-	0	0	-30.80969508
chr11	5478467	5478467	-	0	0	-26.62964569
chr11	5708244	5708244	+	3.66E-13	1.76E-11	-25.19698156
chr11	5862991	5862991	-	0	0	-27.76384746
chr11	5972812	5972812	+	0	0	-27.86317318
chr11	5972841	5972841	+	0	0	-31.73027761
chr11	5972842	5972842	-	0	0	-33.39033651
chr11	6388783	6388783	+	8.07E-05	0.00104692	-40.43040293
chr11	6599184	6599184	-	0	0	-26.29223908
chr11	6636372	6636372	-	7.40E-07	1.56E-05	-27.13775965
chr11	8459525	8459525	+	0	0	-25.58424437
chr11	8517863	8517863	+	0.0007386	0.0068796	-31.37755102
chr11	8625000	8625000	-	3.11E-09	9.59E-08	-26.15257048
chr11	11529118	11529118	-	1.26E-09	4.12E-08	-27.50743009
chr11	11656677	11656677	-	0.00017507	0.00204481	-30.57625435

chr11	11685136	11685136	+	8.62E-06	0.00014492	-30.96406661
chr11	11831891	11831891	+	1.82E-08	5.02E-07	-30.79777365
chr11	11831897	11831897	+	0	0	-44.4634628
chr11	11868016	11868016	+	0.00019743	0.0022661	-26.22554176
chr11	12158554	12158554	-	0.00050993	0.0050573	42.63285024
chr11	13001481	13001481	+	0.00078565	0.00724108	-26.28032345
chr11	18122765	18122765	-	1.46E-05	0.00023206	-30.81294786
chr11	19103318	19103318	-	0.00019717	0.00226354	-27.34553776
chr11	19103329	19103329	-	5.81E-07	1.25E-05	-47.79897285
chr11	19475667	19475667	-	0	0	-33.98314121
chr11	19531365	19531365	+	0	0	-25.19379671
chr11	19531449	19531449	+	0	0	-38.83314753
chr11	19531450	19531450	-	0	0	-29.45441006
chr11	19531520	19531520	+	0	0	-37.68732655
chr11	19828251	19828251	-	0	0	-42.1441367
chr11	19828254	19828254	-	0	0	-30.63130556
chr11	19965198	19965198	+	0	0	-40.8330178
chr11	19965369	19965369	+	0	0	-34.12977403
chr11	19965392	19965392	+	0	0	-28.19132547
chr11	20400503	20400503	-	0	0	-30.36708861
chr11	20456558	20456558	+	0	0	-25.97968869
chr11	20469542	20469542	+	0	0	-32.01764123
chr11	20580914	20580914	+	0	0	-25.47709924
chr11	21191681	21191681	-	4.14E-05	0.00058517	44.82758621
chr11	21999922	21999922	-	0	0	-29.91169652
chr11	22005330	22005330	+	0	0	-28.56594085
chr11	22005359	22005359	-	0	0	-30.86720173
chr11	22005391	22005391	-	0	0	-26.86950062
chr11	22005540	22005540	+	0	0	-38.65248227
chr11	22005541	22005541	-	0	0	-42.50980392
chr11	22005554	22005554	+	5.55E-16	3.46E-14	-28.59499655
chr11	22007267	22007267	+	0	0	-35.2762542
chr11	22007268	22007268	-	0	0	-44.05212679
chr11	22007301	22007301	-	0	0	-26.83309806
chr11	22007310	22007310	-	0	0	-33.8217195
chr11	22629904	22629904	+	1.71E-13	8.49E-12	-54.28234678
chr11	22629949	22629949	+	1.96E-09	6.21E-08	-43.33333333
chr11	24131277	24131277	-	4.37E-14	2.31E-12	-33.44537815
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chr11	24282407	24282407	+	4.65E-11	1.80E-09	-27.5

chr11	24282513	24282513	-	0	0	-27.66924494
chr11	24282545	24282545	-	0	0	-38.41371389
chr11	25270130	25270130	-	0	0	-28.83005641
chr11	31560724	31560724	+	0.00036107	0.00378555	-30
chr11	31965886	31965886	+	2.89E-15	1.70E-13	-26.30107813
chr11	31965913	31965913	+	1.11E-16	7.26E-15	-25.57728388
chr11	32161578	32161578	-	2.90E-11	1.15E-09	-31.63756318
chr11	32161593	32161593	-	2.33E-15	1.38E-13	-39.8938992
chr11	32161699	32161699	-	0	0	-29.50819147
chr11	32199112	32199112	+	9.89E-09	2.84E-07	-27.61395028
chr11	32199224	32199224	-	0	0	-32.80537197
chr11	32277751	32277751	-	2.93E-14	1.57E-12	-26.2707283
chr11	32278575	32278575	-	0	0	-25.11646031
chr11	32531807	32531807	+	0	0	-37.20762562
chr11	32564866	32564866	+	2.33E-15	1.38E-13	-30.33986202
chr11	33824610	33824610	+	6.74E-05	0.00089535	27.30138714
chr11	33868979	33868979	-	0.00033549	0.00355818	50.66666667
chr11	33963179	33963179	+	9.42E-12	3.93E-10	-25.26724395
chr11	34119041	34119041	-	1.03E-06	2.11E-05	-34.50441818
chr11	36000059	36000059	-	2.40E-13	1.18E-11	-27.81538462
chr11	43344839	43344839	+	0	0	-25.89445119
chr11	43618109	43618109	+	0	0	-27.5880201
chr11	43626832	43626832	+	1.77E-07	4.17E-06	-36.48757017
chr11	43626842	43626842	+	7.79E-10	2.60E-08	-38.20658662
chr11	43626972	43626972	-	4.76E-12	2.05E-10	-35.20979021
chr11	43626987	43626987	-	1.93E-14	1.05E-12	-39.0323163
chr11	43775876	43775876	+	7.92E-12	3.33E-10	-29.34399336
chr11	43925889	43925889	-	2.40E-06	4.57E-05	-32.87224325
chr11	44469263	44469263	-	2.37E-12	1.05E-10	-26.96099082
chr11	44685949	44685949	+	2.48E-12	1.10E-10	-34.70579502
chr11	44685970	44685970	+	8.79E-13	4.08E-11	-37.92899408
chr11	44685996	44685996	+	3.62E-07	8.08E-06	-29.02148664
chr11	44893674	44893674	-	1.96E-06	3.80E-05	25.03607504
chr11	45889840	45889840	+	1.06E-05	0.00017494	-25.59048428
chr11	45979959	45979959	-	2.28E-10	8.16E-09	-31.40507519
chr11	45979961	45979961	-	6.25E-08	1.59E-06	-26.33859554
chr11	45980150	45980150	+	5.55E-16	3.46E-14	-28.76574883
chr11	46041296	46041296	+	0	0	-28.11225377
chr11	46052344	46052344	+	0.00014486	0.00173696	-33.70336109
chr11	47186371	47186371	-	6.62E-05	0.00088158	-28.9800995
chr11	48791434	48791434	-	2.82E-07	6.42E-06	-42.22222222



chr11	48837147	48837147	+	4.55E-15	2.63E-13	-31.57858241
chr11	48842229	48842229	+	0.00078323	0.00722267	-34.88612836
chr11	48845619	48845619	-	0	0	-36.34888204
chr11	48849704	48849704	+	2.92E-07	6.64E-06	-32.21153846
chr11	48849708	48849708	+	3.44E-06	6.33E-05	-26.4957265
chr11	48849711	48849711	+	2.74E-05	0.00040674	-25.3959276
chr11	48849963	48849963	-	2.59E-07	5.94E-06	-25.49497411
chr11	49776856	49776856	-	3.22E-06	5.97E-05	30.92892329
chr11	49793218	49793218	+	0	0	-43.11751018
chr11	49793230	49793230	+	0	0	-30.68479685
chr11	49793247	49793247	+	0	0	-49.47203959
chr11	49793258	49793258	+	0	0	-40.90811078
chr11	49793261	49793261	+	0	0	-39.00965997
chr11	49793329	49793329	-	0	0	-46.9772414
chr11	49793341	49793341	-	0	0	-48.04930034
chr11	49793353	49793353	-	0	0	-44.86537026
chr11	49793377	49793377	+	0	0	-38.43876372
chr11	49793378	49793378	-	0	0	-42.08074411
chr11	49793382	49793382	+	0	0	-40.93299817
chr11	49793438	49793438	-	0	0	-32.67778403
chr11	49795021	49795021	+	1.11E-09	3.65E-08	-33.48877878
chr11	50371018	50371018	-	1.70E-09	5.44E-08	-39.5140665
chr11	50604355	50604355	+	2.16E-07	5.02E-06	27.30191257
chr11	51254657	51254657	-	0	0	-26.46308323
chr11	51304240	51304240	+	8.13E-05	0.00105384	-29.58074534
chr11	51572363	51572363	-	0	0	-41.77520559
chr11	51629015	51629015	-	1.87E-09	5.93E-08	-29.84596614
chr11	51629055	51629055	-	6.00E-15	3.43E-13	-41.73780488
chr11	51646932	51646932	+	0	0	-39.11344234
chr11	51646961	51646961	+	0	0	-39.40990695
chr11	51646964	51646964	+	0	0	-43.11109271
chr11	51647002	51647002	-	0	0	-46.90431783
chr11	51647045	51647045	+	0	0	-43.48487665
chr11	51647046	51647046	-	0	0	-38.15287492
chr11	51647127	51647127	-	0	0	-48.77287689
chr11	51647157	51647157	-	0	0	-26.25902993
chr11	51816128	51816128	-	0	0	-37.98657718
chr11	51854931	51854931	+	3.33E-16	2.11E-14	-30.43037146
chr11	51854957	51854957	+	0	0	-28.93573861
chr11	51920032	51920032	-	2.41E-12	1.07E-10	-26.85164298
chr11	52001579	52001579	+	0	0	-25.56028267

chr11	52032617	52032617	+	0	0	-29.78294784
chr11	52282572	52282572	-	0	0	-35.85815918
chr11	52283605	52283605	-	0	0	-25.48046947
chr11	52284118	52284118	+	5.91E-06	0.00010327	-27.51140283
chr11	52284777	52284777	-	1.29E-12	5.91E-11	-32.87526427
chr11	52284789	52284789	-	5.88E-15	3.37E-13	-37.52030578
chr11	52284800	52284800	-	1.11E-16	7.26E-15	-37.95588127
chr11	52286548	52286548	-	0	0	-49.24742986
chr11	52341658	52341658	-	0	0	-47.705587
chr11	52341700	52341700	+	0	0	-50.90027229
chr11	52341701	52341701	-	0	0	-47.08956672
chr11	52341718	52341718	+	0	0	-48.03861243
chr11	53439346	53439346	-	3.33E-16	2.11E-14	-29.15177706
chr11	53439375	53439375	+	5.60E-07	1.21E-05	-25.47287466
chr11	53439376	53439376	-	7.84E-14	4.03E-12	-25.06458333
chr11	53439405	53439405	+	0	0	-30.57214162
chr11	53439406	53439406	-	1.61E-07	3.83E-06	-30.09668961
chr11	53439425	53439425	+	0	0	-26.4096602
chr11	53466534	53466534	+	0	0	-27.10382312
chr11	53466555	53466555	+	0	0	-28.91449053
chr11	53466947	53466947	-	0	0	-33.99788285
chr11	53466968	53466968	-	1.19E-13	5.99E-12	-26.94404897
chr11	53478667	53478667	+	0	0	-30.48780488
chr11	53519359	53519359	+	0	0	-25.50968142
chr11	53519425	53519425	+	0	0	-42.91572398
chr11	53608364	53608364	+	0.00021861	0.00247263	-40.95238095
chr11	53637230	53637230	+	0	0	-49.91676789
chr11	53637457	53637457	-	7.94E-07	1.66E-05	-46.03773585
chr11	53737591	53737591	+	3.20E-06	5.93E-05	-28.95166353
chr11	53809704	53809704	+	3.17E-11	1.25E-09	-26.76269489
chr11	54080620	54080620	+	0	0	-32.31456954
chr11	54080658	54080658	+	0	0	-41.8410596
chr11	54798571	54798571	+	7.69E-11	2.90E-09	-28.0383017
chr11	55176896	55176896	+	2.86E-09	8.86E-08	-27.85654712
chr11	55208735	55208735	+	2.26E-07	5.24E-06	-25.07646014
chr11	55208877	55208877	-	0	0	-25.55366065
chr11	55314397	55314397	-	2.50E-11	9.97E-10	-34.39115278
chr11	57454647	57454647	-	0.00100317	0.00885394	26.15943225
chr11	57559292	57559292	+	0	0	-26.84875228
chr11	57592953	57592953	+	9.82E-12	4.09E-10	-27.7175056
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chr11	57651380	57651380	-	5.27E-10	1.80E-08	-38.40811966
chr11	57651419	57651419	-	1.02E-07	2.50E-06	-34.1540404
chr11	57670970	57670970	-	3.57E-12	1.56E-10	-33.78496503
chr11	57826863	57826863	+	0	0	-32.20080063
chr11	57826973	57826973	+	0	0	-40.5304328
chr11	57826974	57826974	-	0	0	-43.62815133
chr11	57827308	57827308	+	5.56E-09	1.66E-07	-25.61688312
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chr11	57829618	57829618	-	0	0	-29.79178385
chr11	57829640	57829640	+	8.31E-06	0.00014007	-29.58881579
chr11	57829641	57829641	-	0	0	-33.52199022
chr11	57829645	57829645	+	6.06E-13	2.86E-11	-55.41888298
chr11	57829664	57829664	+	3.61E-14	1.92E-12	-56.60287081
chr11	57829694	57829694	+	0	0	-45.0591747
chr11	57829740	57829740	-	0	0	-34.69888956
chr11	57829775	57829775	-	0	0	-44.63753335
chr11	57829801	57829801	+	0	0	-28.76571897
chr11	57832051	57832051	-	0	0	-31.01950503
chr11	57832074	57832074	-	0	0	-34.45714882
chr11	57832837	57832837	+	0	0	-34.32515237
chr11	57832850	57832850	+	0	0	-26.47876299
chr11	57832851	57832851	-	0	0	-25.92972973
chr11	57840534	57840534	-	0	0	-25.9565495
chr11	57850458	57850458	-	7.68E-05	0.00100339	-28.2109383
chr11	57850474	57850474	-	2.60E-06	4.92E-05	-31.22389307
chr11	57929525	57929525	+	6.14E-08	1.56E-06	-36.6350847
chr11	57929721	57929721	-	1.84E-05	0.00028458	-37.5862069
chr11	57929777	57929777	+	0	0	-39.64401294
chr11	57929778	57929778	-	1.85E-12	8.33E-11	-48.86015326
chr11	57929781	57929781	+	0	0	-35.27880391
chr11	57929782	57929782	-	1.33E-14	7.36E-13	-37.89575169
chr11	57929789	57929789	+	0	0	-30.01406752
chr11	57929790	57929790	-	2.05E-11	8.23E-10	-28.31733484
chr11	57929799	57929799	+	0	0	-41.4804184
chr11	57929800	57929800	-	0	0	-44.63579898
chr11	57929814	57929814	+	0	0	-38.73120069
chr11	57929815	57929815	-	8.45E-14	4.34E-12	-41.71401515
chr11	57929846	57929846	+	0	0	-46.42055329
chr11	57929847	57929847	-	0	0	-51.51747991
chr11	57929876	57929876	+	9.99E-15	5.59E-13	-33.41276218
chr11	57929877	57929877	-	0	0	-27.57950866

chr11	57929885	57929885	+	0	0	-50.44655163
chr11	57963714	57963714	-	9.80E-08	2.41E-06	-37.97567236
chr11	58999391	58999391	+	5.84E-09	1.73E-07	-28.94736842
chr11	58999432	58999432	+	7.60E-11	2.87E-09	-35.52631579
chr11	59176426	59176426	-	9.67E-05	0.00122481	40
chr11	59274921	59274921	-	0	0	-28.72931876
chr11	59275425	59275425	-	4.91E-05	0.00067959	-27.64343291
chr11	59284326	59284326	+	0	0	-25.08088242
chr11	59284327	59284327	-	0	0	-30.611834
chr11	59284352	59284352	-	0	0	-27.95225401
chr11	59317320	59317320	+	0	0	-27.5982218
chr11	59505120	59505120	+	3.60E-05	0.0005161	-32.5017819
chr11	59505140	59505140	+	8.29E-07	1.73E-05	-39.7828985
chr11	59507100	59507100	+	0	0	-38.73086664
chr11	59892519	59892519	-	1.32E-07	3.18E-06	-27.59469697
chr11	59921535	59921535	+	0	0	-30.67455243
chr11	59921536	59921536	-	0	0	-26.17768595
chr11	59934249	59934249	-	0	0	-26.34257826
chr11	60141426	60141426	-	0	0	-26.18393975
chr11	60141437	60141437	-	0	0	-25.32941125
chr11	60185012	60185012	+	3.54E-07	7.91E-06	-32.74312896
chr11	60185037	60185037	+	8.70E-06	0.000146	-30.76607387
chr11	60185188	60185188	-	0	0	-42.47127455
chr11	60230114	60230114	-	5.33E-15	3.06E-13	-26.29964506
chr11	60366606	60366606	+	0	0	-27.14454673
chr11	60478259	60478259	+	2.67E-05	0.00039639	-30.2827381
chr11	60575979	60575979	-	0	0	-26.51137006
chr11	60575998	60575998	-	0	0	-27.12141883
chr11	60576016	60576016	-	0	0	-31.64566543
chr11	60933976	60933976	-	4.66E-15	2.69E-13	-28.21238461
chr11	61129418	61129418	-	2.42E-14	1.31E-12	-26.2108026
chr11	61146977	61146977	+	4.85E-09	1.46E-07	-27.84109411
chr11	61146984	61146984	+	2.89E-15	1.70E-13	-37.35768501
chr11	61147010	61147010	+	1.25E-09	4.07E-08	-28.49291232
chr11	61147017	61147017	+	5.50E-11	2.11E-09	-31.20456227
chr11	61147128	61147128	+	0	0	-29.63407181
chr11	61147235	61147235	-	0	0	-25.62831785
chr11	61147242	61147242	-	0	0	-26.93089984
chr11	61147273	61147273	+	0	0	-25.66603102
chr11	61147632	61147632	+	0	0	-25.59093776
chr11	61147724	61147724	-	0.00034628	0.00365416	-30.96655978

chr11	61147738	61147738	-	7.06E-06	0.00012108	-38.1773399
chr11	61161335	61161335	+	0	0	-28.1519379
chr11	61484475	61484475	-	0	0	-28.63736526
chr11	61484494	61484494	-	1.32E-12	6.01E-11	-25.9843813
chr11	61484707	61484707	-	5.51E-05	0.00075085	-32.32258065
chr11	61505591	61505591	+	0.00056652	0.00552298	-26.44110276
chr11	61658321	61658321	-	1.79E-13	8.90E-12	-26.25072948
chr11	61674472	61674472	-	7.45E-05	0.00097667	-26.27820159
chr11	61674689	61674689	+	4.69E-07	1.03E-05	-34.55670543
chr11	61684687	61684687	+	0	0	-33.61862631
chr11	61684689	61684689	+	0	0	-34.3949813
chr11	61684713	61684713	-	0	0	-30.45698925
chr11	61684728	61684728	-	0	0	-32.27779032
chr11	61684784	61684784	+	0	0	-44.34738651
chr11	61684789	61684789	+	1.81E-07	4.26E-06	-25.42754736
chr11	61684792	61684792	+	4.25E-09	1.29E-07	-28.46830452
chr11	61684797	61684797	+	1.48E-10	5.39E-09	-30.9998989
chr11	61684969	61684969	+	0	0	-27.87814139
chr11	61684970	61684970	-	4.02E-13	1.93E-11	-29.90132536
chr11	61684977	61684977	+	0	0	-25.3141392
chr11	61951977	61951977	-	5.55E-16	3.46E-14	-32.11383909
chr11	62565940	62565940	+	3.06E-14	1.64E-12	-30.89352825
chr11	62636241	62636241	-	0	0	-30.3879977
chr11	63412172	63412172	+	0	0	-34.81691919
chr11	63412173	63412173	-	0	0	-36.79872515
chr11	63412211	63412211	-	0	0	-35.00828994
chr11	63412273	63412273	+	0	0	-40.52938808
chr11	63412381	63412381	+	0	0	-41.77577254
chr11	63412382	63412382	-	0	0	-44.81792717
chr11	63412421	63412421	-	0	0	-35.9834119
chr11	63898835	63898835	-	0	0	-25.70599497
chr11	65660331	65660331	+	1.79E-05	0.00027768	29.22077922
chr11	67456129	67456129	-	8.27E-11	3.11E-09	-46.10307982
chr11	67456140	67456140	-	0.00025101	0.00278179	-27.64705882
chr11	67545260	67545260	+	0	0	-25.81423646
chr11	67545262	67545262	+	0	0	-25.07142857
chr11	67545318	67545318	-	2.03E-08	5.57E-07	-25.48855388
chr11	67675702	67675702	-	0	0	-26.60075766
chr11	68113706	68113706	+	0.0006435	0.00613941	-26
chr11	68145138	68145138	+	0	0	-41.95921496
chr11	68145142	68145142	+	0	0	-36.22304375

chr11	68145288	68145288	-	3.16E-10	1.11E-08	-35.9984985
chr11	68145306	68145306	-	1.25E-10	4.61E-09	-37.66891892
chr11	68145317	68145317	-	9.85E-12	4.10E-10	-40.97902098
chr11	68145784	68145784	+	0	0	-39.07966746
chr11	68145812	68145812	+	0	0	-52.15345771
chr11	68145863	68145863	-	0	0	-40.54980552
chr11	68145880	68145880	+	0	0	-33.70742788
chr11	68145881	68145881	-	0	0	-33.30190259
chr11	68145973	68145973	-	0	0	-27.23222418
chr11	68146003	68146003	-	0	0	-37.16032722
chr11	68189154	68189154	+	2.44E-13	1.20E-11	-32.49637856
chr11	68189189	68189189	+	2.24E-14	1.21E-12	-35.8529028
chr11	68600888	68600888	+	2.22E-15	1.32E-13	-38.3580705
chr11	68601697	68601697	-	0	0	-37.30189162
chr11	68954045	68954045	+	0	0	-33.14733659
chr11	68956775	68956775	+	0	0	-58.73968913
chr11	68956782	68956782	+	0	0	-59.84902495
chr11	68956825	68956825	+	0	0	-56.6517278
chr11	68956913	68956913	-	0	0	-40.64349956
chr11	68956928	68956928	+	0	0	-31.08238732
chr11	68956929	68956929	-	0	0	-27.74530249
chr11	68956974	68956974	-	0	0	-38.16486829
chr11	69026484	69026484	-	1.19E-14	6.60E-13	-27.30374088
chr11	69061263	69061263	+	3.63E-09	1.11E-07	-32.2761194
chr11	69061482	69061482	+	0	0	-40.97754837
chr11	69119840	69119840	+	0	0	-32.45059193
chr11	69119878	69119878	+	0	0	-26.87309615
chr11	69119963	69119963	-	3.20E-08	8.53E-07	-38.77952756
chr11	69119966	69119966	-	4.76E-07	1.04E-05	-34.48109568
chr11	69119996	69119996	-	8.46E-08	2.11E-06	-36.84260853
chr11	69157402	69157402	-	0.00097926	0.00868014	-33.65384615
chr11	69236574	69236574	+	0	0	-26.18797786
chr11	69327281	69327281	+	1.20E-11	4.97E-10	-27.51929674
chr11	69327290	69327290	+	3.33E-16	2.11E-14	-35.87960387
chr11	69327435	69327435	-	1.80E-07	4.25E-06	-27.92989722
chr11	69398210	69398210	+	0	0	-28.09342854
chr11	69398220	69398220	+	0	0	-32.08269955
chr11	69398241	69398241	+	0	0	-34.86345447
chr11	69398251	69398251	-	0	0	-27.11484848
chr11	69398310	69398310	+	0	0	-29.24675766
chr11	69401259	69401259	-	2.66E-05	0.00039579	-31.00766195

chr11	69421825	69421825	-	3.89E-09	1.18E-07	-36.00985222
chr11	69452385	69452385	+	0	0	-27.57030073
chr11	69452393	69452393	+	0	0	-28.02480339
chr11	69471658	69471658	-	0	0	-25.87624705
chr11	69557597	69557597	-	4.00E-15	2.32E-13	-34.17688535
chr11	69622712	69622712	+	0.00010622	0.00132809	-48.05194805
chr11	69652451	69652451	+	3.19E-13	1.55E-11	-33.49476947
chr11	69654857	69654857	-	0	0	-39.9272953
chr11	69655422	69655422	-	2.98E-11	1.18E-09	-27.23829201
chr11	69655432	69655432	-	5.34E-11	2.05E-09	-29.66875106
chr11	69655468	69655468	+	2.75E-13	1.34E-11	-27.26879522
chr11	69655469	69655469	-	0	0	-38.85149527
chr11	69655471	69655471	+	7.36E-12	3.10E-10	-25.22867863
chr11	69655485	69655485	+	6.24E-14	3.24E-12	-28.38964545
chr11	69655500	69655500	+	0	0	-36.66201117
chr11	69655517	69655517	+	0	0	-36.69445485
chr11	69655683	69655683	-	2.20E-14	1.19E-12	-41.5308642
chr11	69655689	69655689	-	1.62E-12	7.33E-11	-39.44654088
chr11	69655698	69655698	-	6.77E-15	3.85E-13	-42.31481481
chr11	69655709	69655709	-	1.50E-09	4.84E-08	-30.97023404
chr11	69655731	69655731	-	4.37E-05	0.00061322	-25.01087429
chr11	69655746	69655746	+	0.00027235	0.00298291	-32.73657289
chr11	69695526	69695526	+	0	0	-33.41557553
chr11	69767751	69767751	+	6.37E-09	1.88E-07	-33.25170068
chr11	69777726	69777726	+	0	0	-28.57743737
chr11	69778056	69778056	-	0	0	-33.54312534
chr11	69778880	69778880	-	0	0	-26.11231687
chr11	69785162	69785162	+	8.73E-14	4.47E-12	-32.11962858
chr11	69801772	69801772	-	0	0	-31.13255002
chr11	69804564	69804564	-	4.23E-06	7.64E-05	-51.28205128
chr11	69804746	69804746	-	0	0	-37.14933669
chr11	69858624	69858624	+	0	0	-31.85914494
chr11	69858641	69858641	+	0	0	-27.72870718
chr11	69858644	69858644	+	0	0	-30.95989848
chr11	69858645	69858645	-	0	0	-34.20295092
chr11	69858662	69858662	+	0	0	-30.81672348
chr11	69858663	69858663	-	0	0	-35.56445599
chr11	69979873	69979873	+	0	0	-25.82050744
chr11	70024324	70024324	+	1.08E-07	2.65E-06	-30.96482062
chr11	70024565	70024565	-	5.76E-10	1.96E-08	-34.48275862
chr11	70024578	70024578	-	1.41E-11	5.77E-10	-49.66039707

chr11	70026456	70026456	-	2.54E-10	9.02E-09	-33.32380408
chr11	70027012	70027012	+	7.77E-16	4.79E-14	-40.84623323
chr11	70029847	70029847	+	7.77E-16	4.79E-14	-29.807217
chr11	70200103	70200103	-	5.16E-08	1.33E-06	-33.41031149
chr11	70215587	70215587	-	0	0	-34.69692274
chr11	70226364	70226364	+	0	0	-42.23959087
chr11	70226404	70226404	+	0	0	-33.96481146
chr11	70226487	70226487	-	0	0	-31.45574608
chr11	70226504	70226504	+	0	0	-29.7450601
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chr11	70226515	70226515	+	0	0	-32.853819
chr11	70226519	70226519	+	0	0	-32.58905733
chr11	70226545	70226545	+	0	0	-30.20895522
chr11	70226546	70226546	-	0	0	-29.75875706
chr11	70226551	70226551	+	0	0	-30.63019418
chr11	70226552	70226552	-	0	0	-29.72229526
chr11	70226559	70226559	-	0	0	-31.30259075
chr11	70226572	70226572	-	0	0	-31.98034188
chr11	70226589	70226589	-	0	0	-31.66805872
chr11	70226603	70226603	+	8.32E-13	3.87E-11	-25.53727358
chr11	70226611	70226611	+	2.01E-13	9.92E-12	-26.62298387
chr11	70226720	70226720	-	0	0	-26.6473142
chr11	70226727	70226727	-	0	0	-28.7566771
chr11	70228747	70228747	+	3.57E-09	1.09E-07	-26.81587486
chr11	70232845	70232845	+	7.35E-08	1.85E-06	-26.6518847
chr11	70465410	70465410	-	1.11E-06	2.27E-05	-34.06370461
chr11	70465419	70465419	+	0	0	-31.99578595
chr11	70465436	70465436	+	0	0	-32.7414729
chr11	70465456	70465456	+	0	0	-26.24425498
chr11	70465468	70465468	+	0	0	-30.10799268
chr11	70465534	70465534	-	0	0	-27.69953435
chr11	70465761	70465761	+	4.68E-06	8.36E-05	-30.11131725
chr11	70465783	70465783	+	1.90E-07	4.47E-06	-34.93699885
chr11	70465800	70465800	+	6.08E-08	1.55E-06	-36.91287879
chr11	70465964	70465964	-	1.36E-13	6.85E-12	-33.17374762
chr11	70465974	70465974	-	7.70E-10	2.58E-08	-27.74806892
chr11	70465978	70465978	-	3.33E-16	2.11E-14	-36.39724961
chr11	70466011	70466011	+	0	0	-26.31576478
chr11	70466012	70466012	-	0	0	-25.94865451
chr11	70466028	70466028	+	0	0	-40.46659849
chr11	70466029	70466029	-	0	0	-38.47108383



chr11	70466033	70466033	+	0	0	-26.79301822
chr11	70466039	70466039	+	0	0	-40.42620577
chr11	70466042	70466042	+	0	0	-35.272391
chr11	70466065	70466065	+	0	0	-38.38172759
chr11	70466066	70466066	-	2.07E-08	5.68E-07	-39.44086022
chr11	70466072	70466072	+	0	0	-38.25201296
chr11	70466073	70466073	-	1.43E-05	0.00022796	-27.23188406
chr11	70520140	70520140	-	1.86E-07	4.37E-06	-40.60584205
chr11	70520157	70520157	+	1.73E-06	3.39E-05	-31.18818498
chr11	70520158	70520158	-	1.96E-06	3.81E-05	-38.9214967
chr11	70520173	70520173	+	4.55E-15	2.63E-13	-43.10344828
chr11	70520177	70520177	+	0.00010094	0.00127147	-25.28735632
chr11	70520194	70520194	+	2.22E-16	1.43E-14	-46.47058824
chr11	70520196	70520196	+	4.39E-14	2.31E-12	-41.83087028
chr11	70520198	70520198	+	9.19E-05	0.00117242	-26.21301775
chr11	70520203	70520203	+	1.48E-11	6.06E-10	-41.62046278
chr11	70520358	70520358	-	0	0	-44.59555041
chr11	70520363	70520363	-	1.44E-15	8.70E-14	-32.29942101
chr11	70520365	70520365	-	0	0	-26.94187243
chr11	70520369	70520369	-	0	0	-39.94323342
chr11	70520385	70520385	-	0	0	-40.45031315
chr11	70520391	70520391	+	0	0	-42.7665171
chr11	70520392	70520392	-	0	0	-44.15289961
chr11	70520409	70520409	+	0	0	-38.64009415
chr11	70520410	70520410	-	0	0	-48.67577598
chr11	70520411	70520411	+	5.95E-12	2.53E-10	-27.87871216
chr11	70520413	70520413	+	0	0	-34.7985407
chr11	70520414	70520414	-	0	0	-30.57665605
chr11	70520429	70520429	-	2.22E-16	1.43E-14	-28.29482948
chr11	70520439	70520439	+	0	0	-31.44249794
chr11	70520440	70520440	-	0	0	-36.58371268
chr11	70520461	70520461	+	0	0	-39.22683241
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chr11	70520481	70520481	+	0	0	-29.7246844
chr11	70520482	70520482	-	0	0	-39.72898608
chr11	70520513	70520513	+	0	0	-26.74163677
chr11	70520529	70520529	+	0	0	-25.74776104
chr11	70520530	70520530	-	0	0	-34.31318364
chr11	70630436	70630436	-	0	0	-41.05458927
chr11	70630489	70630489	-	0	0	-28.12942218
chr11	70658770	70658770	+	1.14E-09	3.73E-08	-38.42157348

chr11	71984780	71984780	+	2.76E-06	5.20E-05	-25.76547861
chr11	72029302	72029302	+	0.00031772	0.0033989	-34.22286332
chr11	72412161	72412161	-	0	0	-26.28861666
chr11	72544779	72544779	+	3.49E-12	1.53E-10	-25.92426187
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chr11	72576569	72576569	-	0	0	-26.980414
chr11	72951761	72951761	+	0.00101252	0.00892205	-36.61518662
chr11	72951814	72951814	-	0	0	-36.31778058
chr11	73027271	73027271	+	0.00023438	0.00262379	-38.45315904
chr11	74871141	74871141	+	3.33E-16	2.11E-14	-34.93489822
chr11	74871317	74871317	-	0	0	-37.73610825
chr11	75153121	75153121	-	2.76E-13	1.34E-11	-25.95563207
chr11	75153137	75153137	+	2.68E-05	0.00039785	-41.54228856
chr11	75214021	75214021	+	8.57E-11	3.22E-09	-31.16541353
chr11	75214167	75214167	+	0	0	-32.53199585
chr11	75234972	75234972	+	5.53E-06	9.73E-05	-25.01715854
chr11	75252035	75252035	-	0.00061535	0.00591567	-25.26234568
chr11	75281908	75281908	+	0	0	-36.03283077
chr11	75291787	75291787	-	0	0	-28.3052849
chr11	75291798	75291798	-	0	0	-27.04073666
chr11	75291803	75291803	-	0	0	-27.56742959
chr11	75509732	75509732	+	0	0	-25.8896515
chr11	75514063	75514063	+	3.92E-06	7.13E-05	-26.3372093
chr11	75514611	75514611	-	7.87E-09	2.29E-07	-44.16475973
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chr11	75652581	75652581	+	0	0	-28.98670261
chr11	75652588	75652588	+	0	0	-35.9887731
chr11	75652671	75652671	-	9.77E-15	5.47E-13	-36.74835698
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chr11	75795011	75795011	-	0	0	-29.26214446
chr11	75795023	75795023	+	0	0	-37.63118505
chr11	75795024	75795024	-	0	0	-28.95046937
chr11	75795033	75795033	+	0	0	-32.61955128
chr11	75795046	75795046	+	0	0	-29.20422649
chr11	75795126	75795126	-	0	0	-28.44133069
chr11	75876631	75876631	+	7.39E-14	3.81E-12	-33.98373984
chr11	76028235	76028235	-	0	0	-25.22883633
chr11	76267820	76267820	-	0	0	-26.37469586
chr11	76268216	76268216	+	3.63E-09	1.11E-07	-39.80509745

chr11	76437021	76437021	+	0	0	-35.4962845
chr11	76437062	76437062	+	0	0	-39.68143942
chr11	76437087	76437087	-	0	0	-33.75648598
chr11	76437106	76437106	-	0	0	-37.81890326
chr11	76437113	76437113	+	1.13E-07	2.76E-06	-33.87430493
chr11	76437114	76437114	-	0	0	-34.29817809
chr11	76437116	76437116	+	1.20E-08	3.42E-07	-36.86330561
chr11	76437117	76437117	-	7.97E-07	1.67E-05	-31.64656905
chr11	76437128	76437128	+	1.76E-08	4.86E-07	-34.99002245
chr11	76437129	76437129	-	2.50E-05	0.00037411	-25.39378459
chr11	76437139	76437139	+	0	0	-31.06881496
chr11	76437159	76437159	+	0	0	-34.28109108
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chr11	76437168	76437168	-	0	0	-34.23064536
chr11	76437197	76437197	-	0	0	-29.09692168
chr11	76437201	76437201	-	0	0	-29.35302198
chr11	76437212	76437212	+	0	0	-37.07883715
chr11	76437213	76437213	-	0	0	-29.19904408
chr11	76437242	76437242	+	0	0	-39.68675519
chr11	76437243	76437243	-	0	0	-37.15705382
chr11	76437257	76437257	-	0	0	-32.35696896
chr11	76437280	76437280	-	0	0	-34.65251689
chr11	76624290	76624290	-	0	0	-42.76153508
chr11	76624301	76624301	-	1.70E-12	7.69E-11	-30
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chr11	76700504	76700504	+	1.50E-14	8.25E-13	-27.1679933
chr11	77463873	77463873	-	0	0	-28.7437
chr11	77472801	77472801	+	0.00023662	0.00264552	-26.95095949
chr11	77514427	77514427	-	7.43E-07	1.57E-05	-28.66541353
chr11	77783423	77783423	-	3.95E-07	8.75E-06	-36.32034632
chr11	77884652	77884652	-	0	0	-30.68055754
chr11	77884680	77884680	+	0	0	-28.8473199
chr11	77884681	77884681	-	0	0	-34.69476074
chr11	77893168	77893168	+	1.42E-08	3.99E-07	-30.59186575
chr11	77893188	77893188	+	9.45E-12	3.94E-10	-36.48764769
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chr11	78397138	78397138	-	2.78E-15	1.63E-13	-33.0405138
chr11	78397147	78397147	-	1.33E-15	8.06E-14	-32.61236904
chr11	78397297	78397297	+	2.81E-13	1.37E-11	-44.69412477
chr11	78551070	78551070	+	0.00078861	0.00726374	-33.53635325
chr11	78805952	78805952	+	1.16E-12	5.34E-11	-35.42766106

chr11	78827312	78827312	-	6.70E-08	1.70E-06	-25.81569665
chr11	78999188	78999188	-	3.94E-10	1.37E-08	-26.15650173
chr11	79308073	79308073	-	0	0	-35.39216288
chr11	79652459	79652459	-	0.00027368	0.0029953	-27.5862069
chr11	79660343	79660343	+	2.41E-10	8.58E-09	-38.47481021
chr11	79705173	79705173	+	4.77E-07	1.04E-05	-31.4697698
chr11	79710262	79710262	-	0	0	-26.89594855
chr11	79710695	79710695	+	8.73E-10	2.90E-08	-49.06716418
chr11	79710723	79710723	+	2.39E-06	4.55E-05	-36.07977438
chr11	79738920	79738920	-	0	0	-26.66123463
chr11	79773529	79773529	+	0	0	-25.51767857
chr11	79793446	79793446	+	0	0	-27.39758343
chr11	79860909	79860909	-	4.44E-15	2.57E-13	-45.28947368
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chr11	80477946	80477946	-	0	0	-26.07110062
chr11	80477990	80477990	-	0	0	-25.55807392
chr11	80821108	80821108	+	4.97E-10	1.70E-08	-27.26172799
chr11	80821234	80821234	-	0	0	-30.73550264
chr11	80821264	80821264	-	0	0	-37.90960452
chr11	80821643	80821643	+	1.11E-16	7.26E-15	-26.29843782
chr11	80821649	80821649	+	0	0	-34.14663244
chr11	81820438	81820438	-	0.00022665	0.00254925	-28.57142857
chr11	82264328	82264328	+	0.00019829	0.00227453	-27.5974026
chr11	82580265	82580265	+	0	0	-48.45350052
chr11	82603090	82603090	+	5.27E-10	1.80E-08	-26.91526113
chr11	82800514	82800514	+	0	0	-33.64786778
chr11	82800560	82800560	-	3.27E-12	1.43E-10	-38.57560976
chr11	82863758	82863758	-	0.00027371	0.00299562	-27.71929825
chr11	82929000	82929000	+	0	0	-41.00695501
chr11	82929007	82929007	+	0	0	-33.85338346
chr11	82930148	82930148	+	0	0	-27.95802814
chr11	82930156	82930156	+	0	0	-49.93499752
chr11	82930157	82930157	-	0	0	-40.41292969
chr11	82930160	82930160	+	0	0	-30.00158907
chr11	82930165	82930165	+	0	0	-29.03207146
chr11	82930166	82930166	-	0	0	-31.33226912
chr11	82930173	82930173	+	0	0	-36.14739585
chr11	82930174	82930174	-	0	0	-40.85382939
chr11	82930211	82930211	+	2.78E-05	0.00041154	-25.34013605
chr11	82930224	82930224	+	2.33E-15	1.38E-13	-51.93050193
chr11	82930228	82930228	+	1.46E-10	5.35E-09	-42.5997426

chr11	82989608	82989608	+	4.04E-10	1.40E-08	-27.62333254
chr11	82989657	82989657	+	3.70E-11	1.45E-09	-29.31614751
chr11	82989755	82989755	-	5.53E-12	2.36E-10	-33.89691206
chr11	82989801	82989801	+	0	0	-34.02640264
chr11	82989802	82989802	-	1.62E-13	8.11E-12	-28.34526226
chr11	82989834	82989834	-	1.09E-13	5.54E-12	-28.5254153
chr11	83429777	83429777	+	1.40E-12	6.38E-11	-26.15455452
chr11	83429789	83429789	+	0	0	-36.67778044
chr11	83472311	83472311	+	0	0	-26.40886157
chr11	84563374	84563374	-	3.21E-14	1.71E-12	-27.89464653
chr11	84764331	84764331	+	4.22E-05	0.00059443	-40.9178744
chr11	85525601	85525601	+	2.84E-07	6.46E-06	-28.51724631
chr11	85688574	85688574	+	0	0	-35.9354955
chr11	85791948	85791948	+	0	0	-26.84391271
chr11	85799982	85799982	+	0	0	-26.34364402
chr11	85799983	85799983	-	0	0	-33.17454268
chr11	85800007	85800007	-	0	0	-25.27604925
chr11	85800029	85800029	-	0	0	-32.45185642
chr11	85800044	85800044	+	0	0	-28.61093038
chr11	85800109	85800109	-	0	0	-26.32890365
chr11	85827557	85827557	+	0	0	-38.24447273
chr11	85827563	85827563	+	0	0	-34.5299536
chr11	85827672	85827672	-	0	0	-38.82110949
chr11	85885974	85885974	-	0	0	-26.20440815
chr11	85885999	85885999	-	0	0	-37.73064397
chr11	85886016	85886016	+	0	0	-32.1848444
chr11	85886050	85886050	+	0.00069985	0.00657932	-32.6776395
chr11	85886051	85886051	-	3.33E-16	2.11E-14	-28.23417508
chr11	85886084	85886084	+	2.93E-14	1.57E-12	-71.99828473
chr11	85886404	85886404	-	0	0	-29.10461769
chr11	85886450	85886450	+	0	0	-26.81995971
chr11	85886451	85886451	-	0	0	-31.45108884
chr11	85886542	85886542	-	0	0	-30.20288354
chr11	85886554	85886554	-	0	0	-39.63408817
chr11	85890087	85890087	-	2.91E-13	1.42E-11	-25.30941704
chr11	85918130	85918130	+	0	0	-25.49017741
chr11	85918243	85918243	+	0	0	-27.93649413
chr11	85984814	85984814	+	2.22E-15	1.32E-13	-25.71621926
chr11	86995131	86995131	-	0	0	-33.97484521
chr11	87264346	87264346	-	0	0	-26.50798403
chr11	87467897	87467897	+	8.94E-05	0.00114364	29.78906586

chr11	87468560	87468560	+	0	0	-31.45180023
chr11	87657925	87657925	-	0	0	-27.28338328
chr11	87763479	87763479	-	0	0	-29.06001775
chr11	87778073	87778073	-	3.87E-06	7.05E-05	-46.51046859
chr11	87778110	87778110	+	0	0	-30.40164941
chr11	87778128	87778128	-	0	0	-25.49611132
chr11	87778133	87778133	+	0	0	-28.8084741
chr11	87778134	87778134	-	0	0	-32.18219752
chr11	87778148	87778148	+	0	0	-34.8369076
chr11	87778149	87778149	-	0	0	-31.68203387
chr11	87778163	87778163	+	3.22E-15	1.89E-13	-30.09442249
chr11	87778164	87778164	-	0	0	-26.54746845
chr11	87778181	87778181	-	0	0	-29.29429429
chr11	87778199	87778199	+	0	0	-36.56759881
chr11	87778200	87778200	-	0	0	-39.32533733
chr11	87778203	87778203	+	0	0	-25.00003967
chr11	87778204	87778204	-	0	0	-30.7843104
chr11	87778268	87778268	-	0	0	-26.51729204
chr11	87778863	87778863	-	1.44E-15	8.70E-14	-30.65459594
chr11	87779535	87779535	-	2.41E-10	8.56E-09	-38.14409868
chr11	88139223	88139223	-	6.78E-07	1.44E-05	-51.32113821
chr11	88139238	88139238	-	2.16E-12	9.65E-11	-70.05102041
chr11	88139332	88139332	-	0	0	-40.38414426
chr11	88139346	88139346	-	0	0	-34.50791265
chr11	88139358	88139358	-	0	0	-47.04182872
chr11	88139367	88139367	-	0	0	-27.39086319
chr11	88139373	88139373	-	0	0	-49.45436323
chr11	88139380	88139380	+	1.01E-07	2.47E-06	-31.07913669
chr11	88139381	88139381	-	0	0	-38.10371562
chr11	88139393	88139393	+	0	0	-51.62180814
chr11	88139401	88139401	+	2.04E-09	6.44E-08	-34.67058824
chr11	88139620	88139620	-	3.54E-09	1.08E-07	-43.83116883
chr11	88139632	88139632	-	6.89E-07	1.46E-05	-34.94805195
chr11	88169765	88169765	-	0	0	-33.42296085
chr11	88193287	88193287	+	0	0	-44.68190608
chr11	88193377	88193377	+	0	0	-27.48441462
chr11	88193378	88193378	-	0	0	-31.42334122
chr11	88193759	88193759	-	0.00022561	0.0025391	-36.18984838
chr11	88235752	88235752	+	1.33E-06	2.68E-05	-25.63034929
chr11	88235756	88235756	+	2.22E-16	1.43E-14	-44.75595651
chr11	88235987	88235987	-	2.62E-11	1.04E-09	-40.73593074

chr11	88236003	88236003	-	2.33E-05	0.00035195	-29.73197016
chr11	88240878	88240878	+	1.10E-09	3.62E-08	-30.75514874
chr11	88241130	88241130	+	0	0	-42.20851428
chr11	88241131	88241131	-	3.17E-07	7.16E-06	-39.07322654
chr11	88241147	88241147	+	0	0	-42.11836012
chr11	88241180	88241180	+	0	0	-38.62220229
chr11	88468065	88468065	+	0	0	-44.25601962
chr11	88468066	88468066	-	1.20E-11	4.95E-10	-26.43046007
chr11	88468095	88468095	+	0	0	-25.29030742
chr11	88468100	88468100	+	0	0	-28.80903631
chr11	88468108	88468108	+	0	0	-36.98162136
chr11	88468110	88468110	+	0	0	-29.62537533
chr11	88490134	88490134	+	6.36E-07	1.36E-05	-27.56728778
chr11	88553370	88553370	+	1.28E-11	5.28E-10	-28.16176471
chr11	88625946	88625946	-	1.17E-12	5.36E-11	-29.50841751
chr11	88627611	88627611	-	7.90E-09	2.30E-07	-25.97783572
chr11	88687462	88687462	-	1.48E-05	0.00023491	-25.28409091
chr11	88690180	88690180	+	0	0	-26.01936296
chr11	88691038	88691038	+	0	0	-25.03627718
chr11	88691134	88691134	-	0	0	-26.29988072
chr11	88821282	88821282	+	3.93E-08	1.03E-06	-35.26315789
chr11	90033092	90033092	-	1.08E-07	2.65E-06	-30.37332367
chr11	90033102	90033102	+	1.38E-11	5.64E-10	-40.09047499
chr11	90033103	90033103	-	2.28E-07	5.28E-06	-30.17967954
chr11	90033112	90033112	+	2.94E-09	9.10E-08	-33.32680251
chr11	90033352	90033352	+	0	0	-26.92445613
chr11	90033510	90033510	+	2.98E-10	1.05E-08	-26.90780142
chr11	90347860	90347860	+	0	0	-34.28628329
chr11	90347861	90347861	-	0	0	-33.26403326
chr11	90347921	90347921	+	0	0	-34.76691498
chr11	90347922	90347922	-	0	0	-37.1322429
chr11	90347940	90347940	+	0	0	-40.40473806
chr11	90347941	90347941	-	0	0	-36.2411065
chr11	90347962	90347962	+	0	0	-26.13606485
chr11	90347963	90347963	-	0	0	-27.02308859
chr11	90358148	90358148	+	0	0	-27.5914808
chr11	90358847	90358847	+	5.80E-08	1.48E-06	-36.82336182
chr11	90359331	90359331	-	0.00060621	0.00584263	-37.63066202
chr11	90376577	90376577	-	6.43E-08	1.63E-06	-45.31707317
chr11	90380720	90380720	-	1.11E-16	7.26E-15	-25.22616261
chr11	90381545	90381545	+	1.33E-15	8.06E-14	-33.13895957

chr11	90381664	90381664	-	0	0	-25.56416882
chr11	94138542	94138542	-	0	0	-36.74186179
chr11	94138600	94138600	+	0	0	-25.29849137
chr11	94138609	94138609	+	0	0	-27.27327874
chr11	94189738	94189738	-	0	0	-26.22497927
chr11	94243727	94243727	-	2.88E-14	1.54E-12	-30.69425467
chr11	94425733	94425733	+	0	0	-31.89368771
chr11	94425734	94425734	-	0	0	-33.22871637
chr11	94425761	94425761	-	0	0	-28.50449944
chr11	94425765	94425765	-	0	0	-27.79718151
chr11	94433894	94433894	+	0	0	-30.89487402
chr11	94433895	94433895	-	0	0	-30.07246377
chr11	94433916	94433916	-	0	0	-27.99195918
chr11	94434016	94434016	-	0	0	-26.19009024
chr11	94443304	94443304	+	2.68E-05	0.00039899	-27.40740741
chr11	94500338	94500338	+	0	0	-31.50848765
chr11	94500488	94500488	-	0	0	-25.38660185
chr11	94500505	94500505	-	0	0	-28.28837899
chr11	94521712	94521712	-	0	0	-33.92518364
chr11	94562646	94562646	+	1.29E-14	7.13E-13	-25.76936003
chr11	94565502	94565502	-	0	0	-41.54534943
chr11	94570889	94570889	+	1.31E-09	4.26E-08	-26.81227641
chr11	94570926	94570926	+	0	0	-41.85632184
chr11	94571072	94571072	-	0	0	-37.49452074
chr11	94934851	94934851	+	4.44E-16	2.79E-14	-25.65728274
chr11	94971251	94971251	-	0	0	-28.44885789
chr11	94971275	94971275	-	0	0	-25.5353231
chr11	94971284	94971284	-	0	0	-27.74242149
chr11	94987579	94987579	+	3.10E-14	1.66E-12	-30.55034787
chr11	94987639	94987639	-	0	0	-27.10268775
chr11	95010489	95010489	-	0	0	-30.79922027
chr11	95019914	95019914	-	0	0	-28.99102493
chr11	95019936	95019936	-	0	0	-34.05749642
chr11	95019939	95019939	-	0	0	-38.11267393
chr11	95019945	95019945	-	0	0	-38.41578269
chr11	95019953	95019953	-	0	0	-26.24093055
chr11	95019960	95019960	+	0	0	-31.56160038
chr11	95019961	95019961	-	0	0	-33.40475953
chr11	95019970	95019970	+	0	0	-27.98341328
chr11	95019982	95019982	+	0	0	-40.86751087
chr11	95019983	95019983	-	0	0	-38.25683303



chr11	95020027	95020027	+	0	0	-38.39166574
chr11	95020028	95020028	-	0	0	-36.68803624
chr11	95020055	95020055	+	0	0	-38.99233542
chr11	95020056	95020056	-	0	0	-34.57980377
chr11	95020060	95020060	+	0	0	-33.61362026
chr11	95020061	95020061	-	0	0	-32.11272964
chr11	95020063	95020063	+	0	0	-34.21905727
chr11	95020064	95020064	-	0	0	-32.17860687
chr11	95020069	95020069	+	0	0	-35.79276239
chr11	95020070	95020070	-	0	0	-34.96860382
chr11	95020076	95020076	+	0	0	-33.56501715
chr11	95020077	95020077	-	0	0	-30.21715228
chr11	95020081	95020081	-	0	0	-36.67104215
chr11	95020086	95020086	+	0	0	-44.92828397
chr11	95020087	95020087	-	0	0	-27.03685539
chr11	95020100	95020100	+	0	0	-43.44155844
chr11	95020101	95020101	-	0	0	-44.85823755
chr11	95020103	95020103	+	0	0	-36.71903096
chr11	95020104	95020104	-	0	0	-40.71652944
chr11	95020108	95020108	+	0	0	-43.21220958
chr11	95020109	95020109	-	0	0	-39.84609028
chr11	95020124	95020124	+	0	0	-31.0595763
chr11	95020125	95020125	-	0	0	-35.26953521
chr11	95020134	95020134	-	0	0	-40.61267012
chr11	95078593	95078593	+	0	0	-28.14271996
chr11	95082992	95082992	-	2.10E-10	7.53E-09	-28.1773178
chr11	95123022	95123022	+	0	0	-31.38073839
chr11	95123180	95123180	-	1.04E-12	4.79E-11	-37.86366182
chr11	95148365	95148365	+	0	0	-35.44279795
chr11	95223316	95223316	+	0	0	-28.15128257
chr11	95223333	95223333	+	0	0	-25.02906245
chr11	95326455	95326455	-	0.00037403	0.00390048	-28.9295393
chr11	95540953	95540953	-	0.00032709	0.00348266	-26.56127515
chr11	95594765	95594765	+	0	0	-26.13539225
chr11	95597972	95597972	-	0	0	-30.02655539
chr11	95597993	95597993	-	0	0	-34.59687177
chr11	95598009	95598009	-	0	0	-26.0932196
chr11	95622279	95622279	-	0	0	-39.4270535
chr11	95645372	95645372	-	2.59E-08	7.00E-07	-28.23698041
chr11	95682116	95682116	+	0	0	-28.59164992
chr11	95682212	95682212	-	0	0	-27.54385294

chr11	95682246	95682246	-	0	0	-31.37305747
chr11	95749558	95749558	+	1.14E-05	0.00018554	-49.42528736
chr11	95823852	95823852	+	8.46E-10	2.82E-08	-25.5917987
chr11	95991218	95991218	+	0	0	-29.45707071
chr11	95991344	95991344	+	7.20E-09	2.11E-07	-26.09932218
chr11	95991527	95991527	+	0	0	-27.52240145
chr11	95991630	95991630	-	9.32E-11	3.48E-09	-26.4223518
chr11	96018063	96018063	+	4.44E-16	2.79E-14	-26.80812791
chr11	96168308	96168308	-	0	0	-31.20498331
chr11	96265125	96265125	-	4.54E-07	9.96E-06	-25.03087373
chr11	96265153	96265153	-	1.68E-07	3.98E-06	-28.91384238
chr11	96266128	96266128	+	0	0	-29.6598731
chr11	96266326	96266326	-	1.59E-07	3.77E-06	-26.76709981
chr11	96279250	96279250	+	1.20E-05	0.0001953	-28.52621328
chr11	96289538	96289538	+	0	0	-31.31682015
chr11	96289541	96289541	+	0	0	-39.20639364
chr11	96289542	96289542	-	2.29E-09	7.18E-08	-42.60249554
chr11	96289579	96289579	-	2.39E-11	9.54E-10	-34.97301089
chr11	96291167	96291167	+	0	0	-31.04841519
chr11	96291179	96291179	+	3.44E-15	2.01E-13	-25.14101994
chr11	96291204	96291204	-	1.22E-14	6.77E-13	-26.56550978
chr11	96302148	96302148	-	1.11E-16	7.26E-15	-31.92985893
chr11	96302456	96302456	-	3.45E-07	7.73E-06	-30.39784946
chr11	96320524	96320524	+	3.63E-08	9.58E-07	-30.84349593
chr11	96320525	96320525	-	1.99E-12	8.90E-11	-31.31623932
chr11	96320551	96320551	+	1.44E-13	7.24E-12	-41.43356643
chr11	96332203	96332203	+	0	0	-28.86690734
chr11	96332722	96332722	+	0	0	-35.9437316
chr11	96332762	96332762	+	0	0	-27.68248567
chr11	96332805	96332805	-	0	0	-41.43319228
chr11	96332807	96332807	-	0	0	-26.71071509
chr11	96332815	96332815	-	0	0	-34.78534845
chr11	96332830	96332830	-	0	0	-27.83733913
chr11	96332845	96332845	+	2.63E-05	0.00039173	-36.59233848
chr11	96332846	96332846	-	0	0	-25.02106582
chr11	96332853	96332853	+	0.00043007	0.00438189	-31.93939394
chr11	96332869	96332869	+	3.23E-07	7.29E-06	-29.45407381
chr11	96332923	96332923	+	0	0	-25.15253313
chr11	96332924	96332924	-	0	0	-26.09229468
chr11	96332926	96332926	-	0	0	-27.55425181
chr11	96332970	96332970	-	0	0	-25.72376309

chr11	96333068	96333068	-	0	0	-25.53251904
chr11	96341950	96341950	+	0	0	-29.12701788
chr11	96341951	96341951	-	0	0	-31.57358327
chr11	96341979	96341979	-	0	0	-26.58468856
chr11	96341998	96341998	+	0	0	-31.50289948
chr11	96342022	96342022	+	0	0	-29.76202268
chr11	96342025	96342025	+	0	0	-29.51839099
chr11	96342037	96342037	+	0	0	-33.76001819
chr11	96342040	96342040	+	0	0	-29.85378258
chr11	96342045	96342045	+	0	0	-30.98037979
chr11	96342061	96342061	-	0	0	-27.77353274
chr11	96342087	96342087	-	0	0	-34.12037719
chr11	96342098	96342098	-	0	0	-31.4736873
chr11	96342101	96342101	-	0	0	-34.65562728
chr11	96345664	96345664	+	0	0	-38.44486804
chr11	96345666	96345666	+	0	0	-40.07976148
chr11	96345674	96345674	+	0	0	-39.48824887
chr11	96345678	96345678	+	0	0	-37.58891114
chr11	96345680	96345680	+	0	0	-36.44292721
chr11	96345684	96345684	+	0	0	-38.64892282
chr11	96345687	96345687	+	0	0	-39.80968943
chr11	96345697	96345697	+	0	0	-37.22640098
chr11	96345699	96345699	+	0	0	-34.89201934
chr11	96345700	96345700	-	0	0	-42.75562372
chr11	96345738	96345738	-	0	0	-44.02033351
chr11	96345750	96345750	-	0	0	-43.98282147
chr11	96345758	96345758	+	0	0	-41.02128477
chr11	96345763	96345763	+	0	0	-38.44278793
chr11	96345790	96345790	+	0	0	-35.51348685
chr11	96345794	96345794	+	0	0	-37.54783399
chr11	96345868	96345868	-	0	0	-37.84255131
chr11	96345889	96345889	-	0	0	-39.72056265
chr11	96345892	96345892	+	0	0	-43.45416763
chr11	96345903	96345903	+	0	0	-45.18742381
chr11	96345904	96345904	-	2.21E-13	1.09E-11	-30.90757145
chr11	96345921	96345921	+	1.67E-15	9.99E-14	-29.92480629
chr11	96345922	96345922	-	0	0	-33.14854438
chr11	96345926	96345926	-	1.33E-14	7.36E-13	-26.70655956
chr11	96346075	96346075	-	0	0	-25.82150996
chr11	96346083	96346083	+	0	0	-34.80045351
chr11	96346129	96346129	+	0	0	-27.19094567

chr11	96346180	96346180	+	0	0	-34.41282366
chr11	96346181	96346181	-	0	0	-31.32372138
chr11	96346182	96346182	+	0	0	-33.17998386
chr11	96346183	96346183	-	0	0	-34.58070387
chr11	96346188	96346188	+	0	0	-38.06083281
chr11	96346189	96346189	-	0	0	-37.77503732
chr11	96346194	96346194	+	0	0	-31.14259588
chr11	96346195	96346195	-	0	0	-34.98450551
chr11	96346205	96346205	-	0	0	-39.13171087
chr11	96354666	96354666	+	0	0	-25.53165585
chr11	96354676	96354676	+	0	0	-27.75308436
chr11	96366870	96366870	+	0	0	-33.58154102
chr11	96366880	96366880	+	0	0	-28.96055232
chr11	96366881	96366881	-	0	0	-33.40834274
chr11	96366941	96366941	+	0	0	-31.13508398
chr11	96366944	96366944	+	0	0	-32.312777
chr11	96366945	96366945	-	0	0	-31.1087023
chr11	96366967	96366967	+	0	0	-37.45172895
chr11	96366968	96366968	-	0	0	-34.91259282
chr11	96407532	96407532	+	1.17E-14	6.48E-13	-28
chr11	96407537	96407537	+	2.47E-13	1.21E-11	-26.35181776
chr11	96407540	96407540	+	0	0	-38.52157745
chr11	96448406	96448406	-	0	0	-25.15588522
chr11	96644784	96644784	-	2.15E-12	9.58E-11	-26.19922772
chr11	96644820	96644820	+	0	0	-28.67813697
chr11	96644821	96644821	-	0	0	-27.22755043
chr11	96736475	96736475	+	2.74E-06	5.16E-05	-27.81832928
chr11	96824993	96824993	+	3.78E-06	6.90E-05	-31.33333333
chr11	96863433	96863433	+	4.82E-13	2.30E-11	-25.21539853
chr11	96928851	96928851	+	0	0	-31.55743924
chr11	96928893	96928893	-	0	0	-40.08165487
chr11	96935270	96935270	+	0	0	-31.99474891
chr11	96935276	96935276	+	0	0	-34.14749745
chr11	96935386	96935386	-	0	0	-31.2588682
chr11	96986963	96986963	+	0	0	-32.68107398
chr11	96986964	96986964	-	0	0	-34.1770139
chr11	96993094	96993094	+	2.74E-12	1.21E-10	-30.910162
chr11	96993142	96993142	-	0	0	-35.34375025
chr11	96993177	96993177	+	3.85E-09	1.17E-07	-46.07397794
chr11	96993184	96993184	+	2.38E-07	5.50E-06	-43.45561594
chr11	96993441	96993441	+	0	0	-28.19243551

chr11	96993459	96993459	+	0	0	-39.60532931
chr11	96993460	96993460	-	0	0	-26.93145674
chr11	96997221	96997221	+	0	0	-33.82300873
chr11	96997236	96997236	+	0	0	-26.53702195
chr11	96997237	96997237	-	0	0	-27.69624533
chr11	96997266	96997266	+	0	0	-33.68269158
chr11	96997267	96997267	-	0	0	-33.47135854
chr11	96997321	96997321	+	0	0	-34.44004617
chr11	96997337	96997337	-	0	0	-39.71195262
chr11	96997366	96997366	-	0	0	-43.32297001
chr11	96997369	96997369	-	0	0	-34.84833627
chr11	96997371	96997371	-	0	0	-46.01711808
chr11	96997408	96997408	+	0	0	-27.33130727
chr11	96997411	96997411	+	0	0	-47.06835913
chr11	96997600	96997600	-	0	0	-26.36023989
chr11	97003106	97003106	+	0	0	-28.32117832
chr11	97003128	97003128	+	0	0	-28.9433144
chr11	97003147	97003147	+	0	0	-27.06124901
chr11	97003148	97003148	-	0	0	-25.67873986
chr11	97025840	97025840	+	2.38E-08	6.47E-07	-28.46426807
chr11	97120062	97120062	+	0	0	-33.33429887
chr11	97123758	97123758	+	0	0	-27.5805709
chr11	97123829	97123829	-	0.00056858	0.00553945	-30.7998937
chr11	97138736	97138736	-	0.00109943	0.00954097	-27.27272727
chr11	97147528	97147528	+	2.51E-07	5.78E-06	-34.64452214
chr11	97152577	97152577	+	0	0	-34.50687027
chr11	97152667	97152667	+	0	0	-28.46146375
chr11	97152668	97152668	-	0	0	-30.26110469
chr11	97332754	97332754	-	0.00096447	0.0085722	-27.73892774
chr11	97419706	97419706	-	1.02E-06	2.08E-05	-27.06449668
chr11	97489673	97489673	-	4.58E-05	0.00063957	-26.35057471
chr11	97589392	97589392	-	1.94E-07	4.55E-06	-31.67819834
chr11	97590677	97590677	+	0	0	-29.16970143
chr11	97626357	97626357	+	8.85E-07	1.84E-05	-25.54826617
chr11	97626437	97626437	-	0	0	-26.70001117
chr11	97626712	97626712	+	0	0	-31.94501157
chr11	97626741	97626741	-	1.56E-13	7.78E-12	-25.28167311
chr11	97626959	97626959	+	0	0	-42.47863248
chr11	97626960	97626960	-	0	0	-28.50468181
chr11	97626977	97626977	+	0	0	-34.0732162
chr11	97626983	97626983	+	0	0	-31.6928545

chr11	97627075	97627075	-	0	0	-37.27107507
chr11	97627103	97627103	-	0	0	-34.08637711
chr11	97627457	97627457	+	0	0	-34.59629563
chr11	97627527	97627527	-	0	0	-30.0292032
chr11	97627814	97627814	+	0	0	-45.56149231
chr11	97627836	97627836	+	0	0	-26.1506426
chr11	97627907	97627907	-	0	0	-32.4076265
chr11	97627922	97627922	-	0	0	-35.98114496
chr11	97627955	97627955	+	0	0	-34.86111111
chr11	97627959	97627959	+	0	0	-35.15352885
chr11	97627960	97627960	-	0	0	-36.72010399
chr11	97628006	97628006	+	0	0	-38.38079214
chr11	97628007	97628007	-	0	0	-33.25304949
chr11	97628015	97628015	+	0	0	-41.00659945
chr11	97628169	97628169	+	0	0	-34.41320744
chr11	97628170	97628170	-	0	0	-36.75508808
chr11	97628269	97628269	-	0	0	-31.96146245
chr11	97628294	97628294	-	0	0	-25.65607241
chr11	97628299	97628299	-	0	0	-26.14871958
chr11	97697869	97697869	+	1.46E-05	0.0002319	-35.71428571
chr11	97718863	97718863	-	0	0	-30.14647462
chr11	97718894	97718894	-	0	0	-25.48574095
chr11	98002961	98002961	+	0	0	-43.59173257
chr11	98002976	98002976	+	0	0	-31.46878484
chr11	98002977	98002977	-	0	0	-30.80017209
chr11	98002986	98002986	+	0	0	-42.3043617
chr11	98002987	98002987	-	0	0	-38.05050151
chr11	98002999	98002999	-	0	0	-28.11733168
chr11	98003004	98003004	+	0	0	-31.5708258
chr11	98003017	98003017	+	0	0	-27.30496454
chr11	98003018	98003018	-	0	0	-34.20421519
chr11	98003064	98003064	+	0	0	-28.79435362
chr11	98003065	98003065	-	0	0	-35.09606333
chr11	98003142	98003142	-	0	0	-28.63979849
chr11	98003150	98003150	+	3.38E-11	1.33E-09	-35.01331305
chr11	98003151	98003151	-	0	0	-25.76561855
chr11	98003156	98003156	+	2.18E-10	7.81E-09	-31.46446363
chr11	98003236	98003236	-	0	0	-25.73585591
chr11	98003296	98003296	+	0	0	-43.91613813
chr11	98003297	98003297	-	0	0	-36.31488149
chr11	98019642	98019642	+	4.95E-08	1.28E-06	-41.42028986

chr11	98019648	98019648	+	3.62E-11	1.42E-09	-42.66666667
chr11	98019649	98019649	-	5.67E-09	1.69E-07	-57.34811166
chr11	98019669	98019669	-	1.22E-08	3.47E-07	-56.54430849
chr11	98339151	98339151	+	0.00044518	0.00451235	-33.33333333
chr11	98349281	98349281	-	2.90E-10	1.02E-08	-36.59846547
chr11	98349302	98349302	-	2.47E-09	7.73E-08	-35.05987676
chr11	98349351	98349351	+	0	0	-27.57249379
chr11	98349352	98349352	-	0	0	-26.14353226
chr11	98350423	98350423	+	0	0	-32.26890642
chr11	98350606	98350606	-	1.12E-05	0.00018371	-29.41176471
chr11	98384165	98384165	-	8.44E-08	2.10E-06	-30.57929725
chr11	98447532	98447532	+	0.00024584	0.00273316	-26.64304124
chr11	98447538	98447538	+	2.44E-06	4.64E-05	-33.7809557
chr11	98448422	98448422	+	0	0	-26.48355906
chr11	98599524	98599524	+	1.23E-08	3.48E-07	-27.64038533
chr11	98749088	98749088	-	4.26E-10	1.47E-08	-37.81408451
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chr11	98767344	98767344	+	0	0	-36.77042505
chr11	98767348	98767348	+	0	0	-40.17991004
chr11	98767387	98767387	+	5.64E-12	2.41E-10	-29.01420577
chr11	98767391	98767391	+	0	0	-38.625
chr11	98768278	98768278	+	0	0	-30.22200434
chr11	98768279	98768279	-	0	0	-33.58491482
chr11	98768326	98768326	-	1.41E-06	2.81E-05	-27.12710084
chr11	98768333	98768333	-	2.09E-07	4.87E-06	-30.4388422
chr11	98830400	98830400	-	7.78E-09	2.27E-07	-47.6744186
chr11	98837666	98837666	+	0	0	-36.44531067
chr11	98847338	98847338	+	9.57E-05	0.00121437	-44.23076923
chr11	98926256	98926256	-	0	0	-27.57666993
chr11	98936341	98936341	+	0	0	-26.80237489
chr11	98936359	98936359	+	0	0	-30.57430611
chr11	98936369	98936369	+	0	0	-30.17655367
chr11	98936564	98936564	+	0	0	-29.09812125
chr11	98936589	98936589	+	0	0	-28.63882698
chr11	98936590	98936590	-	0	0	-27.23318115
chr11	98936638	98936638	+	0	0	-32.58905543
chr11	98971383	98971383	-	0	0	-29.44238324
chr11	98983432	98983432	+	7.70E-05	0.00100488	-29.44642368
chr11	98983468	98983468	+	2.50E-05	0.00037505	-35.23391813
chr11	99072209	99072209	+	0.00011268	0.00139706	-25.08847085
chr11	99143804	99143804	+	0	0	-29.39397092

chr11	99143907	99143907	+	1.42E-11	5.80E-10	-31.40650061
chr11	99144058	99144058	-	0	0	-25.97016416
chr11	99377211	99377211	-	0.0001019	0.00128197	31.96969697
chr11	99932111	99932111	+	7.27E-05	0.00095658	-26.3539283
chr11	99932121	99932121	+	6.13E-05	0.00082482	-27.85507246
chr11	99932133	99932133	+	4.85E-06	8.64E-05	-31.35011442
chr11	100354158	100354158	+	2.22E-16	1.43E-14	-44.43636985
chr11	100387952	100387952	+	0	0	-29.57106651
chr11	100388096	100388096	-	0	0	-28.98294819
chr11	100411766	100411766	+	0	0	-26.28277455
chr11	100521685	100521685	-	6.98E-06	0.00011982	-25.37166537
chr11	100525069	100525069	+	1.51E-08	4.24E-07	-29.26195426
chr11	100555968	100555968	+	7.25E-12	3.06E-10	-26.03550296
chr11	100657221	100657221	-	0	0	-30.29208857
chr11	100657227	100657227	-	0	0	-40.96462397
chr11	100657231	100657231	-	0	0	-34.59390914
chr11	100657706	100657706	+	0	0	-26.9745775
chr11	100673247	100673247	+	0	0	-26.45973715
chr11	100673476	100673476	+	0	0	-27.54323115
chr11	100673554	100673554	+	1.11E-16	7.26E-15	-25.8392969
chr11	100673555	100673555	-	0	0	-26.83722642
chr11	100846110	100846110	-	3.19E-07	7.19E-06	-33.16645807
chr11	101066803	101066803	+	4.94E-06	8.78E-05	-31.18686869
chr11	101140643	101140643	-	4.53E-08	1.18E-06	-29.75460123
chr11	101167530	101167530	+	3.80E-10	1.32E-08	-29.35627081
chr11	101168800	101168800	-	0.0008311	0.00758545	-35.65072303
chr11	101247071	101247071	-	0.00104463	0.00915244	-26.76999617
chr11	101276865	101276865	+	0	0	-28.02189641
chr11	101276882	101276882	-	0	0	-25.053554
chr11	101276905	101276905	-	0	0	-25.96577987
chr11	101521527	101521527	+	8.20E-05	0.00106143	-45.47368421
chr11	101657703	101657703	+	3.49E-06	6.43E-05	-25.51956815
chr11	101669119	101669119	+	3.64E-07	8.12E-06	-27.71503684
chr11	101673137	101673137	-	0	0	-29.27334207
chr11	101696051	101696051	+	1.52E-08	4.24E-07	-35.1824088
chr11	101696058	101696058	+	2.03E-11	8.19E-10	-44.57215837
chr11	101830308	101830308	-	0	0	-32.1054701
chr11	101830317	101830317	-	0	0	-30.54082525
chr11	101879305	101879305	-	1.51E-05	0.00023882	-25.81068416
chr11	101879352	101879352	+	0	0	-25.17992968
chr11	101879353	101879353	-	0	0	-30.29935059



chr11	101896880	101896880	-	0	0	-29.96500965
chr11	101896937	101896937	+	4.79E-12	2.06E-10	-25.22199497
chr11	101897195	101897195	-	1.46E-09	4.72E-08	-25.76272093
chr11	101928467	101928467	-	0	0	-39.58752515
chr11	101946587	101946587	-	0.00064285	0.00613447	-34.11764706
chr11	101946592	101946592	+	0	0	-34.47274421
chr11	102070608	102070608	+	7.31E-05	0.00096089	-29.16666667
chr11	102070631	102070631	+	1.80E-05	0.00028021	-31.37019231
chr11	102070635	102070635	+	2.44E-07	5.62E-06	-49.41305943
chr11	102224736	102224736	-	0	0	-53.4214394
chr11	102224741	102224741	-	0	0	-39.38710397
chr11	102224758	102224758	+	0	0	-38.7196468
chr11	102224759	102224759	-	0	0	-37.77934788
chr11	102224783	102224783	+	1.11E-16	7.26E-15	-31.74917492
chr11	102224798	102224798	+	0	0	-44.43708609
chr11	102224808	102224808	+	2.37E-09	7.44E-08	-28.08920863
chr11	102224949	102224949	-	2.05E-13	1.01E-11	-34.52991453
chr11	102224968	102224968	-	2.02E-10	7.27E-09	-25.84210526
chr11	102224982	102224982	-	5.23E-10	1.79E-08	-25.9702286
chr11	102224987	102224987	+	0	0	-40.15411908
chr11	102224988	102224988	-	9.21E-12	3.84E-10	-31.15842491
chr11	102224999	102224999	+	0	0	-42.45231677
chr11	102225025	102225025	+	0	0	-31.2371189
chr11	102225029	102225029	+	0	0	-43.69982081
chr11	102225181	102225181	-	0	0	-33.29083713
chr11	102309819	102309819	+	0.00059911	0.00578523	-25.40697674
chr11	102320711	102320711	-	1.17E-08	3.33E-07	-34.75378788
chr11	102356878	102356878	+	3.61E-09	1.11E-07	-25.74233426
chr11	102399197	102399197	-	0	0	-42.74322169
chr11	102399211	102399211	-	0	0	-29.3460925
chr11	102399226	102399226	+	4.30E-08	1.12E-06	-40.79016681
chr11	102399422	102399422	-	3.10E-07	7.01E-06	-25.46461473
chr11	102399483	102399483	+	0	0	-39.47368421
chr11	102399484	102399484	-	4.49E-14	2.36E-12	-38.66322345
chr11	102399571	102399571	-	0	0	-35.89640505
chr11	102399576	102399576	-	0	0	-29.41795814
chr11	102399581	102399581	-	0	0	-28.08651768
chr11	102399586	102399586	+	1.82E-07	4.29E-06	-34.59459459
chr11	102399605	102399605	+	0.00028674	0.00311598	-29.29886408
chr11	102399629	102399629	+	0.00082295	0.00752401	-26.71232877
chr11	102399944	102399944	-	0	0	-30.01463992

chr11	102437548	102437548	-	0	0	-26.04417938
chr11	102438102	102438102	-	0.00067359	0.00637741	-28.77221993
chr11	102438657	102438657	+	0	0	-29.84018309
chr11	102438673	102438673	+	0	0	-33.23459796
chr11	102438675	102438675	+	1.55E-15	9.35E-14	-25.86376966
chr11	102438685	102438685	+	0	0	-25.18107322
chr11	102438829	102438829	-	1.44E-10	5.25E-09	-27.63684913
chr11	102465855	102465855	-	0	0	-29.49504724
chr11	102466293	102466293	+	0	0	-36.9017305
chr11	102466294	102466294	-	0	0	-35.78254986
chr11	102466304	102466304	+	0	0	-38.37826908
chr11	102466305	102466305	-	0	0	-37.83616128
chr11	102466337	102466337	-	0	0	-32.01810111
chr11	102579558	102579558	-	1.20E-09	3.92E-08	-31.46508639
chr11	102579577	102579577	-	7.17E-08	1.81E-06	-25.65433855
chr11	102609100	102609100	+	0	0	-31.16806127
chr11	102610854	102610854	+	1.39E-06	2.79E-05	-40.62835661
chr11	102611077	102611077	-	1.02E-08	2.92E-07	-28.58563652
chr11	102624403	102624403	+	0	0	-26.31529757
chr11	102624404	102624404	-	0	0	-25.41806854
chr11	102741194	102741194	+	0	0	-25.1298398
chr11	102778200	102778200	-	0	0	-25.26859405
chr11	102778235	102778235	-	0	0	-29.75262514
chr11	102778337	102778337	-	0	0	-25.4855126
chr11	102778449	102778449	-	0	0	-34.98458118
chr11	102778464	102778464	-	0	0	-29.66475096
chr11	102998605	102998605	+	8.25E-11	3.10E-09	-31.23486683
chr11	103003404	103003404	+	0	0	-26.08683552
chr11	103177375	103177375	+	0	0	-31.57517338
chr11	103191970	103191970	+	0	0	-28.57094308
chr11	103192022	103192022	-	0	0	-37.35327329
chr11	103199435	103199435	+	0	0	-25.56200223
chr11	103199436	103199436	-	0	0	-30.05153853
chr11	103199464	103199464	+	0	0	-26.66590202
chr11	103199478	103199478	-	0	0	-29.18766468
chr11	103199558	103199558	-	0	0	-27.19719292
chr11	103199566	103199566	+	1.27E-07	3.07E-06	-30.55555556
chr11	103199582	103199582	+	2.66E-11	1.06E-09	-37.24137931
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chr11	103199746	103199746	-	5.75E-10	1.96E-08	-29.03178769
chr11	103775412	103775412	-	0	0	-25.58026551

chr11	104132939	104132939	-	0.00030318	0.00326671	46.1038961
chr11	104234614	104234614	+	1.24E-07	2.99E-06	-52.98136646
chr11	104302396	104302396	-	1.11E-16	7.26E-15	-28.41170324
chr11	104302429	104302429	-	4.88E-15	2.82E-13	-25.78129117
chr11	104685641	104685641	+	0	0	-26.86973233
chr11	104685754	104685754	-	0	0	-27.80283825
chr11	105153209	105153209	-	0.00114302	0.00984682	26.45847632
chr11	105165277	105165277	+	1.34E-06	2.68E-05	-26.008354
chr11	105294124	105294124	+	0	0	-27.36670543
chr11	105294153	105294153	+	0	0	-26.95127852
chr11	105294154	105294154	-	0	0	-29.17441896
chr11	105294170	105294170	-	0	0	-26.6303395
chr11	105313404	105313404	+	0	0	-34.94710194
chr11	105313447	105313447	+	0	0	-30.18447224
chr11	105313593	105313593	-	0	0	-26.46152376
chr11	105313637	105313637	+	0	0	-32.8493179
chr11	105331886	105331886	+	3.64E-06	6.66E-05	-31.78294574
chr11	105450084	105450084	-	0.00067217	0.0063665	-25.66666667
chr11	106341453	106341453	-	1.97E-07	4.61E-06	-37.88695325
chr11	106364346	106364346	-	3.21E-07	7.24E-06	-32.26415094
chr11	106365329	106365329	+	0	0	-37.98432082
chr11	106365347	106365347	+	0	0	-40.82881737
chr11	106365352	106365352	+	0	0	-37.61728395
chr11	106365509	106365509	-	0	0	-33.95444763
chr11	106365517	106365517	+	0	0	-30.13474621
chr11	106365524	106365524	+	0	0	-32.48232672
chr11	106365576	106365576	-	0	0	-27.06689114
chr11	106595657	106595657	+	0	0	-30.43993208
chr11	106637532	106637532	+	2.50E-12	1.11E-10	-26.40198511
chr11	106637908	106637908	+	0	0	-29.95010861
chr11	106637952	106637952	+	0	0	-35.21758655
chr11	106638016	106638016	-	0	0	-37.34593838
chr11	106638026	106638026	-	0	0	-27.34241338
chr11	106742462	106742462	+	0	0	-26.01260072
chr11	106742463	106742463	-	0	0	-31.70537527
chr11	107029692	107029692	+	0	0	-25.49695721
chr11	107029709	107029709	+	0	0	-28.61531709
chr11	107029731	107029731	+	0	0	-29.27215118
chr11	107029793	107029793	-	0	0	-25.51113152
chr11	107029802	107029802	-	0	0	-27.09740827
chr11	107029807	107029807	-	0	0	-28.21989155

chr11	107341547	107341547	+	0	0	-33.98265925
chr11	107371896	107371896	+	9.73E-14	4.96E-12	-41.53495441
chr11	107546589	107546589	+	0	0	-40.11446251
chr11	107546590	107546590	-	0	0	-38.10311552
chr11	107546630	107546630	+	0	0	-46.65716203
chr11	107676675	107676675	-	2.92E-09	9.03E-08	-26.19755066
chr11	107676722	107676722	-	1.26E-10	4.64E-09	-25.82754584
chr11	107676756	107676756	+	0	0	-25.04485537
chr11	108210152	108210152	-	0	0	-32.9289001
chr11	108342001	108342001	-	6.56E-09	1.93E-07	-38.08108108
chr11	109471404	109471404	+	1.95E-11	7.88E-10	-33.71569951
chr11	109569194	109569194	-	0	0	-33.16934404
chr11	110436995	110436995	+	0	0	-26.32881746
chr11	112197829	112197829	+	0	0	-35.70323488
chr11	112197833	112197833	+	0	0	-32.47834777
chr11	112197894	112197894	-	0	0	-40.49914334
chr11	112197907	112197907	-	0	0	-30.0897216
chr11	112197923	112197923	-	0	0	-41.50099039
chr11	113170308	113170308	-	7.82E-07	1.64E-05	-33.58153388
chr11	113192397	113192397	+	0	0	-37.96815363
chr11	113326588	113326588	+	0	0	-32.05561306
chr11	113380794	113380794	+	0	0	-31.81487529
chr11	113534378	113534378	-	0	0	-41.61585366
chr11	113621066	113621066	-	0.00018611	0.00215498	-32.94871795
chr11	113652039	113652039	-	0	0	-28.12126653
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chr11	113706417	113706417	+	0	0	-30.02164748
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chr11	113709302	113709302	+	0	0	-31.79687941
chr11	113709428	113709428	-	0	0	-29.78694592
chr11	113709502	113709502	-	8.24E-10	2.75E-08	-28.74493927
chr11	113709505	113709505	-	8.66E-12	3.63E-10	-26.04588394
chr11	113754288	113754288	+	2.33E-06	4.45E-05	-28.68779995
chr11	113754454	113754454	+	0.00046457	0.00467745	-26.35017422
chr11	113779364	113779364	+	0	0	-36.74356983
chr11	113779421	113779421	-	0	0	-32.03309693
chr11	113785920	113785920	+	0	0	-59.11778539
chr11	113785926	113785926	+	0	0	-57.13758065
chr11	113785927	113785927	-	0	0	-54.12067023

chr11	113785970	113785970	-	0	0	-57.61341204
chr11	113785976	113785976	+	2.56E-11	1.02E-09	-48.23733863
chr11	113786164	113786164	-	0	0	-55.78276796
chr11	113807280	113807280	-	0	0	-28.24395895
chr11	113807314	113807314	+	0	0	-28.73624862
chr11	113807349	113807349	+	0	0	-30.77289023
chr11	113807350	113807350	-	0	0	-37.47931737
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chr11	113807364	113807364	-	0	0	-28.41904102
chr11	113807386	113807386	+	0	0	-32.45373767
chr11	114217675	114217675	+	0	0	-27.33536585
chr11	114218628	114218628	+	1.11E-16	7.26E-15	-29.60526316
chr11	114431021	114431021	-	0.0004526	0.00457477	-27.03540967
chr11	114433668	114433668	+	3.85E-13	1.85E-11	-33.33070245
chr11	114472587	114472587	+	0	0	-29.22612855
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chr11	114485545	114485545	-	0	0	-26.17596615
chr11	114639746	114639746	-	0	0	-30.27819648
chr11	114639753	114639753	+	2.98E-14	1.59E-12	-29.00532125
chr11	114639900	114639900	-	0	0	-27.25054078
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chr11	114639927	114639927	-	0	0	-35.46986102
chr11	114639931	114639931	-	0	0	-31.29344967
chr11	114667095	114667095	-	1.41E-08	3.97E-07	-26.65369019
chr11	114667118	114667118	+	0	0	-31.03111074
chr11	114667120	114667120	+	0	0	-25.90067886
chr11	114667129	114667129	+	0	0	-34.50047609
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chr11	114667512	114667512	-	0	0	-27.69743911
chr11	114789738	114789738	+	0	0	-33.47874047
chr11	114789793	114789793	-	0	0	-26.30279786
chr11	114789817	114789817	-	0	0	-29.18473723
chr11	114790393	114790393	+	0	0	-27.00631182
chr11	114830557	114830557	+	7.96E-06	0.00013475	-25.50906243
chr11	114830566	114830566	-	5.70E-06	1.00E-04	-26.83090705
chr11	114866678	114866678	-	1.81E-05	0.00028132	-33.95372233
chr11	114866693	114866693	-	2.79E-06	5.25E-05	-32.93650794
chr11	115151984	115151984	+	3.50E-12	1.53E-10	-33.05319149
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chr11	115152027	115152027	+	2.98E-08	7.97E-07	-26.34532643

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chr11	115181747	115181747	+	2.14E-10	7.67E-09	-40.62321326
chr11	115181748	115181748	-	0	0	-27.24323858
chr11	115231549	115231549	-	0.00010579	0.00132357	-41.17344313
chr11	115231572	115231572	-	0.00065365	0.0062204	-36.23262995
chr11	115370468	115370468	-	6.66E-16	4.13E-14	-34.32089003
chr11	115436278	115436278	+	2.61E-13	1.27E-11	-25.22316502
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chr11	115766983	115766983	+	3.20E-10	1.12E-08	-27.96913796
chr11	115767199	115767199	+	0.0003638	0.00380932	-30.70175439
chr11	115797241	115797241	+	2.31E-12	1.03E-10	-32.91102276
chr11	115801071	115801071	+	0	0	-51.04120931
chr11	115801081	115801081	+	0	0	-50.99255121
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chr11	115801116	115801116	+	8.87E-11	3.32E-09	-40.908414
chr11	115801190	115801190	-	0	0	-29.65175061
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chr11	115801229	115801229	-	0	0	-34.5821359
chr11	115801236	115801236	+	4.47E-08	1.16E-06	-43.46153846
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chr11	115801262	115801262	+	0	0	-33.49129555
chr11	115801263	115801263	-	1.71E-05	0.00026789	-35.03662068
chr11	115801291	115801291	+	0	0	-34.35678826
chr11	115809480	115809480	+	0	0	-36.50071681
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chr11	115809582	115809582	+	3.02E-05	0.00044248	-38.58695652
chr11	115809772	115809772	-	0.00042064	0.00430206	-33.19148936
chr11	115809774	115809774	-	0.00046857	0.00471097	-33.4469697
chr11	115809798	115809798	-	1.10E-10	4.08E-09	-57.44047619
chr11	115810613	115810613	+	1.50E-05	0.00023824	-38.14035088
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chr11	115883737	115883737	-	0	0	-26.59200787
chr11	115886785	115886785	+	0	0	36.70351647
chr11	115975556	115975556	+	9.57E-08	2.36E-06	-25.07895597
chr11	115975785	115975785	-	2.44E-15	1.44E-13	-25.12249509
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chr11	115989748	115989748	+	0	0	-29.62432367
chr11	115989762	115989762	+	0	0	-28.31300253
chr11	115989792	115989792	+	0	0	-34.0972443

chr11	115989949	115989949	-	0	0	-26.41286626
chr11	116101702	116101702	+	0	0	-29.87350256
chr11	116103805	116103805	-	1.56E-08	4.35E-07	-34.53358209
chr11	116103816	116103816	-	3.70E-06	6.76E-05	-31.39372822
chr11	116103846	116103846	-	0.00023936	0.00267163	-25.24905531
chr11	116106339	116106339	-	0	0	-52.54862445
chr11	116106375	116106375	-	0	0	-58.45640003
chr11	116106384	116106384	-	0	0	-51.65782493
chr11	116106389	116106389	+	0	0	-55.69105136
chr11	116106406	116106406	+	0	0	-50.8037794
chr11	116106420	116106420	+	0	0	-52.86136312
chr11	116106451	116106451	-	0	0	-30.51640446
chr11	116106482	116106482	+	0	0	-31.16186478
chr11	116106483	116106483	-	0	0	-33.52345539
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chr11	116106667	116106667	-	0	0	-41.90705272
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chr11	116107380	116107380	+	0	0	-36.81525256
chr11	116107884	116107884	+	2.41E-05	0.00036294	-26.25492126
chr11	116107912	116107912	+	1.97E-07	4.61E-06	-26.2592176
chr11	116108051	116108051	-	0	0	-25.18270018
chr11	116108260	116108260	-	3.50E-06	6.44E-05	-38.77849211
chr11	116108324	116108324	+	0	0	-30.91631653
chr11	116108332	116108332	+	0	0	-34.66415678
chr11	116108337	116108337	+	0	0	-25.9116998
chr11	116127410	116127410	+	1.28E-07	3.10E-06	-28.61744621
chr11	116127580	116127580	-	1.63E-06	3.22E-05	-25.91194969
chr11	116222982	116222982	+	0.00016961	0.00198964	-25.90339233
chr11	116223248	116223248	+	2.76E-13	1.35E-11	-25.4272097
chr11	116223268	116223268	+	5.55E-16	3.46E-14	-27.173957
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chr11	116334534	116334534	+	0	0	-28.87179325
chr11	116431342	116431342	+	0.00016127	0.00190545	-31.15808824
chr11	116456667	116456667	-	0	0	30.32195874
chr11	116498731	116498731	-	0	0	-25.92616245

chr11	116498798	116498798	-	0	0	-29.42687944
chr11	116498831	116498831	-	0	0	-27.28934366
chr11	116498862	116498862	-	0	0	-26.10231211
chr11	116515667	116515667	-	0	0	-44.05272942
chr11	116515786	116515786	-	0	0	-27.24227221
chr11	116530832	116530832	+	2.54E-08	6.87E-07	-25.78726723
chr11	116589439	116589439	+	5.47E-05	0.00074571	-41.47286822
chr11	116589711	116589711	-	0.00045491	0.00459429	-26.11111111
chr11	116643915	116643915	-	2.42E-14	1.31E-12	-30.5279736
chr11	116644190	116644190	+	0	0	-33.68279855
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chr11	116647470	116647470	-	1.36E-12	6.19E-11	-37.2694048
chr11	116652839	116652839	-	2.44E-09	7.65E-08	-42.49367089
chr11	116652879	116652879	-	4.00E-15	2.32E-13	-57.2988068
chr11	116680675	116680675	+	0	0	-25.54782096
chr11	116680676	116680676	-	1.25E-10	4.61E-09	-28.80990634
chr11	116695010	116695010	-	3.33E-15	1.95E-13	-25.90571931
chr11	116695219	116695219	-	1.82E-07	4.28E-06	-25.10262726
chr11	116695221	116695221	+	0	0	-25.96353087
chr11	116695225	116695225	+	0	0	-28.79547081
chr11	116695426	116695426	-	2.12E-11	8.50E-10	-36.17868361
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chr11	116814612	116814612	+	4.92E-09	1.47E-07	-45.82417582
chr11	116827532	116827532	+	0	0	-27.59013125
chr11	116827537	116827537	+	0	0	-34.04120385
chr11	116827546	116827546	+	0	0	-32.02806758
chr11	116827610	116827610	-	0	0	-42.65141053
chr11	116827724	116827724	+	0	0	-31.03096992
chr11	116939753	116939753	+	0	0	-28.56708502
chr11	116939788	116939788	+	0	0	-27.12483339
chr11	116939899	116939899	-	3.54E-09	1.08E-07	-25.70842201
chr11	117003860	117003860	+	2.78E-11	1.10E-09	-25.01478415
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chr11	117091964	117091964	+	0	0	-29.38021118
chr11	117091983	117091983	+	0	0	-28.5068465
chr11	117092073	117092073	+	0	0	-29.05054523



chr11	117092074	117092074	-	0	0	-25.91995457
chr11	117092107	117092107	+	0	0	-40.29913335
chr11	117092229	117092229	-	0	0	-41.80790073
chr11	117092236	117092236	-	0	0	-39.93365027
chr11	117121295	117121295	+	0	0	-39.40631279
chr11	117121315	117121315	+	0	0	-30.44112154
chr11	117195421	117195421	-	6.11E-05	0.00082297	26.24052004
chr11	117199315	117199315	-	0	0	-27.98750214
chr11	117222937	117222937	-	5.61E-05	0.00076288	-40.79254079
chr11	117231702	117231702	-	1.68E-08	4.68E-07	-26.37096774
chr11	117232265	117232265	+	0	0	-27.41229235
chr11	117232276	117232276	+	0	0	-28.50791783
chr11	117232283	117232283	+	0	0	-29.79447737
chr11	117232290	117232290	+	0	0	-28.8286722
chr11	117232302	117232302	+	0	0	-26.55971091
chr11	117232334	117232334	-	0	0	-30.95610275
chr11	117232336	117232336	-	0	0	-31.53351921
chr11	117232359	117232359	-	0	0	-29.52406309
chr11	117232364	117232364	-	0	0	-25.34761859
chr11	117233025	117233025	-	5.02E-08	1.30E-06	-36.42435808
chr11	117233036	117233036	-	5.32E-11	2.04E-09	-44.31818182
chr11	117233071	117233071	+	0	0	-31.29281949
chr11	117233072	117233072	-	0	0	-29.98829092
chr11	117233094	117233094	+	0	0	-35.62412127
chr11	117233095	117233095	-	0	0	-30.82349532
chr11	117233120	117233120	+	0	0	-26.6890686
chr11	117264807	117264807	-	1.03E-06	2.12E-05	-28.28516378
chr11	117264840	117264840	-	4.67E-10	1.61E-08	-36.59839156
chr11	117312842	117312842	+	1.51E-07	3.61E-06	-28.03577948
chr11	117317859	117317859	-	0	0	-27.04007139
chr11	117337917	117337917	+	0	0	-27.23386828
chr11	117345809	117345809	-	2.75E-14	1.48E-12	-29.33333333
chr11	117345822	117345822	-	0	0	-33.38108883
chr11	117345912	117345912	-	0	0	-33.93166151
chr11	117371627	117371627	-	0	0	-27.32037132
chr11	117425867	117425867	+	6.55E-15	3.73E-13	-29.69654199
chr11	117484322	117484322	-	0	0	-41.686573
chr11	117484355	117484355	+	0	0	-32.66581002
chr11	117484356	117484356	-	0	0	-31.32534328
chr11	117484404	117484404	+	0	0	-40.53381963
chr11	117540362	117540362	-	0	0	-26.05295022

chr11	117626992	117626992	-	0	0	-26.17594088
chr11	117779167	117779167	+	0	0	-27.75270129
chr11	117836500	117836500	+	0	0	-33.60417702
chr11	117863690	117863690	-	0	0	-25.46879477
chr11	117870464	117870464	-	5.29E-06	9.34E-05	-26.94435225
chr11	117870473	117870473	+	0	0	-35.25859873
chr11	117889059	117889059	+	0	0	-33.13818688
chr11	117889060	117889060	-	0	0	-27.72864338
chr11	117889320	117889320	-	0	0	-46.78384572
chr11	117889329	117889329	-	0	0	-31.19037564
chr11	117889335	117889335	-	0	0	-27.22526408
chr11	117892645	117892645	-	0.00078346	0.00722438	-30.39215686
chr11	117930559	117930559	+	0	0	-30.07736408
chr11	117930580	117930580	+	0	0	-33.43285749
chr11	117930581	117930581	-	0	0	-32.24200681
chr11	117930620	117930620	-	0	0	-35.78297095
chr11	117930629	117930629	-	0	0	-25.69840535
chr11	117963182	117963182	+	0	0	-33.04439191
chr11	117967759	117967759	+	0	0	-46.62827994
chr11	117967787	117967787	+	4.44E-15	2.57E-13	-47.53968254
chr11	117967788	117967788	-	1.11E-16	7.26E-15	-44.29046195
chr11	117967795	117967795	+	2.04E-14	1.11E-12	-45.72739187
chr11	117967799	117967799	+	0	0	-62.79161206
chr11	117967808	117967808	+	0	0	-54.42988204
chr11	117975578	117975578	+	0	0	-27.06603872
chr11	117975579	117975579	-	0	0	-25.25307809
chr11	117975628	117975628	+	0	0	-32.45420466
chr11	118424780	118424780	+	0	0	-25.7213407
chr11	118424848	118424848	-	0	0	-38.55385294
chr11	118424883	118424883	-	0	0	-36.14069387
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chr11	118480033	118480033	+	0	0	-26.3321856
chr11	118503730	118503730	+	1.49E-07	3.56E-06	-29.19047619
chr11	119007649	119007649	-	0	0	-26.52371293
chr11	119007856	119007856	-	5.62E-10	1.91E-08	-27.37152889
chr11	119007878	119007878	+	0	0	-26.86141278
chr11	119037551	119037551	-	0	0	-37.07120064
chr11	119037569	119037569	-	2.54E-12	1.13E-10	-35.34104507
chr11	119037573	119037573	-	1.91E-11	7.70E-10	-31.79601788
chr11	119058817	119058817	-	8.99E-07	1.87E-05	-30.22595528
chr11	119078822	119078822	+	0	0	-33.13593146

chr11	119078872	119078872	+	0	0	-34.72633461
chr11	119078924	119078924	+	0	0	-34.90773726
chr11	119078925	119078925	-	2.38E-12	1.06E-10	-31.94248826
chr11	119078947	119078947	+	0	0	-28.93639909
chr11	119078948	119078948	-	3.42E-11	1.34E-09	-31.57392687
chr11	119078962	119078962	-	2.31E-08	6.30E-07	-25.39163574
chr11	119079636	119079636	+	0	0	-34.43291641
chr11	119079686	119079686	-	0	0	-34.40235537
chr11	119083503	119083503	+	0	0	-32.35291408
chr11	119083504	119083504	-	1.15E-06	2.35E-05	-28.07051437
chr11	119105902	119105902	-	0	0	-29.59429948
chr11	119111704	119111704	-	0.00085531	0.00776726	-37.10144928
chr11	119127330	119127330	+	0	0	-42.18905473
chr11	119130157	119130157	+	1.42E-06	2.84E-05	-29.05330463
chr11	119134649	119134649	-	6.78E-06	0.00011679	-28.10559006
chr11	119198894	119198894	-	3.11E-05	0.00045404	-27.05299942
chr11	119249065	119249065	-	9.82E-06	0.00016278	-28.77713303
chr11	119314820	119314820	-	0.00043233	0.00440159	-25.64102564
chr11	119369032	119369032	+	6.79E-07	1.44E-05	-27.93103448
chr11	119374119	119374119	+	3.64E-08	9.62E-07	-37.38636364
chr11	119544037	119544037	+	3.00E-06	5.59E-05	-37.62803235
chr11	119912993	119912993	+	1.63E-12	7.38E-11	-31.95166116
chr11	119913229	119913229	-	0.00028578	0.00310731	-36.25336927
chr11	119932667	119932667	-	2.34E-05	0.00035381	-27.95665393
chr11	119955803	119955803	-	4.04E-05	0.00057285	44
chr11	120012008	120012008	+	1.44E-05	0.0002286	-39.61538462
chr11	120012027	120012027	+	0.00033819	0.00358299	-31.90394511
chr11	120019957	120019957	+	1.11E-16	7.26E-15	-25.96424295
chr11	120020045	120020045	-	0	0	-27.47804878
chr11	120046685	120046685	+	0.00089279	0.00804722	-29.09090909
chr11	120046706	120046706	+	3.08E-08	8.22E-07	-47.95918367
chr11	120046707	120046707	-	2.57E-05	0.00038343	-36.42533937
chr11	120046710	120046710	-	0.00085737	0.00778274	-33.49429324
chr11	120046739	120046739	+	0	0	-31.59038662
chr11	120169285	120169285	+	6.57E-07	1.40E-05	-26.19916908
chr11	120169286	120169286	-	2.39E-09	7.50E-08	-25.80352845
chr11	120169307	120169307	+	5.57E-11	2.13E-09	-34.30510178
chr11	120169319	120169319	+	1.11E-16	7.26E-15	-38.61654135
chr11	120184985	120184985	+	0	0	-43.99779736
chr11	120184993	120184993	+	4.07E-14	2.15E-12	-31.69603524
chr11	120185021	120185021	+	0	0	-41.18888688

chr11	120185023	120185023	+	0	0	-44.21460177
chr11	120185144	120185144	-	0	0	-37.19261803
chr11	120185168	120185168	-	0	0	-28.12334154
chr11	120186213	120186213	-	0	0	-38.2205029
chr11	120186426	120186426	-	2.99E-05	0.00043913	-38.36477987
chr11	120186441	120186441	-	1.13E-06	2.30E-05	-41.34615385
chr11	120186822	120186822	+	1.59E-10	5.78E-09	-33.9193825
chr11	120190981	120190981	+	6.15E-07	1.32E-05	-26.19516003
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chr11	120199957	120199957	-	0	0	-38.2378163
chr11	120199987	120199987	+	0	0	-32.61465211
chr11	120199995	120199995	+	0	0	-26.21899577
chr11	120200068	120200068	+	0	0	-45.55695248
chr11	120200069	120200069	-	0	0	-38.08012094
chr11	120200113	120200113	+	0	0	-45.97618635
chr11	120221356	120221356	-	3.33E-16	2.11E-14	-27.50578399
chr11	120225954	120225954	-	4.53E-13	2.16E-11	-38.3668412
chr11	120225998	120225998	+	6.66E-16	4.13E-14	-28.90478186
chr11	120239028	120239028	-	0	0	-38.32270428
chr11	120239992	120239992	-	0.00035268	0.00371064	-33.33333333
chr11	120240003	120240003	-	4.38E-06	7.88E-05	-48.14814815
chr11	120240033	120240033	-	4.52E-06	8.10E-05	-48.27586207
chr11	120241012	120241012	+	0	0	-52.75997151
chr11	120241023	120241023	+	0	0	-53.75940187
chr11	120241024	120241024	-	0	0	-50.04389709
chr11	120241046	120241046	+	0	0	-49.53653697
chr11	120241047	120241047	-	0	0	-53.89327774
chr11	120241052	120241052	+	0	0	-54.55235716
chr11	120241059	120241059	+	0	0	-47.65078671
chr11	120241061	120241061	+	0	0	-50.43094363
chr11	120241065	120241065	+	0	0	-47.20097324
chr11	120241156	120241156	-	0	0	-37.8313253
chr11	120241164	120241164	+	0	0	-35.18116006
chr11	120241165	120241165	-	0	0	-45.45714286
chr11	120241183	120241183	+	0	0	-48.57335367
chr11	120241184	120241184	-	0	0	-57.57202659
chr11	120241197	120241197	+	0	0	-48.737661
chr11	120241198	120241198	-	0	0	-49.02517294
chr11	120241202	120241202	+	0	0	-35.40562816
chr11	120241203	120241203	-	0	0	-37.32605301

chr11	120241209	120241209	+	0	0	-47.65256102
chr11	120241210	120241210	-	0	0	-47.50687984
chr11	120241248	120241248	-	0	0	-48.8492144
chr11	120269847	120269847	-	6.39E-10	2.16E-08	-30.21423021
chr11	120292815	120292815	+	0.00100802	0.00888933	-25.13607125
chr11	120306731	120306731	-	0	0	-33.59142652
chr11	120311384	120311384	-	4.25E-10	1.47E-08	-27.47744906
chr11	120350874	120350874	+	4.39E-14	2.31E-12	-33.8042588
chr11	120351043	120351043	-	1.96E-13	9.73E-12	-27.24358974
chr11	120519875	120519875	+	0	0	-25.33134204
chr11	120520027	120520027	-	0	0	-28.64573216
chr11	120647673	120647673	+	0.00037642	0.00392131	-35.45597484
chr11	120647959	120647959	+	8.05E-10	2.69E-08	-31.8128655
chr11	120666727	120666727	+	7.29E-14	3.77E-12	-26.64230962
chr11	120763576	120763576	+	0	0	-28.43989909
chr11	120949519	120949519	-	0	0	-32.69151139
chr11	120949525	120949525	-	0	0	-34.83812529
chr11	120958147	120958147	+	0	0	-32.22719022
chr11	120958184	120958184	+	0	0	-26.33320785
chr11	121014940	121014940	+	1.38E-09	4.48E-08	-35
chr11	121014946	121014946	+	1.15E-13	5.82E-12	-40.94373866
chr11	121014966	121014966	+	2.00E-11	8.04E-10	-39.11166806
chr11	121830323	121830323	-	0	0	-26.93574427
chr11	121830460	121830460	+	0	0	-26.74128853
chr11	121830471	121830471	+	0	0	-29.91329902
chr12	3366032	3366032	+	0	0	-30.35879536
chr12	3366089	3366089	-	0	0	-28.04572502
chr12	3366123	3366123	-	7.77E-16	4.79E-14	-25.77739409
chr12	3550295	3550295	+	1.37E-11	5.62E-10	-32.12814645
chr12	3550306	3550306	+	4.08E-07	9.02E-06	-27.071331
chr12	3550462	3550462	-	0	0	-37.35277931
chr12	3550496	3550496	-	0	0	-33.86979167
chr12	3871756	3871756	+	0	0	-29.60502972
chr12	3871776	3871776	+	0	0	-31.49163476
chr12	3871777	3871777	-	0	0	-30.56171023
chr12	3871919	3871919	-	0	0	-26.07923912
chr12	3883879	3883879	-	2.87E-11	1.14E-09	-44.04008439
chr12	3917578	3917578	-	0	0	-27.43601257
chr12	4055378	4055378	-	0.00026519	0.00291668	-27.1541502
chr12	4133995	4133995	+	0	0	-32.54893847
chr12	4133996	4133996	-	0	0	-34.17510756

chr12	4134005	4134005	+	1.40E-07	3.36E-06	-28.97179891
chr12	4134006	4134006	-	0	0	-30.99435536
chr12	4188749	4188749	+	9.18E-05	0.00117098	-29.40350877
chr12	4188776	4188776	+	8.62E-06	0.00014491	-34.42671395
chr12	4665148	4665148	-	8.14E-09	2.37E-07	-27.32138079
chr12	4916695	4916695	+	1.09E-13	5.55E-12	-25.81699346
chr12	8304131	8304131	+	0.00081677	0.00747729	-25.79113924
chr12	8304153	8304153	+	4.64E-05	0.00064606	-31.16902457
chr12	8341227	8341227	+	0	0	-31.00883594
chr12	8341228	8341228	-	0	0	-35.96434823
chr12	8341263	8341263	-	0	0	-25.98022034
chr12	8447369	8447369	+	0	0	-30.2891591
chr12	8447370	8447370	-	0	0	-29.24578622
chr12	8477956	8477956	-	2.27E-08	6.20E-07	-30.07270324
chr12	8500927	8500927	-	1.87E-09	5.94E-08	-36.0641093
chr12	8500933	8500933	-	1.11E-16	7.26E-15	-46.98826734
chr12	8500947	8500947	-	1.77E-10	6.39E-09	-36.61175969
chr12	8773504	8773504	+	0	0	-36.30827094
chr12	8807807	8807807	+	0	0	-26.87496531
chr12	8807977	8807977	-	0	0	-39.85532033
chr12	8818105	8818105	-	0	0	-25.19567535
chr12	8912977	8912977	-	2.30E-05	0.00034838	-28.57142857
chr12	8913035	8913035	-	0	0	-27.61845559
chr12	8913045	8913045	+	0	0	-25.04612393
chr12	8913076	8913076	+	0	0	-25.71807432
chr12	8913083	8913083	+	0	0	-28.81569138
chr12	8913088	8913088	+	0	0	-30.20847037
chr12	8913116	8913116	+	0	0	-26.13520408
chr12	9575725	9575725	-	2.25E-08	6.14E-07	-43.67363027
chr12	11198046	11198046	-	3.44E-11	1.35E-09	-27.86002439
chr12	12541663	12541663	+	3.71E-11	1.45E-09	-30.28139656
chr12	12552030	12552030	-	0	0	-28.72410608
chr12	12581972	12581972	-	0	0	-32.56497978
chr12	12680480	12680480	+	0	0	-25.85194376
chr12	12680555	12680555	+	0	0	-35.19944755
chr12	12680556	12680556	-	0	0	-26.69114839
chr12	12680565	12680565	+	0	0	-25.32084885
chr12	12685096	12685096	+	0	0	-29.17784843
chr12	12685196	12685196	+	2.30E-11	9.20E-10	-26.20803913
chr12	12685224	12685224	+	5.27E-11	2.03E-09	-26.08955939
chr12	12725178	12725178	+	0	0	-34.43813457

chr12	12725223	12725223	+	0	0	-32.65029273
chr12	12725275	12725275	-	0	0	-31.15135618
chr12	12725278	12725278	-	0	0	-30.64359344
chr12	12787794	12787794	+	1.28E-05	0.00020655	-29.32565789
chr12	12787822	12787822	+	7.15E-06	0.00012239	-28.90682318
chr12	12787824	12787824	+	1.35E-07	3.25E-06	-39.37728938
chr12	12787825	12787825	-	0	0	-43.20133527
chr12	12787874	12787874	-	0	0	-38.60066834
chr12	12810930	12810930	+	2.67E-09	8.30E-08	-39.28747737
chr12	12840874	12840874	+	5.82E-14	3.03E-12	-25.71967441
chr12	12841049	12841049	-	2.00E-13	9.89E-12	-30.29537802
chr12	12841235	12841235	-	0	0	-29.02894208
chr12	12842288	12842288	+	0	0	-30.15474482
chr12	12842341	12842341	-	0	0	-32.4401503
chr12	12904619	12904619	+	0	0	-38.59609716
chr12	12904655	12904655	+	0	0	-34.00286555
chr12	12904740	12904740	-	0	0	-51.7997964
chr12	12904760	12904760	-	0	0	-32.65298003
chr12	12904776	12904776	-	0	0	-45.5961518
chr12	12904788	12904788	+	6.74E-06	0.00011606	-36.58170915
chr12	12904789	12904789	-	0	0	-42.18684598
chr12	12904791	12904791	+	7.14E-05	0.00094136	-34.27991886
chr12	12904799	12904799	+	5.60E-08	1.44E-06	-51.68067227
chr12	12904803	12904803	+	1.03E-09	3.40E-08	-55.31475748
chr12	12904812	12904812	+	1.66E-07	3.92E-06	-45.03657262
chr12	14455852	14455852	-	9.31E-07	1.93E-05	45.83333333
chr12	16056918	16056918	-	6.00E-09	1.78E-07	-26.2301484
chr12	16580614	16580614	+	0	0	-28.29259421
chr12	16789800	16789800	+	2.85E-06	5.34E-05	-26.60408163
chr12	17002323	17002323	-	0	0	-30.27329184
chr12	17727798	17727798	-	0	0	-36.71416175
chr12	17727828	17727828	-	0	0	-26.85166809
chr12	17728258	17728258	+	0	0	-41.39699381
chr12	17728259	17728259	-	0	0	-34.08764747
chr12	17728278	17728278	+	0	0	-30.54010629
chr12	17728279	17728279	-	0	0	-31.56951312
chr12	19044174	19044174	+	1.25E-13	6.30E-12	25.33631204
chr12	19704042	19704042	+	0	0	27.91156061
chr12	19704463	19704463	+	0	0	27.29447976
chr12	21134450	21134450	+	8.31E-09	2.41E-07	-27.39130435
chr12	21136074	21136074	-	3.00E-07	6.80E-06	-36.77777778

chr12	21136118	21136118	-	1.14E-09	3.73E-08	-42.29922992
chr12	21164401	21164401	+	0	0	-29.82328815
chr12	21164407	21164407	+	0	0	-28.18744723
chr12	21164435	21164435	+	0	0	-29.05980667
chr12	21164555	21164555	-	0	0	-26.59269727
chr12	21199352	21199352	-	3.87E-13	1.86E-11	-25.22154197
chr12	24699878	24699878	+	6.15E-09	1.82E-07	-38.09334657
chr12	24777073	24777073	+	0	0	-28.72053872
chr12	25092851	25092851	+	0	0	-26.37450524
chr12	25093254	25093254	-	1.29E-14	7.13E-13	-35.64382139
chr12	25125384	25125384	+	0	0	-25.29468122
chr12	25125556	25125556	-	0	0	-38.15861991
chr12	25215437	25215437	-	1.02E-09	3.37E-08	-26.46115218
chr12	25215479	25215479	+	7.19E-09	2.11E-07	-25.6292637
chr12	25215480	25215480	-	0	0	-26.83288007
chr12	25219560	25219560	-	3.33E-16	2.11E-14	-31.59490869
chr12	25267759	25267759	-	0.00024899	0.00276294	-27.25040917
chr12	26068160	26068160	+	0	0	-29.97293307
chr12	26068165	26068165	+	0	0	-27.16022232
chr12	26068197	26068197	+	0	0	-31.44524443
chr12	28122956	28122956	+	5.11E-08	1.32E-06	-30.21641486
chr12	28122965	28122965	+	6.37E-11	2.42E-09	-36.35183382
chr12	28552073	28552073	+	4.32E-05	0.00060743	-28.04915515
chr12	28552075	28552075	+	2.40E-06	4.57E-05	-30.15873016
chr12	28552084	28552084	+	5.72E-06	0.00010027	-28.0646844
chr12	28590647	28590647	-	4.04E-10	1.40E-08	-28.96170962
chr12	29083956	29083956	+	1.12E-05	0.00018295	-33.49021084
chr12	32204028	32204028	-	0	0	-31.47022678
chr12	32989920	32989920	-	0	0	-25.12024303
chr12	33033441	33033441	+	0	0	-26.70766559
chr12	33033519	33033519	+	0	0	-32.56840247
chr12	33034884	33034884	+	3.15E-10	1.10E-08	-30.07816269
chr12	33035064	33035064	-	9.99E-16	6.10E-14	-26.88451334
chr12	33214347	33214347	+	0	0	-38.82947228
chr12	33214472	33214472	-	0	0	-25.11022535
chr12	33395296	33395296	-	1.11E-16	7.26E-15	-27.25250278
chr12	34248243	34248243	+	0.0009116	0.00818586	30.60897436
chr12	34351611	34351611	+	1.33E-05	0.00021387	-30.51599587
chr12	35178957	35178957	+	1.03E-09	3.39E-08	-38.403452
chr12	41315212	41315212	-	0	0	-33.02380952
chr12	42609460	42609460	-	0.00010896	0.00135738	38.0952381



chr12	44328485	44328485	+	4.63E-06	8.28E-05	-27.51649287
chr12	44328508	44328508	+	8.90E-07	1.85E-05	-29.20185811
chr12	45073424	45073424	+	4.66E-06	8.33E-05	-25.71428571
chr12	49400270	49400270	+	2.94E-05	0.00043247	-25.85678462
chr12	52129861	52129861	+	5.68E-12	2.42E-10	-33.50820472
chr12	52130054	52130054	-	8.45E-12	3.54E-10	-25.9350197
chr12	52745316	52745316	-	0.00017751	0.00206914	-31.94254446
chr12	52868183	52868183	+	0	0	-30.02400065
chr12	52944464	52944464	+	2.15E-05	0.00032814	-30.43141593
chr12	54201757	54201757	-	1.34E-06	2.69E-05	-49.50265252
chr12	55438503	55438503	-	4.04E-09	1.23E-07	-26.54484993
chr12	55493426	55493426	-	0	0	-31.86196244
chr12	55493438	55493438	-	0	0	-36.1136651
chr12	55493466	55493466	+	4.76E-07	1.04E-05	-34.13945278
chr12	55493467	55493467	-	0	0	-32.60890563
chr12	55493708	55493708	-	1.74E-09	5.55E-08	-30.3907522
chr12	56951906	56951906	+	8.73E-07	1.82E-05	36.66666667
chr12	58269245	58269245	-	0	0	-35.49586265
chr12	69130148	69130148	+	3.00E-06	5.60E-05	-26.25636672
chr12	69446644	69446644	-	0	0	-31.39843244
chr12	69446653	69446653	-	4.79E-13	2.28E-11	-26.76504434
chr12	69446659	69446659	-	2.64E-14	1.42E-12	-27.39920458
chr12	69524942	69524942	-	0	0	-25.86339688
chr12	70266414	70266414	+	1.11E-16	7.26E-15	-30.1933696
chr12	70670747	70670747	-	1.11E-16	7.26E-15	-26.91397468
chr12	70967756	70967756	-	1.84E-11	7.45E-10	-27.75946844
chr12	71006347	71006347	-	0	0	-42.16101653
chr12	71111602	71111602	-	0.00012329	0.00151056	-36.08597285
chr12	71111614	71111614	-	4.24E-05	0.00059708	-39.45409429
chr12	71301458	71301458	-	2.09E-13	1.03E-11	-26.76861442
chr12	71301627	71301627	-	0	0	-29.61972824
chr12	72082659	72082659	-	0	0	-31.59922929
chr12	72082661	72082661	-	0	0	-32.01186797
chr12	72082668	72082668	-	0	0	-32.39841176
chr12	72082676	72082676	-	0	0	-33.42643125
chr12	72750179	72750179	+	0	0	-30.34570917
chr12	73345333	73345333	+	0	0	-41.88311688
chr12	73345367	73345367	-	6.93E-14	3.58E-12	-27.56616394
chr12	73367628	73367628	-	1.07E-13	5.41E-12	-25.41518865
chr12	73408353	73408353	+	0	0	-25.33439184
chr12	73408382	73408382	+	0	0	-26.83417033

chr12	73408383	73408383	-	0	0	-29.73641949
chr12	73440855	73440855	-	2.03E-06	3.93E-05	-25.05537099
chr12	73537775	73537775	+	0	0	-28.12870931
chr12	73537809	73537809	+	0	0	-27.15326942
chr12	73537810	73537810	-	0	0	-32.15666123
chr12	73547798	73547798	-	7.67E-07	1.61E-05	-35.36585366
chr12	73547834	73547834	-	4.03E-09	1.22E-07	-29.04505888
chr12	73547940	73547940	-	2.22E-16	1.43E-14	-25.04047491
chr12	73636990	73636990	-	0	0	-28.48521137
chr12	73793474	73793474	-	0	0	-25.2358804
chr12	75845224	75845224	+	4.56E-13	2.18E-11	-26.38026225
chr12	75845243	75845243	+	0	0	-36.13451087
chr12	75845244	75845244	-	5.45E-13	2.58E-11	-36.92397388
chr12	75845259	75845259	-	1.34E-11	5.49E-10	-32.87715196
chr12	76081905	76081905	-	2.59E-13	1.27E-11	-31.39802683
chr12	76086324	76086324	-	1.38E-08	3.88E-07	-36.0589403
chr12	76215349	76215349	-	0.00015395	0.00183046	-28.91130567
chr12	76216864	76216864	-	0	0	-33.07526965
chr12	76216904	76216904	-	0	0	-28.52827249
chr12	76417756	76417756	-	0	0	-25.66986181
chr12	76485650	76485650	-	1.08E-11	4.46E-10	-29.89497374
chr12	76485722	76485722	-	8.44E-09	2.45E-07	-30.28675916
chr12	76546871	76546871	+	0	0	-56.91005291
chr12	76546890	76546890	+	0	0	-55.4398827
chr12	76547057	76547057	-	7.77E-16	4.79E-14	-52.7908805
chr12	76547073	76547073	-	5.33E-15	3.06E-13	-53.5886107
chr12	76547097	76547097	-	2.92E-12	1.29E-10	-48.22666931
chr12	76547103	76547103	+	0	0	-33.98453961
chr12	76547104	76547104	-	8.64E-12	3.62E-10	-47.15886355
chr12	76547115	76547115	+	0	0	-44.05776515
chr12	76547116	76547116	-	0	0	-43.4310335
chr12	76547141	76547141	+	0	0	-37.13548952
chr12	76547142	76547142	-	0	0	-47.05616878
chr12	76547206	76547206	+	0	0	-35.27562313
chr12	76547207	76547207	-	0	0	-30.38511087
chr12	76547344	76547344	-	0	0	-32.19720192
chr12	76597987	76597987	-	3.11E-06	5.78E-05	-43.17948718
chr12	76684937	76684937	+	0	0	-27.10122079
chr12	76867729	76867729	+	0	0	-41.41191815
chr12	76926062	76926062	-	0.00043717	0.00444301	-33.33333333
chr12	77018484	77018484	+	0	0	-30.52650218

chr12	77124044	77124044	+	0	0	-28.9240174
chr12	78851347	78851347	+	0	0	-28.97687681
chr12	79797211	79797211	+	0	0	-28.43955476
chr12	79797272	79797272	-	1.11E-16	7.26E-15	-26.39748182
chr12	79848016	79848016	-	1.11E-16	7.26E-15	-27.25970018
chr12	79851454	79851454	-	1.43E-10	5.24E-09	-26.05886008
chr12	79970386	79970386	-	0	0	-42.85194851
chr12	79970393	79970393	-	0	0	-33.36265045
chr12	79970438	79970438	+	3.33E-06	6.15E-05	-35.28597147
chr12	79974787	79974787	-	2.26E-08	6.16E-07	-29.37710438
chr12	79975230	79975230	+	1.60E-10	5.80E-09	-26.69268339
chr12	80090712	80090712	-	1.89E-15	1.13E-13	-55.03567788
chr12	80131431	80131431	+	5.01E-09	1.50E-07	-31.62469136
chr12	80286047	80286047	+	0	0	-33.11510911
chr12	80923147	80923147	+	0	0	-26.58501838
chr12	80999023	80999023	+	0	0	-25.69652462
chr12	81028025	81028025	+	2.57E-06	4.87E-05	-26.77714971
chr12	81028049	81028049	+	2.13E-11	8.56E-10	-36.72032193
chr12	81485420	81485420	-	0.00017993	0.00209367	-40.71428571
chr12	81686506	81686506	-	0	0	-27.10866612
chr12	81803983	81803983	+	1.81E-06	3.55E-05	-30.90909091
chr12	81861892	81861892	+	0	0	-27.44614537
chr12	83073242	83073242	+	0	0	-34.33962264
chr12	84011545	84011545	+	5.89E-06	0.00010293	-27.99417546
chr12	84069537	84069537	-	4.43E-05	0.00062087	-43.47826087
chr12	84152709	84152709	-	0	0	-25.41289578
chr12	84178900	84178900	-	4.88E-15	2.82E-13	-38.59186747
chr12	84178927	84178927	-	9.91E-10	3.27E-08	-27.40383108
chr12	84190188	84190188	-	0	0	-35.49401164
chr12	84215960	84215960	+	0	0	-30.44985775
chr12	84671641	84671641	+	0	0	-26.73959495
chr12	84671881	84671881	-	0	0	-29.28735013
chr12	85140177	85140177	+	0.00011411	0.00141231	-36.76316707
chr12	85140205	85140205	+	2.29E-06	4.38E-05	-44.15765609
chr12	85140448	85140448	+	0	0	-25.1194542
chr12	85140514	85140514	-	0	0	-29.57637046
chr12	85140539	85140539	+	1.11E-16	7.26E-15	-35.51985659
chr12	85140540	85140540	-	8.07E-14	4.15E-12	-25.76019749
chr12	85140835	85140835	-	0	0	-26.40680684
chr12	85221607	85221607	+	0	0	-26.58623861
chr12	85289056	85289056	+	0	0	-33.00604594

chr12	85437726	85437726	-	0	0	-30.9504094
chr12	85451794	85451794	-	1.59E-07	3.79E-06	-27.42175857
chr12	85452345	85452345	+	0	0	-30.92928099
chr12	85475617	85475617	-	1.76E-10	6.38E-09	-48.86615044
chr12	85475626	85475626	-	2.13E-09	6.73E-08	-45.4180602
chr12	85475662	85475662	-	9.41E-08	2.32E-06	-31.91311612
chr12	85973433	85973433	+	9.22E-08	2.28E-06	-38.71362191
chr12	86000777	86000777	-	0	0	-31.72372387
chr12	86439927	86439927	-	1.16E-06	2.36E-05	-29.16666667
chr12	86781925	86781925	+	0	0	-30.21853928
chr12	86781942	86781942	+	0	0	-26.36763802
chr12	86801724	86801724	+	0	0	-31.20577612
chr12	86801725	86801725	-	1.29E-08	3.63E-07	-27.10581952
chr12	86830002	86830002	+	9.53E-07	1.97E-05	-27.14285714
chr12	86830021	86830021	-	0.00042028	0.00429918	-29.48717949
chr12	86881885	86881885	+	0	0	-32.08093131
chr12	86881886	86881886	-	0	0	-36.34695336
chr12	86881900	86881900	+	0	0	-29.03851892
chr12	86881953	86881953	-	0	0	-30.60417503
chr12	86881961	86881961	-	0	0	-33.80807789
chr12	86881981	86881981	+	0	0	-40.47461701
chr12	86882017	86882017	+	0	0	-53.3502502
chr12	86882122	86882122	+	0	0	-27.6752726
chr12	86882125	86882125	+	0	0	-34.9262794
chr12	86882135	86882135	+	0	0	-38.80152917
chr12	86882167	86882167	+	0	0	-46.99843681
chr12	86882168	86882168	-	0	0	-51.9965633
chr12	86882195	86882195	-	0	0	-30.50108225
chr12	86882197	86882197	+	0	0	-34.70722203
chr12	86882200	86882200	+	0	0	-34.50102803
chr12	86882214	86882214	+	0	0	-30.46960563
chr12	86882221	86882221	+	0	0	-27.35177866
chr12	86882233	86882233	+	0	0	-50.34821438
chr12	86882238	86882238	+	0	0	-30.56856187
chr12	86882293	86882293	-	0	0	-50.05350307
chr12	86882317	86882317	+	0.00054	0.00530692	-36
chr12	86882337	86882337	-	0	0	-39.63713503
chr12	86882347	86882347	+	3.47E-07	7.77E-06	-61.29032258
chr12	86882348	86882348	-	0	0	-30.36880196
chr12	86882496	86882496	+	0	0	-38.2473614
chr12	86882513	86882513	+	0	0	-42.00606431

chr12	86882659	86882659	+	1.49E-12	6.75E-11	-62.35177866
chr12	86911590	86911590	-	1.14E-09	3.74E-08	-25.68505663
chr12	86932391	86932391	+	0	0	-28.40403208
chr12	87026865	87026865	-	4.27E-06	7.70E-05	-28.70387039
chr12	91686048	91686048	-	0	0	-25.40673749
chr12	91686088	91686088	-	0	0	-31.52027676
chr12	95691584	95691584	-	7.46E-09	2.18E-07	-27.75191376
chr12	95697395	95697395	-	0	0	-30.14679977
chr12	98238673	98238673	+	1.55E-06	3.06E-05	-27.40514905
chr12	98684738	98684738	-	0	0	-25.4135713
chr12	99262479	99262479	+	0	0	-25.94915084
chr12	99285035	99285035	+	0	0	-25.75741291
chr12	99285063	99285063	+	0	0	-25.3397069
chr12	99285189	99285189	-	0	0	-31.44324229
chr12	99285193	99285193	+	0	0	-32.05343589
chr12	99294032	99294032	-	1.50E-08	4.20E-07	-72.27011494
chr12	99328806	99328806	-	0	0	-25.20670612
chr12	99330134	99330134	-	0	0	-27.61943658
chr12	99548651	99548651	+	4.36E-14	2.30E-12	-28.37787154
chr12	99953042	99953042	-	2.87E-09	8.89E-08	-36.24517375
chr12	99953062	99953062	-	1.68E-05	0.00026269	-26.00671141
chr12	99967855	99967855	-	1.17E-06	2.38E-05	-29.81099656
chr12	100223704	100223704	+	2.54E-06	4.81E-05	-45.30364372
chr12	100482504	100482504	+	0	0	-28.95580558
chr12	100482505	100482505	-	0	0	-31.40584527
chr12	100482513	100482513	+	0	0	-30.75741463
chr12	100527743	100527743	-	3.12E-05	0.00045561	-26.9930787
chr12	100529268	100529268	+	0	0	-35.52405011
chr12	100529381	100529381	-	0	0	-37.32727625
chr12	100829618	100829618	-	0.00039608	0.00409101	28
chr12	100908586	100908586	+	0	0	-28.6522025
chr12	100908594	100908594	+	0	0	-26.61508351
chr12	100908595	100908595	-	0	0	-34.28912089
chr12	100925100	100925100	+	0	0	-26.28299824
chr12	100925124	100925124	+	0	0	-26.020588
chr12	100925141	100925141	+	0	0	-29.36637361
chr12	100925251	100925251	-	0	0	-27.963293
chr12	100952566	100952566	-	0	0	-27.77995463
chr12	101012316	101012316	-	3.28E-12	1.44E-10	-25.48431383
chr12	101098030	101098030	+	8.85E-07	1.84E-05	-29.1372549
chr12	102284589	102284589	+	0	0	-26.52961179

chr12	102368467	102368467	+	0	0	-25.33193815
chr12	102368604	102368604	+	0	0	-31.20147975
chr12	102368654	102368654	+	3.79E-08	9.99E-07	-35.09794399
chr12	102369236	102369236	+	0	0	-33.65056494
chr12	102369307	102369307	-	0	0	-31.03123252
chr12	102369342	102369342	-	0	0	-25.69531721
chr12	102426593	102426593	-	4.39E-05	0.00061633	-25.64350064
chr12	102524597	102524597	-	0	0	-28.69677484
chr12	102644228	102644228	-	0	0	-34.27472935
chr12	102644256	102644256	-	0	0	-28.4323615
chr12	102645420	102645420	-	2.46E-07	5.66E-06	-28.8465082
chr12	102685641	102685641	+	0	0	-32.84615587
chr12	102685659	102685659	+	0	0	-44.71030436
chr12	102685660	102685660	-	0	0	-40.5830395
chr12	103243699	103243699	-	4.49E-05	0.00062793	29.4991511
chr12	103300661	103300661	-	0.00031572	0.0033806	-31.81818182
chr12	103314991	103314991	-	0	0	-25.90708768
chr12	103316245	103316245	+	0.00076887	0.00711302	-29.41176471
chr12	103376172	103376172	+	1.88E-06	3.67E-05	-27.40998839
chr12	104593714	104593714	-	9.33E-05	0.00118713	-29.24466338
chr12	104793786	104793786	-	0	0	-29.44103955
chr12	104793800	104793800	-	0	0	-30.42960129
chr12	105003348	105003348	+	0.00013219	0.00160503	-49.52978056
chr12	105332850	105332850	+	4.90E-06	8.72E-05	41.51747656
chr12	105604913	105604913	-	0.00069751	0.00656137	41.25
chr12	105935301	105935301	+	9.94E-11	3.70E-09	-29.12339081
chr12	105961009	105961009	+	2.88E-10	1.01E-08	-41.87856772
chr12	105961013	105961013	+	1.02E-06	2.09E-05	-33.17073171
chr12	105961183	105961183	-	4.83E-13	2.30E-11	-26.01889339
chr12	106583379	106583379	-	0.00026613	0.00292531	-29.80085349
chr12	108119403	108119403	+	0	0	-29.96599724
chr12	108213827	108213827	+	2.05E-06	3.97E-05	-45.13888889
chr12	108219255	108219255	-	0	0	-39.29619105
chr12	108219269	108219269	-	0	0	-34.76898863
chr12	108219279	108219279	+	0	0	-37.57697258
chr12	108219280	108219280	-	0	0	-37.68432341
chr12	108219286	108219286	+	0	0	-32.78929968
chr12	108219314	108219314	+	0	0	-40.80806436
chr12	108219373	108219373	-	0	0	-42.8883949
chr12	108266009	108266009	-	0	0	-25.74590755
chr12	108266144	108266144	+	0	0	-31.55684455

chr12	108266228	108266228	-	0	0	-38.95565585
chr12	108276873	108276873	-	1.15E-07	2.80E-06	-27.34320759
chr12	108285178	108285178	+	0	0	-38.09668824
chr12	108285179	108285179	-	0	0	-33.91753676
chr12	108285183	108285183	-	0	0	-37.61315385
chr12	108285187	108285187	+	0	0	-37.06771287
chr12	108285351	108285351	+	0	0	-41.05263158
chr12	108285352	108285352	-	1.79E-10	6.46E-09	-25.44940935
chr12	108292311	108292311	+	1.44E-11	5.89E-10	-28.60331584
chr12	108292517	108292517	-	2.11E-06	4.06E-05	-32.38390093
chr12	108292547	108292547	-	1.56E-06	3.08E-05	-37.32862484
chr12	108317068	108317068	-	2.25E-12	1.00E-10	-41.01454101
chr12	108317113	108317113	-	4.60E-12	1.98E-10	-47.98165138
chr12	108352475	108352475	+	0.00024654	0.00273972	-36.47696477
chr12	108835299	108835299	-	9.91E-09	2.85E-07	-45.93544026
chr12	108835303	108835303	-	1.95E-06	3.79E-05	-34.24995593
chr12	108914146	108914146	+	4.66E-11	1.80E-09	-25.6928839
chr12	109052384	109052384	-	0	0	-30.70872096
chr12	109052565	109052565	-	0	0	-26.83376799
chr12	109448648	109448648	-	0	0	-25.48159162
chr12	109453875	109453875	-	7.59E-14	3.91E-12	-39.32539683
chr12	109453884	109453884	-	1.11E-16	7.26E-15	-37.44024798
chr12	109528870	109528870	-	3.05E-05	0.00044626	-35.14946962
chr12	109540053	109540053	+	3.02E-08	8.08E-07	-38.27349121
chr12	109540102	109540102	+	2.25E-05	0.00034158	-29.74383302
chr12	109608081	109608081	+	5.58E-14	2.92E-12	-29.7586443
chr12	110167148	110167148	-	2.99E-07	6.79E-06	-42.1875
chr12	110699430	110699430	-	0.00103365	0.0090739	-28.46497765
chr12	111028883	111028883	+	0	0	-25.09288977
chr12	111028990	111028990	+	1.35E-05	0.00021711	-34.18222977
chr12	111028991	111028991	-	0	0	-29.2744613
chr12	111029275	111029275	+	0	0	-25.24444866
chr12	111199695	111199695	-	0	0	-30.85388833
chr12	111285795	111285795	+	0	0	-27.13206665
chr12	111285809	111285809	+	0	0	-30.38765711
chr12	111285843	111285843	-	0	0	-25.6412836
chr12	111375937	111375937	+	0.0003732	0.00389294	-40.53483462
chr12	111413169	111413169	+	0	0	-43.97333747
chr12	111413170	111413170	-	0	0	-43.81387619
chr12	111413176	111413176	+	0	0	-34.98254096
chr12	111413177	111413177	-	0	0	-46.38345771

chr12	111445778	111445778	+	0	0	-49.38224406
chr12	111445792	111445792	+	0	0	-43.0290563
chr12	111445795	111445795	+	0	0	-51.41945095
chr12	111445810	111445810	+	0	0	-44.92686485
chr12	111445812	111445812	+	0	0	-50.71186199
chr12	111445816	111445816	+	0	0	-37.85470922
chr12	111445818	111445818	+	0	0	-33.0974855
chr12	111445821	111445821	+	0	0	-43.86022758
chr12	111445845	111445845	-	0	0	-53.17091611
chr12	111445848	111445848	-	0	0	-54.45087395
chr12	111445853	111445853	-	0	0	-52.09899111
chr12	111445865	111445865	-	0	0	-50.08743314
chr12	111445870	111445870	-	0	0	-55.08791752
chr12	111445878	111445878	-	0	0	-56.20781667
chr12	111445880	111445880	-	0	0	-54.17403087
chr12	111445886	111445886	-	0	0	-55.95985361
chr12	111446299	111446299	-	0	0	-25.16761649
chr12	111447300	111447300	+	3.22E-11	1.27E-09	-28.30128205
chr12	111447584	111447584	-	1.01E-06	2.07E-05	-45.65217391
chr12	111456002	111456002	+	0	0	-26.70182053
chr12	111670174	111670174	-	0	0	-27.43573001
chr12	111670578	111670578	+	2.62E-05	0.00039002	-36.77944862
chr12	111670582	111670582	+	2.75E-08	7.40E-07	-50.43290043
chr12	111670583	111670583	-	0	0	-48.78306697
chr12	111670589	111670589	-	0	0	-45.67572839
chr12	111670600	111670600	+	1.95E-10	7.03E-09	-56.49350649
chr12	111670601	111670601	-	0	0	-49.53761771
chr12	111670619	111670619	-	0	0	-39.7214698
chr12	111670627	111670627	+	0	0	-38.19610855
chr12	111670628	111670628	-	0	0	-47.95626577
chr12	111670666	111670666	+	0	0	-44.08042578
chr12	111670667	111670667	-	0	0	-44.42785503
chr12	111670669	111670669	+	7.18E-14	3.71E-12	-43.69953052
chr12	111670670	111670670	-	1.11E-16	7.26E-15	-25.80498866
chr12	111670687	111670687	+	0	0	-63.33333333
chr12	111670698	111670698	+	1.49E-14	8.19E-13	-36.61904762
chr12	111678936	111678936	-	0	0	-26.90594493
chr12	111693416	111693416	+	0	0	-41.67785542
chr12	111693424	111693424	+	0	0	-36.62729819
chr12	111693437	111693437	+	0	0	-40.42194681
chr12	111693531	111693531	-	0	0	-44.92690031



chr12	111693548	111693548	-	0	0	-33.15074496
chr12	111696348	111696348	-	2.73E-13	1.33E-11	-40.45647604
chr12	111933132	111933132	+	0	0	-29.23233216
chr12	111937372	111937372	+	9.44E-09	2.72E-07	-26.90348245
chr12	112147334	112147334	+	3.44E-13	1.66E-11	-26.36994949
chr12	112151810	112151810	+	3.91E-08	1.03E-06	-30.23820225
chr12	112155682	112155682	-	1.48E-05	0.00023544	-25.01635056
chr12	112344741	112344741	-	7.00E-08	1.77E-06	-28.98571028
chr12	112450053	112450053	+	4.77E-15	2.75E-13	-25.48541877
chr12	112472284	112472284	-	0	0	-30.81049086
chr12	112576572	112576572	-	7.42E-10	2.49E-08	-35.4220659
chr12	112576943	112576943	+	0	0	-28.72544389
chr12	112577019	112577019	+	3.33E-16	2.11E-14	-26.29035647
chr12	112577020	112577020	-	0	0	-28.47021696
chr12	112577086	112577086	-	0	0	-28.78965662
chr12	112580184	112580184	+	3.33E-16	2.11E-14	-31.25319693
chr12	112580227	112580227	+	2.33E-15	1.38E-13	-30.0811359
chr12	112652668	112652668	+	3.67E-05	0.00052545	-35.33333333
chr12	112671676	112671676	+	8.86E-06	0.00014841	-30.51295611
chr12	112701008	112701008	+	0.00092349	0.00827352	26.12903226
chr12	112701052	112701052	-	0	0	-26.84658367
chr12	112721547	112721547	+	0	0	-39.39710941
chr12	112721583	112721583	-	0	0	-35.99830929
chr12	112798083	112798083	+	3.40E-08	9.01E-07	-27.54325966
chr12	112866635	112866635	+	6.66E-16	4.13E-14	-26.5884747
chr12	112866776	112866776	-	1.51E-13	7.56E-12	-37.31206306
chr12	112866782	112866782	-	3.20E-07	7.22E-06	-25.76207681
chr12	112866790	112866790	-	1.17E-13	5.91E-12	-35.66489362
chr12	112867635	112867635	-	0.00030229	0.00325823	28.35443038
chr12	112874265	112874265	+	0.00045284	0.00457674	-47.00854701
chr12	112930315	112930315	+	1.01E-09	3.34E-08	-25.21157521
chr12	112930450	112930450	+	0	0	-28.39560655
chr12	112930451	112930451	-	0	0	-26.24778086
chr12	112930482	112930482	+	0	0	-27.81098133
chr12	112930483	112930483	-	0	0	-30.01758843
chr12	112932864	112932864	+	0	0	-26.03131765
chr12	112938149	112938149	+	0	0	-33.5499257
chr12	112938150	112938150	-	0	0	-29.91118725
chr12	112938164	112938164	+	0	0	-27.15502107
chr12	112938223	112938223	-	0	0	-29.75814095
chr12	112938963	112938963	-	0	0	-34.05221146

chr12	112938992	112938992	-	0	0	-36.2904504
chr12	112949981	112949981	+	0	0	-32.40644387
chr12	112949982	112949982	-	0	0	-38.38916319
chr12	113187990	113187990	-	0	0	-33.05699482
chr12	113188133	113188133	-	0	0	-39.62174853
chr12	113188135	113188135	-	0	0	-30.8946336
chr12	113188137	113188137	-	0	0	-44.45206132
chr12	113188145	113188145	-	0	0	-29.67190579
chr12	113188156	113188156	+	0	0	-37.21265823
chr12	113188157	113188157	-	0	0	-31.42502632
chr12	113188186	113188186	-	5.40E-14	2.82E-12	-27.73297491
chr12	117150940	117150940	-	8.88E-08	2.20E-06	-48.06451613
chr12	117760647	117760647	-	9.57E-13	4.43E-11	-32.58582503
chr12	117788685	117788685	+	7.09E-12	3.00E-10	-30.70118447
chr12	117788735	117788735	+	0	0	-27.90486367
chr12	117788858	117788858	+	0	0	-25.395189
chr12	117788871	117788871	+	0	0	-26.38288579
chr12	117788876	117788876	+	0	0	-34.9024182
chr12	117788961	117788961	-	0	0	-32.84714527
chr12	117915514	117915514	+	8.77E-10	2.91E-08	-28.34962622
chr12	118095049	118095049	+	0	0	32.06493506
chr12	118198332	118198332	+	3.35E-06	6.18E-05	-26.4571949
chr12	118520382	118520382	+	1.29E-08	3.66E-07	-32.66756635
chr12	118529567	118529567	-	0	0	-26.75642595
chr12	118530111	118530111	-	1.08E-05	0.00017769	-28.75457875
chr12	118530120	118530120	-	6.45E-06	0.0001117	-27.24857685
chr12	118703236	118703236	+	4.03E-07	8.92E-06	-26.79127726
chr13	3478912	3478912	-	0	0	-27.03488126
chr13	5832071	5832071	+	6.98E-06	0.00011976	-28.07192807
chr13	8866812	8866812	-	0	0	-30.19965644
chr13	9231574	9231574	+	3.59E-06	6.59E-05	-35.50345996
chr13	10045863	10045863	-	4.64E-10	1.59E-08	-29.20014515
chr13	10359490	10359490	+	1.57E-10	5.72E-09	-29.50881707
chr13	11716020	11716020	-	0.00031232	0.00334993	-26.47416413
chr13	12378332	12378332	-	0.00062111	0.00596126	-26.83544304
chr13	15571030	15571030	-	0	0	-26.12259857
chr13	15571040	15571040	+	1.11E-16	7.26E-15	-25.80596289
chr13	18125299	18125299	+	8.86E-13	4.11E-11	-28.00356976
chr13	18125323	18125323	+	1.79E-11	7.24E-10	-29.10229401
chr13	18218870	18218870	-	0.00020518	0.00234195	-25.76785494
chr13	19430185	19430185	+	0	0	-28.15149159

chr13	19430186	19430186	-	0	0	-28.91344045
chr13	19697752	19697752	-	0	0	-27.16863927
chr13	19697769	19697769	-	0	0	-29.71046443
chr13	19697776	19697776	-	0	0	-26.81415037
chr13	20830072	20830072	+	0.00056377	0.00550036	-27.27272727
chr13	21171352	21171352	-	1.24E-06	2.51E-05	-36.23262995
chr13	21171358	21171358	-	6.56E-09	1.93E-07	-40.3085554
chr13	21883289	21883289	+	0.00043675	0.00443954	-28.67132867
chr13	21935988	21935988	+	0	0	-29.0177566
chr13	21936035	21936035	-	0	0	-32.17291305
chr13	21982121	21982121	+	0	0	-35.0942754
chr13	21982130	21982130	+	0	0	-25.84229848
chr13	21982242	21982242	-	4.01E-14	2.12E-12	-25.63758389
chr13	22018214	22018214	+	4.32E-08	1.13E-06	-33.4890877
chr13	24521317	24521317	+	3.74E-14	1.98E-12	-31.69619311
chr13	24521322	24521322	+	0	0	-38.07434377
chr13	24955399	24955399	+	6.63E-08	1.68E-06	-28.85802469
chr13	24955617	24955617	-	1.02E-07	2.51E-06	-57.92792793
chr13	24955627	24955627	-	9.95E-06	0.00016467	-47.4801061
chr13	29356295	29356295	+	6.49E-07	1.38E-05	-26.36363636
chr13	29356300	29356300	+	4.06E-06	7.35E-05	-26.50163815
chr13	29356319	29356319	+	5.65E-09	1.68E-07	-30.60600611
chr13	29356329	29356329	+	1.84E-07	4.33E-06	-27.11591742
chr13	30722995	30722995	-	0	0	-31.12855177
chr13	30723004	30723004	-	0	0	-34.4379771
chr13	31793610	31793610	-	0.00021429	0.00243052	-27.41356084
chr13	31794591	31794591	-	9.66E-07	1.99E-05	-26.99805068
chr13	31803774	31803774	-	0	0	-28.44963306
chr13	31803783	31803783	+	0	0	-26.92307692
chr13	31803784	31803784	-	0	0	-27.36213302
chr13	31811589	31811589	+	0	0	-59.55436067
chr13	31811646	31811646	-	0	0	-58.63318087
chr13	31811650	31811650	-	0	0	-44.86326444
chr13	31811653	31811653	-	0	0	-49.6074146
chr13	31811744	31811744	+	0	0	-31.42727332
chr13	31811760	31811760	-	0	0	-41.4291084
chr13	31811764	31811764	-	0	0	-41.70135446
chr13	31811799	31811799	-	0	0	-33.16642735
chr13	31811807	31811807	+	0	0	-36.74033314
chr13	31811848	31811848	+	0	0	-29.47961227
chr13	32611921	32611921	-	0.00031889	0.0034093	-25.01075731

chr13	34102193	34102193	-	5.59E-05	0.00076085	-41.98830409
chr13	34287920	34287920	+	7.20E-06	0.00012329	-30.60728745
chr13	34287921	34287921	-	0	0	-26.86123272
chr13	34287963	34287963	+	4.00E-07	8.87E-06	-34.77564103
chr13	34651276	34651276	+	0	0	-29.0502924
chr13	34651286	34651286	+	0	0	-33.06086224
chr13	34651525	34651525	-	7.77E-16	4.79E-14	-34.20062696
chr13	34653275	34653275	-	0	0	-33.5459903
chr13	34653575	34653575	-	3.81E-07	8.48E-06	-25.19558105
chr13	34724870	34724870	-	0.00048436	0.00484377	-45.70707071
chr13	35967715	35967715	+	3.62E-14	1.92E-12	-27.70379338
chr13	36542022	36542022	+	4.16E-05	0.00058789	-42.85714286
chr13	37311232	37311232	-	0	0	-27.00234278
chr13	37311278	37311278	+	3.34E-11	1.31E-09	-30.00730994
chr13	37420785	37420785	-	0	0	25.19541323
chr13	37508429	37508429	-	0	0	-38.77508135
chr13	37508448	37508448	-	0	0	-27.45985918
chr13	37558296	37558296	-	0	0	-25.14568765
chr13	37858750	37858750	+	0	0	-29.34302806
chr13	37858751	37858751	-	0	0	-28.47511815
chr13	38172130	38172130	-	0.00089509	0.00806347	-34.45305771
chr13	38816283	38816283	+	5.55E-16	3.46E-14	28.10256729
chr13	40717242	40717242	-	2.12E-13	1.05E-11	-37.08034704
chr13	40717260	40717260	-	5.25E-11	2.02E-09	-32.53909159
chr13	40735078	40735078	-	0	0	-34.11801235
chr13	40735838	40735838	+	5.55E-16	3.46E-14	-34.49760341
chr13	40735861	40735861	+	0	0	-60.6546081
chr13	40736033	40736033	-	0	0	-53.41021092
chr13	40736046	40736046	-	4.25E-12	1.84E-10	-47.57318952
chr13	40756449	40756449	-	6.16E-05	0.0008289	-42.48366013
chr13	40756456	40756456	-	0.00015093	0.00179918	-38.90122087
chr13	40868392	40868392	+	1.75E-05	0.00027276	-26.66666667
chr13	41634469	41634469	+	6.66E-16	4.13E-14	-31.60964912
chr13	42526361	42526361	-	1.81E-11	7.34E-10	-25.29183519
chr13	43148972	43148972	-	4.89E-11	1.88E-09	-27.64889617
chr13	43161960	43161960	-	9.20E-06	0.00015354	-26.33576642
chr13	43179434	43179434	-	1.54E-09	4.96E-08	-27.14880184
chr13	43212554	43212554	-	0	0	-29.83575273
chr13	43244068	43244068	-	0	0	-27.38536251
chr13	43289213	43289213	-	4.64E-09	1.40E-07	-26.97270717
chr13	43503331	43503331	+	6.39E-12	2.71E-10	-27.11439145

chr13	43503337	43503337	+	4.44E-16	2.79E-14	-26.8452381
chr13	43524812	43524812	+	8.13E-07	1.70E-05	-30.08049006
chr13	43544053	43544053	-	0	0	27.35388408
chr13	43691293	43691293	-	2.50E-08	6.77E-07	-25.5931504
chr13	43797592	43797592	+	3.76E-06	6.87E-05	-53.09597523
chr13	43931222	43931222	-	3.21E-06	5.96E-05	-27.21809827
chr13	44100885	44100885	+	0	0	-29.25257019
chr13	44100923	44100923	+	0	0	-29.7964875
chr13	44100928	44100928	+	0	0	-28.03030303
chr13	44100930	44100930	+	0	0	-35.46902121
chr13	44100965	44100965	-	0	0	-30.53906791
chr13	44100985	44100985	-	0	0	-25.69015362
chr13	44209297	44209297	+	0	0	-28.35522483
chr13	44232352	44232352	-	3.04E-06	5.67E-05	-29.13811007
chr13	44454165	44454165	+	0	0	-25.38671755
chr13	44454236	44454236	-	1.89E-15	1.13E-13	-28.302114
chr13	44454280	44454280	-	0	0	-30.66135317
chr13	44550832	44550832	+	1.52E-14	8.36E-13	-27.41723501
chr13	44625025	44625025	-	0.00019052	0.00219833	-25.71428571
chr13	44701681	44701681	+	0	0	-26.8350525
chr13	44701682	44701682	-	0	0	-28.20798778
chr13	44729365	44729365	+	0	0	-35.5036157
chr13	45239348	45239348	+	0.00090637	0.00814753	26.21854094
chr13	45445039	45445039	-	4.54E-06	8.14E-05	-28.78953855
chr13	45526614	45526614	-	1.09E-05	0.00017905	-28.97981199
chr13	45539252	45539252	-	1.47E-14	8.07E-13	-27.22994224
chr13	45820984	45820984	-	8.23E-09	2.39E-07	-29.61578947
chr13	45921280	45921280	-	1.27E-06	2.56E-05	-27.64378479
chr13	46503842	46503842	+	0	0	-26.76152508
chr13	46503888	46503888	+	0	0	-29.91194876
chr13	46504007	46504007	-	1.13E-06	2.29E-05	-25.75011016
chr13	46776811	46776811	+	5.24E-07	1.14E-05	-37.31473409
chr13	46872355	46872355	+	0	0	-29.44347319
chr13	46980217	46980217	+	0	0	-28.20435018
chr13	46980218	46980218	-	0	0	-36.61081233
chr13	47258583	47258583	-	0	0	-33.04249021
chr13	47258587	47258587	-	0	0	-33.18940598
chr13	47258590	47258590	+	0	0	-25.35387306
chr13	47277183	47277183	+	1.81E-05	0.00028092	-27.71108443
chr13	47382027	47382027	-	1.51E-05	0.00023948	-46.66666667
chr13	47974382	47974382	-	0.00018198	0.00211371	30.67473414

chr13	48717370	48717370	-	7.58E-06	0.00012897	-28.96311067
chr13	48724185	48724185	-	0.00035031	0.00369002	-41.66666667
chr13	48804679	48804679	-	1.24E-05	0.00020081	-25.93095212
chr13	49146655	49146655	+	0	0	-27.7902669
chr13	49148532	49148532	-	0.00032054	0.0034246	-32.14285714
chr13	49320009	49320009	-	3.56E-11	1.40E-09	-32.14147287
chr13	49320074	49320074	+	0	0	-25.58292731
chr13	49320075	49320075	-	0	0	-26.08445215
chr13	49722260	49722260	+	1.07E-14	5.94E-13	-28.9345215
chr13	49722266	49722266	+	4.05E-14	2.14E-12	-28.4831273
chr13	49722287	49722287	-	0	0	-27.66298462
chr13	51023449	51023449	-	0.00029487	0.00319018	-36.0483871
chr13	51419040	51419040	-	4.44E-16	2.79E-14	-30.97499388
chr13	51642486	51642486	-	0	0	-33.97507981
chr13	51737725	51737725	-	8.11E-08	2.02E-06	-26.96902655
chr13	51843911	51843911	+	2.89E-15	1.70E-13	-34.47066536
chr13	51843923	51843923	+	4.16E-10	1.44E-08	-26.68317473
chr13	51844044	51844044	-	0.00062598	0.00599957	-29.6499239
chr13	51844086	51844086	+	1.20E-08	3.40E-07	-39.52142787
chr13	51844087	51844087	-	0	0	-31.58085879
chr13	51879042	51879042	+	0	0	-27.90161353
chr13	51879043	51879043	-	0	0	-26.80016688
chr13	51879067	51879067	-	0	0	-30.40120866
chr13	51911504	51911504	-	2.59E-05	0.00038695	-26.51851852
chr13	51958340	51958340	-	8.74E-06	0.00014672	-28.91607204
chr13	51962397	51962397	+	2.19E-09	6.90E-08	-31.74435028
chr13	51962421	51962421	+	9.56E-10	3.16E-08	-30.34967375
chr13	52060200	52060200	+	0	0	-34.47910357
chr13	52060249	52060249	+	3.33E-16	2.11E-14	-29.28844816
chr13	52080069	52080069	-	0.00012916	0.00157286	-25.21908471
chr13	52083961	52083961	+	5.73E-08	1.47E-06	-26.99294227
chr13	52501791	52501791	+	0	0	-27.68136511
chr13	52577066	52577066	-	0	0	-30.16566265
chr13	52577102	52577102	-	0	0	-34.14479219
chr13	52577109	52577109	+	0	0	-31.74070914
chr13	52978115	52978115	-	4.67E-08	1.21E-06	-36.58962421
chr13	53090179	53090179	-	0.0003919	0.00405456	25.92592593
chr13	53184362	53184362	-	3.01E-14	1.61E-12	-33.32201087
chr13	53205351	53205351	+	0	0	-27.89028144
chr13	53205414	53205414	-	0	0	-31.86968977
chr13	53222385	53222385	+	4.31E-06	7.77E-05	28.31168831

chr13	53234647	53234647	+	0	0	-26.51481183
chr13	53234648	53234648	-	0	0	-25.95432435
chr13	53234884	53234884	+	3.34E-13	1.62E-11	-38.09460888
chr13	53234885	53234885	-	8.01E-06	0.0001355	-39.05674282
chr13	53234962	53234962	-	0	0	-28.42403946
chr13	53235909	53235909	+	1.13E-05	0.00018443	-30.61688312
chr13	53277007	53277007	-	0	0	-25.23454021
chr13	53476366	53476366	+	3.55E-15	2.07E-13	-32.62775982
chr13	53809314	53809314	-	0.00048478	0.00484725	26.6798419
chr13	54212138	54212138	+	1.11E-16	7.26E-15	-26.24098441
chr13	54212218	54212218	-	0	0	-27.86534209
chr13	54286085	54286085	+	0.00076488	0.00708296	-30.54511278
chr13	54322499	54322499	-	0	0	-25.69025219
chr13	54575847	54575847	-	0	0	-30.64889361
chr13	54986847	54986847	+	0.00044442	0.00450567	-44.61538462
chr13	55014729	55014729	+	2.93E-05	0.00043055	-27.4829932
chr13	55171642	55171642	+	1.80E-11	7.31E-10	-28.23368947
chr13	55171934	55171934	-	0	0	-31.84926336
chr13	55171938	55171938	-	7.44E-15	4.21E-13	-28.49914313
chr13	55209919	55209919	+	0	0	-35.21751026
chr13	55210056	55210056	-	0	0	-44.47778384
chr13	55210058	55210058	-	0	0	-39.97169942
chr13	55210072	55210072	-	0	0	-43.30006055
chr13	55210083	55210083	-	0	0	-52.33209023
chr13	55210100	55210100	+	0	0	-31.69591164
chr13	55210101	55210101	-	0	0	-39.70375304
chr13	55210132	55210132	+	0	0	-55.74646075
chr13	55210144	55210144	+	0	0	-43.32860216
chr13	55210148	55210148	+	0	0	-29.00638651
chr13	55210247	55210247	-	0	0	-27.06371968
chr13	55415171	55415171	-	0	0	-48.99462606
chr13	55488470	55488470	-	3.33E-16	2.11E-14	-27.76190476
chr13	55524668	55524668	-	0	0	-27.99574371
chr13	55524695	55524695	+	3.51E-09	1.08E-07	-25.33507472
chr13	55569842	55569842	+	0	0	-35.46761134
chr13	55569846	55569846	+	0	0	-32.14171465
chr13	55569855	55569855	+	0	0	-33.8396346
chr13	55825701	55825701	+	0	0	-25.96725765
chr13	55829098	55829098	-	1.15E-08	3.26E-07	-30.71895425
chr13	55962510	55962510	-	5.30E-12	2.27E-10	-29.80453448
chr13	55962537	55962537	-	6.35E-14	3.30E-12	-33.93160033

chr13	55963025	55963025	+	2.82E-07	6.41E-06	-27.66233766
chr13	56032859	56032859	-	4.16E-10	1.44E-08	-29.03652246
chr13	56052912	56052912	-	3.17E-13	1.54E-11	-32.25672878
chr13	56052927	56052927	-	6.66E-16	4.13E-14	-33.54098953
chr13	56052989	56052989	+	0	0	-34.50434143
chr13	56052990	56052990	-	0	0	-34.8868374
chr13	56053013	56053013	-	0	0	-32.37219518
chr13	56066273	56066273	+	0	0	-30.35736537
chr13	56066302	56066302	+	0	0	-27.79694036
chr13	56066303	56066303	-	0	0	-26.12294804
chr13	56066326	56066326	-	0	0	-28.26605737
chr13	56075493	56075493	-	0.00033161	0.00352312	25.27761543
chr13	56113636	56113636	-	0	0	-30.4271202
chr13	56113640	56113640	-	0	0	-33.10026129
chr13	56113664	56113664	-	0	0	-25.09040795
chr13	56116173	56116173	-	9.21E-07	1.91E-05	-30.00889977
chr13	56207959	56207959	+	0	0	-25.74868539
chr13	56208127	56208127	-	0	0	-30.96676341
chr13	56382448	56382448	+	1.76E-12	7.93E-11	28.81615694
chr13	56437996	56437996	+	0	0	-30.07744108
chr13	56611459	56611459	-	4.15E-05	0.00058637	-30.02866699
chr13	56702519	56702519	+	0	0	-33.00751187
chr13	56702596	56702596	+	0	0	-25.78849462
chr13	56702597	56702597	-	0	0	-29.50064641
chr13	56766200	56766200	-	2.78E-08	7.48E-07	-27.65986675
chr13	57282981	57282981	-	0	0	-26.68748303
chr13	57316392	57316392	-	2.55E-07	5.86E-06	-34.99403017
chr13	57435888	57435888	-	5.58E-07	1.20E-05	38.2968002
chr13	57984562	57984562	+	0	0	-25.10606666
chr13	58030435	58030435	+	3.97E-14	2.10E-12	-25.24590164
chr13	58030633	58030633	-	1.10E-13	5.60E-12	-25.08609272
chr13	58122962	58122962	+	1.24E-06	2.50E-05	-34.79281486
chr13	58123156	58123156	-	5.66E-15	3.24E-13	-44.38549956
chr13	59438085	59438085	-	0	0	-34.29122795
chr13	59438114	59438114	-	0	0	-25.68782788
chr13	59726237	59726237	-	0	0	-35.058575
chr13	59726389	59726389	-	0	0	-32.72450533
chr13	59726403	59726403	-	0	0	-27.72740254
chr13	59726525	59726525	+	0	0	-27.86084142
chr13	60124136	60124136	-	4.98E-12	2.14E-10	-27.8926719
chr13	60455363	60455363	-	0.00080277	0.00737003	-25.74195564



chr13	60464168	60464168	-	2.36E-10	8.40E-09	40.32258065
chr13	60537994	60537994	-	3.10E-05	0.00045234	-39.13746631
chr13	60718282	60718282	-	0.00027752	0.00303158	35.36585366
chr13	61575881	61575881	-	0	0	30.13973821
chr13	61586068	61586068	-	1.11E-16	7.26E-15	33.35616438
chr13	62858440	62858440	-	4.14E-12	1.79E-10	-27.8523447
chr13	62887674	62887674	+	0	0	-28.81856495
chr13	62887705	62887705	-	3.55E-15	2.07E-13	-25.80717125
chr13	62945177	62945177	+	0.00062373	0.00598218	-35.75091575
chr13	62945521	62945521	-	7.78E-13	3.63E-11	-32.94374318
chr13	63272785	63272785	+	0	0	-45.22689677
chr13	63272822	63272822	+	0	0	-61.3700919
chr13	63272823	63272823	-	0	0	-54.13525235
chr13	63272853	63272853	-	0	0	-61.55492403
chr13	63514251	63514251	+	0	0	32.43923832
chr13	63574330	63574330	-	1.11E-16	7.26E-15	-31.540132
chr13	63608965	63608965	+	0	0	37.8073727
chr13	64035387	64035387	+	0	0	-35.8544642
chr13	64081592	64081592	+	0	0	-29.59373767
chr13	64081593	64081593	-	4.09E-08	1.07E-06	-28.66755702
chr13	64081668	64081668	+	5.44E-13	2.58E-11	-50.96129838
chr13	64081669	64081669	-	0	0	-39.62515531
chr13	64154428	64154428	-	6.27E-05	0.00084125	-27.30107527
chr13	64154437	64154437	-	0.00010326	0.00129663	-27.61100688
chr13	64162938	64162938	+	0	0	-29.21648467
chr13	64162939	64162939	-	0	0	-29.60821443
chr13	64162947	64162947	+	0	0	-26.90443884
chr13	64162966	64162966	+	0	0	-38.57033267
chr13	64163101	64163101	-	0	0	-25.79617104
chr13	65971823	65971823	-	5.64E-08	1.44E-06	25.15366842
chr13	68073227	68073227	+	0	0	30.26387066
chr13	68073228	68073228	-	2.66E-11	1.06E-09	28.44679634
chr13	68788364	68788364	+	2.33E-05	0.00035189	26.92307692
chr13	69447278	69447278	+	4.42E-05	0.00061984	-31.05545617
chr13	69481490	69481490	+	1.07E-07	2.62E-06	-29.53303783
chr13	69544119	69544119	+	1.26E-09	4.09E-08	-35.69124424
chr13	69544143	69544143	+	8.63E-09	2.50E-07	-34.06682028
chr13	69546027	69546027	+	0.00016977	0.0019912	-31.03448276
chr13	69703699	69703699	-	0	0	-27.05008482
chr13	69752160	69752160	-	1.18E-08	3.35E-07	27.53258294
chr13	70232126	70232126	+	8.94E-06	0.0001497	-25.51134772

chr13	70428887	70428887	+	0.00016122	0.00190494	43.49206349
chr13	70823836	70823836	+	0.00061154	0.00588439	33.63499246
chr13	71404079	71404079	+	0.00037631	0.00392036	-25.5
chr13	72121064	72121064	+	0	0	-31.68232999
chr13	73251936	73251936	+	5.90E-05	0.00079768	-42.99895507
chr13	73434397	73434397	+	7.22E-15	4.09E-13	-41.01786201
chr13	74591753	74591753	-	0.00082873	0.00756788	-25.1988218
chr13	74591789	74591789	-	1.61E-07	3.82E-06	-32.75003557
chr13	75685421	75685421	+	2.74E-11	1.09E-09	-25.08559729
chr13	76526279	76526279	+	5.47E-09	1.63E-07	25.80772262
chr13	77171353	77171353	-	0	0	-28.60004366
chr13	80963558	80963558	+	3.09E-14	1.65E-12	-31.05694232
chr13	83423809	83423809	-	2.12E-05	0.00032415	-31.6017316
chr13	93856012	93856012	+	0	0	-30.32329631
chr13	93856067	93856067	-	0	0	-29.21125291
chr13	93856076	93856076	-	0	0	-33.59226755
chr13	93856092	93856092	-	0	0	-39.40694841
chr13	93856102	93856102	-	0	0	-39.07534206
chr13	93951219	93951219	+	0	0	-26.45526696
chr13	94136255	94136255	+	0	0	-35.2409689
chr13	94136297	94136297	+	0	0	-50.49220876
chr13	94136412	94136412	-	2.70E-08	7.27E-07	-52.18926554
chr13	94608645	94608645	+	0	0	-28.77816507
chr13	94608646	94608646	-	0	0	-32.54253872
chr13	94608667	94608667	+	0	0	-37.18940386
chr13	94608668	94608668	-	0	0	-39.83199059
chr13	94608688	94608688	+	0	0	-30.93464778
chr13	94608689	94608689	-	0	0	-37.6516519
chr13	94608751	94608751	-	0	0	-26.25324825
chr13	94706728	94706728	+	0	0	-39.7647158
chr13	94706911	94706911	-	0	0	-37.75053105
chr13	95494816	95494816	+	1.99E-08	5.47E-07	-25.19559804
chr13	95567361	95567361	-	0.00018162	0.00211007	-45.27027027
chr13	95567409	95567409	+	0	0	-25.04822634
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chr13	95616596	95616596	-	0.00069298	0.00652616	-33.16283035
chr13	95616612	95616612	-	0.00037717	0.00392783	-35.39279869
chr13	95960137	95960137	+	0	0	-31.677848
chr13	95960177	95960177	+	0	0	-30.86902772
chr13	95960185	95960185	+	0	0	-27.34034863
chr13	95990540	95990540	+	0	0	-29.15266106

chr13	95990541	95990541	-	0	0	-36.6482555
chr13	95990566	95990566	-	0	0	-28.0563284
chr13	96925969	96925969	+	0	0	-26.43904803
chr13	96929162	96929162	-	5.43E-05	0.00074191	-33.7401918
chr13	97065119	97065119	+	8.97E-06	0.00015018	-36.04696673
chr13	97070083	97070083	+	1.33E-10	4.87E-09	-26.69940553
chr13	97249261	97249261	+	8.44E-15	4.75E-13	-25.68785451
chr13	97249372	97249372	+	2.78E-15	1.63E-13	-27.4711123
chr13	97259836	97259836	+	7.77E-16	4.79E-14	-25.57264957
chr13	97259837	97259837	-	0	0	-25.85514785
chr13	97259979	97259979	-	1.11E-16	7.26E-15	-30.04840474
chr13	97260026	97260026	+	5.66E-09	1.68E-07	-54.61835462
chr13	97291281	97291281	-	0	0	-30.79062401
chr13	97365843	97365843	-	0	0	-25.08888418
chr13	97365861	97365861	-	0	0	-27.81036531
chr13	97365876	97365876	-	0	0	-31.48992351
chr13	97376304	97376304	-	9.87E-05	0.00124691	-26.68566002
chr13	97435072	97435072	+	0	0	-27.15068457
chr13	97435143	97435143	-	0	0	-25.08723065
chr13	97439171	97439171	+	3.19E-06	5.91E-05	-32.76515152
chr13	97439192	97439192	+	5.85E-09	1.74E-07	-43.001443
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chr13	97523998	97523998	-	0	0	-54.86584046
chr13	97524011	97524011	-	0	0	-50.55432062
chr13	97928388	97928388	-	0	0	-25.64397679
chr13	97939716	97939716	-	0	0	-28.29063589
chr13	98430484	98430484	-	7.15E-09	2.10E-07	-32.09230769
chr13	98588609	98588609	+	4.77E-05	0.00066184	-37.14285714
chr13	98692595	98692595	-	0.00023514	0.00263121	-25.60386473
chr13	98813174	98813174	+	4.41E-13	2.11E-11	-26.80759804
chr13	100553681	100553681	+	8.03E-08	2.01E-06	-26.55367232
chr13	100600929	100600929	+	0	0	-29.13581915
chr13	100601092	100601092	+	4.46E-14	2.35E-12	-28.52459016
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chr13	101250724	101250724	+	6.34E-08	1.61E-06	-37.89850358
chr13	101691629	101691629	+	0	0	-29.06862745
chr13	101695170	101695170	-	0	0	-34.74105644
chr13	101757378	101757378	+	0	0	-38.25963066
chr13	101758234	101758234	-	5.65E-13	2.67E-11	-27.41154227
chr13	101758272	101758272	-	0	0	-32.76798204
chr13	102877502	102877502	-	0	0	-32.21262603

chr13	104110284	104110284	-	0	0	-25.69521691
chr13	104190508	104190508	+	1.04E-07	2.55E-06	41.37931034
chr13	104518437	104518437	-	2.26E-07	5.24E-06	-25.35591999
chr13	106037707	106037707	+	0.00076294	0.00706887	-41.30434783
chr13	107644997	107644997	+	0	0	-41.53232526
chr13	107645180	107645180	+	5.50E-10	1.88E-08	-31.74036787
chr13	108170731	108170731	+	0	0	-25.67883062
chr13	108170787	108170787	-	0	0	-25.29662446
chr13	108357582	108357582	-	0	0	-33.84970336
chr13	108357629	108357629	-	0	0	-40.05947861
chr13	108357656	108357656	-	0.00027538	0.00301101	-26.44787645
chr13	109205009	109205009	-	0	0	-26.88668412
chr13	109759972	109759972	+	0.00033211	0.00352758	-41.60839161
chr13	109776019	109776019	+	4.14E-07	9.14E-06	-49.97854998
chr13	110967414	110967414	+	0	0	-29.3029395
chr13	110967431	110967431	+	0	0	-38.18384606
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chr13	111510906	111510906	+	2.19E-05	0.00033263	-28.59543011
chr13	111552959	111552959	-	5.35E-07	1.16E-05	-46.48786718
chr13	111895106	111895106	+	0	0	-31.28322677
chr13	112101277	112101277	-	7.08E-05	0.00093469	-33.41982356
chr13	112101282	112101282	-	0.0001051	0.00131632	-34.3495935
chr13	112119910	112119910	+	2.80E-11	1.11E-09	-51.48148148
chr13	112531869	112531869	+	0	0	-28.11686713
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chr13	112531954	112531954	-	0	0	-26.59273755
chr13	112752391	112752391	-	2.10E-05	0.00032102	-25.60881825
chr13	113045699	113045699	-	2.68E-05	0.00039839	-26.4
chr13	113222778	113222778	+	2.52E-09	7.88E-08	52.20143093
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chr13	113574417	113574417	-	3.70E-08	9.75E-07	-37.28198407
chr13	113599899	113599899	+	0	0	-32.10744518
chr13	113613945	113613945	+	0	0	-27.38127175
chr13	113617322	113617322	+	0	0	-28.01853172
chr13	113617369	113617369	-	0	0	-28.38337182
chr13	113617396	113617396	-	0	0	-26.9887068
chr13	113663587	113663587	-	3.60E-10	1.25E-08	-29.2246399
chr13	113663607	113663607	-	2.84E-08	7.64E-07	-25.37688442
chr13	114198939	114198939	+	2.75E-08	7.40E-07	-38.33333333
chr13	114855903	114855903	-	0	0	-32.48155266
chr13	114855925	114855925	-	0	0	-35.58120805

chr13	116311442	116311442	+	0.0009817	0.00869736	-27.47826087
chr13	117197232	117197232	-	1.30E-08	3.66E-07	-38.25027685
chr13	117197237	117197237	-	2.22E-07	5.14E-06	-33.73529126
chr13	117219931	117219931	+	0	0	-33.25585808
chr13	117220042	117220042	+	3.70E-09	1.13E-07	-30.85194376
chr13	117220043	117220043	-	1.60E-11	6.51E-10	-26.75086761
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chr13	117220050	117220050	+	5.76E-13	2.72E-11	-39.89271714
chr13	117958602	117958602	+	0	0	-29.47256327
chr13	117958633	117958633	-	0	0	-30.50169779
chr13	117958643	117958643	+	1.33E-15	8.06E-14	-38.34609876
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chr13	117958680	117958680	+	2.57E-11	1.02E-09	-31.6434808
chr13	117958872	117958872	-	5.79E-06	0.00010139	-38.58661664
chr13	117958912	117958912	-	8.10E-09	2.36E-07	-51.5
chr13	119603115	119603115	-	3.09E-12	1.36E-10	-31.79607434
chr13	119738156	119738156	+	9.99E-16	6.10E-14	-26.75646273
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chr14	4596408	4596408	-	0.00019405	0.00223317	-31.0387985
chr14	7786337	7786337	+	3.47E-11	1.36E-09	-46.3116543
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chr14	8206769	8206769	-	1.31E-05	0.00021093	-27.24089636
chr14	9488427	9488427	-	0	0	-27.27915976
chr14	10432212	10432212	+	0	0	-29.74743089
chr14	11703222	11703222	+	1.80E-06	3.52E-05	-46.34946678
chr14	13933330	13933330	-	0	0	-31.94632488
chr14	13933382	13933382	+	3.02E-11	1.19E-09	-25.08626639
chr14	13933402	13933402	+	6.41E-13	3.01E-11	-28.8615215
chr14	13933578	13933578	-	2.43E-09	7.60E-08	-28.40054023
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chr14	14686438	14686438	+	0	0	-26.43464026
chr14	14686458	14686458	+	0	0	-25.78787591
chr14	18327261	18327261	+	1.79E-05	0.00027832	-25.44891641
chr14	19180665	19180665	-	6.20E-08	1.58E-06	-25.41615667
chr14	19180931	19180931	-	3.73E-08	9.84E-07	-36.01004851
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chr14	19750407	19750407	+	0	0	-26.95272328
chr14	19750579	19750579	-	0	0	-30.35305349
chr14	19750586	19750586	+	9.99E-16	6.10E-14	-37.77639164
chr14	19977545	19977545	+	3.56E-09	1.09E-07	-43.50369458
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chr14	19977583	19977583	+	0	0	-27.31999039
chr14	19977597	19977597	+	0	0	-29.06525271
chr14	20154906	20154906	+	1.48E-07	3.54E-06	-30.69725596
chr14	20560833	20560833	+	6.00E-15	3.43E-13	-28.64562164
chr14	20661776	20661776	-	0	0	-29.96953941
chr14	20661835	20661835	-	0	0	-33.47737009
chr14	20737374	20737374	+	0	0	-35.89086315
chr14	20737375	20737375	-	0	0	-30.91165239
chr14	20737380	20737380	+	0	0	-27.04373601
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chr14	20737391	20737391	-	0	0	-29.03469092
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chr14	20946398	20946398	-	2.26E-06	4.33E-05	-42.59549974
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chr14	21891638	21891638	-	0	0	-40.72480783
chr14	21891657	21891657	-	0	0	-28.31732375
chr14	21982512	21982512	-	0	0	-35.61445714
chr14	21984586	21984586	+	1.10E-06	2.24E-05	-30.38403614
chr14	21990428	21990428	+	0	0	-46.46241013
chr14	21990460	21990460	+	0	0	-49.00083693
chr14	21990461	21990461	-	0	0	-43.6049492
chr14	21990479	21990479	-	0	0	-46.31625619
chr14	21990643	21990643	-	0	0	-43.73117668
chr14	21990645	21990645	-	0	0	-42.09029066
chr14	21990665	21990665	-	0	0	-53.68513826
chr14	21990669	21990669	+	0	0	-53.5066797
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chr14	21990797	21990797	-	0	0	-59.92151755
chr14	21990804	21990804	-	0	0	-60.17018868

chr14	21990817	21990817	-	0	0	-64.03162055
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chr14	21990852	21990852	+	0	0	-64.5440613
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chr14	21990878	21990878	-	0	0	-46.83050579
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chr14	21990890	21990890	-	0	0	-56.86109965
chr14	21990894	21990894	-	0	0	-45.70516178
chr14	21990900	21990900	-	0	0	-56.19271031
chr14	21990914	21990914	-	0	0	-57.99439718
chr14	21991289	21991289	+	2.85E-13	1.39E-11	-48.59559046
chr14	21991300	21991300	+	2.12E-14	1.15E-12	-49.02576996
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chr14	21991318	21991318	+	1.35E-12	6.17E-11	-45.23593466
chr14	21991457	21991457	-	0	0	-37.35701041
chr14	21991468	21991468	-	0	0	-40.08153352
chr14	21991485	21991485	+	2.22E-16	1.43E-14	-58.21368243
chr14	21991486	21991486	-	0	0	-66.40011631
chr14	21991723	21991723	-	5.90E-12	2.51E-10	-47.68275203
chr14	21991740	21991740	-	1.39E-11	5.70E-10	-47.41997133
chr14	21991754	21991754	-	0	0	-66.05868358
chr14	22256578	22256578	-	0	0	-35.85269221
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chr14	25052236	25052236	+	0	0	-28.20385253
chr14	25052283	25052283	+	0	0	-27.20522052
chr14	25052284	25052284	-	0	0	-28.86490905
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chr14	25052418	25052418	+	4.27E-08	1.11E-06	-26.80673833
chr14	25108463	25108463	+	0	0	-37.11824324
chr14	25108480	25108480	+	0	0	-50.83874017
chr14	25108481	25108481	-	0	0	-49.83557502
chr14	25108505	25108505	+	0	0	-41.76067616
chr14	25108506	25108506	-	0	0	-41.87589511
chr14	25108518	25108518	-	0	0	-43.52980715
chr14	25108799	25108799	-	1.61E-11	6.55E-10	-62.37762238
chr14	25108810	25108810	+	1.46E-06	2.91E-05	-54.14244186

chr14	25108811	25108811	-	4.98E-07	1.08E-05	-47.62237762
chr14	25109074	25109074	+	0	0	-33.88281426
chr14	25318299	25318299	-	0	0	-29.54351156
chr14	25318354	25318354	-	0	0	-26.26713069
chr14	25377825	25377825	+	2.22E-16	1.43E-14	-28.24768163
chr14	25419237	25419237	-	0	0	-29.61595705
chr14	25481457	25481457	-	0	0	-25.16732795
chr14	25534968	25534968	+	0	0	-30.35320088
chr14	25534969	25534969	-	0	0	-32.43963761
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chr14	25604466	25604466	-	0	0	-27.56053563
chr14	25604468	25604468	-	0	0	-26.95628387
chr14	25604482	25604482	-	0	0	-27.16236057
chr14	25604507	25604507	-	0	0	-27.4409184
chr14	25616016	25616016	+	7.49E-10	2.51E-08	-29.36665017
chr14	25616213	25616213	-	0	0	-41.140764
chr14	25616233	25616233	+	0	0	-43.4243623
chr14	25616234	25616234	-	0	0	-44.75456747
chr14	25616349	25616349	-	0	0	-28.42903277
chr14	25734746	25734746	+	0	0	-39.28774975
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chr14	25760585	25760585	-	1.51E-08	4.22E-07	-27.34782609
chr14	25847785	25847785	+	0	0	-27.24175565
chr14	27066021	27066021	+	0	0	-28.45797388
chr14	27066048	27066048	+	0	0	-28.01163213
chr14	27066106	27066106	+	5.06E-05	0.00069699	-33.9025933
chr14	27068535	27068535	+	3.33E-11	1.31E-09	-31.85727258
chr14	27115437	27115437	+	0	0	-39.63473817
chr14	27192939	27192939	-	6.90E-06	0.00011856	-40.51282051
chr14	27296878	27296878	+	2.17E-09	6.84E-08	-27.28436929
chr14	30124877	30124877	-	0	0	-37.24896019
chr14	30124891	30124891	-	6.98E-13	3.27E-11	-26.14154231
chr14	30352372	30352372	-	0	0	-26.01728831
chr14	30576265	30576265	+	0	0	-25.13642351
chr14	30576266	30576266	-	0	0	-27.90172416
chr14	31153256	31153256	+	0	0	-29.94570405
chr14	31269417	31269417	+	1.56E-06	3.10E-05	-29.24462924
chr14	31325044	31325044	-	0	0	-25.3236513
chr14	31388676	31388676	+	0	0	-25.27881041
chr14	31388861	31388861	-	6.38E-11	2.43E-09	-25.64413868
chr14	31410515	31410515	+	0	0	-41.27848101



chr14	31410644	31410644	-	0	0	-33.06451613
chr14	31557078	31557078	-	3.48E-05	0.00050099	-30.33613445
chr14	31669338	31669338	+	0	0	-28.73507781
chr14	32117586	32117586	-	0	0	-31.62123521
chr14	32117608	32117608	-	0	0	-34.80063582
chr14	32700997	32700997	+	0.00014648	0.00175394	-30
chr14	32719192	32719192	-	0	0	-25.6687539
chr14	33000597	33000597	-	2.89E-14	1.55E-12	-31.94467799
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chr14	33354147	33354147	-	7.09E-13	3.32E-11	-28.93526126
chr14	34195161	34195161	+	0.00020648	0.00235475	35.39576366
chr14	34201820	34201820	+	0	0	-28.45175607
chr14	34201851	34201851	+	0	0	-29.38223386
chr14	34201877	34201877	-	0	0	-25.02859481
chr14	34360419	34360419	+	9.79E-07	2.02E-05	-37.6545218
chr14	34375689	34375689	+	3.01E-10	1.06E-08	-33.11633903
chr14	34591022	34591022	-	1.23E-09	4.01E-08	-26.95707071
chr14	34614750	34614750	+	0	0	-32.03215455
chr14	34614766	34614766	+	0	0	-35.0063517
chr14	34614767	34614767	-	0	0	-34.72581933
chr14	34614771	34614771	+	0	0	-39.98710368
chr14	34614772	34614772	-	0	0	-35.15303893
chr14	34614789	34614789	+	0	0	-35.6049287
chr14	34614790	34614790	-	0	0	-35.85125556
chr14	34614829	34614829	+	0	0	-28.23367903
chr14	34769888	34769888	+	0	0	-26.14819795
chr14	40957334	40957334	-	0	0	-37.17231012
chr14	40989725	40989725	+	0	0	-32.64232348
chr14	41004565	41004565	-	1.81E-06	3.55E-05	-27.6158402
chr14	41004598	41004598	-	5.70E-07	1.23E-05	-32.03363914
chr14	42542934	42542934	+	0.00041942	0.00429171	-32.54237288
chr14	44847126	44847126	-	0.00069728	0.00655967	-29.62962963
chr14	45445423	45445423	+	1.05E-06	2.15E-05	-29.63780107
chr14	46017924	46017924	+	1.85E-06	3.61E-05	-28.52515244
chr14	46385689	46385689	+	0	0	-39.34078156
chr14	46391826	46391826	-	2.28E-08	6.22E-07	-31.81818182
chr14	46569706	46569706	-	2.31E-12	1.03E-10	-39.60629921
chr14	46882030	46882030	+	1.02E-14	5.70E-13	-31.87929956
chr14	47111144	47111144	-	2.54E-08	6.87E-07	-28.68421053
chr14	47395845	47395845	+	0	0	-27.45278004
chr14	47395919	47395919	-	0	0	-34.04547362

chr14	47395923	47395923	-	0	0	-32.25966417
chr14	47395927	47395927	-	0	0	-33.09063374
chr14	47747730	47747730	+	5.19E-05	0.00071202	-36.09090909
chr14	48010411	48010411	-	3.33E-16	2.11E-14	-29.53141148
chr14	50897015	50897015	+	0	0	-27.98493676
chr14	50897138	50897138	+	0	0	-30.86317031
chr14	50897295	50897295	-	3.11E-15	1.82E-13	-25.09986183
chr14	50897298	50897298	+	0	0	-25.98235354
chr14	50897415	50897415	-	0	0	-29.45570928
chr14	51008082	51008082	-	3.34E-13	1.61E-11	-29.41932624
chr14	51894306	51894306	+	0	0	-27.45267424
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chr14	52008410	52008410	+	0	0	-26.35785267
chr14	52009339	52009339	+	0	0	-26.64598245
chr14	52009368	52009368	-	0	0	-26.53825446
chr14	52009377	52009377	+	0	0	-34.39103701
chr14	52009378	52009378	-	0	0	-35.52473997
chr14	52118534	52118534	-	1.62E-06	3.20E-05	-26.22556172
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chr14	52244802	52244802	-	0	0	-31.54054209
chr14	52314614	52314614	-	0	0	-31.10055978
chr14	52314632	52314632	+	0	0	-28.58361038
chr14	52314765	52314765	-	0	0	-32.90334139
chr14	52315413	52315413	+	0	0	-30.19018704
chr14	52315554	52315554	+	0	0	-26.7388139
chr14	52315586	52315586	+	0	0	-37.50889385
chr14	54228827	54228827	+	2.71E-07	6.19E-06	-29.67610155
chr14	54229006	54229006	-	0	0	-37.21509787
chr14	54229012	54229012	+	4.44E-16	2.79E-14	-46.30955904
chr14	54229013	54229013	-	0	0	-30.77298198
chr14	54229157	54229157	-	0	0	-46.11341737
chr14	54229174	54229174	-	0	0	-53.98556174
chr14	54229193	54229193	-	8.40E-14	4.31E-12	-38.85699177
chr14	54229204	54229204	-	0	0	-52.94612795
chr14	54233984	54233984	-	1.30E-05	0.00020882	-36.71215075
chr14	54410404	54410404	-	8.92E-06	0.00014935	-38.65740741
chr14	54417458	54417458	+	0	0	-33.58529679

chr14	54417469	54417469	+	0	0	-26.72127584
chr14	54417481	54417481	+	0	0	-30.10442443
chr14	54417552	54417552	-	0	0	-45.61856763
chr14	54417588	54417588	-	0	0	-46.355702
chr14	54417600	54417600	-	0	0	-32.63888889
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chr14	54417610	54417610	+	3.26E-12	1.43E-10	-37.64044944
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chr14	54417620	54417620	+	1.63E-14	8.95E-13	-42.13483146
chr14	54417621	54417621	-	0.00010562	0.00132176	-36.38888889
chr14	54417623	54417623	+	2.33E-15	1.38E-13	-45.56945863
chr14	54417624	54417624	-	8.27E-05	0.00106921	-36.94444444
chr14	54417631	54417631	+	6.99E-15	3.97E-13	-35.59520017
chr14	54417632	54417632	-	0.00069325	0.00652817	-31.66666667
chr14	54417650	54417650	+	0	0	-48.5121925
chr14	54417666	54417666	+	0	0	-36.780426
chr14	54417782	54417782	-	0	0	-26.27779945
chr14	54417801	54417801	-	0	0	-25.92450721
chr14	54417816	54417816	+	0	0	-43.00883189
chr14	54417835	54417835	+	0	0	-47.42649862
chr14	54417836	54417836	-	0	0	-39.12218487
chr14	54417866	54417866	-	0	0	-27.80203892
chr14	54432773	54432773	+	1.30E-08	3.66E-07	-31.86068256
chr14	54475494	54475494	+	0	0	-31.57275226
chr14	54475555	54475555	-	0	0	-37.21624095
chr14	54492894	54492894	+	0.00108267	0.00942177	-33.14855876
chr14	54572862	54572862	+	0	0	-34.37968738
chr14	54575545	54575545	+	0	0	-36.5000068
chr14	54575607	54575607	-	0	0	-31.12426019
chr14	54575612	54575612	+	1.85E-05	0.00028648	-35.71428571
chr14	54912227	54912227	-	0	0	-27.3786325
chr14	54912234	54912234	+	0	0	-29.62900002
chr14	54927089	54927089	-	1.11E-16	7.26E-15	-29.37602014
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chr14	55071805	55071805	+	2.04E-06	3.95E-05	-30.76176251
chr14	55071926	55071926	-	0	0	-40.03936008
chr14	55071935	55071935	-	0	0	-31.58436214
chr14	55071955	55071955	-	0	0	-28.97514855
chr14	55071971	55071971	-	0	0	-27.83909061
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chr14	55108198	55108198	+	0	0	-30.51828696
chr14	55108430	55108430	-	1.20E-08	3.40E-07	-38.3286648
chr14	55109247	55109247	-	2.03E-06	3.93E-05	-32.85356696
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chr14	55113819	55113819	+	0	0	-25.63883333
chr14	55113825	55113825	-	0	0	-25.48423065
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chr14	55113991	55113991	-	0	0	-26.91874004
chr14	55116740	55116740	+	0	0	-27.82291125
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chr14	55116936	55116936	-	2.32E-05	0.00035062	-29.27010924
chr14	55146764	55146764	+	1.88E-07	4.41E-06	-25.51311214
chr14	55146944	55146944	-	0	0	-27.84280179
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chr14	55762044	55762044	-	0	0	-32.22703744
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chr14	55783672	55783672	-	0	0	-30.46710526
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chr14	55824571	55824571	+	9.64E-08	2.38E-06	-27.88389513
chr14	55826699	55826699	-	9.50E-11	3.55E-09	-61.36363636
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chr14	55826713	55826713	-	7.55E-07	1.59E-05	-43.44155844
chr14	55826759	55826759	+	0	0	-35.35659943
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chr14	55826839	55826839	-	0	0	-34.86013002
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chr14	55826963	55826963	-	0	0	-28.65820344
chr14	55826976	55826976	+	0	0	-26.57660947
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chr14	55827085	55827085	-	0	0	-32.23357315
chr14	55827104	55827104	-	0	0	-35.77761494
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chr14	57530546	57530546	-	9.57E-06	0.00015912	-37.24902607
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chr14	57542571	57542571	+	0	0	-25.37700676
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chr14	57734165	57734165	-	5.74E-12	2.45E-10	-31.56666667
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chr14	61684748	61684748	-	1.78E-15	1.06E-13	-35.36821705
chr14	61684760	61684760	+	0	0	-36.35060551
chr14	61684761	61684761	-	3.92E-09	1.19E-07	-33.05764821
chr14	61684783	61684783	+	0	0	-53.84574658
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chr14	61686124	61686124	+	0	0	-63.44260595
chr14	61686166	61686166	+	0	0	-60.0020332
chr14	61686168	61686168	+	0	0	-66.05778218
chr14	61686209	61686209	-	0	0	-67.38172615
chr14	61686212	61686212	-	0	0	-37.61480066
chr14	61686249	61686249	+	0	0	-46.98380567
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chr14	61686265	61686265	+	0	0	-50.68445068

chr14	61686275	61686275	+	0	0	-57.33411627
chr14	61689872	61689872	+	0	0	-26.40695277
chr14	61689933	61689933	-	0	0	-28.04453435
chr14	61689951	61689951	-	0	0	-35.96853532
chr14	61707232	61707232	-	0	0	-25.93924814
chr14	62374177	62374177	-	7.05E-11	2.67E-09	-32.91784237
chr14	63076709	63076709	-	0.00069886	0.00657179	-30.13824885
chr14	63244150	63244150	+	0.00081622	0.00747304	-32.77347115
chr14	63343816	63343816	+	0.000561	0.00547733	-25.29651594
chr14	63899744	63899744	+	0	0	-31.44963145
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chr14	63940662	63940662	+	6.66E-06	0.00011488	-29.12814678
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chr14	63947859	63947859	+	3.82E-08	1.01E-06	-32.93103448
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chr14	64059016	64059016	+	0	0	-29.3879006
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chr14	64064065	64064065	-	6.75E-14	3.50E-12	-38.88276947
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chr14	64164569	64164569	+	0	0	-29.89945051
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chr14	64164603	64164603	-	0	0	-46.95869837
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chr14	64256916	64256916	+	0	0	-29.28314649
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chr14	64323923	64323923	+	0	0	-35.73373145
chr14	64324081	64324081	+	0.00027983	0.00305337	-34.70967742
chr14	64324082	64324082	-	0	0	-33.96449704
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chr14	65343114	65343114	+	0	0	-47.70059053
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chr14	65953306	65953306	+	0	0	-38.25257732
chr14	65953437	65953437	+	0	0	-26.53524492
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chr14	67486966	67486966	-	1.54E-08	4.31E-07	-40.66326531
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chr14	67932348	67932348	+	8.47E-05	0.00109178	-27.1189337
chr14	67932383	67932383	+	5.20E-05	0.00071339	-29.11605938
chr14	68040930	68040930	-	0	0	-25.49468607
chr14	68040943	68040943	-	0	0	-32.67503182
chr14	69053580	69053580	+	0	0	-29.51341533
chr14	69173901	69173901	+	0	0	-25.5217553
chr14	69816282	69816282	+	0	0	-33.54452737
chr14	69840850	69840850	-	9.99E-16	6.10E-14	-27.75579313
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chr14	69995035	69995035	+	0	0	-33.22524999
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chr14	69995226	69995226	+	0	0	-27.35102421
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chr14	69995315	69995315	+	1.51E-12	6.86E-11	-40.85914086
chr14	69995316	69995316	-	0	0	-44.04982119
chr14	69995398	69995398	-	0	0	-50.73421439
chr14	69995753	69995753	+	1.06E-05	0.00017402	-34.7086978
chr14	70021257	70021257	+	0	0	-27.8634769
chr14	70074355	70074355	-	0	0	-32.27735481
chr14	70287756	70287756	+	1.25E-08	3.54E-07	-31.67374681
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chr14	70622514	70622514	+	0	0	-38.02946593
chr14	70622518	70622518	+	0	0	-41.47325498
chr14	70622530	70622530	+	0	0	-37.77335705
chr14	70622583	70622583	+	1.11E-16	7.26E-15	-25.98075439
chr14	70628492	70628492	-	1.74E-08	4.81E-07	-41.94931774

chr14	70629905	70629905	+	8.61E-08	2.14E-06	-28.39105339
chr14	70635087	70635087	+	7.28E-13	3.41E-11	-29.5042735
chr14	70635275	70635275	-	2.41E-07	5.57E-06	-42.39040529
chr14	70635317	70635317	-	5.13E-06	9.09E-05	-38.254756
chr14	70636917	70636917	+	0	0	-25.12341922
chr14	70636918	70636918	-	0	0	-27.76339198
chr14	70636942	70636942	+	0	0	-34.86411614
chr14	70636943	70636943	-	0	0	-31.44829098
chr14	70636948	70636948	-	0	0	-29.94590681
chr14	70641651	70641651	+	0	0	-30.01730104
chr14	70641744	70641744	+	5.61E-13	2.65E-11	-36.85782557
chr14	70644286	70644286	+	0.00016343	0.00192747	-32.95625943
chr14	70777593	70777593	+	0	0	-26.19152495
chr14	70777646	70777646	-	0	0	-41.95173082
chr14	70777667	70777667	-	0	0	-35.60759069
chr14	70832483	70832483	+	1.38E-07	3.33E-06	-27.03390693
chr14	71967367	71967367	+	0	0	-26.8870229
chr14	71967529	71967529	+	1.11E-15	6.76E-14	-25.23793442
chr14	72887912	72887912	+	0.00012254	0.00150277	-29.33333333
chr14	72887933	72887933	+	8.20E-05	0.00106163	-28.68589744
chr14	73178109	73178109	+	6.38E-07	1.36E-05	-30.28904055
chr14	73481723	73481723	+	1.43E-05	0.00022793	-26.87802394
chr14	75828498	75828498	+	0	0	-26.02981064
chr14	75828499	75828499	-	0	0	-29.00685137
chr14	76149686	76149686	+	0	0	-25.34158757
chr14	76149687	76149687	-	2.15E-11	8.62E-10	-25.04485316
chr14	76150720	76150720	-	3.00E-15	1.76E-13	-32.38946846
chr14	76153448	76153448	+	7.08E-11	2.68E-09	-27.32905107
chr14	76276863	76276863	+	3.28E-11	1.29E-09	-25.58679064
chr14	76416386	76416386	-	0	0	-54.37401451
chr14	76416428	76416428	-	1.32E-13	6.66E-12	-37.09051724
chr14	76416436	76416436	-	0	0	-50.96982759
chr14	76496427	76496427	-	1.12E-06	2.28E-05	-30.90007628
chr14	76506561	76506561	-	0	0	-26.25815423
chr14	76532952	76532952	-	0	0	-39.84521835
chr14	76532955	76532955	-	0	0	-38.28288525
chr14	76532958	76532958	-	0	0	-39.22041106
chr14	76532962	76532962	-	0	0	-38.37027565
chr14	76622699	76622699	+	0	0	-35.3825488
chr14	77385923	77385923	+	0	0	-25.03380817
chr14	77423369	77423369	-	2.22E-16	1.43E-14	-25.97588509



chr14	77423451	77423451	-	0	0	-29.45478781
chr14	78289307	78289307	-	0	0	-25.54161064
chr14	78712909	78712909	-	0	0	-39.58865248
chr14	78726017	78726017	-	0.00027555	0.00301264	-28.3355063
chr14	78726031	78726031	+	0	0	-36.7174878
chr14	78726032	78726032	-	0.00047883	0.00479778	-29.19559004
chr14	78726131	78726131	+	1.82E-07	4.29E-06	-31.81746283
chr14	78726243	78726243	-	4.48E-13	2.14E-11	-34.43240697
chr14	78726286	78726286	-	3.05E-08	8.15E-07	-28.79699248
chr14	78733324	78733324	+	0	0	-26.36559035
chr14	79289887	79289887	+	0	0	-28.88477801
chr14	79486747	79486747	+	0	0	-27.77138473
chr14	82741656	82741656	-	9.30E-08	2.30E-06	-31.4040493
chr14	86468178	86468178	-	0.00041329	0.00423908	-36.39937107
chr14	93499052	93499052	-	2.57E-06	4.87E-05	-33.52673021
chr14	101477770	101477770	+	0	0	-34.10613956
chr14	103059450	103059450	+	1.78E-13	8.82E-12	-33.18987123
chr14	103679822	103679822	+	5.49E-11	2.11E-09	-29.03307001
chr14	103679964	103679964	-	2.55E-15	1.51E-13	-39.17593529
chr14	103680007	103680007	-	9.40E-08	2.32E-06	-26.33583909
chr14	103814533	103814533	-	0	0	-25.22234371
chr14	103834659	103834659	-	2.02E-12	9.02E-11	-30.32520325
chr14	105432772	105432772	+	5.81E-08	1.49E-06	-25.19420618
chr14	105502873	105502873	+	3.78E-09	1.15E-07	-29.69388283
chr14	105502890	105502890	+	2.94E-09	9.11E-08	-29.91699005
chr14	105619737	105619737	-	1.18E-13	5.95E-12	-26.8166346
chr14	105676796	105676796	-	0	0	-27.56567511
chr14	105862246	105862246	+	1.11E-16	7.26E-15	-33.41801233
chr14	105920438	105920438	-	0	0	-34.96182906
chr14	105920864	105920864	+	1.57E-10	5.71E-09	-32.35675395
chr14	105920878	105920878	+	3.86E-11	1.51E-09	-30.70051366
chr14	118221997	118221997	-	0	0	-30.07741792
chr14	118222012	118222012	-	0	0	-28.19264274
chr14	118606700	118606700	+	3.01E-06	5.62E-05	-35.88591184
chr14	118699789	118699789	+	8.76E-06	0.00014694	-46.34146341
chr14	118892836	118892836	-	0	0	-29.86213871
chr14	118922620	118922620	+	0	0	-32.84533195
chr14	118922621	118922621	-	0	0	-28.96689822
chr14	118922628	118922628	+	0	0	-33.95953468
chr14	118922629	118922629	-	0	0	-33.23980433
chr14	120287260	120287260	-	0	0	-37.3557693

chr14	120287599	120287599	+	0	0	-37.5980174
chr14	120287619	120287619	+	0	0	-42.54448518
chr14	120287634	120287634	+	0	0	-33.14525051
chr14	120287635	120287635	-	0	0	-37.69828543
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chr14	120287645	120287645	-	0	0	-28.70725893
chr14	120287646	120287646	+	0	0	-29.01269612
chr14	120287647	120287647	-	0	0	-37.02344944
chr14	120287679	120287679	-	0	0	-32.04869909
chr14	120287833	120287833	-	0	0	-32.2368536
chr14	120637934	120637934	+	0	0	-31.53497593
chr14	120637974	120637974	+	0	0	-25.76096211
chr14	120638031	120638031	-	0	0	-39.08427196
chr14	121270589	121270589	-	0	0	-30.5067501
chr14	121505337	121505337	-	0	0	-32.62893323
chr14	121505509	121505509	-	8.04E-13	3.75E-11	-37.07763443
chr14	121506743	121506743	-	9.47E-14	4.84E-12	-26.50608968
chr14	121506837	121506837	-	0	0	-25.69939694
chr14	121597272	121597272	+	0	0	-25.67717362
chr14	121597273	121597273	-	0	0	-25.77668562
chr14	121660618	121660618	-	0	0	-30.50398915
chr14	121660761	121660761	-	0	0	-28.99423321
chr14	121781479	121781479	+	5.83E-14	3.04E-12	-31.87980299
chr14	121781506	121781506	+	1.11E-16	7.26E-15	-32.09449818
chr14	121903449	121903449	+	1.50E-13	7.50E-12	-28.50930746
chr14	122105343	122105343	-	2.92E-12	1.29E-10	-34.27230047
chr14	122179629	122179629	+	0	0	-27.4404131
chr14	122227256	122227256	+	0	0	-29.21994415
chr14	122227257	122227257	-	2.22E-16	1.43E-14	-36.22764228
chr14	122227354	122227354	+	0	0	-43.48360656
chr14	122227375	122227375	+	0	0	-39.41216877
chr14	122227376	122227376	-	0	0	-37.965112
chr14	122227406	122227406	-	0	0	-29.27770859
chr14	122227413	122227413	-	0	0	-27.57665361
chr14	122227415	122227415	+	1.11E-16	7.26E-15	-32.0168601
chr14	122227430	122227430	+	0	0	-39.78656801
chr14	122227441	122227441	+	1.24E-11	5.12E-10	-27.87946429
chr14	122227459	122227459	+	2.44E-15	1.44E-13	-41.1571558
chr14	122229215	122229215	+	0	0	-49.11368365
chr14	122229242	122229242	+	0	0	-28.24104126
chr14	122229245	122229245	+	0	0	-29.48943662

chr14	122229380	122229380	+	0	0	-29.53293645
chr14	122271289	122271289	+	0	0	-25.27054631
chr14	122462087	122462087	+	0	0	-25.95617404
chr14	122462108	122462108	+	0	0	-32.21415183
chr14	122462904	122462904	+	0	0	-27.86847872
chr14	122462910	122462910	+	0	0	-32.21438393
chr14	122462916	122462916	+	0	0	-30.73905404
chr14	122463071	122463071	-	0	0	-34.47218268
chr15	7223228	7223228	-	4.82E-06	8.60E-05	-33.22592195
chr15	8572403	8572403	+	3.63E-07	8.11E-06	-25.44713447
chr15	9094449	9094449	-	1.29E-12	5.90E-11	-37.16905024
chr15	9992344	9992344	+	0	0	-26.12980769
chr15	10237148	10237148	-	0	0	-25.87242563
chr15	11037647	11037647	-	0.00073223	0.00683057	36.8286445
chr15	11037685	11037685	-	3.89E-08	1.02E-06	-68.05555556
chr15	12375265	12375265	+	0	0	-25.46262706
chr15	12425235	12425235	+	1.02E-09	3.36E-08	-32.09459459
chr15	12425516	12425516	-	8.75E-06	0.00014687	-29.39958592
chr15	12439113	12439113	-	0	0	-29.85995211
chr15	12502354	12502354	-	0	0	-26.87358814
chr15	12502382	12502382	-	0	0	-28.21080341
chr15	25445803	25445803	+	1.26E-07	3.06E-06	-34.12056738
chr15	25609244	25609244	+	7.87E-07	1.65E-05	-28.63944333
chr15	25621535	25621535	-	5.97E-10	2.02E-08	-37.23404255
chr15	25637955	25637955	+	1.35E-08	3.80E-07	-26.36429277
chr15	25758919	25758919	+	4.04E-06	7.32E-05	-25.37035658
chr15	27631194	27631194	-	0.00016746	0.00196786	-32.60266371
chr15	27631203	27631203	-	3.77E-07	8.39E-06	-47.48904617
chr15	27862989	27862989	+	5.69E-13	2.69E-11	-48.84004884
chr15	27863108	27863108	-	0	0	-59.50193349
chr15	27863124	27863124	-	0	0	-28.75457875
chr15	27898391	27898391	+	2.02E-08	5.55E-07	-39.89361702
chr15	28051511	28051511	+	0	0	-30.94747212
chr15	28051512	28051512	-	0	0	-33.96543835
chr15	28051524	28051524	+	0	0	-28.24251681
chr15	28051525	28051525	-	0	0	-25.94280194
chr15	30447634	30447634	-	0	0	-37.13693405
chr15	31254765	31254765	-	0.00013395	0.00162345	-43.31983806
chr15	31309699	31309699	-	3.19E-14	1.70E-12	-27.08303074
chr15	31309712	31309712	-	1.23E-10	4.53E-09	-28.11059908
chr15	31369090	31369090	-	3.93E-11	1.53E-09	-48

chr15	31369135	31369135	-	6.68E-10	2.25E-08	-54.56674473
chr15	34316363	34316363	+	0.00039491	0.00408053	-38.00773694
chr15	36364313	36364313	-	2.51E-09	7.85E-08	-25.02782931
chr15	36381321	36381321	+	9.97E-12	4.15E-10	-25.66849817
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chr15	36456558	36456558	-	2.31E-12	1.03E-10	-26.49735826
chr15	36555469	36555469	-	0	0	-26.05015783
chr15	36656881	36656881	-	1.04E-07	2.56E-06	-27.52314815
chr15	36891930	36891930	+	5.72E-11	2.19E-09	-69.66101695
chr15	36891976	36891976	+	1.90E-08	5.23E-07	-60.91954023
chr15	36892690	36892690	+	0	0	-28.34343149
chr15	36892707	36892707	+	0	0	-43.11573674
chr15	36892724	36892724	+	0	0	-44.05644914
chr15	36892818	36892818	-	0	0	-39.25483738
chr15	36892850	36892850	+	9.62E-06	0.00015985	-42.14285714
chr15	36892851	36892851	-	1.44E-15	8.70E-14	-25.76269884
chr15	36892861	36892861	+	1.35E-05	0.00021683	-34.54545455
chr15	37234606	37234606	+	0	0	-25.94948849
chr15	37234607	37234607	-	0	0	-28.70474759
chr15	37234836	37234836	-	5.76E-13	2.72E-11	-38.31845238
chr15	37234869	37234869	-	1.83E-07	4.31E-06	-25.06471753
chr15	37242472	37242472	+	0	0	-44.43586973
chr15	37242491	37242491	+	0	0	-35.55749606
chr15	37242614	37242614	-	9.71E-07	2.00E-05	-34.42169341
chr15	37242644	37242644	-	5.69E-11	2.18E-09	-44.89010989
chr15	38077182	38077182	+	0	0	-28.12310972
chr15	38077183	38077183	-	0	0	-35.38185561
chr15	38077192	38077192	+	0	0	-32.07681873
chr15	38077193	38077193	-	0	0	-36.23048314
chr15	38077204	38077204	-	0	0	-28.216971
chr15	38138793	38138793	+	1.21E-05	0.00019565	55.74193548
chr15	38198757	38198757	+	7.27E-10	2.44E-08	-30.4138322
chr15	38198763	38198763	+	7.66E-09	2.24E-07	-27.28310502
chr15	38198938	38198938	-	7.63E-12	3.21E-10	-35.03401361
chr15	38320322	38320322	+	0.00069903	0.0065731	-27.67145136
chr15	38406339	38406339	+	0	0	-26.52159405
chr15	38406364	38406364	-	0	0	-30.21518808
chr15	38578522	38578522	+	0	0	-25.79848573
chr15	39616510	39616510	-	1.58E-05	0.00024885	-25.50685748
chr15	43869015	43869015	+	0	0	-25.80616318
chr15	43869465	43869465	-	0.00014364	0.00172427	40.86687307

chr15	45992844	45992844	-	1.01E-05	0.00016762	-52.24637681
chr15	51775218	51775218	-	0.0003029	0.00326399	-32.93108923
chr15	55196440	55196440	-	0	0	-43.09291982
chr15	55196487	55196487	-	0	0	-26.23407519
chr15	55265518	55265518	+	2.22E-15	1.32E-13	-26.30727123
chr15	55265555	55265555	+	0	0	-30.40205414
chr15	55265664	55265664	-	0	0	-56.35878421
chr15	55265706	55265706	-	0	0	-58.93327785
chr15	55265709	55265709	-	0	0	-36.91358025
chr15	57749430	57749430	+	7.45E-12	3.14E-10	-27.13121134
chr15	58975250	58975250	+	0	0	-27.55799672
chr15	58975287	58975287	-	0	0	-37.41170431
chr15	58979951	58979951	-	2.49E-05	0.00037281	-29.06976744
chr15	59005506	59005506	-	0	0	-27.42245526
chr15	59083171	59083171	+	0	0	-30.35948722
chr15	59083172	59083172	-	0.00033237	0.00353	-31.08831401
chr15	59083236	59083236	-	0	0	-36.84781182
chr15	59083250	59083250	-	0	0	-32.19781641
chr15	59344444	59344444	+	1.01E-06	2.07E-05	44.23076923
chr15	59634054	59634054	-	0	0	-28.77756675
chr15	59674189	59674189	+	0.00043256	0.00440362	-35.78431373
chr15	59674231	59674231	-	0	0	-29.76886291
chr15	59674275	59674275	+	0	0	-25.15380686
chr15	59674276	59674276	-	0	0	-27.81004361
chr15	59674284	59674284	+	0	0	-33.28035465
chr15	59674285	59674285	-	5.85E-06	0.00010229	-31.95895522
chr15	59680482	59680482	+	0	0	-35.87366493
chr15	59680483	59680483	-	0	0	-36.8610536
chr15	59680517	59680517	+	0	0	-32.48303997
chr15	59680518	59680518	-	0	0	-34.62952226
chr15	59680522	59680522	+	0	0	-39.26663597
chr15	59680527	59680527	+	0	0	-43.65015423
chr15	60822414	60822414	+	4.31E-12	1.86E-10	-26.75869809
chr15	60822506	60822506	-	0	0	-25.39112051
chr15	60822511	60822511	-	0	0	-30.37167456
chr15	60822532	60822532	-	0	0	-32.90974927
chr15	62181364	62181364	+	0	0	-33.11713907
chr15	62566246	62566246	+	0	0	-25.0166334
chr15	62566270	62566270	+	0	0	-27.48084118
chr15	63665394	63665394	+	0	0	-28.75553447
chr15	63665423	63665423	+	0	0	-35.72211161

chr15	63671179	63671179	+	1.17E-07	2.85E-06	-32.97035693
chr15	63671210	63671210	+	0	0	-30.31834696
chr15	63671211	63671211	-	1.05E-11	4.35E-10	-26.83503431
chr15	63671236	63671236	+	0	0	-37.09386628
chr15	63671319	63671319	-	0	0	-34.83890013
chr15	64043340	64043340	+	0.00017351	0.00202915	-30.54901961
chr15	64269478	64269478	-	0	0	-26.20996189
chr15	66891224	66891224	+	0	0	-45.80745342
chr15	66962028	66962028	+	1.29E-05	0.00020772	-27.31729055
chr15	66970381	66970381	+	6.03E-09	1.79E-07	-31.80500659
chr15	67040301	67040301	-	0	0	-27.32670796
chr15	67040317	67040317	+	0	0	-29.03835837
chr15	67040318	67040318	-	0	0	-29.21632057
chr15	67040329	67040329	-	0	0	-25.56755062
chr15	69913956	69913956	+	8.60E-06	0.00014453	-26.75753228
chr15	72946224	72946224	+	4.55E-06	8.15E-05	-30.18825639
chr15	73062013	73062013	+	1.81E-06	3.53E-05	-30.39832285
chr15	73468078	73468078	+	0	0	-47.16883341
chr15	73468085	73468085	+	0	0	-33.77714962
chr15	73468118	73468118	+	0	0	-32.24419282
chr15	73468154	73468154	-	0	0	-40.67070779
chr15	73468192	73468192	-	0	0	-25.93123953
chr15	73536089	73536089	+	0	0	-30.75075128
chr15	73643874	73643874	+	0	0	-32.58850713
chr15	73744057	73744057	+	1.73E-05	0.0002705	-27.92540023
chr15	73744282	73744282	-	0	0	-53.28913819
chr15	73755392	73755392	+	0	0	-30.9977264
chr15	73856987	73856987	+	2.22E-16	1.43E-14	-30.90183928
chr15	73857002	73857002	+	0	0	-33.51255515
chr15	74517490	74517490	-	3.82E-06	6.96E-05	-36.15384615
chr15	74667539	74667539	-	1.82E-05	0.00028293	-34.04558405
chr15	74676503	74676503	+	4.20E-09	1.27E-07	-42.12698413
chr15	74749766	74749766	-	7.56E-05	0.00098904	-44.38709677
chr15	75689827	75689827	-	0.00030128	0.0032491	-47.95783926
chr15	75689833	75689833	-	4.11E-07	9.07E-06	-65.74440053
chr15	75708819	75708819	-	0	0	-27.21549933
chr15	75708850	75708850	-	0	0	-32.80916428
chr15	75708865	75708865	+	0	0	-26.47544079
chr15	75708866	75708866	-	0	0	-33.56461733
chr15	75708976	75708976	+	0	0	-26.93724753
chr15	75709011	75709011	+	0	0	-34.83461102

chr15	75709022	75709022	+	0	0	-33.62240589
chr15	75724238	75724238	-	4.44E-11	1.72E-09	-25.89037323
chr15	75818767	75818767	+	0	0	-26.37865177
chr15	75818775	75818775	+	0	0	-32.47281174
chr15	75818926	75818926	-	2.56E-07	5.88E-06	-33.49275362
chr15	75818934	75818934	-	5.99E-06	0.00010448	-29.38140529
chr15	75908073	75908073	+	0.00013884	0.00167422	-25.97402597
chr15	75910625	75910625	+	0	0	-27.34533415
chr15	75910724	75910724	+	0	0	-27.58482184
chr15	75910725	75910725	-	0	0	-34.50688266
chr15	75910750	75910750	-	0	0	-32.41043777
chr15	76009078	76009078	+	1.57E-05	0.00024823	-26.06516291
chr15	76087178	76087178	+	4.32E-07	9.52E-06	-37.10990502
chr15	76087224	76087224	+	1.02E-08	2.92E-07	-40.72963518
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chr15	76090101	76090101	+	0	0	-40.03921326
chr15	76090137	76090137	-	0	0	-33.52573293
chr15	76194662	76194662	-	2.90E-14	1.55E-12	-26.78743961
chr15	76194694	76194694	-	3.79E-11	1.48E-09	-26.35321967
chr15	76200475	76200475	+	0	0	-29.83211395
chr15	76200578	76200578	-	0	0	-26.15848947
chr15	76205643	76205643	+	2.44E-06	4.64E-05	-28.80952381
chr15	76205844	76205844	-	2.72E-09	8.46E-08	-28.43822844
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chr15	76206115	76206115	+	0	0	-27.88962564
chr15	76208938	76208938	+	3.66E-15	2.14E-13	-28.66676778
chr15	76229148	76229148	-	0	0	-34.01791513
chr15	76229150	76229150	-	0	0	-29.87558032
chr15	76229183	76229183	-	0	0	-26.82361844
chr15	76229206	76229206	+	0	0	-25.62473002
chr15	76229210	76229210	+	0	0	-32.90423993
chr15	76233410	76233410	-	0	0	-32.15425239
chr15	76293468	76293468	+	0	0	-31.46504559
chr15	76377828	76377828	+	0	0	-27.42714036
chr15	76458965	76458965	-	2.53E-12	1.12E-10	-32.75007465
chr15	76462098	76462098	+	5.74E-07	1.24E-05	-38.63636364
chr15	76462134	76462134	+	0.00049193	0.00490736	-37.67942584
chr15	76462293	76462293	-	1.34E-11	5.50E-10	-27.03818259
chr15	76466013	76466013	-	0.00031301	0.00335629	-34.95276653

chr15	76517363	76517363	-	1.59E-11	6.49E-10	-29.67969797
chr15	76618530	76618530	+	2.03E-08	5.58E-07	-32.40950226
chr15	76666856	76666856	+	0	0	-29.78300281
chr15	76666911	76666911	-	0	0	-33.22418585
chr15	76666938	76666938	+	5.82E-10	1.98E-08	-49.38604373
chr15	76666939	76666939	-	0	0	-36.58773429
chr15	76666953	76666953	+	0.00026519	0.00291668	-25.66137566
chr15	76666960	76666960	+	8.38E-08	2.09E-06	-43.56872636
chr15	76666961	76666961	-	1.16E-08	3.31E-07	-35.53082192
chr15	76666965	76666965	-	1.21E-05	0.00019628	-30.1369863
chr15	76666967	76666967	+	0	0	-44.47247374
chr15	76666973	76666973	+	0	0	-42.69145489
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chr15	76667061	76667061	-	0	0	-41.42603808
chr15	76667077	76667077	-	0	0	-48.83432788
chr15	76667079	76667079	-	0	0	-46.43337667
chr15	76667094	76667094	+	0	0	-49.24664091
chr15	76667101	76667101	+	0	0	-42.52951477
chr15	76667217	76667217	+	5.43E-05	0.0007413	-34.17190776
chr15	76667245	76667245	-	0	0	-33.54999726
chr15	76667255	76667255	-	0	0	-36.6534002
chr15	76667258	76667258	-	0	0	-32.07435132
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chr15	76667291	76667291	+	1.29E-08	3.65E-07	-33.69106141
chr15	76667292	76667292	-	0	0	-27.93597531
chr15	76667294	76667294	+	9.76E-09	2.81E-07	-34.87270156
chr15	76667297	76667297	+	2.32E-08	6.32E-07	-31.23376167
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chr15	76725193	76725193	-	5.03E-06	8.93E-05	-38.43137255
chr15	77344267	77344267	-	0	0	-29.88977156
chr15	77344301	77344301	+	0	0	-27.70737327
chr15	77356785	77356785	+	0	0	-28.74449923
chr15	77356823	77356823	+	0	0	-27.58246535
chr15	77356851	77356851	+	1.71E-05	0.00026668	-30.25
chr15	77798182	77798182	+	0	0	-29.25179003
chr15	77798183	77798183	-	0	0	-34.23726298
chr15	77857926	77857926	+	1.36E-05	0.00021808	-36.66666667
chr15	77857931	77857931	+	4.66E-06	8.34E-05	-40
chr15	77857939	77857939	+	4.66E-06	8.34E-05	-40
chr15	77882908	77882908	-	0	0	-28.31023568
chr15	77882937	77882937	-	0	0	-30.20590288



chr15	78081906	78081906	+	0.00023066	0.0025881	-33.82059801
chr15	78081949	78081949	+	0.00101252	0.00892205	-36.521181
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chr15	78188445	78188445	+	4.89E-05	0.00067653	-28.57142857
chr15	78409754	78409754	+	0	0	-26.85227425
chr15	78409944	78409944	-	0	0	-42.82888913
chr15	78410197	78410197	-	3.61E-14	1.92E-12	-53.61111111
chr15	78410199	78410199	-	0	0	-67.48589847
chr15	78410206	78410206	-	2.88E-07	6.54E-06	-35.62091503
chr15	78410209	78410209	-	0	0	-68.89184216
chr15	78410211	78410211	-	5.88E-13	2.78E-11	-46.82715552
chr15	78410224	78410224	-	2.35E-08	6.38E-07	-35.87301587
chr15	78410234	78410234	-	7.13E-11	2.70E-09	-44.28887994
chr15	78410237	78410237	+	4.79E-08	1.24E-06	-26.38888889
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chr15	78410568	78410568	-	0	0	-38.83383157
chr15	78410621	78410621	+	0	0	-36.82176526
chr15	78437035	78437035	+	1.11E-16	7.26E-15	-38.29275362
chr15	78437044	78437044	+	0	0	-46.50144928
chr15	78437045	78437045	-	0	0	-57.38464248
chr15	78437070	78437070	+	9.31E-12	3.89E-10	-32.08197371
chr15	78437071	78437071	-	0	0	-42.33112257
chr15	78437074	78437074	-	0	0	-44.4722875
chr15	78438509	78438509	-	0	0	-25.71497616
chr15	78635975	78635975	+	3.59E-14	1.90E-12	-30.57324841
chr15	78671996	78671996	-	0	0	-27.58359128
chr15	78672051	78672051	+	0	0	-32.10479985
chr15	78672174	78672174	-	6.52E-07	1.39E-05	-26.89935065
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chr15	78672212	78672212	-	1.11E-13	5.63E-12	-38.48120182
chr15	78674550	78674550	-	0	0	-28.8803582
chr15	78684321	78684321	+	1.20E-07	2.90E-06	-27.28732411
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chr15	78684357	78684357	+	3.73E-08	9.83E-07	-26.87135097
chr15	78684490	78684490	-	0	0	-28.20578744
chr15	78802052	78802052	-	0	0	-35.55264674
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chr15	78803573	78803573	-	4.54E-08	1.18E-06	-38.6977887
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chr15	78803594	78803594	-	0	0	-30.53342316
chr15	78803642	78803642	+	0	0	-27.96243901
chr15	78803643	78803643	-	0	0	-30.42166978
chr15	78832555	78832555	-	1.13E-14	6.30E-13	-36.61736371
chr15	78832875	78832875	+	0	0	-25.49905399
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chr15	78833055	78833055	+	0	0	-26.10652697
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chr15	78844265	78844265	+	0	0	-32.14553638
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chr15	78844841	78844841	+	3.26E-05	0.00047412	-32.40207373
chr15	78844844	78844844	+	0.0004927	0.00491384	-27.04493088
chr15	78844857	78844857	+	2.63E-06	4.98E-05	-36.48235621
chr15	78844886	78844886	+	5.69E-11	2.18E-09	-49.91928975
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chr15	78889722	78889722	+	1.55E-15	9.35E-14	-35.1195078
chr15	78889723	78889723	-	0	0	-34.082969
chr15	78889765	78889765	-	0	0	-27.6082752
chr15	78894384	78894384	+	0	0	-27.08184585
chr15	78923000	78923000	+	8.19E-14	4.21E-12	-30.52636495
chr15	78923044	78923044	+	5.65E-12	2.41E-10	-27.53442077
chr15	78942721	78942721	-	0	0	-31.2441815
chr15	78977135	78977135	+	8.88E-15	4.99E-13	-28.06498481
chr15	78977158	78977158	+	0	0	-30.4308674
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chr15	79517156	79517156	+	1.21E-11	4.99E-10	-57.95559667
chr15	79740222	79740222	-	0	0	-32.59852217
chr15	79740226	79740226	-	3.09E-14	1.65E-12	-28.27038862
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chr15	79933440	79933440	+	0	0	-29.37794938
chr15	79933441	79933441	-	0	0	-31.99295949
chr15	79935770	79935770	+	0	0	-26.80247079
chr15	79951063	79951063	-	0	0	-34.6465318
chr15	79952145	79952145	-	0	0	-25.79578411
chr15	80004364	80004364	+	0	0	-31.47504376

chr15	80004445	80004445	+	1.11E-15	6.76E-14	-35.07414915
chr15	80004446	80004446	-	0	0	-26.96557457
chr15	80009694	80009694	+	0	0	-28.34783443
chr15	80009739	80009739	-	0	0	-33.97753567
chr15	80024064	80024064	+	4.62E-05	0.00064377	-38.1920904
chr15	80025837	80025837	-	0	0	-25.26337781
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chr15	80051590	80051590	+	0	0	-39.75744731
chr15	80051617	80051617	+	0	0	-43.28341295
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chr15	80051688	80051688	+	0	0	-34.03962311
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chr15	80057455	80057455	-	0	0	-40.27096504
chr15	80057482	80057482	-	0	0	-29.06605411
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chr15	80092581	80092581	-	0	0	-30.09311795
chr15	80092583	80092583	-	0	0	-39.18725356
chr15	80092598	80092598	+	1.67E-15	9.99E-14	-30.27514191
chr15	80092599	80092599	-	0	0	-37.00939432
chr15	80092766	80092766	-	3.33E-16	2.11E-14	-28.45507394
chr15	80332907	80332907	-	0.00032132	0.00343149	-36.00543478
chr15	80364263	80364263	-	0	0	-25.92911872
chr15	80452613	80452613	-	0	0	-26.29699374
chr15	80452627	80452627	+	9.77E-15	5.47E-13	-25.70709106
chr15	80458049	80458049	-	0.00041759	0.00427593	-26.76311031
chr15	80626497	80626497	-	0	0	-28.37967302
chr15	80671438	80671438	+	0	0	-30.04098361
chr15	81049796	81049796	-	1.87E-12	8.42E-11	-27.69847824
chr15	81142288	81142288	+	0	0	-42.24660397
chr15	81142311	81142311	+	0	0	-38.7434717
chr15	81142312	81142312	-	0	0	-35.47991505

chr15	81142345	81142345	-	0	0	-34.39302564
chr15	81142353	81142353	-	0	0	-35.19550901
chr15	81191467	81191467	+	3.25E-08	8.65E-07	-33.41224747
chr15	81694954	81694954	-	0	0	-29.14608372
chr15	81933233	81933233	+	1.32E-07	3.19E-06	-29.19920858
chr15	81937299	81937299	+	1.80E-05	0.00027977	-26.03379416
chr15	81943216	81943216	-	0	0	-26.96690822
chr15	82155205	82155205	-	5.30E-05	0.00072581	-37.14001986
chr15	82164565	82164565	+	0	0	-29.47659864
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chr15	82911557	82911557	+	0	0	-25.27466486
chr15	82917451	82917451	-	0	0	-31.39937845
chr15	82917534	82917534	+	0	0	-27.38730196
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chr15	82917604	82917604	-	0	0	-32.64659477
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chr15	82952475	82952475	+	0	0	-41.38875702
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chr15	82952477	82952477	+	0	0	-34.15101501
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chr15	82961238	82961238	+	1.11E-16	7.26E-15	-25.30634529
chr15	82961347	82961347	-	0	0	-32.67151767
chr15	82961361	82961361	+	0	0	-35.33436003
chr15	82961363	82961363	+	0	0	-32.00832428
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chr15	82968770	82968770	-	7.97E-08	1.99E-06	-31.23605533
chr15	82968799	82968799	-	0.00049456	0.00492925	-26.72946718
chr15	82983211	82983211	+	0	0	-33.17731348
chr15	82983242	82983242	+	0	0	-26.63185133
chr15	82983243	82983243	-	0	0	-33.58456434
chr15	82983272	82983272	-	0	0	-27.0115459
chr15	82993061	82993061	+	0	0	-28.76207339
chr15	82993069	82993069	+	0	0	-27.04145964

chr15	83089408	83089408	+	0	0	-40.56413339
chr15	83089412	83089412	+	0	0	-27.12497383
chr15	83089546	83089546	-	8.43E-09	2.45E-07	-25.06166593
chr15	83251907	83251907	-	1.44E-15	8.70E-14	-30.00344284
chr15	83523447	83523447	+	0	0	-44.30535913
chr15	83523474	83523474	+	4.44E-16	2.79E-14	-42.04991033
chr15	83525624	83525624	+	0.00106741	0.0093129	-32.86956522
chr15	83525788	83525788	-	3.89E-15	2.26E-13	-26.91842685
chr15	83527496	83527496	-	0	0	-28.80687094
chr15	83527504	83527504	-	0	0	-32.84932806
chr15	83527533	83527533	-	0	0	-26.84697603
chr15	83594015	83594015	+	2.27E-06	4.35E-05	-38.75
chr15	84238707	84238707	-	0	0	-25.33630316
chr15	84239345	84239345	+	1.23E-05	0.00019939	-31.06060606
chr15	84239346	84239346	-	0	0	-34.31347563
chr15	84239350	84239350	+	2.65E-08	7.15E-07	-43.70874587
chr15	84239351	84239351	-	1.11E-16	7.26E-15	-33.65052272
chr15	84239353	84239353	+	1.09E-06	2.23E-05	-36.67719853
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chr15	84239356	84239356	-	4.44E-16	2.79E-14	-31.67377854
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chr15	84314540	84314540	-	1.82E-06	3.56E-05	-31.68067227
chr15	84409457	84409457	-	0.00010357	0.00130002	-29.76190476
chr15	84420227	84420227	+	2.09E-09	6.61E-08	-40.82417582
chr15	84420253	84420253	+	1.02E-08	2.92E-07	-39.15618735
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chr15	84467001	84467001	-	0	0	-27.26769912
chr15	84545257	84545257	+	7.01E-05	0.00092669	-40.97222222
chr15	84621851	84621851	+	0.00011654	0.00143848	-31.71247357
chr15	84719566	84719566	+	3.56E-11	1.39E-09	-32.63662512
chr15	84719567	84719567	-	8.50E-10	2.83E-08	-30.60464529
chr15	84756458	84756458	+	0	0	-40.4241478
chr15	84756463	84756463	+	0	0	-33.94403678
chr15	84756468	84756468	+	0	0	-37.79694864
chr15	84756496	84756496	+	0	0	-26.05440777
chr15	84756505	84756505	+	0	0	-28.72650195
chr15	84756584	84756584	-	0	0	-26.68510939
chr15	84756593	84756593	-	0	0	-31.60645141
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chr15	84756644	84756644	+	0	0	-42.99812389
chr15	84756709	84756709	-	0	0	-36.06600314
chr15	84756755	84756755	+	0	0	-41.78549242
chr15	84756756	84756756	-	0	0	-38.90810277
chr15	84756760	84756760	+	0	0	-38.8574651
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chr15	85034159	85034159	-	0	0	-28.72392842
chr15	85167262	85167262	+	0	0	-28.92083866
chr15	85337306	85337306	+	3.16E-05	0.00046095	-25.01936945
chr15	85524796	85524796	+	2.77E-13	1.35E-11	-37.67478709
chr15	85524843	85524843	+	4.25E-08	1.11E-06	-29.80839195
chr15	85543027	85543027	+	0	0	-31.65340293
chr15	85543058	85543058	+	0	0	-31.70642686
chr15	85543836	85543836	-	7.51E-06	0.00012797	-25.83708146
chr15	85606254	85606254	-	0	0	-26.567757
chr15	85615323	85615323	-	7.67E-06	0.00013044	-25.39764511
chr15	85615351	85615351	+	1.09E-06	2.23E-05	-27.08545557
chr15	85615376	85615376	+	7.60E-08	1.91E-06	-32.88288288
chr15	85615394	85615394	+	6.83E-08	1.73E-06	-31.61490683
chr15	85724674	85724674	-	0	0	-25.05843769
chr15	85943175	85943175	-	8.62E-14	4.42E-12	-38.20224719
chr15	85949595	85949595	-	0.00061692	0.0059281	-25.6155303
chr15	85961358	85961358	+	0	0	-36.3124946
chr15	85961367	85961367	+	0	0	-34.58251709
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chr15	86028260	86028260	-	0	0	-25.73054767
chr15	86060929	86060929	-	0	0	-26.65233477
chr15	86060959	86060959	+	1.44E-15	8.70E-14	-30.15623218
chr15	86081206	86081206	+	2.43E-08	6.60E-07	-30.19253772
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chr15	89068118	89068118	-	0	0	-28.19067456
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chr15	89068160	89068160	+	1.52E-06	3.01E-05	-37.41258741
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chr15	89068332	89068332	-	1.11E-16	7.26E-15	-28.61203642
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chr15	89068343	89068343	+	0	0	-26.83364809
chr15	89068346	89068346	+	0	0	-25.0118788
chr15	89068350	89068350	+	0	0	-26.18855714
chr15	89068360	89068360	+	0	0	-25.14260082
chr15	89068391	89068391	-	0	0	-36.50426608
chr15	89068398	89068398	-	0	0	-35.82338641
chr15	89068400	89068400	-	0	0	-29.03359024
chr15	89068414	89068414	-	0	0	-25.31993033
chr15	89068422	89068422	-	0	0	-36.23463582
chr15	89127918	89127918	-	0.00013458	0.00162996	-28.28282828
chr15	89181290	89181290	-	8.99E-15	5.05E-13	-26.05121966
chr15	89322905	89322905	+	1.99E-11	8.02E-10	-51.11111111
chr15	89322921	89322921	+	0.00014375	0.00172542	-26.40062598
chr15	89322932	89322932	+	1.12E-07	2.74E-06	-38.92009988
chr15	89323130	89323130	-	2.00E-15	1.19E-13	-33.51313321
chr15	89323159	89323159	-	8.14E-14	4.18E-12	-31.9843713
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chr15	89323166	89323166	+	6.79E-13	3.19E-11	-33.86115032
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chr15	89323351	89323351	-	0	0	-27.91428803
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chr15	89425484	89425484	+	1.20E-14	6.65E-13	-26.0977682
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chr15	97373488	97373488	-	0	0	-34.53797468
chr15	97373739	97373739	-	0.0001266	0.00154572	-25.34965035
chr15	97373752	97373752	+	4.77E-13	2.27E-11	-32.27272727
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chr15	97745585	97745585	+	0.00054762	0.00536862	26.65964173
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chr15	97782696	97782696	-	4.71E-07	1.03E-05	-25.80645161
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chr15	98776935	98776935	-	0	0	-48.54093567
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chr15	98776947	98776947	+	3.50E-05	0.00050369	-26.62337662
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chr15	98780818	98780818	-	0	0	-42.48470109
chr15	98803151	98803151	-	4.34E-05	0.00060986	-26.53215637
chr15	98806658	98806658	-	0	0	-40.04554865
chr15	98806679	98806679	+	0	0	-32.83371348
chr15	98891143	98891143	-	5.44E-07	1.18E-05	-29.65440357
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chr15	98896172	98896172	+	6.26E-14	3.25E-12	-27.61388982
chr15	98898848	98898848	-	3.77E-15	2.20E-13	-25.90331742
chr15	98991581	98991581	+	3.19E-12	1.40E-10	-30.93720548
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chr15	100577990	100577990	+	0.00040941	0.00420567	-29.62962963
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chr15	100685347	100685347	-	0	0	-43.8125
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chr15	100729915	100729915	+	0	0	-30.40275314
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chr15	100972986	100972986	-	3.78E-05	0.00053857	-27.8021978
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chr15	101066599	101066599	-	1.81E-05	0.00028044	-33.03571429
chr15	101079559	101079559	+	0	0	-38.3336367
chr15	101079584	101079584	+	0	0	-33.24807457
chr15	101079600	101079600	+	0	0	-40.6091595
chr15	101133044	101133044	-	0	0	-29.40945163
chr15	101133132	101133132	-	0	0	-26.5117211
chr15	101133211	101133211	-	1.99E-13	9.84E-12	-28.24305904
chr15	101134177	101134177	+	0	0	-25.17182464
chr15	101135626	101135626	+	2.22E-16	1.43E-14	-31.73413012
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chr15	101190729	101190729	+	0.00047122	0.00473313	-25.79530561
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chr15	101308852	101308852	+	0	0	-30.18369101
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chr15	101308874	101308874	-	0	0	-25.82935288
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chr15	101930688	101930688	+	0	0	-30.42682145
chr15	101942827	101942827	+	0.00044763	0.00453322	-27.21088435
chr15	101955100	101955100	+	5.55E-08	1.42E-06	45.22691706
chr15	102004442	102004442	-	2.22E-06	4.25E-05	-36.75757576
chr15	102004480	102004480	-	1.07E-09	3.53E-08	-44.0444092
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chr15	102107080	102107080	-	1.59E-11	6.49E-10	-25.98007364
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chr15	102107111	102107111	-	8.88E-16	5.45E-14	-31.2254902
chr15	102107114	102107114	+	1.60E-06	3.16E-05	-29.13805352
chr15	102107121	102107121	+	3.53E-06	6.49E-05	-28.06832298
chr15	102107308	102107308	-	1.62E-05	0.00025501	-29.74017193
chr15	102107333	102107333	-	3.18E-07	7.17E-06	-34.82758621
chr15	102118165	102118165	+	0	0	-31.63432292
chr15	102118173	102118173	+	5.55E-16	3.46E-14	-25.83814808
chr15	102144282	102144282	+	0	0	-37.31801313
chr15	102144286	102144286	+	0	0	-27.66628604
chr15	102144370	102144370	+	0	0	-35.62475097
chr15	102144457	102144457	+	0	0	-29.87171869
chr15	102144458	102144458	-	0	0	-32.74988844
chr15	102144610	102144610	-	0	0	-28.87525978
chr15	102144623	102144623	-	0	0	-28.94362939
chr15	102144631	102144631	-	0	0	-34.10898694
chr15	102144673	102144673	+	0	0	-29.55784868
chr15	102144700	102144700	-	0	0	-34.48164412
chr15	102144706	102144706	-	0	0	-33.00106232
chr15	102144730	102144730	+	3.70E-05	0.00052914	-25.35714286
chr15	102144731	102144731	-	0	0	-34.92547425
chr15	102144763	102144763	+	8.96E-12	3.75E-10	-30.17314962
chr15	102157031	102157031	+	0	0	-27.92433505
chr15	102240717	102240717	-	0	0	-32.24852071
chr15	102256601	102256601	-	1.63E-07	3.86E-06	-34.07005838
chr15	102256862	102256862	-	2.10E-07	4.88E-06	-26.07361963
chr15	102258914	102258914	+	0	0	-40.46248602
chr15	102259102	102259102	-	1.58E-09	5.06E-08	-28.86851154
chr15	102356327	102356327	-	0	0	-26.4088686
chr15	102366445	102366445	+	1.56E-13	7.81E-12	-27.49685139

chr15	102366463	102366463	+	7.18E-12	3.03E-10	-25.79690461
chr15	102370648	102370648	+	0	0	-34.02404594
chr15	102370793	102370793	-	0	0	-28.68552637
chr15	102370801	102370801	-	0	0	-27.68000729
chr15	102386972	102386972	-	5.52E-05	0.00075249	-27.65306122
chr15	102511758	102511758	-	2.44E-05	0.00036643	-28.18905473
chr15	102673698	102673698	+	0	0	-34.57418739
chr15	102673877	102673877	+	0	0	-25.8433261
chr15	102673912	102673912	+	0	0	-26.48900539
chr15	103012330	103012330	-	6.00E-15	3.43E-13	-33.97879754
chr15	103015622	103015622	-	0	0	-30.85367247
chr15	103035944	103035944	+	0	0	-29.41625188
chr15	103039144	103039144	+	0	0	-27.45608443
chr15	103115166	103115166	+	0.00103004	0.00904832	-28.34612106
chr15	103168025	103168025	-	0	0	-25.47639132
chr15	103170397	103170397	+	3.84E-09	1.17E-07	-27.75293923
chr15	103186201	103186201	+	0.00025313	0.00280198	-25.08196721
chr15	103308468	103308468	+	2.60E-13	1.27E-11	-28.33540373
chr15	103308471	103308471	+	1.11E-16	7.26E-15	-35.48865449
chr15	103308489	103308489	+	0	0	-29.11940299
chr15	103308509	103308509	+	0	0	-51.90139973
chr15	103308516	103308516	+	0	0	-51.19356645
chr15	103308762	103308762	+	0.00024874	0.00276075	-25.5852001
chr15	103308790	103308790	+	9.74E-07	2.01E-05	-32.36936292
chr15	103309004	103309004	-	3.91E-12	1.70E-10	-32.97095197
chr15	103309021	103309021	-	8.04E-08	2.01E-06	-25.95041322
chr15	103309042	103309042	-	2.44E-09	7.64E-08	-25.26315789
chr15	103309128	103309128	+	6.83E-05	0.00090625	-27.73279352
chr15	103314541	103314541	-	5.88E-15	3.37E-13	-25.30443513
chr15	103315139	103315139	-	1.50E-06	2.98E-05	-52.14285714
chr15	103315149	103315149	-	6.01E-07	1.29E-05	-52.08333333
chr15	103315158	103315158	-	5.97E-05	0.0008061	-41.66666667
chr15	103315183	103315183	+	0	0	-39.36999454
chr15	103315184	103315184	-	1.98E-09	6.26E-08	-62.28571429
chr15	103315220	103315220	+	0	0	-45.32824296
chr15	103315258	103315258	-	0	0	-45.79416769
chr15	103315289	103315289	+	0	0	-27.89142781
chr15	103315290	103315290	-	0	0	-36.10102138
chr15	103323075	103323075	+	0	0	-26.98451244
chr15	103339100	103339100	+	0	0	-26.99167867
chr15	103529552	103529552	+	0	0	-28.39418646

chr15	103529569	103529569	+	0	0	-34.07407407
chr16	3689581	3689581	+	4.44E-16	2.79E-14	-33.58101135
chr16	3689593	3689593	+	5.39E-11	2.07E-09	-25.09182152
chr16	4418916	4418916	+	0	0	-28.10022769
chr16	4418944	4418944	+	0	0	-29.59227699
chr16	4419171	4419171	-	0	0	-25.57292891
chr16	4593565	4593565	+	0.00036102	0.00378515	-28.86446886
chr16	4593849	4593849	-	9.82E-06	0.00016281	-36.61897191
chr16	4603194	4603194	+	5.46E-05	0.00074514	-51.30434783
chr16	4603380	4603380	-	5.88E-06	0.0001028	-25.22416107
chr16	4670519	4670519	+	3.55E-05	0.00051057	-30.23655914
chr16	4718549	4718549	+	2.37E-08	6.44E-07	-34.70996217
chr16	5089224	5089224	+	0.00035227	0.00370702	-31.42857143
chr16	8828890	8828890	+	0.00018544	0.00214837	-31.66666667
chr16	9196106	9196106	+	1.61E-07	3.83E-06	-26.86174585
chr16	10299782	10299782	-	3.00E-11	1.19E-09	-31.29521115
chr16	10788656	10788656	-	6.54E-06	0.00011303	-26.50423244
chr16	10796658	10796658	+	0	0	-26.67210638
chr16	10796664	10796664	+	0	0	-37.98820696
chr16	10796673	10796673	+	0	0	-37.2969859
chr16	10796682	10796682	+	0	0	-32.56405519
chr16	10796685	10796685	+	0	0	-39.77277426
chr16	10796710	10796710	-	0	0	-37.93406313
chr16	10796719	10796719	-	0	0	-25.58781811
chr16	10796747	10796747	-	0	0	-31.50151277
chr16	10811333	10811333	-	0	0	-27.10390148
chr16	10811459	10811459	-	0	0	-28.17445483
chr16	10868150	10868150	+	1.15E-06	2.34E-05	-27.65868012
chr16	10979213	10979213	+	0	0	-27.46410691
chr16	10979240	10979240	+	0	0	-25.76588602
chr16	10979241	10979241	-	0	0	-32.23055022
chr16	11494973	11494973	+	8.30E-11	3.12E-09	-26.98412698
chr16	11494974	11494974	-	3.55E-05	0.00051029	-27.43589744
chr16	11494994	11494994	+	4.62E-14	2.43E-12	-29.81189851
chr16	11631573	11631573	+	0	0	-35.89822699
chr16	11631659	11631659	-	0	0	-25.61314791
chr16	11631678	11631678	-	0	0	-29.31623688
chr16	13446743	13446743	+	0.00033966	0.00359612	-40.25974026
chr16	13447041	13447041	+	0	0	-29.23883782
chr16	13447080	13447080	+	0	0	-30.66625493
chr16	13447081	13447081	-	0	0	-28.33557348

chr16	13447119	13447119	+	4.60E-12	1.98E-10	-26.39380904
chr16	13868174	13868174	-	0	0	-33.92070807
chr16	13868187	13868187	-	7.66E-15	4.33E-13	-26.16008023
chr16	13868203	13868203	-	6.99E-14	3.62E-12	-25.52325581
chr16	13868263	13868263	+	0	0	-32.36259542
chr16	16912157	16912157	+	2.86E-13	1.39E-11	-35.18653101
chr16	17078833	17078833	-	1.69E-07	3.99E-06	-26.52894491
chr16	17144040	17144040	+	3.08E-06	5.73E-05	-25.87591241
chr16	17148115	17148115	+	0	0	-36.2386425
chr16	17148116	17148116	-	0	0	-34.46094609
chr16	17148162	17148162	+	0	0	-34.73522532
chr16	17148163	17148163	-	0	0	-34.96899049
chr16	17148193	17148193	+	0	0	-35.09914193
chr16	17148194	17148194	-	0	0	-36.52135984
chr16	17148211	17148211	+	0	0	-40.94950289
chr16	17148230	17148230	+	0	0	-46.24506249
chr16	17148232	17148232	+	0	0	-36.09355509
chr16	17148274	17148274	-	0	0	-37.42665253
chr16	17148292	17148292	-	0	0	-44.0681676
chr16	17232920	17232920	+	0	0	-26.06943596
chr16	17232961	17232961	+	0	0	-34.33808837
chr16	17232962	17232962	-	0	0	-28.49716881
chr16	17255027	17255027	+	0	0	-28.72373869
chr16	17255066	17255066	-	0	0	-43.70617067
chr16	17490185	17490185	+	4.07E-09	1.24E-07	-32.1355398
chr16	17499587	17499587	-	0	0	-31.69612572
chr16	17559372	17559372	-	9.88E-06	0.00016373	-36.58385093
chr16	17560990	17560990	+	1.48E-05	0.00023511	-27.29875708
chr16	17560994	17560994	+	8.22E-08	2.05E-06	-25.46487603
chr16	17561023	17561023	+	4.55E-07	9.98E-06	-31.22413144
chr16	17815015	17815015	+	1.64E-08	4.55E-07	-33.25017405
chr16	17927375	17927375	+	0	0	-30.57847782
chr16	18154676	18154676	-	1.78E-15	1.06E-13	-26.96692112
chr16	18154712	18154712	+	0	0	-25.95301479
chr16	18154713	18154713	-	0	0	-25.67959575
chr16	18235936	18235936	-	0	0	-30.32940598
chr16	18347923	18347923	+	0	0	-26.91017789
chr16	18416522	18416522	+	0	0	-26.61836664
chr16	18416540	18416540	+	0	0	-28.31336744
chr16	18416612	18416612	-	0	0	-31.35051774
chr16	18583287	18583287	+	0	0	-28.19394571

chr16	18584646	18584646	+	4.72E-14	2.48E-12	-30.73372721
chr16	18585491	18585491	+	0	0	-37.88225188
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chr16	18585553	18585553	-	0	0	-33.26149833
chr16	18585745	18585745	-	0	0	-41.20519481
chr16	18585752	18585752	-	0	0	-46.83902041
chr16	18585764	18585764	-	0	0	-36.28139418
chr16	18586115	18586115	+	0	0	-38.63983113
chr16	18586116	18586116	-	0	0	-34.51003292
chr16	18588685	18588685	+	1.11E-16	7.26E-15	-37.00770548
chr16	18588686	18588686	-	0	0	-36.57894737
chr16	18588692	18588692	+	3.52E-13	1.70E-11	-28.63395225
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chr16	18588920	18588920	+	0	0	-27.5
chr16	18588921	18588921	-	0	0	-28.20698005
chr16	18588938	18588938	+	0	0	-45.3125
chr16	18588939	18588939	-	0	0	-44.26508071
chr16	18588946	18588946	+	0	0	-33.4956964
chr16	18588947	18588947	-	0	0	-26.55857086
chr16	18588957	18588957	+	0	0	-33.12101911
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chr16	18588965	18588965	+	0	0	-30.61345178
chr16	18588966	18588966	-	0	0	-32.16323094
chr16	18588970	18588970	+	0	0	-25.14865431
chr16	18588971	18588971	-	0	0	-29.40224612
chr16	18622945	18622945	-	1.40E-08	3.93E-07	-30.53140097
chr16	18622952	18622952	-	4.34E-07	9.54E-06	-25.89371981
chr16	18624048	18624048	+	0	0	-27.38536418
chr16	18624153	18624153	+	1.47E-05	0.00023297	-26.71782763
chr16	18683780	18683780	-	8.21E-08	2.05E-06	-27.98444628
chr16	18733612	18733612	+	1.22E-05	0.00019795	-37.53246753
chr16	18775988	18775988	+	0	0	-29.6509192
chr16	18775999	18775999	+	0	0	-28.82452122
chr16	18776064	18776064	-	0	0	-30.1580947
chr16	20701657	20701657	+	1.08E-11	4.46E-10	-32.08114611
chr16	20701898	20701898	-	1.76E-09	5.61E-08	-48.17251462
chr16	20701906	20701906	+	0	0	-39.25781078
chr16	20702055	20702055	-	0	0	-52.45402663

chr16	20702086	20702086	-	0	0	-51.99441057
chr16	20713760	20713760	-	0	0	-26.48685645
chr16	21000216	21000216	-	2.95E-06	5.52E-05	-26.74418605
chr16	21080637	21080637	+	0.00014458	0.00173407	-30.76923077
chr16	21247020	21247020	-	0	0	-26.90141601
chr16	21247052	21247052	+	0.00014026	0.00168919	-36.96343402
chr16	21247276	21247276	-	7.85E-06	0.00013306	-28.28129317
chr16	21247614	21247614	+	0	0	-43.82712723
chr16	21247632	21247632	+	0	0	-29.00555475
chr16	21247797	21247797	-	1.33E-10	4.89E-09	-28.08209279
chr16	21277753	21277753	-	3.33E-16	2.11E-14	-26.90195515
chr16	21402190	21402190	+	2.33E-08	6.33E-07	-28.08312514
chr16	21450016	21450016	+	0	0	-34.43216099
chr16	21450075	21450075	-	0	0	-26.26995646
chr16	21595807	21595807	+	1.07E-07	2.62E-06	-33.14040329
chr16	21644448	21644448	+	0	0	-25.95347432
chr16	21644540	21644540	-	0	0	-27.30745153
chr16	21908753	21908753	-	0.00019169	0.00220988	-29.91452991
chr16	22373004	22373004	+	0	0	-25.08106468
chr16	22440744	22440744	-	0	0	-34.53866075
chr16	22469670	22469670	-	5.11E-07	1.11E-05	-34.95061728
chr16	22572871	22572871	-	1.72E-09	5.49E-08	-30.64516129
chr16	22572898	22572898	-	1.82E-05	0.00028183	-28.78024194
chr16	22790238	22790238	-	7.27E-06	0.00012425	-28.99047619
chr16	23214517	23214517	-	0	0	-32.20779221
chr16	24057257	24057257	+	0	0	-25.42890293
chr16	24235090	24235090	+	4.48E-08	1.17E-06	-41.42857143
chr16	24235112	24235112	+	2.58E-07	5.93E-06	-38.15934066
chr16	24392657	24392657	-	2.21E-10	7.90E-09	-25.05081301
chr16	24394898	24394898	+	0	0	-30.37240537
chr16	24394907	24394907	+	0	0	-33.76513716
chr16	24394982	24394982	-	0	0	-41.53832025
chr16	24395020	24395020	+	6.43E-14	3.34E-12	-31.37163561
chr16	24395021	24395021	-	2.42E-14	1.31E-12	-26.11554808
chr16	25060278	25060278	-	1.30E-07	3.14E-06	-30.62068966
chr16	29743136	29743136	-	0	0	-38.03947927
chr16	29772916	29772916	+	3.16E-10	1.11E-08	-26.4052917
chr16	29844975	29844975	+	1.18E-06	2.38E-05	-29.72383721
chr16	29876405	29876405	-	1.80E-12	8.09E-11	-27.49981148
chr16	29893936	29893936	+	0	0	-44.32205612
chr16	29893958	29893958	+	0	0	-35.68322981



chr16	29893959	29893959	-	0	0	-30.00509517
chr16	29893974	29893974	+	0	0	-37.38935728
chr16	29893975	29893975	-	0	0	-40.4748172
chr16	29893992	29893992	-	0	0	-37.90835992
chr16	29894003	29894003	-	0	0	-25.16394391
chr16	29996768	29996768	-	0	0	-32.10616381
chr16	30020246	30020246	+	0	0	-34.375
chr16	30020279	30020279	+	5.73E-13	2.71E-11	-31.95646259
chr16	30020280	30020280	-	1.11E-16	7.26E-15	-27.38404453
chr16	30020294	30020294	+	1.94E-11	7.84E-10	-27.85863349
chr16	30020295	30020295	-	3.59E-11	1.41E-09	-31.2585034
chr16	30020298	30020298	+	0	0	-43.58515142
chr16	30020299	30020299	-	4.30E-11	1.67E-09	-34.76209443
chr16	30020310	30020310	-	5.07E-13	2.41E-11	-32.83586645
chr16	30020498	30020498	-	0	0	-35.12499253
chr16	30047769	30047769	+	0	0	-29.8369433
chr16	30047779	30047779	-	0	0	-25.65667435
chr16	30086438	30086438	-	0	0	-35.98766952
chr16	30086470	30086470	-	0	0	-30.14316838
chr16	30120707	30120707	+	0	0	-42.92033424
chr16	30120767	30120767	+	0	0	-52.05864383
chr16	30120768	30120768	-	0	0	-25.83471074
chr16	30120776	30120776	+	0	0	-48.97564831
chr16	30120777	30120777	-	0	0	-40.03322259
chr16	30120786	30120786	+	0	0	-40.20966948
chr16	30120787	30120787	-	0	0	-39.50473548
chr16	30120818	30120818	-	0	0	-43.72874013
chr16	30120964	30120964	-	0	0	-54.41720463
chr16	30120966	30120966	-	0	0	-47.5400498
chr16	30120982	30120982	-	0	0	-54.46619311
chr16	30120994	30120994	-	0	0	-34.89748217
chr16	30121001	30121001	+	0	0	-39.85505114
chr16	30121005	30121005	+	0	0	-43.35792329
chr16	30121015	30121015	+	0	0	-59.79497445
chr16	30121032	30121032	+	0	0	-51.28469682
chr16	30121048	30121048	+	0	0	-44.97720365
chr16	30121049	30121049	-	0	0	-45.3244061
chr16	30121066	30121066	-	0	0	-43.9188482
chr16	30121085	30121085	-	0	0	-37.26547119
chr16	30121088	30121088	-	0	0	-56.92021222
chr16	30122675	30122675	-	0	0	-42.70568104

chr16	30122679	30122679	-	0	0	-39.07177292
chr16	30122688	30122688	-	0	0	-38.44080814
chr16	30122698	30122698	+	0	0	-31.12950679
chr16	30122699	30122699	-	0	0	-36.0818641
chr16	30122727	30122727	-	0	0	-29.26530077
chr16	30122737	30122737	+	0	0	-26.63223292
chr16	30122738	30122738	-	0	0	-28.1148215
chr16	30122761	30122761	-	0	0	-29.91373682
chr16	30129431	30129431	+	0	0	-27.31617961
chr16	30129522	30129522	+	0	0	-26.94221982
chr16	30186639	30186639	-	0	0	-25.52700922
chr16	30186641	30186641	-	0	0	-26.40163639
chr16	30206006	30206006	+	0	0	-28.81440342
chr16	30206007	30206007	-	0	0	-28.97612208
chr16	30206223	30206223	-	0	0	-40.55433747
chr16	30206485	30206485	-	5.46E-14	2.85E-12	-30.28221778
chr16	30242772	30242772	+	0	0	-38.10390752
chr16	30281123	30281123	-	0	0	-30.45244411
chr16	30397289	30397289	+	0	0	-34.3615093
chr16	30655757	30655757	+	0	0	-25.35610385
chr16	30821503	30821503	-	1.70E-05	0.00026531	-35.34735812
chr16	30870272	30870272	-	2.89E-12	1.27E-10	-31.83743445
chr16	30873508	30873508	+	5.44E-15	3.12E-13	-25.46809019
chr16	30874036	30874036	+	0	0	-28.3918181
chr16	30874048	30874048	+	0	0	-31.08345369
chr16	30874058	30874058	+	0	0	-26.78757537
chr16	30874077	30874077	+	0	0	-32.25828962
chr16	30874082	30874082	+	0	0	-28.73844373
chr16	31354516	31354516	+	0.00109751	0.00952712	-30.13986014
chr16	31354536	31354536	+	2.36E-08	6.41E-07	-46.86792453
chr16	31493171	31493171	-	9.87E-05	0.00124674	-28.81458233
chr16	31508359	31508359	+	0	0	-43.32315197
chr16	31508371	31508371	+	0	0	-35.84212739
chr16	31590006	31590006	-	2.93E-06	5.48E-05	-27.96760711
chr16	31618014	31618014	+	0	0	-30.58435084
chr16	31618038	31618038	+	0	0	-27.16861074
chr16	31618167	31618167	-	0	0	-25.02315422
chr16	31918285	31918285	+	0	0	-25.56085272
chr16	31918286	31918286	-	0	0	-32.29090017
chr16	31925215	31925215	+	0.00039648	0.00409437	-25.53191489
chr16	32187035	32187035	+	0	0	-35.65134556

chr16	32187104	32187104	-	0	0	-27.73167358
chr16	32715238	32715238	+	0.00032597	0.0034728	-27.84123358
chr16	33061535	33061535	+	4.45E-09	1.34E-07	-30.84974643
chr16	33061579	33061579	+	1.01E-08	2.89E-07	-29.10971443
chr16	33061580	33061580	-	1.03E-08	2.94E-07	-25.13720198
chr16	33303650	33303650	+	0	0	-29.42752302
chr16	33529712	33529712	+	0	0	-28.51731249
chr16	33529843	33529843	+	1.13E-10	4.19E-09	-28.57281679
chr16	33529888	33529888	+	4.05E-11	1.58E-09	-28.88289432
chr16	33834389	33834389	+	0	0	-30.28935778
chr16	33834419	33834419	+	0	0	-37.31000034
chr16	33834420	33834420	-	0	0	-38.28847114
chr16	34666427	34666427	+	0.00022647	0.0025476	-34.61538462
chr16	34836968	34836968	+	5.30E-10	1.81E-08	-25.29221305
chr16	34847911	34847911	+	3.83E-09	1.17E-07	-31.77394035
chr16	35156277	35156277	+	1.00E-11	4.17E-10	-25.63396516
chr16	35425524	35425524	+	7.97E-13	3.71E-11	-27.32795358
chr16	35425650	35425650	+	1.07E-12	4.93E-11	-39.95820272
chr16	35425651	35425651	-	5.95E-09	1.77E-07	-27.91961246
chr16	35630766	35630766	+	0.00089476	0.00806117	26.08695652
chr16	35631050	35631050	+	2.56E-05	0.00038272	-35.61403509
chr16	35659783	35659783	+	6.98E-09	2.05E-07	33.70518688
chr16	35818479	35818479	+	0	0	-44.8697174
chr16	35818508	35818508	+	0	0	-36.79821367
chr16	35873083	35873083	+	0.00038982	0.00403673	-26.75480769
chr16	36709566	36709566	-	5.51E-10	1.88E-08	-25.1459647
chr16	36709602	36709602	-	4.51E-11	1.75E-09	-26.83983666
chr16	36723011	36723011	+	0	0	-27.36844619
chr16	37683453	37683453	+	2.88E-07	6.55E-06	-25.66484729
chr16	37683712	37683712	-	9.83E-05	0.00124232	-39.47990544
chr16	37854615	37854615	+	2.53E-09	7.90E-08	-34.60519343
chr16	38334644	38334644	+	1.04E-05	0.00017144	-26.67525773
chr16	38431974	38431974	+	0	0	-31.80820852
chr16	38432081	38432081	+	5.48E-10	1.87E-08	-25.0205679
chr16	38432082	38432082	-	0	0	-26.88075918
chr16	38521720	38521720	-	7.46E-08	1.87E-06	-27.75823071
chr16	38636848	38636848	+	1.09E-11	4.53E-10	-30.69349778
chr16	38636918	38636918	-	0	0	-26.13780672
chr16	38636946	38636946	+	3.37E-08	8.93E-07	-26.00644122
chr16	41122875	41122875	-	0.00071682	0.00671218	-25.29274005
chr16	43573411	43573411	-	0	0	-27.69274327

chr16	43974028	43974028	+	0	0	-29.51131635
chr16	44118639	44118639	+	0	0	-40.53962028
chr16	44118663	44118663	+	0	0	-40.32050375
chr16	44118794	44118794	-	3.45E-05	0.00049776	-28.66422385
chr16	44531163	44531163	-	0	0	-27.4935189
chr16	44531434	44531434	+	8.29E-05	0.00107188	-40.30172414
chr16	44531444	44531444	+	0.00072998	0.00681358	-27.27272727
chr16	44531451	44531451	+	0.00025989	0.00286635	-28.125
chr16	44671359	44671359	+	0	0	-30.11186714
chr16	44671400	44671400	-	0	0	-47.9911901
chr16	46109789	46109789	+	0	0	-27.27761005
chr16	48750389	48750389	+	0	0	-34.00948176
chr16	48750403	48750403	+	0	0	-34.03558137
chr16	48750410	48750410	+	0	0	-25.8917622
chr16	49910500	49910500	-	0	0	-35.26957638
chr16	50530634	50530634	-	6.07E-06	0.00010569	-26.32569278
chr16	51110507	51110507	+	0.00040098	0.00413323	30.43478261
chr16	57391517	57391517	-	3.84E-05	0.00054644	53.04232804
chr16	62873245	62873245	+	2.23E-11	8.95E-10	-27.16559291
chr16	63817399	63817399	-	9.44E-09	2.72E-07	-28.32167832
chr16	72158446	72158446	+	0.00012272	0.00150466	-34.61538462
chr16	76339527	76339527	+	1.53E-05	0.00024222	-27.45255474
chr16	76540075	76540075	-	0	0	-29.94754781
chr16	82883364	82883364	+	7.60E-05	0.00099388	25.05555556
chr16	84825053	84825053	+	4.66E-15	2.69E-13	-27.72397609
chr16	87665560	87665560	+	0	0	-27.84503837
chr16	87721984	87721984	+	0.0001073	0.00133977	33.33333333
chr16	87784787	87784787	-	2.02E-08	5.56E-07	-26.8907563
chr16	89817349	89817349	+	4.19E-12	1.81E-10	-33.07620383
chr16	89817551	89817551	-	1.96E-09	6.20E-08	-26.95985401
chr16	89943569	89943569	+	0	0	-31.51927438
chr16	89943598	89943598	-	0	0	-29.79270079
chr16	89945517	89945517	-	0	0	-33.41207091
chr16	89974086	89974086	-	0	0	-35.13223366
chr16	89974093	89974093	-	0	0	-32.6087531
chr16	90291029	90291029	+	0	0	-25.17159932
chr16	90453453	90453453	-	6.59E-05	0.00087862	-43.82647386
chr16	90453466	90453466	-	0.00034431	0.00363698	-35.37263626
chr16	90453475	90453475	-	1.83E-06	3.57E-05	-49.23887588
chr16	90521144	90521144	+	0	0	-25.35063114
chr16	90521155	90521155	+	0	0	-26.54442358

chr16	90628996	90628996	-	9.06E-14	4.64E-12	-37.69323671
chr16	90629375	90629375	-	0.00069749	0.0065613	-26.58227848
chr16	90629403	90629403	+	0	0	-26.31316937
chr16	90629421	90629421	+	0	0	-25.25426748
chr16	90629423	90629423	+	0	0	-25.18885166
chr16	90876277	90876277	-	0.00016066	0.00189911	-29.32416953
chr16	91069152	91069152	+	0	0	-28.56850308
chr16	91140602	91140602	+	0	0	-29.16937846
chr16	91175919	91175919	-	1.51E-05	0.00023924	-36.17283951
chr16	91229236	91229236	-	0	0	-31.85942244
chr16	91268443	91268443	+	6.99E-06	0.00011989	-27.61940485
chr16	91303933	91303933	+	0	0	-29.45650858
chr16	91303964	91303964	+	0	0	-37.62097047
chr16	91304010	91304010	-	0	0	-26.53726248
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chr16	91304300	91304300	+	1.41E-08	3.95E-07	-31.52079454
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chr16	91304319	91304319	+	1.91E-12	8.55E-11	-38.61338469
chr16	91304329	91304329	+	0	0	-48.02218416
chr16	91310597	91310597	-	0	0	-29.90860996
chr16	91310606	91310606	+	2.22E-16	1.43E-14	-28.43944608
chr16	91310646	91310646	+	0.00074407	0.0069219	-36
chr16	91320458	91320458	-	2.33E-15	1.38E-13	-41.98819313
chr16	91320469	91320469	+	0	0	-26.39958911
chr16	91320625	91320625	-	0	0	-33.13986874
chr16	91334696	91334696	-	0	0	-28.82517483
chr16	91885522	91885522	-	5.25E-08	1.35E-06	-35.18504784
chr16	92001055	92001055	+	0.00044327	0.00449551	-37.5331565
chr16	92164137	92164137	+	2.62E-06	4.95E-05	-38.69485294
chr16	92359432	92359432	+	5.99E-08	1.53E-06	-27.71428571
chr16	92412356	92412356	+	0	0	-27.12905452
chr16	92412360	92412360	+	0	0	-28.6674699
chr16	92412464	92412464	-	0	0	-33.54922457
chr16	92412468	92412468	-	0	0	-25.42939127
chr16	92425970	92425970	+	5.55E-16	3.46E-14	-25.27701656
chr16	92428429	92428429	+	1.13E-14	6.30E-13	-28.81464414
chr16	92428446	92428446	-	0	0	-27.62892538
chr16	92695675	92695675	+	0	0	-25.71778711
chr16	92695676	92695676	-	0	0	-29.61810568
chr16	92695687	92695687	+	0	0	-28.31054446
chr16	92695688	92695688	-	0	0	-43.05108871

chr16	92695697	92695697	+	0	0	-51.46433319
chr16	92695699	92695699	+	0	0	-40.62176931
chr16	92695709	92695709	+	0	0	-32.5391147
chr16	92695719	92695719	+	0	0	-36.34602333
chr16	92695722	92695722	+	0	0	-34.90536881
chr16	92695727	92695727	+	0	0	-44.53259005
chr16	92695802	92695802	-	0	0	-40.76339423
chr16	92695805	92695805	-	0	0	-25.36012813
chr16	92695837	92695837	+	0	0	-26.42962594
chr16	92695838	92695838	-	0	0	-26.40747324
chr16	92695943	92695943	+	0	0	-40.12281882
chr16	92696075	92696075	-	0	0	-41.19657779
chr16	92698986	92698986	-	7.23E-13	3.39E-11	-26.19971483
chr16	92699007	92699007	+	0.00020213	0.00231238	-27.14987715
chr16	92699033	92699033	-	8.37E-05	0.00108056	-26.29811418
chr16	92699268	92699268	-	5.44E-13	2.58E-11	-32.1996619
chr16	92699282	92699282	-	2.11E-11	8.48E-10	-26.36386658
chr16	92699669	92699669	+	1.94E-14	1.06E-12	-32.04148109
chr16	92699829	92699829	-	0	0	-60.48315603
chr16	92699836	92699836	-	0	0	-58.77014665
chr16	92699853	92699853	-	0	0	-54.43010598
chr16	92699871	92699871	-	1.11E-16	7.26E-15	-44.71759821
chr16	93006571	93006571	+	0	0	-38.05513744
chr16	93006624	93006624	+	5.22E-15	3.00E-13	-30.41643735
chr16	93006625	93006625	-	0	0	-35.77078995
chr16	93006656	93006656	+	0	0	-37.71269177
chr16	93006714	93006714	-	0	0	-48.250803
chr16	93006718	93006718	-	0	0	-46.77393066
chr16	93006722	93006722	-	0	0	-35.39893617
chr16	93006758	93006758	-	0	0	-36.09302575
chr16	93438231	93438231	-	5.97E-07	1.28E-05	-26.13502441
chr16	93574321	93574321	+	0.00054087	0.00531335	-44.47058824
chr16	93574326	93574326	+	1.53E-07	3.66E-06	-59.55882353
chr16	94011157	94011157	-	2.19E-05	0.00033281	-32.59379509
chr16	94011173	94011173	-	0.0003438	0.0036325	-28.38888889
chr16	94718374	94718374	-	0.00020348	0.00232541	31.03448276
chr16	95257734	95257734	-	0	0	-28.60036571
chr16	95343298	95343298	+	6.25E-06	0.00010845	-48.27586207
chr16	95349492	95349492	-	1.41E-06	2.81E-05	-30.35714286
chr16	95550481	95550481	+	1.11E-16	7.26E-15	-25.49734748
chr16	95612320	95612320	+	1.40E-08	3.94E-07	-25.82803613

chr16	95638025	95638025	-	6.49E-07	1.38E-05	-35.97938144
chr16	95832491	95832491	+	4.14E-09	1.25E-07	-29.0379972
chr16	96158737	96158737	+	0	0	-32.90699031
chr16	96200834	96200834	+	3.49E-13	1.69E-11	-25.56776557
chr16	97611726	97611726	+	3.75E-10	1.30E-08	-30.43627619
chr17	3055107	3055107	+	0	0	-25.5159868
chr17	3082310	3082310	+	1.29E-05	0.00020815	-41.96332255
chr17	3516661	3516661	+	0	0	-31.22837889
chr17	3516662	3516662	-	0	0	-25.49810727
chr17	4434597	4434597	-	1.40E-05	0.0002242	-42.10526316
chr17	4988723	4988723	+	4.08E-06	7.38E-05	-25.53485162
chr17	5134496	5134496	-	6.92E-05	0.00091648	-28.94736842
chr17	5278682	5278682	-	0.00081308	0.00744893	-25.92592593
chr17	6744589	6744589	+	1.65E-10	5.98E-09	-29.85911148
chr17	6864828	6864828	+	0	0	-26.25073847
chr17	6864834	6864834	+	0	0	-43.14607543
chr17	6864851	6864851	+	0	0	-31.59097987
chr17	6864937	6864937	+	0	0	-30.11463325
chr17	6864992	6864992	+	0	0	-37.96195323
chr17	6864993	6864993	-	0	0	-34.98405137
chr17	6865015	6865015	+	0	0	-35.22002592
chr17	6865036	6865036	+	0	0	-40.25089785
chr17	6865095	6865095	-	0	0	-25.39156615
chr17	6865115	6865115	-	0	0	-26.04034619
chr17	6865169	6865169	-	0	0	-32.10017798
chr17	7229363	7229363	-	0	0	-26.71077252
chr17	7642572	7642572	-	3.05E-05	0.0004463	-37.47508306
chr17	7871975	7871975	+	0	0	-26.20512821
chr17	7872003	7872003	-	0	0	-31.77740864
chr17	7872005	7872005	-	0	0	-29.44619929
chr17	7876194	7876194	+	4.41E-06	7.92E-05	-27.44610282
chr17	8368160	8368160	+	0	0	-36.84273304
chr17	8368199	8368199	+	1.59E-12	7.20E-11	-31.74881107
chr17	8406091	8406091	+	1.07E-10	3.97E-09	-25.85525777
chr17	8406224	8406224	-	0	0	-25.63268803
chr17	8406234	8406234	-	0	0	-35.06618326
chr17	8435177	8435177	-	0	0	-25.79663679
chr17	10038132	10038132	+	0.00013922	0.00167825	-28.51971558
chr17	10441916	10441916	+	0	0	-25.5694499
chr17	10776863	10776863	+	7.87E-09	2.29E-07	-41.90924658
chr17	11225729	11225729	-	0.00018033	0.00209748	-30.42091837

chr17	11681187	11681187	-	0	0	-31.48698022
chr17	11962127	11962127	+	0	0	-32.77265664
chr17	11962128	11962128	-	0	0	-29.4427399
chr17	12044707	12044707	-	0	0	-26.0420213
chr17	12271907	12271907	-	2.44E-06	4.64E-05	48.14814815
chr17	12507781	12507781	-	4.22E-12	1.83E-10	-34.11074546
chr17	12507817	12507817	+	0	0	-30.83524048
chr17	12507949	12507949	+	1.11E-16	7.26E-15	-26.26181444
chr17	12507950	12507950	-	0	0	-28.48157707
chr17	12507959	12507959	+	0	0	-34.40553645
chr17	12508047	12508047	-	0	0	-35.2510209
chr17	12508059	12508059	+	0	0	-30.10654886
chr17	12508060	12508060	-	0	0	-32.85757408
chr17	12790644	12790644	+	1.71E-13	8.53E-12	-41.54748477
chr17	13364482	13364482	+	0.00017496	0.00204371	25.71428571
chr17	13471011	13471011	+	2.31E-08	6.30E-07	-48.38709677
chr17	13656481	13656481	+	0	0	-37.59643936
chr17	13656510	13656510	+	0	0	-37.38747315
chr17	15108925	15108925	+	1.36E-08	3.82E-07	-29.01234568
chr17	15195347	15195347	+	5.10E-12	2.19E-10	-26.36268344
chr17	15381940	15381940	-	8.19E-07	1.71E-05	-26.28546099
chr17	17830844	17830844	+	0.00014287	0.00171633	-29.99403697
chr17	17837651	17837651	+	0	0	-25.16026342
chr17	23540793	23540793	+	0	0	-36.51847176
chr17	23540830	23540830	+	0	0	-32.84705882
chr17	23540920	23540920	-	3.53E-06	6.48E-05	-29.84307359
chr17	23540943	23540943	-	7.22E-05	0.00095005	-30.17826825
chr17	23540948	23540948	-	8.98E-05	0.00114836	-25.93201754
chr17	23540954	23540954	-	7.53E-10	2.52E-08	-46.15800866
chr17	23743811	23743811	-	0	0	-28.92847108
chr17	23743919	23743919	+	8.88E-15	4.99E-13	-37.47087944
chr17	23743920	23743920	-	0	0	-26.32810054
chr17	23745246	23745246	+	0.00022217	0.00250605	-26.42857143
chr17	23746622	23746622	+	1.52E-10	5.54E-09	-28.57142857
chr17	24063685	24063685	+	0.00043355	0.00441191	-32.37179487
chr17	24207177	24207177	-	0.00032	0.00341949	-26.24911201
chr17	24208766	24208766	+	0	0	-26.39473632
chr17	24544663	24544663	-	0	0	-25.81518177
chr17	24544704	24544704	+	0	0	-34.82567003
chr17	24544705	24544705	-	0	0	-28.51307432
chr17	24544758	24544758	+	1.57E-09	5.04E-08	-42.68565941



chr17	24544759	24544759	-	0	0	-26.43785521
chr17	24545020	24545020	-	2.59E-08	7.00E-07	-60.04901961
chr17	24545054	24545054	-	0.00058757	0.00569236	-28.24754902
chr17	24667740	24667740	-	7.53E-07	1.59E-05	-31.11111111
chr17	24679071	24679071	+	0	0	-28.38274984
chr17	24679122	24679122	+	0	0	-41.91421569
chr17	24679123	24679123	-	0	0	-41.22500683
chr17	24679157	24679157	+	0	0	-38.96728484
chr17	24679158	24679158	-	0	0	-33.2250186
chr17	24679183	24679183	-	0	0	-27.40746429
chr17	24679192	24679192	-	0	0	-38.06567481
chr17	24737181	24737181	-	3.53E-05	0.00050724	-44.89795918
chr17	24882131	24882131	-	9.73E-07	2.01E-05	-27.81114798
chr17	25082265	25082265	-	0	0	-30.539658
chr17	25566493	25566493	-	6.05E-08	1.54E-06	-25.03477324
chr17	26067704	26067704	+	0	0	-28.94139388
chr17	26067710	26067710	+	0	0	-33.28358209
chr17	26067711	26067711	-	0	0	-28.96085507
chr17	26067753	26067753	-	0	0	-25.743919
chr17	26067773	26067773	+	0	0	-35.54383848
chr17	26067776	26067776	+	0	0	-41.15691264
chr17	26067782	26067782	+	0	0	-40.1944543
chr17	26067811	26067811	-	0	0	-27.81679997
chr17	26067851	26067851	-	0	0	-26.98634552
chr17	26067888	26067888	+	0	0	-31.67000706
chr17	26067956	26067956	-	0	0	-38.91390735
chr17	26067975	26067975	+	0	0	-40.19107931
chr17	26067976	26067976	-	0	0	-41.0298077
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chr17	26068032	26068032	-	0	0	-40.13620149
chr17	26068075	26068075	-	0	0	-25.14897476
chr17	26245044	26245044	-	7.08E-06	0.00012136	-31.92109096
chr17	26433548	26433548	+	0	0	-40.01941491
chr17	26433600	26433600	-	0	0	-42.28346743
chr17	26439051	26439051	+	0	0	-50.15595463
chr17	26439060	26439060	+	0	0	-46.7122298
chr17	26439067	26439067	+	0	0	-33.25533493
chr17	26439069	26439069	+	0	0	-56.5685302
chr17	26439082	26439082	+	0	0	-44.8246804
chr17	26439090	26439090	+	0	0	-46.94884652
chr17	26439097	26439097	+	0	0	-48.74103972

chr17	26439145	26439145	-	0	0	-47.55769063
chr17	26439156	26439156	-	0	0	-43.89725831
chr17	26439180	26439180	-	0	0	-52.75070651
chr17	26439182	26439182	-	0	0	-43.7229967
chr17	26439184	26439184	+	0	0	-53.97264033
chr17	26439185	26439185	-	0	0	-33.09641115
chr17	26439190	26439190	+	0	0	-53.87445057
chr17	26439191	26439191	-	0	0	-47.60886379
chr17	26439199	26439199	+	0	0	-44.43769984
chr17	26439200	26439200	-	0	0	-43.06150209
chr17	26439205	26439205	+	0	0	-46.43791832
chr17	26439206	26439206	-	0	0	-41.99138859
chr17	26439208	26439208	+	0	0	-46.58899021
chr17	26439209	26439209	-	0	0	-43.70593312
chr17	26439210	26439210	+	0	0	-50.64180962
chr17	26439211	26439211	-	0	0	-49.97652949
chr17	26439222	26439222	+	0	0	-50.96995962
chr17	26439223	26439223	-	0	0	-49.91779935
chr17	26439227	26439227	+	0	0	-55.74481431
chr17	26439228	26439228	-	0	0	-57.12176284
chr17	26439232	26439232	+	0	0	-35.17405504
chr17	26439233	26439233	-	0	0	-47.58366636
chr17	26439235	26439235	+	0	0	-47.64144311
chr17	26439238	26439238	+	0	0	-55.11006744
chr17	26439241	26439241	+	0	0	-56.44113348
chr17	26439252	26439252	+	0	0	-53.44502455
chr17	26439259	26439259	+	0	0	-57.2946997
chr17	26439263	26439263	+	0	0	-44.42239982
chr17	26439267	26439267	+	0	0	-58.13964087
chr17	26439269	26439269	+	0	0	-37.62847754
chr17	26439275	26439275	+	0	0	-52.12107592
chr17	26439327	26439327	-	0	0	-37.72264447
chr17	26439329	26439329	-	0	0	-34.19563153
chr17	26464653	26464653	-	0	0	-25.04214465
chr17	26506393	26506393	-	4.14E-14	2.19E-12	-29.91844543
chr17	26663754	26663754	+	1.67E-06	3.28E-05	-57.14285714
chr17	26931918	26931918	-	0	0	-28.4871078
chr17	26949278	26949278	-	0.00011712	0.00144481	-41.18625277
chr17	26949322	26949322	-	2.09E-06	4.03E-05	-36.942959
chr17	26952391	26952391	+	0	0	-28.81242741
chr17	26952403	26952403	+	0	0	-28.90778634

chr17	26953069	26953069	+	0	0	-28.54315875
chr17	26953070	26953070	-	0	0	-33.16838947
chr17	26953096	26953096	+	0	0	-31.28742395
chr17	26953097	26953097	-	0	0	-29.00849473
chr17	26953111	26953111	+	0	0	-37.77021956
chr17	26953112	26953112	-	0	0	-38.15309047
chr17	26953904	26953904	+	1.15E-07	2.79E-06	-60.01589825
chr17	26954065	26954065	-	0	0	-28.46961789
chr17	27036823	27036823	-	0	0	-37.84281621
chr17	27038415	27038415	+	0	0	-39.34946332
chr17	27038594	27038594	+	1.47E-10	5.37E-09	-38.31002331
chr17	27038608	27038608	+	1.38E-09	4.48E-08	-36.23371406
chr17	27038614	27038614	+	6.52E-06	0.00011269	-27.69230769
chr17	27038820	27038820	+	2.13E-08	5.83E-07	-30.14182939
chr17	27038833	27038833	+	5.53E-14	2.89E-12	-44.67086835
chr17	27038858	27038858	+	2.55E-09	7.96E-08	-37.91666667
chr17	27040387	27040387	+	0	0	-30.38976339
chr17	27040413	27040413	+	0	0	-34.88396307
chr17	27040417	27040417	+	0	0	-33.3531948
chr17	27041097	27041097	+	5.41E-05	0.00073897	-26.60455487
chr17	27041283	27041283	-	0.00048861	0.00488	-26.03448276
chr17	27048648	27048648	+	2.02E-13	9.99E-12	-32.34460722
chr17	27048659	27048659	+	1.22E-14	6.77E-13	-33.36032389
chr17	27048682	27048682	-	0.00056214	0.00548658	-30.60556465
chr17	27058423	27058423	-	0	0	-26.83823067
chr17	27130564	27130564	-	1.27E-06	2.57E-05	-27.10280374
chr17	27130592	27130592	-	4.27E-06	7.70E-05	-27.24168913
chr17	27135015	27135015	+	0.00048702	0.00486636	-36.88172043
chr17	27143897	27143897	-	2.05E-11	8.23E-10	-25.08741814
chr17	27146200	27146200	+	6.41E-05	0.00085777	-29.82142857
chr17	27179463	27179463	-	0	0	-28.60908907
chr17	27179508	27179508	-	0	0	-26.10739038
chr17	27201373	27201373	-	0	0	-28.48912105
chr17	27250780	27250780	+	4.85E-13	2.31E-11	-32.67071789
chr17	27250781	27250781	-	9.11E-09	2.63E-07	-27.46851305
chr17	27251233	27251233	-	1.22E-09	3.98E-08	-29.14121241
chr17	27432795	27432795	+	1.37E-14	7.54E-13	-25.8601201
chr17	27502442	27502442	-	0	0	-43.94317787
chr17	27502458	27502458	+	0	0	-35.12814072
chr17	27502459	27502459	-	0	0	-28.28002812
chr17	27502462	27502462	+	0	0	-26.78735943

chr17	27502501	27502501	+	0	0	-38.53068073
chr17	27502502	27502502	-	0	0	-35.63170586
chr17	27502544	27502544	-	0	0	-28.06213691
chr17	27502893	27502893	-	0.00015348	0.00182554	-30.75913777
chr17	27502933	27502933	+	1.24E-06	2.50E-05	-27.22715319
chr17	27546163	27546163	+	0	0	-29.66753895
chr17	27657157	27657157	+	1.13E-11	4.68E-10	-27.61755348
chr17	27675811	27675811	+	0.00032205	0.00343787	39.76190476
chr17	28076094	28076094	-	0	0	-25.86264895
chr17	28076102	28076102	-	0	0	-27.18884916
chr17	28076138	28076138	+	0	0	-26.87605151
chr17	28076139	28076139	-	0	0	-27.26588873
chr17	28076145	28076145	+	0	0	-30.84205138
chr17	28076146	28076146	-	0	0	-33.01373552
chr17	28076161	28076161	+	0	0	-25.86859427
chr17	28076162	28076162	-	0	0	-26.71754548
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chr17	28076164	28076164	-	0	0	-32.7670305
chr17	28076172	28076172	+	0	0	-28.67681374
chr17	28076173	28076173	-	0	0	-32.7186674
chr17	28076184	28076184	-	0	0	-25.63372966
chr17	28084545	28084545	+	0	0	-30.0583601
chr17	28084579	28084579	+	0	0	-28.38351757
chr17	28084634	28084634	-	0	0	-32.52777032
chr17	28099600	28099600	-	3.84E-13	1.85E-11	-25.79365079
chr17	28131997	28131997	+	3.66E-15	2.14E-13	-28.82591093
chr17	28141353	28141353	+	0	0	-28.81749048
chr17	28145490	28145490	+	0	0	-43.6778307
chr17	28145495	28145495	+	1.11E-16	7.26E-15	-30.22439866
chr17	28145521	28145521	+	0	0	-36.84977092
chr17	28146325	28146325	+	0	0	-25.64817747
chr17	28172042	28172042	-	5.18E-13	2.46E-11	-25.77391806
chr17	28172048	28172048	-	0	0	-38.65018801
chr17	28183456	28183456	+	0	0	-39.65954926
chr17	28183464	28183464	+	0	0	-32.85065846
chr17	28183471	28183471	+	0	0	-33.86067594
chr17	28225897	28225897	-	9.41E-06	0.00015679	-44.87344487
chr17	28225908	28225908	+	0	0	-34.34027778
chr17	28226047	28226047	-	0	0	-44.83426551
chr17	28226051	28226051	-	0	0	-30.13590911
chr17	28280020	28280020	-	1.11E-16	7.26E-15	-25.10370836

chr17	28327934	28327934	+	5.79E-07	1.25E-05	-31.56370656
chr17	28327942	28327942	-	5.04E-05	0.00069419	-30.80357143
chr17	28328044	28328044	+	9.99E-16	6.10E-14	-35.52054116
chr17	28333716	28333716	+	0	0	-32.87242798
chr17	28333841	28333841	-	0	0	-31.88943479
chr17	28333847	28333847	-	0	0	-32.59518089
chr17	28340476	28340476	-	1.47E-07	3.51E-06	-27.68995411
chr17	28345830	28345830	+	0	0	-25.00565319
chr17	28345868	28345868	+	0	0	-26.12642296
chr17	28345869	28345869	-	0	0	-34.00929924
chr17	28345909	28345909	-	0	0	-29.17445525
chr17	28349652	28349652	+	0	0	-34.36727473
chr17	28349746	28349746	-	0	0	-27.77890304
chr17	28351908	28351908	-	0	0	-28.0531505
chr17	28351914	28351914	-	0	0	-33.19106163
chr17	28351936	28351936	-	0	0	-47.58986337
chr17	28351943	28351943	-	0	0	-34.22396877
chr17	28358504	28358504	+	0	0	-30.9948787
chr17	28358573	28358573	-	0	0	-25.45213071
chr17	28358638	28358638	-	0	0	-25.87436237
chr17	28359096	28359096	-	9.55E-10	3.16E-08	-29.78087384
chr17	28359107	28359107	-	2.63E-12	1.16E-10	-36.30115878
chr17	28359109	28359109	-	7.84E-08	1.96E-06	-26.88644689
chr17	28365230	28365230	+	0	0	-30.49728752
chr17	28517606	28517606	+	3.33E-16	2.11E-14	-29.20060542
chr17	28517628	28517628	+	0	0	-35.52257267
chr17	28517694	28517694	-	0	0	-25.8955154
chr17	28517739	28517739	+	0	0	-35.61862245
chr17	28517748	28517748	+	2.79E-09	8.65E-08	-26.41069888
chr17	28532095	28532095	-	0	0	-38.27422338
chr17	28532100	28532100	-	0	0	-31.29511125
chr17	28532127	28532127	-	0	0	-33.60677113
chr17	28532146	28532146	+	1.05E-10	3.90E-09	-29.24242424
chr17	28874812	28874812	+	1.07E-05	0.00017614	-51
chr17	28876790	28876790	+	1.11E-16	7.26E-15	-30.68474318
chr17	28876908	28876908	-	1.77E-14	9.65E-13	-28.14161769
chr17	28899722	28899722	-	0	0	-25.17510851
chr17	28905324	28905324	-	3.11E-15	1.82E-13	-34.85502631
chr17	28943950	28943950	+	9.70E-05	0.00122796	-34.59801265
chr17	29025160	29025160	+	0	0	-25.01553152
chr17	29165476	29165476	+	0	0	-40.97189512

chr17	29165502	29165502	+	0	0	-39.85040321
chr17	29189492	29189492	+	6.86E-09	2.02E-07	-25.67834563
chr17	29189510	29189510	+	8.52E-09	2.47E-07	-25.22605388
chr17	29194035	29194035	-	0.00019554	0.00224755	-35.86466165
chr17	29322670	29322670	+	0	0	-26.76018672
chr17	29326376	29326376	-	3.08E-14	1.64E-12	-28.21527993
chr17	29326446	29326446	+	0	0	-31.11022925
chr17	29326591	29326591	+	0	0	-26.72697368
chr17	29326613	29326613	-	0	0	-39.31302759
chr17	29326628	29326628	-	0	0	-26.14550498
chr17	29326652	29326652	+	0	0	-27.05785524
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chr17	29326823	29326823	-	0	0	-27.69721523
chr17	29326881	29326881	+	0	0	-31.55892047
chr17	29326898	29326898	-	0	0	-28.94898605
chr17	29326916	29326916	-	0	0	-37.2077936
chr17	29398643	29398643	+	1.27E-07	3.07E-06	-29.34362934
chr17	29398884	29398884	-	1.63E-09	5.23E-08	-26.73109216
chr17	29398911	29398911	+	3.45E-10	1.20E-08	-25.11845307
chr17	29415992	29415992	-	0	0	-27.74670043
chr17	29416007	29416007	-	0	0	-25.54665853
chr17	29434192	29434192	-	0.00065647	0.00624238	-26.40306122
chr17	29451069	29451069	+	0	0	-27.37057096
chr17	29451075	29451075	+	0	0	-30.13516571
chr17	29451184	29451184	-	0	0	-32.45277578
chr17	29451431	29451431	-	0.00031424	0.00336735	-31.82849937
chr17	29460134	29460134	-	1.70E-14	9.30E-13	-29.02097902
chr17	29463919	29463919	+	0.00055038	0.00539116	-31.47942158
chr17	29464117	29464117	-	0	0	-31.67400685
chr17	29464486	29464486	+	0	0	-40.22398946
chr17	29464487	29464487	-	0	0	-54.51705187
chr17	29464496	29464496	-	0	0	-29.1212613
chr17	29465072	29465072	-	0	0	-29.29519774
chr17	29465121	29465121	+	3.77E-10	1.31E-08	-64.69216418
chr17	29467260	29467260	+	8.60E-08	2.14E-06	-40.8765653
chr17	29467654	29467654	-	0	0	-27.36673774
chr17	29467670	29467670	-	0	0	-38.60930736
chr17	29467841	29467841	-	0	0	-26.73537573
chr17	29467845	29467845	-	0	0	-25.4638882
chr17	29570661	29570661	+	0	0	-31.84235598

chr17	29584254	29584254	-	1.24E-14	6.89E-13	-26.31022192
chr17	29584270	29584270	-	0	0	-32.65706918
chr17	29584283	29584283	-	0	0	-30.35240665
chr17	29584288	29584288	-	0	0	-29.56295991
chr17	29597468	29597468	+	1.54E-05	0.00024406	29.16666667
chr17	29746541	29746541	+	0	0	-26.37912453
chr17	29746671	29746671	+	0	0	-28.99601621
chr17	29746875	29746875	+	2.49E-11	9.94E-10	-26.47146089
chr17	29746876	29746876	-	0	0	-32.19667014
chr17	29746884	29746884	+	1.11E-16	7.26E-15	-30.98247004
chr17	29746885	29746885	-	2.22E-16	1.43E-14	-29.68898386
chr17	29746908	29746908	-	0	0	-34.6129277
chr17	29747451	29747451	+	1.14E-09	3.74E-08	-25.55092317
chr17	29769948	29769948	-	1.64E-09	5.25E-08	-28.2018493
chr17	29874163	29874163	-	5.81E-12	2.47E-10	-29.31515004
chr17	29874173	29874173	-	2.10E-13	1.04E-11	-26.977657
chr17	29874205	29874205	+	0	0	-32.07983396
chr17	29874282	29874282	+	0	0	-35.74073187
chr17	29874283	29874283	-	1.21E-12	5.54E-11	-44.42912646
chr17	29874387	29874387	-	0	0	-29.71106227
chr17	29874750	29874750	-	0	0	-36.06150752
chr17	29928809	29928809	+	2.96E-07	6.72E-06	-25.05968779
chr17	30197545	30197545	+	3.47E-12	1.51E-10	-28.25930372
chr17	30206921	30206921	-	0.00056262	0.0054905	29.5959596
chr17	30347198	30347198	+	5.97E-14	3.11E-12	-33.56773063
chr17	30347202	30347202	+	7.88E-15	4.45E-13	-34.94894895
chr17	30347288	30347288	-	0	0	-39.77889717
chr17	30347570	30347570	-	1.50E-05	0.00023766	-27.41596639
chr17	30872735	30872735	-	8.03E-05	0.00104237	-37.87545788
chr17	30913599	30913599	-	5.55E-15	3.18E-13	-25.49124913
chr17	31037475	31037475	-	1.01E-09	3.34E-08	-27.59803922
chr17	31276762	31276762	+	0	0	-31.85612517
chr17	31305426	31305426	+	0	0	-28.31492201
chr17	31381523	31381523	+	0	0	-25.26560165
chr17	31381541	31381541	+	0	0	-27.34297748
chr17	31381563	31381563	-	0	0	-25.85038538
chr17	31482862	31482862	+	1.11E-10	4.12E-09	-25.70633875
chr17	31639790	31639790	+	0.0001199	0.00147453	-30.3525641
chr17	31724294	31724294	-	0.00083514	0.00761515	-33.47338936
chr17	31725805	31725805	+	0	0	-28.75800011
chr17	31856803	31856803	+	7.59E-08	1.90E-06	-27.25020644

chr17	31856830	31856830	+	0	0	-46.9374597
chr17	31877978	31877978	+	0	0	-30.28445001
chr17	31889605	31889605	+	0	0	-29.39160767
chr17	32113380	32113380	+	0	0	-25.81552767
chr17	32113407	32113407	+	0	0	-25.49783331
chr17	32165677	32165677	+	0	0	-27.52220619
chr17	32165782	32165782	+	0	0	-25.73125023
chr17	32165820	32165820	-	0	0	-33.24251417
chr17	32165841	32165841	-	0	0	-28.2295915
chr17	32396708	32396708	-	0	0	-25.20629739
chr17	32443371	32443371	+	0	0	-32.80250851
chr17	32492092	32492092	-	0	0	-41.67427239
chr17	32506559	32506559	+	0.00028525	0.00310257	-34.7826087
chr17	32676523	32676523	-	0	0	-25.12644223
chr17	32877311	32877311	+	2.15E-06	4.13E-05	-26.56124093
chr17	34042005	34042005	+	2.14E-08	5.86E-07	-40.21505376
chr17	34058564	34058564	+	0	0	-25.43380265
chr17	34094490	34094490	+	2.03E-09	6.43E-08	-27.21797803
chr17	34094513	34094513	+	6.62E-12	2.81E-10	-30.63524969
chr17	34094524	34094524	+	0	0	-38.94477095
chr17	34094537	34094537	+	4.55E-13	2.17E-11	-32.79813027
chr17	34128988	34128988	+	0	0	-28.19465261
chr17	34129021	34129021	+	0	0	-32.93246994
chr17	34129022	34129022	-	0	0	-29.90752367
chr17	34129047	34129047	+	0	0	-46.24586989
chr17	34129048	34129048	-	0	0	-26.39557111
chr17	34129079	34129079	+	0	0	-36.79678313
chr17	34139503	34139503	+	0	0	-39.51743613
chr17	34139607	34139607	+	0	0	-27.46201888
chr17	34139608	34139608	-	0	0	-30.45694655
chr17	34139626	34139626	+	0	0	-26.07111273
chr17	34139644	34139644	+	0	0	-26.90043492
chr17	34139651	34139651	+	0	0	-25.56024413
chr17	34139652	34139652	-	0	0	-26.6639405
chr17	34139697	34139697	+	1.08E-10	4.00E-09	-28.56245513
chr17	34139698	34139698	-	0	0	-37.93150582
chr17	34139902	34139902	-	2.72E-10	9.63E-09	-26.45860759
chr17	34152118	34152118	+	0.0009134	0.00819924	-26.90092166
chr17	34196942	34196942	+	0	0	-32.12391375
chr17	34196975	34196975	+	0	0	-25.0382785
chr17	34563946	34563946	+	2.22E-09	7.00E-08	-41.15315315



chr17	34563964	34563964	+	2.24E-09	7.04E-08	-39.18918919
chr17	34564437	34564437	+	2.24E-06	4.30E-05	-25.55555556
chr17	34572737	34572737	-	1.82E-05	0.00028219	-31.17509119
chr17	34594001	34594001	-	2.76E-09	8.59E-08	-28.71559633
chr17	34612429	34612429	+	1.21E-05	0.00019574	-31.81818182
chr17	34629570	34629570	-	2.70E-12	1.19E-10	-51.52350932
chr17	34629572	34629572	-	4.05E-14	2.14E-12	-55.52298468
chr17	34629587	34629587	-	2.13E-13	1.05E-11	-53.54166667
chr17	34629590	34629590	-	4.30E-14	2.27E-12	-54.7439759
chr17	34629595	34629595	-	2.11E-15	1.25E-13	-57.12111604
chr17	34629603	34629603	-	6.22E-09	1.84E-07	-39.24963925
chr17	34630022	34630022	+	0	0	-33.27245053
chr17	34630059	34630059	+	0	0	-29.46430019
chr17	34630187	34630187	-	1.39E-08	3.91E-07	-26.79238872
chr17	34631529	34631529	+	5.59E-05	0.00076096	-28.10559006
chr17	34631782	34631782	-	0.00014401	0.00172808	-31.98874296
chr17	34651721	34651721	+	0.00078227	0.00721518	-28.7214886
chr17	34660591	34660591	+	1.12E-05	0.00018338	-27.7391356
chr17	34660601	34660601	+	1.33E-07	3.20E-06	-33.55329647
chr17	34679904	34679904	-	0.00105975	0.00925846	-29.07317073
chr17	34881801	34881801	-	0	0	-25.70138315
chr17	34881818	34881818	-	0	0	-33.0675389
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chr17	34914298	34914298	+	1.37E-14	7.54E-13	-25.66422546
chr17	34914299	34914299	-	7.71E-11	2.91E-09	-30.40212799
chr17	34914426	34914426	-	0	0	-34.87032171
chr17	34914431	34914431	-	0	0	-33.43182237
chr17	34914435	34914435	-	0	0	-39.16718548
chr17	34914446	34914446	-	0	0	-33.64025833
chr17	34914458	34914458	-	0	0	-35.70364737
chr17	34914511	34914511	-	0	0	-25.69573284
chr17	35016588	35016588	+	3.92E-06	7.13E-05	-44.87179487
chr17	35060225	35060225	-	3.46E-05	0.00049885	-28.33333333
chr17	35220790	35220790	+	1.27E-14	7.01E-13	-25.33079305
chr17	35220796	35220796	+	3.89E-15	2.26E-13	-25.84472493
chr17	35220818	35220818	+	0	0	-27.88111434
chr17	35276526	35276526	+	0	0	-27.31907996
chr17	35506127	35506127	-	0	0	-26.08467114
chr17	35506605	35506605	-	0	0	-30.62202776
chr17	35506646	35506646	-	0	0	-29.68960312
chr17	35507342	35507342	-	0	0	-28.51638641

chr17	35686564	35686564	+	0	0	-26.36720005
chr17	35701511	35701511	-	6.14E-06	0.00010679	-50.43956044
chr17	35702183	35702183	+	0	0	-36.54579452
chr17	35702293	35702293	-	0	0	-31.18894994
chr17	35702325	35702325	+	0	0	-33.20133879
chr17	35736678	35736678	-	0.00018296	0.00212383	-40.61538462
chr17	35812138	35812138	+	6.35E-07	1.36E-05	-51.33928571
chr17	35816348	35816348	+	3.75E-06	6.84E-05	-26.70356592
chr17	36153370	36153370	+	1.21E-13	6.11E-12	-25.35415785
chr17	36216219	36216219	+	0	0	-41.87555085
chr17	36216241	36216241	+	2.59E-06	4.90E-05	-25.60921577
chr17	36216395	36216395	-	4.38E-13	2.09E-11	-32.78546713
chr17	36216426	36216426	-	5.23E-11	2.01E-09	-28.203962
chr17	36248718	36248718	+	0	0	-29.29161567
chr17	36248719	36248719	-	0	0	-33.15424012
chr17	36248731	36248731	-	0	0	-25.95477362
chr17	36248938	36248938	-	1.32E-09	4.28E-08	-37.69414576
chr17	36248941	36248941	-	6.33E-15	3.61E-13	-49.23054158
chr17	36248951	36248951	-	3.16E-09	9.74E-08	-37.1632445
chr17	36248970	36248970	-	9.59E-05	0.00121631	-25.2401936
chr17	36249017	36249017	+	0	0	-36.66863969
chr17	36249018	36249018	-	4.11E-15	2.38E-13	-41.12015845
chr17	36249031	36249031	-	1.34E-09	4.35E-08	-30.58978873
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chr17	36249067	36249067	+	9.15E-12	3.82E-10	-25.65088757
chr17	36988820	36988820	+	0	0	-31.55015144
chr17	36988821	36988821	-	2.36E-13	1.16E-11	-25.35529752
chr17	36988872	36988872	-	0	0	-25.79488744
chr17	36989252	36989252	+	0	0	-43.68289191
chr17	37003241	37003241	+	1.00E-06	2.06E-05	-31.1792996
chr17	39843571	39843571	+	2.47E-06	4.69E-05	-28.94570707
chr17	39844942	39844942	-	0	0	36.13380172
chr17	39844948	39844948	-	0	0	31.61081376
chr17	39844956	39844956	-	0	0	29.29936306
chr17	39844964	39844964	-	0	0	37.39490647
chr17	39844975	39844975	-	0	0	31.93679496
chr17	39844979	39844979	-	0	0	38.95066636
chr17	39845005	39845005	+	0	0	39.99882825
chr17	39845022	39845022	+	0	0	53.05263158
chr17	39845037	39845037	+	0	0	40.0868786
chr17	39845042	39845042	+	0	0	36.68595041

chr17	39845045	39845045	+	0	0	33.49190939
chr17	39846032	39846032	-	5.20E-05	0.00071385	-44.13919414
chr17	40904205	40904205	+	0	0	-34.8628637
chr17	40904206	40904206	-	0	0	-30.99959674
chr17	40904237	40904237	+	0	0	-32.578085
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chr17	40904336	40904336	-	0	0	-28.4729064
chr17	43046410	43046410	-	4.96E-07	1.08E-05	-25.95075956
chr17	43077163	43077163	+	0	0	-31.58836603
chr17	43077218	43077218	-	0	0	-26.4817804
chr17	43077234	43077234	-	0	0	-26.61816862
chr17	43077245	43077245	-	0	0	-31.80152008
chr17	43077249	43077249	-	0	0	-32.19312878
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chr17	43077336	43077336	-	0	0	-27.82426151
chr17	43327821	43327821	+	0	0	-37.68287732
chr17	43334132	43334132	+	0	0	-29.88921086
chr17	43334138	43334138	+	0	0	-42.06012746
chr17	43334261	43334261	-	0	0	-29.43737128
chr17	43358058	43358058	+	0	0	-26.44081792
chr17	43534756	43534756	+	1.07E-10	3.96E-09	-29.17710944
chr17	43534762	43534762	+	5.16E-11	1.98E-09	-29.1221374
chr17	44129477	44129477	+	0.0002089	0.00237796	48.28349945
chr17	44429759	44429759	-	0	0	-25.98476815
chr17	44598370	44598370	-	4.70E-08	1.22E-06	-34.89285714
chr17	45261537	45261537	+	0	0	-42.5627907
chr17	45261549	45261549	+	0	0	-30.78734172
chr17	45313012	45313012	+	4.97E-10	1.70E-08	-29.37627074
chr17	45376854	45376854	-	2.51E-06	4.76E-05	-29.04045339
chr17	45518165	45518165	+	0.00038778	0.00401863	-27.60416667
chr17	45518171	45518171	+	8.98E-05	0.00114851	-31.34920635
chr17	45581155	45581155	-	0	0	-34.32014521
chr17	45581163	45581163	-	0	0	-27.09166509
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chr17	45601338	45601338	+	0	0	-26.13242231
chr17	45601339	45601339	-	0	0	-27.58788892
chr17	45601410	45601410	+	0	0	-38.76035343
chr17	45601483	45601483	+	0	0	-36.91184513

chr17	45601484	45601484	-	0	0	-30.57766621
chr17	45601568	45601568	+	2.31E-05	0.00034988	-25.73811134
chr17	45601595	45601595	+	0	0	-31.31424946
chr17	45601596	45601596	-	1.33E-09	4.32E-08	-33.77303071
chr17	45601701	45601701	-	0	0	-28.39948283
chr17	45639070	45639070	+	0	0	-27.09499304
chr17	45685057	45685057	-	0	0	-26.08130934
chr17	45685080	45685080	-	0	0	-33.06392857
chr17	45685093	45685093	+	0	0	-25.51012807
chr17	45685094	45685094	-	0	0	-26.8449742
chr17	45701212	45701212	+	5.99E-08	1.53E-06	-49.29078014
chr17	45702744	45702744	+	0	0	-26.26277408
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chr17	45705113	45705113	-	0	0	-29.93411773
chr17	45734407	45734407	+	1.39E-05	0.00022153	-25.53310887
chr17	45734586	45734586	+	2.22E-15	1.32E-13	-30.95864003
chr17	45734587	45734587	-	0	0	-35.58823529
chr17	45805577	45805577	+	0	0	-31.45019059
chr17	45805859	45805859	-	0.00030394	0.00327391	-32.39118146
chr17	45805873	45805873	-	0.00022515	0.00253476	-33.37041157
chr17	45805887	45805887	+	0	0	-36.30516969
chr17	45805893	45805893	+	0	0	-29.76990555
chr17	45805922	45805922	+	0	0	-29.46033108
chr17	45814748	45814748	+	5.33E-10	1.82E-08	-30.91453525
chr17	45814788	45814788	+	2.84E-13	1.38E-11	-34.99820706
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chr17	45873748	45873748	+	0	0	-35.62447168
chr17	45873798	45873798	-	0	0	-33.96682456
chr17	45873849	45873849	+	4.16E-08	1.09E-06	-40.10989011
chr17	45874310	45874310	-	3.77E-15	2.20E-13	-43.17974453
chr17	45885631	45885631	-	4.44E-16	2.79E-14	-26.381819
chr17	45885755	45885755	+	0	0	-25.38687609
chr17	45886548	45886548	+	0	0	-32.8257097
chr17	45886588	45886588	+	0	0	-33.70128231
chr17	45886674	45886674	-	0	0	-31.28598143
chr17	45936710	45936710	+	0	0	-31.16072686
chr17	45936739	45936739	+	0	0	-36.1647428
chr17	46027717	46027717	-	0	0	-26.38821008
chr17	46056666	46056666	-	0	0	-28.87831389
chr17	46132590	46132590	-	1.75E-05	0.00027225	-33.76436782
chr17	46428594	46428594	-	3.01E-07	6.82E-06	-25.43893874

chr17	46438179	46438179	-	8.86E-05	0.0011354	-25.3907496
chr17	46452956	46452956	+	8.73E-10	2.90E-08	-28.66439087
chr17	46453379	46453379	+	1.98E-07	4.64E-06	-26.73052363
chr17	46498489	46498489	+	0.0001373	0.00165814	-28
chr17	46511422	46511422	+	0	0	-27.47130707
chr17	46522123	46522123	-	0	0	-28.44621696
chr17	46522184	46522184	-	0	0	-28.0613409
chr17	46522210	46522210	+	0	0	-28.62903854
chr17	46522211	46522211	-	0	0	-31.94778805
chr17	46522345	46522345	+	5.28E-11	2.03E-09	-25.64854784
chr17	46621144	46621144	-	7.14E-14	3.69E-12	-25.74680107
chr17	46621320	46621320	-	0	0	-27.3048036
chr17	46624600	46624600	+	0	0	-28.19740712
chr17	46624629	46624629	+	0	0	-33.48310046
chr17	46624630	46624630	-	0	0	-32.42249964
chr17	46624666	46624666	+	0	0	-27.31939986
chr17	46624667	46624667	-	0	0	-32.51763192
chr17	46624701	46624701	+	0	0	-32.85521139
chr17	46624762	46624762	+	1.23E-07	2.99E-06	-26.21556526
chr17	46624763	46624763	-	0	0	-37.67929941
chr17	46628055	46628055	+	0	0	-42.06312189
chr17	46628246	46628246	-	1.39E-06	2.78E-05	-41.40350877
chr17	46628253	46628253	-	4.79E-05	0.00066441	-35.03759398
chr17	46651744	46651744	+	2.39E-06	4.57E-05	-27.10227273
chr17	46728962	46728962	+	0	0	-27.55331072
chr17	46729067	46729067	-	0	0	-27.1480849
chr17	46729071	46729071	-	0	0	-27.55246739
chr17	46729095	46729095	+	0	0	-26.03632692
chr17	46729127	46729127	-	0	0	-26.18674203
chr17	46729133	46729133	-	0	0	-27.25389563
chr17	46729140	46729140	-	0	0	-27.29504807
chr17	46729181	46729181	+	5.00E-15	2.88E-13	-25.51594747
chr17	46729186	46729186	+	2.89E-15	1.70E-13	-26.55045788
chr17	46729357	46729357	-	0	0	-26.56030534
chr17	46897333	46897333	-	0	0	-35.02721418
chr17	47138245	47138245	-	9.49E-14	4.85E-12	-27.80058416
chr17	47468232	47468232	-	0	0	-27.41089101
chr17	47468362	47468362	-	0	0	-32.15923355
chr17	47468378	47468378	-	4.72E-14	2.48E-12	-28.24519231
chr17	47468417	47468417	+	0	0	-43.33167785
chr17	47468420	47468420	+	0	0	-34.28831374

chr17	47468422	47468422	+	0	0	-43.49312925
chr17	47468479	47468479	-	0	0	-50.27978934
chr17	47468494	47468494	-	0	0	-39.31705968
chr17	47468496	47468496	-	0	0	-39.58589153
chr17	47468524	47468524	+	0	0	-37.57279708
chr17	47468537	47468537	+	0	0	-35.84037772
chr17	47468555	47468555	+	0	0	-42.07906198
chr17	47468556	47468556	-	0	0	-41.07526774
chr17	47468559	47468559	+	0	0	-42.89817963
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chr17	47468573	47468573	+	0	0	-46.52542717
chr17	47468574	47468574	-	0	0	-47.37390694
chr17	47468582	47468582	-	0	0	-40.48069792
chr17	47468585	47468585	-	0	0	-52.43195307
chr17	47468598	47468598	-	0	0	-43.55883447
chr17	47468605	47468605	+	0	0	-43.07708421
chr17	47468606	47468606	-	0	0	-53.88204389
chr17	47468615	47468615	+	0	0	-52.90866047
chr17	47468630	47468630	+	0	0	-49.61656399
chr17	47468685	47468685	-	0	0	-50.59297424
chr17	47468688	47468688	-	0	0	-52.74566745
chr17	47468701	47468701	-	0	0	-39.25739005
chr17	47468706	47468706	-	0	0	-50.73101369
chr17	47468708	47468708	-	0	0	-29.41565185
chr17	47468710	47468710	-	0	0	-51.07284661
chr17	47468716	47468716	+	0	0	-47.24920122
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chr17	47468728	47468728	+	0	0	-56.55341521
chr17	47468729	47468729	-	0	0	-51.65488881
chr17	47468732	47468732	+	0	0	-28.98019855
chr17	47468733	47468733	-	0	0	-31.96308398
chr17	47468752	47468752	+	0	0	-53.6625885
chr17	47468753	47468753	-	0	0	-40.86056166
chr17	47468757	47468757	-	0	0	-36.40669557
chr17	47469080	47469080	+	0	0	-30.46076059
chr17	47672828	47672828	+	0	0	-32.04840104
chr17	47672929	47672929	+	0	0	-36.13020752
chr17	47703576	47703576	-	0	0	-30.31862745
chr17	47705304	47705304	-	7.14E-14	3.69E-12	-28.28215398
chr17	47705371	47705371	+	1.11E-16	7.26E-15	-27.43222892
chr17	47705372	47705372	-	0	0	-30.42139838

chr17	47767797	47767797	+	0.00014869	0.00177652	-32.47747748
chr17	47773723	47773723	+	7.02E-09	2.06E-07	-25.85139319
chr17	47888164	47888164	+	0	0	-32.06684767
chr17	47888204	47888204	+	0	0	-52.57774766
chr17	47888205	47888205	-	0	0	-58.85973372
chr17	47888285	47888285	-	0	0	-45.59821608
chr17	47909300	47909300	+	0	0	-29.76622845
chr17	47947387	47947387	-	0	0	-33.82837293
chr17	47973514	47973514	-	6.14E-09	1.82E-07	-27.83032185
chr17	47973591	47973591	-	0	0	-27.69296575
chr17	47974781	47974781	+	1.77E-11	7.16E-10	-27.10741254
chr17	47976569	47976569	-	2.06E-05	0.00031613	-43.03030303
chr17	47976592	47976592	-	2.65E-10	9.36E-09	-63.33333333
chr17	48029931	48029931	-	6.56E-05	0.00087446	-35.40983607
chr17	48057403	48057403	-	0	0	-25.66899071
chr17	48467191	48467191	+	4.61E-06	8.25E-05	-27.87924434
chr17	48647495	48647495	+	0	0	-27.11902953
chr17	48939286	48939286	-	3.06E-09	9.47E-08	39.47368421
chr17	49536130	49536130	+	4.84E-05	0.00067127	-26.34750586
chr17	50196268	50196268	-	1.04E-05	0.00017196	-30.31185031
chr17	50735172	50735172	+	0	0	-28.39222478
chr17	55956298	55956298	+	5.52E-07	1.19E-05	-25.21761393
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chr17	56018579	56018579	-	0	0	-25.90082779
chr17	56081178	56081178	+	0.00109641	0.00951905	-27.21793635
chr17	56138059	56138059	+	0	0	-33.37213115
chr17	56138116	56138116	-	0	0	-30.52188396
chr17	56138126	56138126	-	0	0	-43.65402908
chr17	56138136	56138136	+	0	0	-35.84801382
chr17	56138137	56138137	-	0	0	-41.77889014
chr17	56138157	56138157	+	0	0	-30.99159227
chr17	56138158	56138158	-	0	0	-37.74923632
chr17	56138164	56138164	+	0	0	-37.87506913
chr17	56138165	56138165	-	0	0	-33.81662213
chr17	56138166	56138166	+	0	0	-30.51988241
chr17	56138167	56138167	-	0	0	-39.28346952
chr17	56138173	56138173	-	0	0	-32.98211737
chr17	56184311	56184311	-	2.85E-06	5.34E-05	25.7183908
chr17	56302773	56302773	-	8.71E-05	0.00111871	-29.60917587
chr17	56333250	56333250	+	4.31E-05	0.00060631	-27.83068783
chr17	56425032	56425032	+	0	0	-26.46355654

chr17	56425046	56425046	+	0	0	-30.24516526
chr17	56469877	56469877	+	0	0	-28.17708333
chr17	56470001	56470001	+	0	0	-25.84311558
chr17	56475413	56475413	-	4.15E-06	7.50E-05	-27.93495935
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chr17	56510270	56510270	+	4.22E-09	1.28E-07	-27.98939248
chr17	56610275	56610275	+	5.10E-05	0.0007016	-26.19877942
chr17	56662818	56662818	+	0.00021449	0.00243233	33.85416667
chr17	56829743	56829743	+	0	0	-32.63061181
chr17	56829779	56829779	+	0	0	-25.93972637
chr17	56829809	56829809	-	0	0	-30.33903216
chr17	56829827	56829827	-	0	0	-31.31340223
chr17	56883610	56883610	+	8.81E-05	0.00112947	-26.9926456
chr17	56899047	56899047	+	0	0	-26.98888544
chr17	56899094	56899094	+	0	0	-42.15078269
chr17	57073750	57073750	+	0.00064744	0.00617098	-25.05617978
chr17	57074188	57074188	+	0	0	-26.90914746
chr17	57087453	57087453	-	5.57E-11	2.13E-09	-27.01379617
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chr17	57087478	57087478	-	1.13E-13	5.73E-12	-33.33600417
chr17	57087486	57087486	+	0	0	-30.88637134
chr17	57087487	57087487	-	5.77E-15	3.30E-13	-35.76406662
chr17	57087501	57087501	+	0	0	-26.27593526
chr17	57087509	57087509	+	0	0	-29.35546904
chr17	57087510	57087510	-	0	0	-32.49421354
chr17	57087522	57087522	+	0	0	-34.83323819
chr17	57087523	57087523	-	0	0	-36.35104986
chr17	57087534	57087534	+	0	0	-30.00745948
chr17	57087535	57087535	-	0	0	-34.78041688
chr17	57087546	57087546	-	0	0	-31.20380126
chr17	57087556	57087556	+	0	0	-30.88667457
chr17	57087557	57087557	-	0	0	-28.78414167
chr17	57087560	57087560	+	0	0	-29.76530612
chr17	57087581	57087581	+	0	0	-28.67645782
chr17	57087582	57087582	-	0	0	-25.70298853
chr17	57087592	57087592	+	0	0	-30.63192228
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chr17	57087618	57087618	+	0	0	-32.61607062
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chr17	57087664	57087664	+	0	0	-40.56198977
chr17	57087775	57087775	-	0.00020937	0.00238241	-32.7595339
chr17	57148965	57148965	+	0	0	-29.22869117
chr17	57149000	57149000	+	0	0	-27.76443215
chr17	57225178	57225178	-	2.45E-06	4.66E-05	-27.0877792
chr17	63146266	63146266	-	1.29E-11	5.31E-10	-46.14337568
chr17	63285683	63285683	-	1.31E-08	3.70E-07	-27.22587719
chr17	64210518	64210518	-	0	0	-26.00154039
chr17	64937015	64937015	+	1.92E-12	8.61E-11	-28.00420168
chr17	65548836	65548836	-	5.28E-06	9.32E-05	-28.25091575
chr17	67290998	67290998	-	3.01E-05	0.00044087	-28.7132265
chr17	67347281	67347281	-	0.00064673	0.00616546	-34.09090909
chr17	68020036	68020036	-	3.99E-05	0.00056619	-26.88651218
chr17	69158156	69158156	+	0	0	-30.99931818
chr17	69158209	69158209	-	0	0	-31.21383971
chr17	69382373	69382373	+	3.63E-12	1.58E-10	-28.64028412
chr17	70771986	70771986	-	1.40E-14	7.72E-13	-25.00462085
chr17	70809047	70809047	+	0.00010859	0.00135356	-26.26716604
chr17	70872214	70872214	-	4.11E-15	2.38E-13	-25.68906115
chr17	70872913	70872913	+	0	0	-30.30319084
chr17	71130514	71130514	-	9.41E-11	3.51E-09	-31.23854412
chr17	71137119	71137119	+	0	0	-37.27106175
chr17	71137208	71137208	+	0	0	-26.4690454
chr17	71137257	71137257	+	0	0	-25.71296522
chr17	71309165	71309165	-	5.22E-15	3.00E-13	-30.66037212
chr17	73540668	73540668	+	6.40E-05	0.00085591	-41.84210526
chr17	73726151	73726151	-	9.89E-06	0.00016388	30.30018762
chr17	73805408	73805408	-	8.41E-13	3.91E-11	-29.81609138
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chr17	74272936	74272936	-	0	0	-33.62665314
chr17	74272970	74272970	-	0	0	-33.95148728
chr17	74272972	74272972	-	0	0	-34.32629462
chr17	74272975	74272975	-	0	0	-32.29073526
chr17	75073829	75073829	+	1.11E-16	7.26E-15	-28.6547132
chr17	75178553	75178553	-	2.42E-05	0.00036445	-31.82957393
chr17	78605530	78605530	+	0.00113198	0.0097697	26.85823755
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chr17	80682658	80682658	+	0	0	-26.16059766
chr17	80717724	80717724	+	1.02E-10	3.80E-09	-34.11949686
chr17	80717773	80717773	+	0	0	-53.45709787
chr17	81671432	81671432	+	1.50E-12	6.79E-11	-32.29023589

chr17	83139012	83139012	+	0.00068225	0.00644457	-28.50877193
chr17	83139039	83139039	-	0.0001705	0.00199851	-32.09014759
chr17	83166802	83166802	+	0	0	-26.25999552
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chr17	83197471	83197471	+	4.11E-15	2.38E-13	-28.70062754
chr17	83216169	83216169	+	0	0	-25.16529656
chr17	83216261	83216261	-	0	0	-28.89973534
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chr17	83322669	83322669	+	0	0	-48.55912062
chr17	83322904	83322904	+	0	0	-25.98156186
chr17	83323005	83323005	-	0	0	-39.66655314
chr17	83323018	83323018	+	0	0	-30.0169857
chr17	83323019	83323019	-	0	0	-30.26204304
chr17	83323038	83323038	+	0	0	-33.40830947
chr17	83323052	83323052	+	0	0	-36.02088314
chr17	83323106	83323106	-	0	0	-30.76761813
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chr17	83545897	83545897	+	0	0	-25.75593555
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chr17	83545919	83545919	-	0	0	-27.78865399
chr17	83545921	83545921	+	0	0	-25.53478281
chr17	83545922	83545922	-	0	0	-25.51957262
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chr17	83546152	83546152	-	2.89E-06	5.42E-05	-43.17736061
chr17	83546423	83546423	+	0	0	-28.14918452
chr17	83546435	83546435	+	0	0	-45.86437309
chr17	83546544	83546544	-	0	0	-53.7793363
chr17	83546550	83546550	-	0	0	-53.25540962
chr17	83546559	83546559	-	0	0	-52.45230023
chr17	83546569	83546569	-	0	0	-58.6970475
chr17	83630988	83630988	+	3.33E-16	2.11E-14	-25.59516736
chr17	83630989	83630989	-	0	0	-27.5217232
chr17	83766361	83766361	-	0	0	-25.36709395
chr17	83846929	83846929	-	2.49E-10	8.87E-09	-25.9845827
chr17	83924493	83924493	+	0	0	-32.51611995
chr17	83924602	83924602	-	0	0	-27.76069468
chr17	83937735	83937735	+	0	0	-31.48190562
chr17	83937736	83937736	-	9.40E-06	0.0001566	-31.097749
chr17	83937756	83937756	+	0	0	-35.04059329

chr17	83937762	83937762	+	0	0	-37.75014324
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chr17	83937781	83937781	+	0	0	-37.80081855
chr17	83937782	83937782	-	0	0	-33.85598085
chr17	83937794	83937794	-	0	0	-35.29254144
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chr17	83955496	83955496	-	2.62E-07	6.00E-06	-38.01860699
chr17	84081935	84081935	-	0	0	-29.63411395
chr17	84157385	84157385	-	1.57E-08	4.37E-07	-30.18007203
chr17	84157390	84157390	-	2.39E-07	5.51E-06	-27.64305722
chr17	85072748	85072748	+	4.68E-06	8.37E-05	-26.08111738
chr17	85619536	85619536	+	0	0	-29.51420238
chr17	85629011	85629011	-	1.30E-09	4.22E-08	-29.49793212
chr17	85800509	85800509	+	0	0	-27.12948014
chr17	85800723	85800723	-	1.33E-07	3.20E-06	-54.34782609
chr17	85800725	85800725	-	2.04E-05	0.00031218	-49.11347518
chr17	85800729	85800729	-	0.00054284	0.0053292	-34.96376812
chr17	85800762	85800762	+	0	0	-43.87322603
chr17	85800763	85800763	-	4.72E-08	1.22E-06	-52.61121857
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chr17	85800831	85800831	-	0	0	-47.80953641
chr17	85800840	85800840	-	0	0	-32.24850938
chr17	86230122	86230122	+	0	0	-28.41667454
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chr17	86303166	86303166	+	0	0	-31.94056673
chr17	86303223	86303223	+	0	0	-29.18191169
chr17	86303224	86303224	-	0	0	-29.01987718
chr17	86330703	86330703	+	1.33E-07	3.20E-06	-38.67989056
chr17	86536386	86536386	+	4.16E-10	1.44E-08	-29.06795225
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chr17	86786317	86786317	+	0	0	-33.27255011
chr17	86786318	86786318	-	0	0	-27.60464473
chr17	86786351	86786351	+	0	0	-51.09189937
chr17	86786352	86786352	-	0	0	-30.36788618
chr17	86786824	86786824	+	6.61E-14	3.42E-12	-38.1713416
chr17	86801766	86801766	+	0	0	-38.13887604
chr17	86801773	86801773	+	0	0	-29.12182002

chr17	86801805	86801805	+	0	0	-32.91946418
chr17	86801936	86801936	+	0	0	-28.72197718
chr17	86906032	86906032	-	0	0	-25.16594517
chr17	87149679	87149679	+	1.88E-10	6.78E-09	-26.40901771
chr17	87179057	87179057	+	0	0	-37.29089219
chr17	87179230	87179230	-	1.79E-12	8.07E-11	-34.23302147
chr17	87286907	87286907	-	0.00016098	0.00190242	-29.34818212
chr17	87325886	87325886	-	0.00029803	0.00321975	-36.84719536
chr17	87325891	87325891	-	0.00063028	0.00603364	-34.71953578
chr17	87351844	87351844	-	0	0	-26.68436877
chr17	87351856	87351856	-	0	0	-33.8968016
chr17	87474935	87474935	-	0	0	-25.84482487
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chr17	87503441	87503441	-	0	0	-33.10195769
chr17	87529339	87529339	-	0	0	-48.18481848
chr17	87529347	87529347	-	1.49E-09	4.81E-08	-29.54433132
chr17	87529356	87529356	+	0	0	-39.09715186
chr17	87529357	87529357	-	5.33E-15	3.06E-13	-38.3976107
chr17	87529438	87529438	-	0	0	-50.65789474
chr17	87529441	87529441	-	0	0	-38.98989899
chr17	87529476	87529476	-	0	0	-42.56872598
chr17	87571090	87571090	-	0	0	-29.53452437
chr17	87609583	87609583	+	2.00E-15	1.19E-13	-44.3956044
chr17	87609596	87609596	+	7.37E-06	0.00012589	-25.30814215
chr17	87609607	87609607	+	9.09E-12	3.80E-10	-37.41218319
chr17	87609612	87609612	+	4.77E-12	2.05E-10	-36.63405958
chr17	87609629	87609629	+	0	0	-52.32334869
chr17	87609819	87609819	+	0	0	-27.93093755
chr17	87609860	87609860	-	0	0	-31.65287274
chr17	87612946	87612946	-	1.11E-16	7.26E-15	-25.41120983
chr17	87613052	87613052	+	7.51E-08	1.89E-06	-27.60882528
chr17	87635761	87635761	+	9.70E-10	3.21E-08	-46.26086957
chr17	87635779	87635779	+	2.74E-05	0.00040637	-30.81260844
chr17	87636982	87636982	+	0.00100824	0.00889071	-25.31347962
chr17	87745914	87745914	+	0	0	-25.79177099
chr17	87745928	87745928	+	0	0	-27.18224962
chr17	87745929	87745929	-	0	0	-26.36682367
chr17	87745932	87745932	+	0	0	-31.63177733
chr17	87745933	87745933	-	0	0	-30.42106322
chr17	87745936	87745936	+	0	0	-27.2830869
chr17	87745937	87745937	-	0	0	-29.5519133

chr17	87877701	87877701	+	2.11E-06	4.07E-05	-34.49764521
chr17	87877945	87877945	-	5.30E-09	1.58E-07	-26.66281087
chr17	88626777	88626777	+	2.77E-11	1.10E-09	-25.4928192
chr17	88626778	88626778	-	4.17E-13	2.00E-11	-26.74568159
chr17	88886296	88886296	+	8.23E-05	0.00106459	28.57142857
chr17	90583953	90583953	+	0	0	-28.94837476
chr17	90584104	90584104	-	0	0	-30.47076485
chr17	91088154	91088154	+	0.00029236	0.00316718	-30.51948052
chr17	91088406	91088406	+	1.94E-05	0.00029909	-28.51662404
chr17	91088603	91088603	-	5.25E-07	1.14E-05	-27.12423313
chr17	91088605	91088605	-	6.22E-15	3.55E-13	-40.18298806
chr17	91088622	91088622	-	7.51E-09	2.19E-07	-31.19671739
chr18	3839802	3839802	-	8.18E-09	2.38E-07	-25.76652602
chr18	4927990	4927990	-	0	0	-30.53701332
chr18	5428060	5428060	+	0	0	-32.14208742
chr18	5428265	5428265	+	0	0	-35.18717782
chr18	5428292	5428292	+	0	0	-32.29968349
chr18	5428293	5428293	-	0	0	-33.33534161
chr18	9214717	9214717	-	0	0	-34.5175248
chr18	9214753	9214753	+	0	0	-39.41557395
chr18	9214755	9214755	+	0	0	-36.3072963
chr18	9214804	9214804	-	0	0	-43.64786061
chr18	9214806	9214806	-	0	0	-29.07897293
chr18	9214810	9214810	-	0	0	-39.61234556
chr18	9214822	9214822	-	0	0	-26.87140963
chr18	9214851	9214851	+	0	0	-31.57353376
chr18	9214870	9214870	-	0	0	-27.23475355
chr18	9214875	9214875	+	0	0	-33.65900214
chr18	9214876	9214876	-	0	0	-39.85636515
chr18	9214894	9214894	-	0	0	-30.39545848
chr18	9214896	9214896	+	8.55E-12	3.58E-10	-26.20488333
chr18	9214897	9214897	-	0	0	-45.19573442
chr18	9214905	9214905	+	0	0	-29.02526103
chr18	9214906	9214906	-	0	0	-28.13634866
chr18	9214928	9214928	+	0	0	-32.91493323
chr18	9215031	9215031	-	0	0	-30.55010266
chr18	9215056	9215056	-	3.33E-16	2.11E-14	-27.98913043
chr18	9957555	9957555	-	0.00033665	0.00356875	-27.34922861
chr18	10866634	10866634	-	2.49E-05	0.00037302	-47.22222222
chr18	11048085	11048085	-	1.11E-16	7.26E-15	-30.07113543
chr18	11048112	11048112	-	0	0	-26.72352728

chr18	11055519	11055519	-	0	0	-26.01161176
chr18	11058788	11058788	+	1.42E-11	5.81E-10	-25.61714257
chr18	11239754	11239754	+	0	0	-31.17215112
chr18	11239761	11239761	+	0	0	-30.31485414
chr18	11239923	11239923	+	0	0	-35.59860089
chr18	11240071	11240071	-	5.11E-15	2.94E-13	-26.34630742
chr18	11240096	11240096	-	0	0	-25.94753137
chr18	11897641	11897641	+	4.73E-10	1.62E-08	-26.67381974
chr18	11897655	11897655	+	6.11E-10	2.07E-08	-26.70248109
chr18	11941388	11941388	-	0	0	-31.81292337
chr18	11941401	11941401	-	0	0	-34.54681953
chr18	11941433	11941433	-	0	0	-35.17995704
chr18	13031663	13031663	-	0	0	-30.97954367
chr18	13031696	13031696	-	7.39E-14	3.81E-12	-30.3300376
chr18	13032159	13032159	-	0	0	-33.87702566
chr18	13032170	13032170	+	2.13E-12	9.50E-11	-25.76585366
chr18	13032332	13032332	+	0	0	-28.90487087
chr18	13032333	13032333	-	0	0	-26.85871456
chr18	13032340	13032340	+	0	0	-44.38880036
chr18	13032365	13032365	+	3.22E-15	1.89E-13	-25.83113828
chr18	13032474	13032474	-	0	0	-27.43061309
chr18	14502909	14502909	+	0	0	-28.86414997
chr18	14502912	14502912	+	0	0	-33.03689688
chr18	14706129	14706129	+	0	0	-27.77546952
chr18	14706130	14706130	-	7.77E-16	4.79E-14	-25.89576001
chr18	14706137	14706137	+	1.78E-15	1.06E-13	-25.26324342
chr18	14706138	14706138	-	0	0	-28.68856193
chr18	14706146	14706146	+	0	0	-27.34098517
chr18	14706147	14706147	-	0	0	-27.7224736
chr18	14706161	14706161	-	0	0	-29.24175451
chr18	14706167	14706167	-	0	0	-30.23297679
chr18	14782254	14782254	+	6.61E-08	1.67E-06	-28.13966077
chr18	15066508	15066508	-	0	0	-32.53356908
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chr18	20746760	20746760	+	0	0	-26.54223685
chr18	20746761	20746761	-	0	0	-29.51913488
chr18	20944545	20944545	-	3.22E-15	1.89E-13	-30.78678206
chr18	20944587	20944587	+	4.45E-14	2.34E-12	-29.3275472
chr18	20944588	20944588	-	1.32E-11	5.42E-10	-27.46671787
chr18	21651391	21651391	+	7.15E-10	2.40E-08	-32.75585611
chr18	21651509	21651509	+	0	0	-27.02582739

chr18	21651510	21651510	-	0	0	-27.98160701
chr18	21842451	21842451	+	6.54E-05	0.00087289	40
chr18	24651931	24651931	-	1.15E-13	5.84E-12	-27.55791778
chr18	24666116	24666116	+	0.00020029	0.00229444	-42.70833333
chr18	30224459	30224459	+	2.20E-05	0.000334	-54.61538462
chr18	32507138	32507138	-	1.30E-14	7.19E-13	-30.4549406
chr18	34547422	34547422	-	5.61E-07	1.21E-05	-36.93524096
chr18	34547436	34547436	+	0	0	-34.34355929
chr18	34547445	34547445	+	0	0	-32.14699684
chr18	34547457	34547457	+	0	0	-43.50805531
chr18	34547467	34547467	+	0	0	-40.74435854
chr18	34547474	34547474	+	0	0	-36.56636597
chr18	34547596	34547596	-	1.22E-10	4.49E-09	-27.94217456
chr18	34549349	34549349	+	1.69E-10	6.12E-09	-26.5601829
chr18	34549511	34549511	+	0	0	-37.07533682
chr18	34549512	34549512	-	0	0	-36.05068322
chr18	34549547	34549547	+	0	0	-35.34026949
chr18	34549548	34549548	-	0	0	-30.22985161
chr18	34549553	34549553	+	5.00E-05	0.00068962	-25.08266415
chr18	34549554	34549554	-	0	0	-32.18437132
chr18	34549584	34549584	+	3.40E-07	7.63E-06	-31.31018383
chr18	34883872	34883872	+	0.00024007	0.00267829	-29.16666667
chr18	35118001	35118001	+	3.80E-10	1.32E-08	-28.88952764
chr18	35823729	35823729	+	0	0	-33.26911956
chr18	35823730	35823730	-	3.22E-12	1.41E-10	-34.18439716
chr18	35823852	35823852	-	0	0	-32.81613301
chr18	35921080	35921080	+	0	0	-52.59989053
chr18	35921084	35921084	+	0	0	-28.05825243
chr18	35921088	35921088	+	0	0	-43.13546423
chr18	36021940	36021940	+	0.00021026	0.00239139	-32.79220779
chr18	36032516	36032516	-	3.29E-11	1.29E-09	-53.56241507
chr18	36032520	36032520	-	5.49E-05	0.00074861	-31.54387969
chr18	36032538	36032538	-	2.30E-07	5.33E-06	-43.40376927
chr18	36032553	36032553	-	1.72E-06	3.38E-05	-40.42307692
chr18	36284644	36284644	-	3.33E-16	2.11E-14	-38.91607461
chr18	36284724	36284724	-	0	0	-36.23221628
chr18	36324262	36324262	+	0	0	-36.37765679
chr18	36324266	36324266	+	0	0	-34.21423144
chr18	36324385	36324385	+	0	0	-29.48506039
chr18	36514385	36514385	-	0	0	-25.69592423
chr18	36514978	36514978	+	1.10E-06	2.24E-05	-36.13636364

chr18	36696058	36696058	-	0.00030176	0.00325345	-25.17741129
chr18	36696070	36696070	-	6.62E-06	0.0001143	-30.64030132
chr18	36731081	36731081	-	0	0	-25.29391685
chr18	37721836	37721836	+	4.63E-07	1.01E-05	-25.10995708
chr18	37725973	37725973	+	3.28E-08	8.73E-07	-25.49009684
chr18	37743325	37743325	+	0.00078782	0.00725765	26.59323367
chr18	37743352	37743352	+	0.00054286	0.00532928	37.32718894
chr18	37766820	37766820	+	0	0	-26.64092664
chr18	37808525	37808525	-	7.64E-05	0.00099866	-40.64039409
chr18	37821848	37821848	-	6.47E-07	1.38E-05	-40.94117647
chr18	37822667	37822667	+	0.0001146	0.00141745	-26.08695652
chr18	37842432	37842432	+	0	0	-57.39573148
chr18	37842454	37842454	+	0	0	-36.32142857
chr18	37842621	37842621	-	0	0	-43.88297872
chr18	37842629	37842629	+	0	0	-48.25133355
chr18	37842630	37842630	-	0	0	-42.27398316
chr18	37842658	37842658	+	0	0	-49.92231513
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chr18	37842695	37842695	-	0	0	-43.0134103
chr18	37842723	37842723	+	0	0	-53.84615385
chr18	37880050	37880050	+	2.37E-10	8.44E-09	-31.47637795
chr18	38283843	38283843	+	0.00011383	0.00140936	-25.08090615
chr18	38522005	38522005	-	1.76E-08	4.88E-07	-34.39393939
chr18	38542565	38542565	-	1.33E-09	4.31E-08	-32.15133978
chr18	38542576	38542576	-	6.82E-08	1.72E-06	-28.40713814
chr18	38568985	38568985	+	1.92E-07	4.51E-06	-26.91776296
chr18	38569013	38569013	+	4.13E-07	9.13E-06	-26.02392171
chr18	38570631	38570631	+	0	0	-36.81102362
chr18	38570666	38570666	-	0	0	-25.38293828
chr18	38570705	38570705	+	4.19E-06	7.57E-05	-39.05462185
chr18	38570706	38570706	-	9.96E-12	4.15E-10	-36.70112782
chr18	38570724	38570724	+	1.61E-05	0.00025381	-36.37873754
chr18	38570891	38570891	-	0	0	-41.38491845
chr18	38584249	38584249	+	0	0	-29.15878278
chr18	38584283	38584283	+	0	0	-36.96779521
chr18	38584284	38584284	-	0	0	-41.33367176
chr18	38584290	38584290	+	0	0	-33.37972133
chr18	38584291	38584291	-	0	0	-35.21710943
chr18	38584310	38584310	+	0	0	-40.55254237
chr18	38584311	38584311	-	0	0	-34.60188934



chr18	38584337	38584337	+	4.44E-16	2.79E-14	-33.84273504
chr18	38584341	38584341	+	1.03E-13	5.25E-12	-27.41595209
chr18	38584445	38584445	-	0	0	-33.38116715
chr18	38602735	38602735	-	5.91E-14	3.08E-12	-27.72871217
chr18	38602739	38602739	-	0	0	-44.5443893
chr18	38703335	38703335	+	3.70E-08	9.77E-07	-27.81570898
chr18	38938124	38938124	+	1.21E-07	2.93E-06	-28.40239913
chr18	39095228	39095228	-	0	0	-39.09026297
chr18	39284333	39284333	+	0	0	-34.77087455
chr18	42267269	42267269	-	4.94E-07	1.08E-05	31.21212121
chr18	42685951	42685951	-	0	0	-29.68637523
chr18	43843605	43843605	-	0.00061069	0.00587772	-26.66666667
chr18	45001380	45001380	+	1.83E-06	3.58E-05	-25.88987764
chr18	46199639	46199639	+	0	0	-26.08405111
chr18	46199640	46199640	-	0	0	-31.63879283
chr18	46199653	46199653	-	0	0	-31.25029041
chr18	46575139	46575139	-	0.00018504	0.00214431	-26.6
chr18	47321369	47321369	+	0	0	-28.00126816
chr18	47331304	47331304	+	0	0	-29.89981423
chr18	47432828	47432828	+	1.24E-06	2.50E-05	-35.22328735
chr18	47493898	47493898	-	4.59E-06	8.22E-05	-31.26795977
chr18	47703880	47703880	+	9.64E-14	4.92E-12	-39.01422107
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chr18	49559683	49559683	-	9.41E-06	0.00015674	-32.67008221
chr18	52753832	52753832	+	0	0	-27.11406096
chr18	52753853	52753853	+	8.66E-15	4.87E-13	-26.07069258
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chr18	53255910	53255910	+	0	0	-26.31236572
chr18	53255947	53255947	-	0	0	-33.32942441
chr18	53469591	53469591	-	0	0	-32.79091171
chr18	54611521	54611521	+	0	0	-29.64642958
chr18	54611601	54611601	-	0	0	-37.07943925
chr18	54758538	54758538	+	0	0	-47.24627078
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chr18	54828113	54828113	-	0	0	-28.00862758
chr18	54828137	54828137	-	0	0	-26.7919525
chr18	54828144	54828144	-	0	0	-36.20809089

chr18	54911794	54911794	+	0	0	-37.74263716
chr18	54911842	54911842	-	0	0	-27.84064875
chr18	54911867	54911867	-	0	0	-34.9984656
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chr18	54953364	54953364	-	5.56E-12	2.38E-10	-36.82692308
chr18	54979247	54979247	-	0	0	-28.30745746
chr18	56676611	56676611	-	1.46E-11	5.97E-10	-31.97247706
chr18	56676651	56676651	+	1.85E-11	7.50E-10	-25.50352186
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chr18	56676687	56676687	-	0	0	-27.22142371
chr18	56678656	56678656	-	0	0	-26.72359018
chr18	57747428	57747428	+	0	0	-33.68372189
chr18	57747429	57747429	-	0	0	-32.93309348
chr18	57747473	57747473	-	0	0	-26.42432952
chr18	60610166	60610166	-	0	0	-27.75671526
chr18	60613544	60613544	-	0	0	-40.60030955
chr18	60613557	60613557	+	1.02E-14	5.70E-13	-36.94329875
chr18	60613558	60613558	-	0	0	-42.03255723
chr18	60735485	60735485	+	0	0	-30.0775815
chr18	60735620	60735620	+	0	0	-25.53744456
chr18	60735636	60735636	+	0	0	-27.7354092
chr18	60901326	60901326	-	0	0	-32.33836839
chr18	60912347	60912347	+	3.47E-12	1.52E-10	-30.76097072
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chr18	60912482	60912482	+	0	0	-32.86401458
chr18	60925534	60925534	+	0	0	-26.73243632
chr18	60925542	60925542	+	0	0	-37.06026355
chr18	60925553	60925553	+	0	0	-42.9786195
chr18	60925647	60925647	-	0	0	-41.09490618
chr18	60925659	60925659	-	0	0	-39.1203092
chr18	60926417	60926417	-	6.95E-06	0.00011941	-39.35532234
chr18	60950735	60950735	-	8.62E-12	3.61E-10	-28.75615764
chr18	60950765	60950765	-	0	0	-35.6123348
chr18	60950785	60950785	-	1.27E-11	5.23E-10	-27.01870652
chr18	60972274	60972274	-	3.14E-05	0.00045842	-41.2987013
chr18	60977862	60977862	-	8.99E-15	5.05E-13	-27.33702875
chr18	60977867	60977867	-	0	0	-33.30396476
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chr18	61011769	61011769	+	0	0	-25.54577402

chr18	61011842	61011842	-	0	0	-26.67883059
chr18	61015198	61015198	-	3.27E-07	7.36E-06	-26.98836614
chr18	61035764	61035764	+	5.90E-14	3.07E-12	-42.29427041
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chr18	61035783	61035783	-	3.84E-13	1.85E-11	-35.95196336
chr18	61035794	61035794	-	1.52E-10	5.53E-09	-29.72373649
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chr18	61035869	61035869	-	5.25E-08	1.35E-06	-34.80284421
chr18	61035920	61035920	+	0	0	-37.83747064
chr18	61035921	61035921	-	0	0	-37.09679246
chr18	61035932	61035932	+	0	0	-39.48096977
chr18	61035933	61035933	-	0	0	-37.88162472
chr18	61035960	61035960	-	0	0	-34.58541227
chr18	61035974	61035974	+	0	0	-29.69763978
chr18	61035975	61035975	-	0	0	-32.88854003
chr18	61035983	61035983	+	0	0	-32.11484297
chr18	61035984	61035984	-	0	0	-29.93331407
chr18	61036028	61036028	+	0	0	-26.64402296
chr18	61036178	61036178	+	0	0	-33.49986333
chr18	61036374	61036374	-	0	0	-29.16906946
chr18	61036383	61036383	-	0	0	-25.440759
chr18	61036421	61036421	+	2.07E-10	7.43E-09	-31.14130435
chr18	61041384	61041384	-	1.94E-05	0.00029919	-39.03276956
chr18	61042588	61042588	-	3.31E-06	6.12E-05	-37.74509804
chr18	61044906	61044906	-	9.44E-05	0.00119926	-26.14754098
chr18	61065774	61065774	+	0	0	-26.85698268
chr18	61065780	61065780	+	0	0	-30.22584906
chr18	61065784	61065784	+	0	0	-27.0752885
chr18	61065789	61065789	+	0	0	-36.62994874
chr18	61065800	61065800	+	0	0	-27.43588792
chr18	61065812	61065812	-	0	0	-25.40996998
chr18	61065906	61065906	+	1.25E-08	3.53E-07	-29.2022792
chr18	61294485	61294485	+	5.77E-08	1.48E-06	-50.12315271
chr18	61454907	61454907	-	0.0009433	0.00841712	-39.68253968
chr18	61652383	61652383	+	2.27E-08	6.19E-07	-34.66288385
chr18	61759966	61759966	+	0.00049167	0.00490518	-31.17630141
chr18	61766405	61766405	-	0	0	-26.10955658
chr18	61783764	61783764	+	0	0	-36.76695311
chr18	61783933	61783933	-	6.09E-06	0.00010606	-29.32773109

chr18	62047039	62047039	+	0.00090657	0.00814882	-25.72327044
chr18	64493639	64493639	+	0	0	-26.82679739
chr18	64493670	64493670	+	0	0	-29.24431439
chr18	64493671	64493671	-	0	0	-30.18732846
chr18	64493672	64493672	+	0	0	-25.10944584
chr18	64551625	64551625	+	1.98E-10	7.13E-09	-39.52065273
chr18	64551853	64551853	-	0.00053627	0.00527603	-47.3354232
chr18	64911840	64911840	+	0	0	-32.56886805
chr18	64911841	64911841	-	0	0	-31.46601747
chr18	64911882	64911882	+	5.55E-16	3.46E-14	-26.3011768
chr18	64911883	64911883	-	0	0	-26.77111657
chr18	64911912	64911912	+	0	0	-28.08377533
chr18	64911913	64911913	-	0	0	-28.19304649
chr18	64911924	64911924	-	0	0	-26.70863348
chr18	64933369	64933369	+	0	0	-38.05884137
chr18	64933558	64933558	-	5.39E-06	9.49E-05	-29.86533282
chr18	64954502	64954502	-	0.00012823	0.00156302	-39.28571429
chr18	64959464	64959464	-	4.44E-07	9.75E-06	-31.70731707
chr18	65347747	65347747	-	0	0	-25.70599555
chr18	65497896	65497896	-	0	0	-38.20579406
chr18	65704069	65704069	+	1.04E-09	3.42E-08	-31.19394292
chr18	65704223	65704223	-	0	0	-28.24318102
chr18	65938316	65938316	-	0.00010667	0.00133303	-29.82758621
chr18	66461322	66461322	-	3.74E-07	8.33E-06	-31.95666341
chr18	66475785	66475785	+	1.21E-12	5.56E-11	-40.1119403
chr18	66475797	66475797	+	1.63E-10	5.91E-09	-35.05291005
chr18	66475815	66475815	+	7.53E-13	3.52E-11	-40.49234864
chr18	66514808	66514808	-	3.92E-14	2.07E-12	-41.68742217
chr18	66514853	66514853	+	0	0	-28.18698385
chr18	67312345	67312345	+	2.22E-13	1.10E-11	-25.53205536
chr18	67346036	67346036	+	2.72E-13	1.33E-11	-25.50901687
chr18	67391693	67391693	+	0	0	-33.42414372
chr18	67391694	67391694	-	0	0	-28.19083472
chr18	67977657	67977657	+	4.41E-08	1.15E-06	-30.7746085
chr18	69198038	69198038	+	7.51E-14	3.87E-12	-30.05580029
chr18	69198102	69198102	+	0	0	-28.68765182
chr18	69198103	69198103	-	0	0	-35.71005073
chr18	69198109	69198109	+	0	0	-25.9765217
chr18	69563690	69563690	+	6.10E-07	1.31E-05	-37.38926524
chr18	69563691	69563691	-	3.63E-08	9.59E-07	-43.35515548
chr18	69563736	69563736	+	3.68E-08	9.71E-07	-36.02564103

chr18	69613736	69613736	+	0	0	-34.82577401
chr18	69614040	69614040	+	0	0	-29.8718039
chr18	69722890	69722890	+	0	0	-28.61585866
chr18	69794273	69794273	-	0	0	-28.54606074
chr18	70471689	70471689	-	0	0	-34.81755683
chr18	73217039	73217039	-	2.33E-15	1.38E-13	-30.78515687
chr18	73701988	73701988	-	0	0	-28.27300141
chr18	73735132	73735132	+	0	0	-25.68588548
chr18	73735262	73735262	-	0	0	-31.95746528
chr18	74008412	74008412	-	0	0	-30.10675678
chr18	74008435	74008435	+	8.56E-05	0.00110226	-30.12477718
chr18	74994403	74994403	+	3.32E-07	7.47E-06	-27.28565016
chr18	75047456	75047456	-	0	0	-38.01663112
chr18	75248969	75248969	-	1.11E-16	7.26E-15	-30.62359865
chr18	75307427	75307427	+	0	0	-41.53086906
chr18	75307533	75307533	-	9.72E-13	4.49E-11	-60.92488378
chr18	75307535	75307535	-	1.21E-06	2.44E-05	-38.52459016
chr18	75307537	75307537	-	1.30E-12	5.95E-11	-59.48930297
chr18	75307548	75307548	-	2.35E-10	8.37E-09	-53.13092979
chr18	75307577	75307577	+	0	0	-40.26006512
chr18	75307585	75307585	+	0	0	-32.73170732
chr18	75307586	75307586	-	0	0	-39.94253195
chr18	75307599	75307599	+	0	0	-48.2400971
chr18	75307600	75307600	-	0	0	-45.78702868
chr18	75307620	75307620	+	0	0	-54.18421358
chr18	75307621	75307621	-	0	0	-38.21078431
chr18	75307638	75307638	+	0	0	-48.02901986
chr18	75307641	75307641	+	0	0	-44.01281461
chr18	75307649	75307649	+	0	0	-39.60079143
chr18	75307670	75307670	+	0	0	-53.10388342
chr18	75307749	75307749	-	0	0	-44.91372913
chr18	75307766	75307766	-	0	0	-40.42377545
chr18	75307791	75307791	+	0.00038631	0.00400626	-27.90811339
chr18	75307792	75307792	-	0	0	-32.48514596
chr18	75307803	75307803	+	7.34E-10	2.46E-08	-52.98142717
chr18	75325687	75325687	+	0	0	-27.32103257
chr18	75332418	75332418	+	0	0	-37.17877314
chr18	75332429	75332429	+	0	0	-41.64918074
chr18	75332526	75332526	-	0	0	-43.89749474
chr18	75332546	75332546	+	0	0	-44.39372509
chr18	75332547	75332547	-	0	0	-39.01967636

chr18	75332562	75332562	+	2.33E-08	6.34E-07	-29.45704248
chr18	75344798	75344798	+	0	0	-42.9786998
chr18	75361039	75361039	-	1.04E-13	5.28E-12	-26.5433881
chr18	75372786	75372786	+	0	0	-35.37838093
chr18	75372963	75372963	+	0	0	-36.9926176
chr18	75372964	75372964	-	1.79E-12	8.05E-11	-46.84974435
chr18	75379529	75379529	-	0	0	-27.04868401
chr18	75386128	75386128	+	0	0	-27.00240923
chr18	75398493	75398493	-	0	0	-30.66844256
chr18	75435053	75435053	+	0	0	-58.62138365
chr18	75435060	75435060	+	9.52E-11	3.55E-09	-33.69937888
chr18	75435278	75435278	-	4.26E-06	7.69E-05	-33.71428571
chr18	75462586	75462586	-	0	0	-27.37907762
chr18	75472041	75472041	-	5.03E-08	1.30E-06	-38.80327869
chr18	75494389	75494389	+	0	0	-27.08396515
chr18	75500542	75500542	+	0	0	-25.4362664
chr18	75566537	75566537	-	1.53E-05	0.00024226	-40.53639847
chr18	75839157	75839157	+	3.44E-05	0.00049644	37.9286927
chr18	75900124	75900124	-	9.47E-11	3.53E-09	-30.13923014
chr18	76051738	76051738	+	0	0	-26.85618729
chr18	76055087	76055087	+	1.15E-11	4.74E-10	-34.04361654
chr18	76055352	76055352	-	4.01E-10	1.39E-08	-27.7855292
chr18	76057802	76057802	-	0	0	-31.79628498
chr18	76145907	76145907	+	0	0	-25.86298814
chr18	76146049	76146049	+	1.90E-10	6.85E-09	-40.50287155
chr18	76146062	76146062	+	1.03E-05	0.00016958	-27.86501377
chr18	76146249	76146249	-	2.44E-12	1.08E-10	-31.37181409
chr18	76146260	76146260	-	5.45E-12	2.33E-10	-25.41493387
chr18	76933006	76933006	-	2.73E-09	8.48E-08	-29.19479152
chr18	77186115	77186115	+	1.22E-15	7.41E-14	-28.3899872
chr18	77597467	77597467	+	0.00069885	0.00657177	-25.24826216
chr18	77597699	77597699	-	1.91E-08	5.26E-07	-26.91975469
chr18	77603396	77603396	+	4.47E-05	0.00062604	-34.61538462
chr18	77605767	77605767	+	0	0	-35.84380821
chr18	77794169	77794169	-	5.66E-15	3.24E-13	-36.93634639
chr18	77795409	77795409	-	0	0	-28.92958372
chr18	78046946	78046946	+	0	0	-35.83723864
chr18	78340073	78340073	-	0	0	-31.0259705
chr18	80129351	80129351	+	0	0	-37.56054848
chr18	80129451	80129451	-	7.77E-16	4.79E-14	-28.83402009
chr18	80169944	80169944	-	0.00058812	0.00569712	-28.67424242

chr18	80604099	80604099	-	5.55E-16	3.46E-14	-33.20866142
chr18	80604134	80604134	-	2.02E-14	1.10E-12	-30.57086614
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chr18	80613926	80613926	-	0	0	-31.94993249
chr18	80613944	80613944	-	0	0	-29.52443609
chr18	80640512	80640512	+	5.75E-07	1.24E-05	-31.7721519
chr18	80640555	80640555	+	4.35E-06	7.83E-05	-30.87542088
chr18	80684270	80684270	+	1.57E-09	5.03E-08	-26.82564813
chr18	81399205	81399205	-	0.00036937	0.00385893	-38.12636166
chr18	81399210	81399210	-	8.16E-06	0.00013779	-49.23747277
chr18	81510468	81510468	+	7.61E-07	1.60E-05	-29.61936241
chr18	81510482	81510482	+	1.11E-06	2.26E-05	-28.95756941
chr18	81510654	81510654	-	5.66E-12	2.42E-10	-25.85476245
chr18	81526142	81526142	+	0.00055259	0.00540882	-25.78595318
chr18	81834184	81834184	+	0.00102732	0.00902864	-28.08441558
chr18	82474821	82474821	+	0	0	-34.95395802
chr18	82474822	82474822	-	2.10E-11	8.44E-10	-30.15379712
chr18	82474836	82474836	+	0	0	-37.09602711
chr18	82474848	82474848	+	0	0	-42.14660974
chr18	82536254	82536254	-	0.00062744	0.0060112	-29.73684211
chr18	82559120	82559120	-	2.36E-14	1.28E-12	-26.43713995
chr18	82559122	82559122	-	2.21E-14	1.20E-12	-26.02235942
chr18	82575558	82575558	+	8.29E-07	1.73E-05	-26.57695542
chr18	82753636	82753636	+	0	0	-28.21439775
chr18	82753646	82753646	+	0	0	-29.81314904
chr18	82753696	82753696	-	0	0	-38.7185118
chr18	82811659	82811659	+	2.72E-05	0.00040397	-29.84330484
chr18	82828039	82828039	-	0	0	-45.92245667
chr18	82872559	82872559	+	1.37E-13	6.87E-12	-29.26938224
chr18	82876171	82876171	+	1.19E-07	2.90E-06	-26.77801724
chr18	82916396	82916396	+	2.49E-14	1.34E-12	-27.61357702
chr18	82921941	82921941	+	1.02E-10	3.78E-09	-26.20513133
chr18	82921942	82921942	-	0	0	-27.44040653
chr18	83183917	83183917	-	0.00034318	0.003627	-28.23588206
chr18	83186048	83186048	+	1.23E-11	5.06E-10	-25.25
chr18	83360369	83360369	+	4.44E-06	7.97E-05	-40.15376984
chr18	83360381	83360381	+	1.41E-06	2.81E-05	-41.61706349
chr18	83363203	83363203	+	0	0	-27.21130907
chr18	84073532	84073532	+	6.86E-11	2.60E-09	-27.06422985
chr18	84090027	84090027	+	0	0	-29.94745592
chr18	84090041	84090041	+	0	0	-27.50954613

chr18	84090072	84090072	+	0	0	-34.75622682
chr18	84090073	84090073	-	0	0	-37.9646936
chr18	84090107	84090107	-	0	0	-28.76274661
chr18	84264158	84264158	-	2.49E-06	4.74E-05	-27.64876633
chr18	84407463	84407463	+	5.91E-05	0.00079936	-26.59736308
chr18	84708406	84708406	+	4.82E-09	1.45E-07	-25.23076923
chr18	84708443	84708443	+	0	0	-37.67271251
chr18	84712548	84712548	+	0.00067098	0.00635673	33.33333333
chr18	88409909	88409909	-	9.97E-05	0.00125838	29.62962963
chr19	3307730	3307730	+	2.58E-10	9.14E-09	-30.96242716
chr19	3687534	3687534	-	4.43E-14	2.33E-12	-27.72108844
chr19	3687820	3687820	-	7.04E-09	2.07E-07	-41.24452783
chr19	3738706	3738706	-	1.05E-05	0.00017269	27.35042735
chr19	3852920	3852920	+	0.00024218	0.00269851	-30.89330025
chr19	3943451	3943451	+	0	0	-41.79535834
chr19	3943459	3943459	+	0	0	-32.81652328
chr19	4151583	4151583	-	0.00110495	0.0095794	-25.13788099
chr19	4156974	4156974	+	2.11E-07	4.91E-06	-51.51515152
chr19	4173319	4173319	-	2.65E-14	1.43E-12	-37.89760873
chr19	4175387	4175387	+	0	0	-33.49980314
chr19	4175526	4175526	-	0	0	-29.85288496
chr19	4191501	4191501	-	0.00068662	0.00647876	-30.91168091
chr19	4217401	4217401	+	2.58E-11	1.03E-09	-29.8420526
chr19	4217553	4217553	-	6.59E-07	1.40E-05	-26.9470405
chr19	4217598	4217598	-	1.66E-10	6.02E-09	-30.03432117
chr19	4217886	4217886	-	6.31E-07	1.35E-05	-30.37863421
chr19	4257978	4257978	-	3.22E-15	1.89E-13	-43.82352941
chr19	4263945	4263945	-	0	0	-34.84643094
chr19	4263966	4263966	-	0	0	-25.49158525
chr19	4298867	4298867	+	0	0	-33.99360588
chr19	4298882	4298882	+	0	0	-36.96193589
chr19	4298883	4298883	-	0	0	-36.09331313
chr19	4618399	4618399	-	0	0	-26.27764128
chr19	4618415	4618415	-	0	0	-31.69544355
chr19	4711324	4711324	+	0	0	-26.82663589
chr19	4711328	4711328	+	0	0	-31.9585599
chr19	4720716	4720716	+	0	0	-34.70633105
chr19	4720816	4720816	-	0	0	-35.70202061
chr19	4720860	4720860	-	0	0	-30.80155139
chr19	4785455	4785455	-	5.46E-11	2.09E-09	-31.94727105
chr19	5052053	5052053	+	0	0	-29.74401678



chr19	5052118	5052118	+	0	0	-27.37582323
chr19	5052964	5052964	+	0	0	-28.98192991
chr19	5052965	5052965	-	0	0	-28.66011533
chr19	5054018	5054018	-	3.53E-06	6.49E-05	-28.19548872
chr19	5058137	5058137	+	0	0	-33.33493205
chr19	5058138	5058138	-	0	0	-28.59288879
chr19	5058241	5058241	-	0	0	-25.7763581
chr19	5058284	5058284	-	0	0	-33.49001942
chr19	5068648	5068648	-	0	0	-31.31519274
chr19	5071268	5071268	+	0	0	-28.17257873
chr19	5071403	5071403	-	2.97E-06	5.56E-05	-33.94620361
chr19	5081841	5081841	+	0.00016341	0.00192718	-25.63115105
chr19	5082156	5082156	+	1.59E-06	3.15E-05	-30.48005409
chr19	5082378	5082378	-	1.38E-09	4.47E-08	-27.02702703
chr19	5110257	5110257	+	4.44E-16	2.79E-14	-25.94181009
chr19	5298295	5298295	+	0	0	-38.03681075
chr19	5298299	5298299	+	0	0	-45.58933117
chr19	5298302	5298302	+	0	0	-28.09472171
chr19	5298398	5298398	-	0	0	-29.42141111
chr19	5298458	5298458	+	0	0	-31.1069865
chr19	5464430	5464430	+	5.07E-10	1.74E-08	-30.15911283
chr19	5475142	5475142	-	0	0	-26.21793768
chr19	5660385	5660385	+	0.00029821	0.00322132	-35.55555556
chr19	5660417	5660417	+	3.09E-05	0.00045121	-32.59596617
chr19	5728701	5728701	-	1.01E-05	0.00016635	-33.24845886
chr19	5745516	5745516	-	0	0	-27.31660232
chr19	5745591	5745591	+	0	0	-31.34655479
chr19	5745611	5745611	+	0	0	-38.10157477
chr19	5745658	5745658	-	0	0	-54.31808189
chr19	5745667	5745667	-	0	0	-48.31656851
chr19	5745669	5745669	-	0	0	-38.45273273
chr19	5745682	5745682	-	0	0	-42.40086769
chr19	5745694	5745694	-	0	0	-31.39196663
chr19	5745698	5745698	+	0	0	-43.37110135
chr19	5745762	5745762	-	0	0	-49.69523749
chr19	5745782	5745782	-	0	0	-43.74346722
chr19	5745808	5745808	+	0	0	-43.82300764
chr19	5745809	5745809	-	0	0	-44.90149538
chr19	5745825	5745825	+	0	0	-46.8158163
chr19	5745826	5745826	-	0	0	-47.26967663
chr19	5745835	5745835	+	0	0	-38.50099847

chr19	5745836	5745836	-	0	0	-50.55632038
chr19	5745837	5745837	+	0	0	-28.12699595
chr19	5745838	5745838	-	0	0	-32.02838949
chr19	5745850	5745850	-	0	0	-37.36401076
chr19	5751035	5751035	-	0	0	-28.16591572
chr19	5751206	5751206	+	0	0	-27.58247409
chr19	5751207	5751207	-	0	0	-35.04765843
chr19	5751300	5751300	-	0	0	-30.64334766
chr19	5751332	5751332	-	0	0	-36.30738578
chr19	5756651	5756651	+	0	0	-55.5761259
chr19	5756657	5756657	+	0	0	-59.20075727
chr19	5756687	5756687	+	0	0	-54.08486892
chr19	5756688	5756688	-	0	0	-52.51849907
chr19	5756709	5756709	-	0	0	-45.23745245
chr19	5756736	5756736	+	0	0	-35.57571306
chr19	5756737	5756737	-	0	0	-37.86766655
chr19	5756760	5756760	+	0	0	-43.14557272
chr19	5756832	5756832	-	0	0	-50.49278248
chr19	5756851	5756851	-	0	0	-45.89839243
chr19	5756856	5756856	-	0	0	-52.7894559
chr19	5756863	5756863	-	0	0	-51.50552531
chr19	5756876	5756876	-	0	0	-50.78037078
chr19	5756879	5756879	-	0	0	-54.1899669
chr19	5756881	5756881	+	0	0	-41.18103546
chr19	5756882	5756882	-	0	0	-41.99226254
chr19	5756897	5756897	+	0	0	-52.92286115
chr19	5756898	5756898	-	0	0	-54.04696182
chr19	5756904	5756904	+	0	0	-56.77991607
chr19	5756905	5756905	-	0	0	-57.78944182
chr19	5756921	5756921	-	0	0	-46.88284196
chr19	5757037	5757037	-	0	0	-36.27839482
chr19	5757056	5757056	+	0	0	-59.17546506
chr19	5757057	5757057	-	0	0	-54.8582996
chr19	5757067	5757067	+	0	0	-60.78431373
chr19	5757068	5757068	-	0	0	-53.74550149
chr19	5757076	5757076	+	0	0	-56.70437406
chr19	5757077	5757077	-	0	0	-48.6069367
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chr19	5757082	5757082	-	0	0	-51.68986608
chr19	5757092	5757092	+	0	0	-47.68572289
chr19	5757093	5757093	-	0	0	-48.71667969

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chr19	5757104	5757104	-	0	0	-56.80132375
chr19	5757108	5757108	+	0	0	-48.60727317
chr19	5757109	5757109	-	0	0	-54.73539954
chr19	5757119	5757119	+	0	0	-48.73358349
chr19	5757120	5757120	-	0	0	-56.01246106
chr19	5757133	5757133	-	0	0	-48.52447454
chr19	5757141	5757141	+	0	0	-54.07249119
chr19	5757145	5757145	+	0	0	-51.24297029
chr19	5757147	5757147	+	0	0	-27.82193159
chr19	5757162	5757162	+	0	0	-49.74511017
chr19	5757173	5757173	+	0	0	-58.53971624
chr19	5757183	5757183	+	0	0	-54.78710104
chr19	5757190	5757190	+	0	0	-54.70711059
chr19	5757201	5757201	-	0	0	-25.57506608
chr19	5757248	5757248	+	0	0	-57.88220551
chr19	5757249	5757249	-	0	0	-53.36906794
chr19	5757430	5757430	-	3.18E-11	1.25E-09	-57.22559294
chr19	5757453	5757453	-	7.81E-06	0.00013257	-28.59848485
chr19	5757472	5757472	-	5.96E-06	0.00010405	-33.94230769
chr19	5810207	5810207	+	0	0	-25.46348704
chr19	5810263	5810263	-	0	0	-27.23732528
chr19	5927263	5927263	+	0	0	-26.60714734
chr19	5927264	5927264	-	0	0	-26.44203813
chr19	5927291	5927291	-	1.11E-16	7.26E-15	-25.17169069
chr19	5952260	5952260	+	0	0	-32.21281884
chr19	5952315	5952315	-	0	0	-25.67495439
chr19	6016061	6016061	-	6.99E-07	1.48E-05	-25.24455773
chr19	6016537	6016537	+	0	0	-25.11222357
chr19	6044611	6044611	+	0.0008149	0.00746276	-28.07017544
chr19	6347109	6347109	+	0	0	-27.36533954
chr19	6384528	6384528	-	0	0	-30.41387101
chr19	6385226	6385226	+	0	0	-32.75582403
chr19	6385244	6385244	+	0	0	-38.06618241
chr19	6385300	6385300	-	0	0	-27.57884615
chr19	6388099	6388099	-	0	0	-42.17893218
chr19	6415671	6415671	+	0	0	-33.00309434
chr19	6415682	6415682	+	0	0	-33.39831494
chr19	6415683	6415683	-	0	0	-31.8954972
chr19	6415722	6415722	-	0	0	-31.2175974
chr19	6420866	6420866	-	3.78E-12	1.64E-10	-25.99938761

chr19	6499581	6499581	+	1.25E-13	6.33E-12	-25.52920717
chr19	6513734	6513734	-	8.93E-14	4.57E-12	-27.048426
chr19	6685569	6685569	+	0	0	-29.73421927
chr19	6829896	6829896	+	0	0	-25.22172068
chr19	6829960	6829960	-	0	0	-38.98171644
chr19	6829968	6829968	-	0	0	-34.54729926
chr19	6829971	6829971	-	0	0	-33.92692741
chr19	6829987	6829987	-	0	0	-42.83969466
chr19	6830004	6830004	-	0	0	-30.26172301
chr19	6830007	6830007	+	0	0	-33.24736423
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chr19	6830036	6830036	+	0	0	-40.92075195
chr19	6830037	6830037	-	0	0	-40.53913439
chr19	6830043	6830043	+	0	0	-40.12845263
chr19	6830044	6830044	-	0	0	-33.14576635
chr19	6830047	6830047	+	0	0	-42.32150061
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chr19	6830050	6830050	-	0	0	-39.07162218
chr19	6830054	6830054	+	0	0	-30.54350282
chr19	6830055	6830055	-	0	0	-39.88337
chr19	6830069	6830069	+	0	0	-40.63701558
chr19	6830086	6830086	+	0	0	-41.79259259
chr19	6830197	6830197	-	0	0	-37.49382106
chr19	6830205	6830205	-	0	0	-46.48008692
chr19	6830207	6830207	-	0	0	-37.88334556
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chr19	6830237	6830237	+	0	0	-44.36929476
chr19	6830238	6830238	-	0	0	-57.25255973
chr19	6830283	6830283	+	0	0	-38.85628971
chr19	6830291	6830291	-	0	0	-33.52701813
chr19	6830301	6830301	-	0	0	-50.10559313
chr19	6830306	6830306	-	0	0	-34.20757746
chr19	6830335	6830335	+	0	0	-52.6062253
chr19	6830336	6830336	-	0	0	-48.92358791
chr19	6830340	6830340	+	0	0	-53.32463145
chr19	6830341	6830341	-	0	0	-46.81116585
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chr19	6830373	6830373	-	0	0	-36.28384687
chr19	6830375	6830375	+	0	0	-51.72953964
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chr19	6830401	6830401	+	0	0	-47.69829317
chr19	6830407	6830407	+	0	0	-48.03971311
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chr19	6830531	6830531	+	3.35E-11	1.32E-09	-35.05201266
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chr19	6856986	6856986	-	0.00067452	0.0063846	-31.20567376
chr19	6925765	6925765	+	0	0	-30.98060345
chr19	6925955	6925955	-	0.00010817	0.00134908	-33.84236453
chr19	6926173	6926173	-	0	0	-30.52818942
chr19	6926179	6926179	-	0	0	-30.93666444
chr19	6926244	6926244	+	1.50E-09	4.84E-08	-29.69924812
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chr19	6926298	6926298	-	0	0	-33.0011529
chr19	6926324	6926324	-	0	0	-29.83668708
chr19	6926326	6926326	-	0	0	-25.48668928
chr19	7065406	7065406	+	2.10E-13	1.04E-11	-26.75847359
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chr19	7070523	7070523	-	4.44E-16	2.79E-14	-52.71221532
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chr19	7070634	7070634	-	0	0	-39.06039393
chr19	7070655	7070655	-	0	0	-42.61317138
chr19	7070671	7070671	-	3.54E-14	1.88E-12	-47.41857488
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chr19	7096457	7096457	+	0	0	-54.63761657
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chr19	7135042	7135042	+	1.14E-05	0.00018599	-33.77403846
chr19	7141254	7141254	+	0	0	-32.21928531
chr19	7141281	7141281	+	1.41E-10	5.16E-09	-27.25200074
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chr19	7420432	7420432	-	5.79E-06	0.00010136	-25.33691275
chr19	7420453	7420453	-	3.30E-07	7.43E-06	-28.92281595
chr19	8679364	8679364	-	0	0	-35.38455563
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chr19	8989101	8989101	-	0	0	-32.91986858
chr19	9100832	9100832	-	0	0	-29.26263507
chr19	9107126	9107126	+	6.35E-11	2.42E-09	-25.81040481
chr19	9987338	9987338	+	1.77E-11	7.16E-10	-37.5286757
chr19	9987379	9987379	+	1.90E-07	4.46E-06	-30.41155311
chr19	10183964	10183964	-	1.60E-11	6.53E-10	-25.08838384
chr19	10184271	10184271	+	6.76E-05	0.00089799	-25.97788414
chr19	10210566	10210566	-	0.0003875	0.00401644	-27.75862069
chr19	10231378	10231378	-	1.10E-07	2.69E-06	-26.38847599
chr19	10267059	10267059	+	0	0	-30.02619605
chr19	10267213	10267213	-	0	0	-39.14795648
chr19	10277673	10277673	-	0.00059165	0.00572512	-35.36585366
chr19	10277775	10277775	-	0	0	-26.1426866
chr19	10291847	10291847	-	0	0	-30.04441558
chr19	10291868	10291868	+	0	0	-30.38277512
chr19	10345561	10345561	+	2.69E-08	7.26E-07	-26.02269983
chr19	10383793	10383793	-	1.99E-05	0.00030623	-30.27777778
chr19	10456512	10456512	-	1.49E-07	3.56E-06	-27.44637085
chr19	10474600	10474600	-	1.01E-09	3.32E-08	-25.37313433
chr19	10720326	10720326	-	5.22E-09	1.56E-07	-26.81045909
chr19	10720378	10720378	+	0	0	-29.50731741
chr19	10723190	10723190	-	0	0	-28.17877562
chr19	10723208	10723208	-	0	0	-26.67705053

chr19	10818507	10818507	+	3.66E-14	1.94E-12	-29.61248013
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chr19	10863115	10863115	+	3.44E-13	1.66E-11	-28.09303327
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chr19	14599312	14599312	-	0.00026887	0.00295078	-29.43548387
chr19	14599330	14599330	-	7.23E-06	0.00012368	-37.62295082
chr19	14599339	14599339	-	2.71E-13	1.32E-11	-68.75
chr19	14599351	14599351	-	0.00046162	0.00465212	-35.55555556
chr19	15923631	15923631	-	6.92E-07	1.47E-05	-41.33175729
chr19	16436900	16436900	-	0	0	-30.78486845
chr19	16436966	16436966	+	0	0	-30.3325605
chr19	17171051	17171051	+	9.85E-09	2.83E-07	-44.39241918
chr19	17199267	17199267	-	2.20E-13	1.08E-11	-27.07484117
chr19	20835469	20835469	-	0.00037353	0.00389589	35
chr19	21174819	21174819	-	3.58E-13	1.73E-11	-32.21767883
chr19	23136564	23136564	+	0	0	-35.39441973
chr19	23136565	23136565	-	0	0	-25.27514701
chr19	23136574	23136574	+	0	0	-34.04461014
chr19	23136610	23136610	-	0	0	-30.09944918
chr19	23136629	23136629	-	0	0	-27.44251409
chr19	23136654	23136654	-	0	0	-32.84278018
chr19	23136690	23136690	+	1.86E-08	5.14E-07	-31.86018481
chr19	23136937	23136937	-	2.09E-08	5.72E-07	-34.04028074
chr19	23153044	23153044	+	0	0	-29.42696329
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chr19	23153098	23153098	-	0	0	-25.2364968
chr19	23578600	23578600	-	3.63E-05	0.00051998	-28.73055906
chr19	23911009	23911009	-	0	0	-28.53115341
chr19	24272162	24272162	-	3.60E-05	0.00051665	-26.02636535
chr19	24301661	24301661	+	0	0	-32.60932051
chr19	24871277	24871277	+	0	0	-25.55371155
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chr19	25123165	25123165	-	0	0	-35.55581168
chr19	25123176	25123176	-	0	0	-36.08702852
chr19	26621224	26621224	-	3.05E-06	5.68E-05	-25.74561404
chr19	26749884	26749884	+	6.99E-13	3.28E-11	-25.72210815
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chr19	27147437	27147437	+	0	0	-33.4950046

chr19	27147501	27147501	-	0	0	-29.41419518
chr19	27147507	27147507	-	0	0	-34.34297761
chr19	27147535	27147535	+	0	0	-30.63601613
chr19	27147536	27147536	-	0	0	-27.33223402
chr19	27147541	27147541	+	0	0	-37.29258347
chr19	27147544	27147544	+	0	0	-31.68770405
chr19	27147604	27147604	-	0	0	-36.39005849
chr19	28967890	28967890	+	7.00E-10	2.35E-08	-25.52380952
chr19	29501171	29501171	-	3.02E-13	1.47E-11	-32.63305322
chr19	30029853	30029853	+	0	0	-38.94182103
chr19	30029995	30029995	-	0	0	-35.19325159
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chr19	30491243	30491243	-	0	0	-26.67143581
chr19	30491255	30491255	-	0	0	-27.51117512
chr19	32344583	32344583	-	5.87E-14	3.06E-12	-39.12986157
chr19	32344612	32344612	-	8.88E-16	5.45E-14	-30.05140109
chr19	32373998	32373998	+	0	0	-27.69739589
chr19	32755282	32755282	+	2.97E-08	7.96E-07	-39.94272623
chr19	34923223	34923223	-	0.00049338	0.00491933	-26.2380301
chr19	37520875	37520875	+	4.07E-13	1.95E-11	-25.90918819
chr19	37521028	37521028	-	6.55E-07	1.40E-05	-26.8550351
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chr19	37687530	37687530	+	0	0	-35.75573181
chr19	37687571	37687571	-	0	0	-29.85266709
chr19	37687617	37687617	+	0	0	-30.62797443
chr19	37687618	37687618	-	0	0	-38.56315086
chr19	37687632	37687632	+	0	0	-43.11653661
chr19	37687688	37687688	-	0	0	-31.35620839
chr19	37687693	37687693	-	0	0	-27.19303133
chr19	37687703	37687703	-	0	0	-30.64387643
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chr19	37687735	37687735	+	0	0	-30.47482701
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chr19	37687774	37687774	-	0	0	-27.47057788
chr19	37687776	37687776	-	0	0	-27.15414944
chr19	37687796	37687796	+	0	0	-27.51966568
chr19	37687797	37687797	-	0	0	-32.07300872
chr19	37690903	37690903	+	0	0	-40.78567492
chr19	37690929	37690929	+	0	0	-37.93229304



chr19	37690940	37690940	+	0	0	-32.00312249
chr19	37690941	37690941	-	0	0	-39.51204203
chr19	37690949	37690949	+	0	0	-30.94983538
chr19	37690950	37690950	-	0	0	-35.79529475
chr19	37690969	37690969	-	0	0	-32.41849685
chr19	37690979	37690979	-	0	0	-48.93138756
chr19	37690982	37690982	-	0	0	-39.33990456
chr19	37695303	37695303	+	0	0	-33.39654446
chr19	37695511	37695511	-	5.62E-13	2.66E-11	-44.07137578
chr19	37695549	37695549	-	4.08E-12	1.77E-10	-42.03791912
chr19	37695824	37695824	+	0	0	-30.29297157
chr19	37702953	37702953	-	9.44E-08	2.33E-06	-29.42340305
chr19	37778221	37778221	-	0.00059569	0.00575755	-29.39814815
chr19	37877722	37877722	+	1.11E-16	7.26E-15	-34.69793323
chr19	37877740	37877740	+	0	0	-36.76678218
chr19	37877884	37877884	-	7.08E-11	2.68E-09	-34.81784562
chr19	37877893	37877893	-	2.75E-08	7.39E-07	-28.42833996
chr19	37877971	37877971	+	0	0	-30.48058712
chr19	37877972	37877972	-	0	0	-37.21224419
chr19	37878004	37878004	-	0	0	-37.05031208
chr19	37878020	37878020	-	0	0	-30.48240503
chr19	37918544	37918544	+	0	0	-49.68333908
chr19	37918571	37918571	+	2.44E-15	1.44E-13	-30.1933874
chr19	37918755	37918755	+	0	0	-55.89333077
chr19	37918756	37918756	-	0	0	-48.25565733
chr19	37918761	37918761	+	0	0	-39.57057823
chr19	37918769	37918769	+	0	0	-49.14010633
chr19	37918791	37918791	+	0	0	-50.66799517
chr19	37918889	37918889	-	0	0	-37.54425108
chr19	37965854	37965854	+	0	0	-25.68472468
chr19	40253757	40253757	-	0	0	-31.67718455
chr19	40253805	40253805	+	0	0	-29.72395525
chr19	40253806	40253806	-	0	0	-28.1819556
chr19	40253836	40253836	+	0	0	-38.33205625
chr19	40253858	40253858	-	0	0	-34.20120398
chr19	40253903	40253903	-	0	0	-35.75601763
chr19	40490059	40490059	+	3.67E-06	6.73E-05	-48.04804805
chr19	40490295	40490295	+	0	0	-25.08027049
chr19	40490407	40490407	-	0	0	-25.31501682
chr19	40490439	40490439	+	2.24E-13	1.10E-11	-30.35028249
chr19	40490440	40490440	-	0	0	-32.24275724

chr19	40554697	40554697	-	0	0	-40.89098824
chr19	40554704	40554704	-	0	0	-38.372417
chr19	40554708	40554708	-	0	0	-46.37411965
chr19	40749041	40749041	+	0	0	-25.12277087
chr19	40749066	40749066	-	0	0	-28.00852658
chr19	40830239	40830239	-	0.00014979	0.00178796	-26.86515292
chr19	40873157	40873157	+	0	0	-27.17550468
chr19	40873162	40873162	+	0	0	-35.99787501
chr19	40873181	40873181	+	0	0	-39.15823967
chr19	40873187	40873187	+	0	0	-26.56014723
chr19	40873192	40873192	+	0	0	-40.75443464
chr19	40873201	40873201	+	0	0	-45.65199339
chr19	40873282	40873282	-	0	0	-30.00488294
chr19	40873357	40873357	+	0	0	-25.05448268
chr19	40936062	40936062	+	0	0	-27.06048137
chr19	40936209	40936209	-	0	0	-30.21549333
chr19	40959461	40959461	+	0	0	-27.55888819
chr19	40959462	40959462	-	5.34E-13	2.53E-11	-27.33850129
chr19	40996013	40996013	-	1.28E-05	0.00020572	-32.05128205
chr19	41389519	41389519	+	0	0	-25.34804979
chr19	41441882	41441882	-	7.10E-10	2.38E-08	-25.77294353
chr19	41896616	41896616	-	0	0	-25.56064073
chr19	42034677	42034677	-	4.06E-14	2.15E-12	-39.2907233
chr19	42034688	42034688	-	7.32E-07	1.55E-05	-26.67112299
chr19	42130445	42130445	+	2.15E-05	0.00032805	-25.92706476
chr19	42130446	42130446	-	0	0	-26.2840595
chr19	42167847	42167847	-	0.00079687	0.00732641	-34.77011494
chr19	42742007	42742007	-	0	0	-31.29551327
chr19	42752227	42752227	+	0	0	-26.57616612
chr19	42752279	42752279	-	0	0	-27.28260792
chr19	42752448	42752448	-	2.00E-15	1.19E-13	-34.54088953
chr19	43017897	43017897	+	0	0	-30.98424565
chr19	43017898	43017898	-	0	0	-29.99259259
chr19	43017916	43017916	-	0	0	-33.78518519
chr19	43441943	43441943	-	0	0	-31.64845173
chr19	43544567	43544567	+	0.00072163	0.00674857	27.41545894
chr19	43546422	43546422	-	0	0	-29.13220941
chr19	43547044	43547044	+	0	0	-39.80653283
chr19	43547045	43547045	-	4.19E-10	1.45E-08	-44.06015038
chr19	43547084	43547084	-	2.97E-11	1.18E-09	-25.85697076
chr19	43564198	43564198	+	3.33E-07	7.49E-06	-27.90598291

chr19	43584366	43584366	-	2.62E-12	1.16E-10	-29.43548387
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chr19	43619077	43619077	-	4.30E-08	1.12E-06	-30.99947118
chr19	43619086	43619086	-	8.34E-07	1.74E-05	-28.02648172
chr19	43619363	43619363	+	0	0	-31.43233121
chr19	43619423	43619423	+	0	0	-31.29643495
chr19	43619436	43619436	+	0	0	-32.48115037
chr19	43619580	43619580	+	1.38E-06	2.77E-05	-52.99145299
chr19	43619595	43619595	+	2.51E-06	4.76E-05	-48.28017511
chr19	43619629	43619629	+	3.77E-05	0.00053753	-34.86842105
chr19	43620085	43620085	+	0	0	-25.4651571
chr19	43620086	43620086	-	0	0	-43.2185204
chr19	43878833	43878833	+	0	0	-34.73082596
chr19	43878834	43878834	-	9.52E-13	4.40E-11	-32.31556503
chr19	43879064	43879064	-	2.65E-13	1.30E-11	-31.06663451
chr19	43920618	43920618	+	0	0	-33.68944174
chr19	43920711	43920711	-	0	0	-32.89312169
chr19	43920729	43920729	+	0	0	-56.67565139
chr19	43920754	43920754	+	0	0	-47.41071429
chr19	43920762	43920762	+	1.20E-14	6.65E-13	-43.73557758
chr19	44301245	44301245	+	0.00013492	0.00163331	-29.68536252
chr19	44301256	44301256	+	5.02E-09	1.50E-07	-46.47742818
chr19	44755406	44755406	+	0.00017081	0.00200174	26.41509434
chr19	44825185	44825185	+	2.26E-11	9.03E-10	-30.40123457
chr19	44825323	44825323	-	4.88E-15	2.82E-13	-25.90528808
chr19	44914751	44914751	-	3.68E-06	6.73E-05	-29.03318903
chr19	44929896	44929896	+	4.36E-11	1.69E-09	-25.24954628
chr19	45023620	45023620	-	0	0	-28.97849727
chr19	45040152	45040152	-	2.50E-10	8.89E-09	-26.38888889
chr19	45045447	45045447	+	0	0	-31.0527276
chr19	45045468	45045468	+	1.83E-13	9.09E-12	-26.08331022
chr19	45045637	45045637	-	1.23E-09	4.00E-08	-27.95556579
chr19	45065621	45065621	-	1.05E-05	0.00017351	-32.77596026
chr19	45065623	45065623	+	5.48E-07	1.18E-05	-34.08258408
chr19	45065624	45065624	-	1.30E-06	2.62E-05	-35.81780538
chr19	45067446	45067446	-	3.23E-07	7.28E-06	-27.3237054
chr19	45078339	45078339	+	0	0	-25.21524072
chr19	45078428	45078428	+	2.64E-09	8.23E-08	-38.95592021
chr19	45078643	45078643	-	7.46E-09	2.18E-07	-26.28324057
chr19	45078655	45078655	-	2.28E-09	7.15E-08	-27.2556391
chr19	45208831	45208831	-	1.11E-16	7.26E-15	-39.83901515

chr19	45208839	45208839	+	5.49E-12	2.35E-10	-33.10861423
chr19	45208845	45208845	+	2.26E-09	7.09E-08	-29.585295
chr19	45208861	45208861	+	0	0	-28.67163581
chr19	45208907	45208907	+	0	0	-36.40945229
chr19	45208908	45208908	-	0	0	-34.62831286
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chr19	45208910	45208910	-	0	0	-32.29964144
chr19	45270636	45270636	-	0	0	-27.14555697
chr19	45270670	45270670	+	5.56E-07	1.20E-05	-25.27472527
chr19	45329801	45329801	-	0.00015896	0.00188183	-30.07207207
chr19	45534587	45534587	-	0	0	-26.20052176
chr19	45695953	45695953	+	0.00022212	0.00250556	-25.25311526
chr19	45717594	45717594	+	0	0	-25.63170007
chr19	45741040	45741040	+	4.69E-05	0.00065256	-31.76906453
chr19	45741231	45741231	+	1.99E-05	0.00030623	-34.12698413
chr19	45741232	45741232	-	0	0	-37.12662473
chr19	45743379	45743379	-	0	0	-51.38127854
chr19	45743381	45743381	-	0	0	-47.44376859
chr19	45743431	45743431	+	0	0	-44.92753623
chr19	45743432	45743432	-	0	0	-37.98839458
chr19	45743443	45743443	+	0	0	-32.62844138
chr19	45743444	45743444	-	0	0	-30.98432293
chr19	45744032	45744032	+	0	0	-26.27031195
chr19	45795943	45795943	-	2.34E-06	4.48E-05	-28.29460688
chr19	45811275	45811275	+	4.42E-12	1.91E-10	-25.11761156
chr19	45816565	45816565	+	1.12E-13	5.70E-12	-43.34625323
chr19	45816758	45816758	+	0	0	-26.32518539
chr19	45854860	45854860	+	0	0	-25.68058138
chr19	45854876	45854876	+	0	0	-25.42743525
chr19	46316023	46316023	+	0	0	-40.34848485
chr19	46455862	46455862	+	0	0	-28.15943581
chr19	46455874	46455874	+	0	0	-29.13177863
chr19	46455890	46455890	+	0	0	-30.3929086
chr19	46470666	46470666	-	0	0	-25.55780933
chr19	46478804	46478804	-	1.67E-08	4.64E-07	-28.58607409
chr19	46507480	46507480	-	0	0	-32.94645941
chr19	46519100	46519100	-	3.75E-07	8.36E-06	-27.5862069
chr19	46530682	46530682	-	0.00026689	0.00293217	-30.26737968
chr19	46531306	46531306	+	0	0	-43.29889825
chr19	46531307	46531307	-	9.17E-08	2.27E-06	-50.79946702
chr19	46531315	46531315	+	0	0	-37.07072969

chr19	46531325	46531325	+	0	0	-28.2413152
chr19	46531335	46531335	+	0	0	-37.32830788
chr19	46531353	46531353	+	0	0	-43.59452142
chr19	46531461	46531461	+	0	0	-27.26970723
chr19	46531462	46531462	-	0	0	-40.93999908
chr19	46531507	46531507	-	0	0	-26.18136978
chr19	46607050	46607050	-	1.28E-11	5.27E-10	-37.42939799
chr19	46618994	46618994	+	0	0	-32.84868944
chr19	46619097	46619097	-	0	0	-31.06860144
chr19	46619114	46619114	-	0	0	-38.4852865
chr19	46619125	46619125	-	0	0	-37.20270418
chr19	46619146	46619146	-	0	0	-30.5684323
chr19	46620299	46620299	+	0	0	-27.98106149
chr19	46622938	46622938	+	4.52E-07	9.91E-06	-30.47743623
chr19	46622939	46622939	-	0	0	-31.63973586
chr19	46622943	46622943	-	0	0	-38.8525334
chr19	46623080	46623080	-	6.53E-10	2.20E-08	-28.73315364
chr19	46671056	46671056	+	0	0	-27.90516242
chr19	46794368	46794368	+	0	0	-25.66869501
chr19	46794369	46794369	-	0	0	-27.4203549
chr19	46856697	46856697	-	0	0	-27.37046327
chr19	46868952	46868952	-	9.94E-08	2.44E-06	-30.83461391
chr19	46990121	46990121	-	1.19E-07	2.89E-06	-37.58944544
chr19	47180022	47180022	-	0	0	-30.26443585
chr19	47202125	47202125	+	2.93E-12	1.29E-10	-29.19351205
chr19	47240025	47240025	+	0	0	-25.63734336
chr19	47240056	47240056	-	0	0	-27.84696232
chr19	47240563	47240563	+	0	0	-33.81250936
chr19	47240606	47240606	-	0	0	-36.95051761
chr19	47328265	47328265	-	2.80E-07	6.39E-06	-42.35416667
chr19	47387542	47387542	+	0	0	-47.79477625
chr19	47413057	47413057	+	0	0	-33.92014288
chr19	47413058	47413058	-	0	0	-27.07466076
chr19	47413078	47413078	-	0	0	-28.88875784
chr19	47413101	47413101	-	0	0	-32.38484041
chr19	47443921	47443921	+	1.31E-14	7.25E-13	-25.60149102
chr19	47444738	47444738	-	0	0	-30.12930722
chr19	47460678	47460678	-	0	0	-36.20708388
chr19	47460870	47460870	-	0	0	-31.7867909
chr19	47782850	47782850	-	0.00044635	0.00452241	-28.336714
chr19	47836807	47836807	+	0	0	-29.45326279

chr19	47836842	47836842	+	0	0	-28.9112488
chr19	47854262	47854262	+	1.54E-06	3.05E-05	-29.19363538
chr19	52922926	52922926	+	0.0003308	0.00351576	29.75806452
chr19	53087560	53087560	-	0	0	-27.09068347
chr19	53170762	53170762	+	6.41E-11	2.44E-09	-29.58440297
chr19	53216956	53216956	+	0	0	-32.21512247
chr19	53217139	53217139	-	7.35E-10	2.46E-08	-48.03212851
chr19	53217147	53217147	-	2.50E-12	1.11E-10	-54.0562249
chr19	53217155	53217155	-	4.51E-06	8.09E-05	-31.9200854
chr19	53251265	53251265	-	2.53E-05	0.00037853	-31.33333333
chr19	53251275	53251275	-	0.00100706	0.00888208	-25.92465753
chr19	53321481	53321481	+	0	0	-25.74269191
chr19	53437492	53437492	+	4.50E-14	2.37E-12	-29.38100902
chr19	53437541	53437541	-	0	0	-26.57479111
chr19	53437562	53437562	+	8.55E-15	4.81E-13	-25.32184778
chr19	53437563	53437563	-	0	0	-29.34949526
chr19	53437964	53437964	+	1.63E-08	4.54E-07	-26.5411466
chr19	53437972	53437972	-	0	0	-34.40963855
chr19	53437997	53437997	-	0	0	-33.1205799
chr19	53438002	53438002	-	0	0	-36.56136789
chr19	53438019	53438019	-	0	0	-31.0380689
chr19	53538705	53538705	-	0.00030975	0.0033263	-26.45021645
chr19	53557147	53557147	+	4.44E-16	2.79E-14	-35.12544803
chr19	53671000	53671000	-	0.00070912	0.00665178	-39.96723997
chr19	53808220	53808220	-	4.13E-07	9.11E-06	-34.69387755
chr19	53830798	53830798	-	5.22E-15	3.00E-13	-25.06504371
chr19	54114651	54114651	+	0	0	-35.61711322
chr19	54114797	54114797	-	1.11E-16	7.26E-15	-26.32146335
chr19	54778240	54778240	+	4.08E-05	0.00057728	-28.02839684
chr19	55225447	55225447	+	0.00076035	0.0070493	29.43589744
chr19	55456421	55456421	+	7.55E-07	1.59E-05	-28.95271643
chr19	55456518	55456518	-	0	0	-31.3026863
chr19	55667883	55667883	+	2.74E-07	6.26E-06	-33.18114875
chr19	55694393	55694393	+	0	0	-31.99751861
chr19	55694394	55694394	-	0	0	-27.66796941
chr19	55756918	55756918	-	7.58E-06	0.00012905	-25.75575221
chr19	55807304	55807304	-	0	0	-40.33276086
chr19	55896677	55896677	+	0	0	-34.88922559
chr19	55896687	55896687	+	0	0	-25.98619802
chr19	55896795	55896795	-	0	0	-32.86984378
chr19	56029960	56029960	-	0	0	-35.4367302

chr19	56069559	56069559	+	0	0	-28.0199586
chr19	56320722	56320722	+	0	0	-29.8467804
chr19	56344506	56344506	+	0	0	-45.5117307
chr19	56356914	56356914	-	1.79E-06	3.51E-05	-26.23032312
chr19	56752718	56752718	+	0	0	-28.60031801
chr19	56752764	56752764	-	7.77E-16	4.79E-14	-26.12890629
chr19	57098384	57098384	-	0.00011595	0.00143192	-25.13673319
chr19	57123370	57123370	-	0	0	-47.73720517
chr19	57123405	57123405	-	0	0	-28.19432073
chr19	57330430	57330430	-	6.86E-08	1.73E-06	-26.0318492
chr19	57356027	57356027	-	2.99E-06	5.58E-05	-25.26483051
chr19	57404539	57404539	-	0	0	-38.36423355
chr19	57404552	57404552	-	0	0	-29.82010374
chr19	58061024	58061024	+	0	0	-33.80328457
chr19	58061114	58061114	-	0	0	-28.3383476
chr19	58061127	58061127	-	0	0	-32.12158065
chr19	58246163	58246163	-	0	0	-25.54073978
chr19	58310344	58310344	+	8.34E-07	1.74E-05	-26.37144493
chr19	58930882	58930882	-	0	0	-25.37666788
chr19	58930914	58930914	-	0	0	-27.68055931
chr19	59057872	59057872	+	0	0	-26.36601076
chr19	59057873	59057873	-	0	0	-27.65209654
chr19	59167944	59167944	-	0	0	-33.18304066
chr19	59171450	59171450	-	6.59E-10	2.22E-08	-27.80966045
chr19	61225332	61225332	+	0	0	-25.54887154
chr19	61225393	61225393	-	0	0	-26.97036649
chr19	61225460	61225460	+	0	0	-26.89686063
chr19	61225461	61225461	-	0	0	-26.49012699
chr19	61225535	61225535	+	6.28E-11	2.39E-09	-25.41654301
chr19	61225696	61225696	+	0	0	-33.02697825
chr2	3188982	3188982	-	1.63E-07	3.88E-06	-25.78156957
chr2	4298656	4298656	+	0	0	-27.38267729
chr2	4298738	4298738	-	0	0	-34.37215848
chr2	4392038	4392038	-	0	0	-26.26193465
chr2	4761193	4761193	-	1.11E-16	7.26E-15	-25.121741
chr2	4919698	4919698	+	2.50E-06	4.74E-05	-25.60660816
chr2	5062830	5062830	-	0	0	-25.42483287
chr2	6278728	6278728	-	6.81E-10	2.29E-08	-28.52564103
chr2	6278770	6278770	-	5.55E-16	3.46E-14	-44.74837662
chr2	6428857	6428857	+	1.31E-06	2.64E-05	-25.79657966
chr2	6472164	6472164	+	2.06E-12	9.20E-11	-26.58738158

chr2	6532826	6532826	-	7.89E-05	0.00102714	-29.32692308
chr2	6547304	6547304	+	9.22E-13	4.27E-11	-35.39490783
chr2	6547336	6547336	-	1.70E-09	5.45E-08	-27.42268041
chr2	7080808	7080808	-	5.24E-12	2.25E-10	-32.37075644
chr2	7081263	7081263	+	1.24E-13	6.26E-12	-25.92125475
chr2	7089410	7089410	-	3.07E-05	0.00044918	-36.17951669
chr2	9633180	9633180	-	2.51E-06	4.76E-05	-41.86046512
chr2	9867226	9867226	+	6.40E-12	2.72E-10	-37.37668981
chr2	9867257	9867257	+	2.17E-08	5.94E-07	-31.90490766
chr2	9881361	9881361	+	0	0	-33.60188526
chr2	9881362	9881362	-	0	0	-30.55925064
chr2	9884587	9884587	-	6.50E-08	1.65E-06	-28.86671418
chr2	9884619	9884619	+	5.22E-05	0.00071638	-27.27272727
chr2	9884632	9884632	+	1.16E-05	0.00018943	-44.76190476
chr2	9885269	9885269	+	1.11E-16	7.26E-15	-27.18996508
chr2	9885307	9885307	-	2.22E-16	1.43E-14	-26.77419355
chr2	9885344	9885344	+	3.82E-09	1.16E-07	-26.8722467
chr2	9885374	9885374	+	4.44E-16	2.79E-14	-37.17772693
chr2	9885480	9885480	-	0	0	-26.09295751
chr2	10300900	10300900	+	1.39E-08	3.92E-07	-39.94288046
chr2	10300917	10300917	+	9.01E-05	0.00115149	-27.40471869
chr2	10300929	10300929	+	3.81E-06	6.95E-05	-32.1013289
chr2	12189148	12189148	+	1.53E-07	3.64E-06	-26
chr2	12316397	12316397	+	0.00038236	0.00397212	-29.18181818
chr2	13009059	13009059	+	0	0	-26.94771634
chr2	13009539	13009539	+	0.00024477	0.00272264	-29.87711214
chr2	13792783	13792783	+	3.77E-09	1.15E-07	-28.92107892
chr2	17524205	17524205	-	8.24E-06	0.00013899	-27.86304604
chr2	18032163	18032163	-	0	0	-25.65212677
chr2	18039661	18039661	+	0	0	-44.25894252
chr2	18039696	18039696	+	0	0	-45.12051926
chr2	18039713	18039713	+	0	0	-44.8129938
chr2	18039714	18039714	-	0	0	-34.46784098
chr2	18039730	18039730	+	0	0	-49.29870371
chr2	18039731	18039731	-	0	0	-42.96776047
chr2	18039735	18039735	+	0	0	-30.89992534
chr2	18039736	18039736	-	0	0	-28.43283011
chr2	18039740	18039740	+	0	0	-48.1436736
chr2	18039741	18039741	-	0	0	-51.31186976
chr2	18039746	18039746	-	0	0	-42.50271018
chr2	18039748	18039748	+	0	0	-42.22691208



chr2	18039749	18039749	-	0	0	-41.01238938
chr2	18039752	18039752	+	0	0	-46.86491764
chr2	18039753	18039753	-	0	0	-48.93311222
chr2	18039754	18039754	+	0	0	-42.09567758
chr2	18039755	18039755	-	0	0	-43.04511708
chr2	18039761	18039761	+	0	0	-44.16776614
chr2	18039762	18039762	-	0	0	-40.21073045
chr2	18039763	18039763	+	0	0	-49.66696922
chr2	18039764	18039764	-	0	0	-45.83832802
chr2	18039790	18039790	+	0	0	-47.95500623
chr2	18039791	18039791	-	0	0	-43.19935794
chr2	18039810	18039810	+	0	0	-46.22226743
chr2	18039811	18039811	-	0	0	-53.19203269
chr2	18039825	18039825	+	0	0	-35.86368114
chr2	18039826	18039826	-	0	0	-39.32533803
chr2	18039829	18039829	+	0	0	-30.7079646
chr2	18039830	18039830	-	0	0	-36.53494746
chr2	18039834	18039834	-	0	0	-46.95094937
chr2	18039850	18039850	+	0	0	-38.71528959
chr2	18039854	18039854	+	0	0	-39.94152047
chr2	18039855	18039855	-	0	0	-47.15617716
chr2	18039859	18039859	+	0	0	-45.05627053
chr2	18039860	18039860	-	0	0	-57.00319098
chr2	18039861	18039861	+	0	0	-47.68444385
chr2	18039862	18039862	-	2.84E-08	7.64E-07	-29.13000091
chr2	18039871	18039871	+	0	0	-42.23843101
chr2	18039872	18039872	-	0	0	-49.00244798
chr2	18039902	18039902	+	0	0	-46.32362147
chr2	18039903	18039903	-	0	0	-46.98390805
chr2	18039908	18039908	+	0	0	-45.07674376
chr2	18039920	18039920	+	0	0	-28.76411074
chr2	18039921	18039921	-	0	0	-30.91662898
chr2	18039945	18039945	+	0	0	-40.88403503
chr2	18039946	18039946	-	0	0	-45.4442383
chr2	18039954	18039954	-	0	0	-34.8050882
chr2	18041287	18041287	+	0	0	-34.55121395
chr2	18041350	18041350	+	0	0	-29.2939335
chr2	18041351	18041351	-	0	0	-29.16650755
chr2	18051727	18051727	-	0	0	-25.59870615
chr2	18051737	18051737	+	0	0	-31.16257852
chr2	18051765	18051765	+	0	0	-25.41353383

chr2	18940640	18940640	+	2.25E-06	4.32E-05	-29.22885572
chr2	20249694	20249694	-	0.00073645	0.00686311	28.05241215
chr2	20521477	20521477	-	4.39E-12	1.90E-10	-25.18151815
chr2	24368078	24368078	-	5.35E-05	0.00073195	-43.78378378
chr2	24405381	24405381	+	0	0	-34.6513206
chr2	24405401	24405401	+	0	0	-37.2309607
chr2	24405402	24405402	-	0	0	-26.43587226
chr2	24405409	24405409	+	0	0	-41.81887367
chr2	24405410	24405410	-	0	0	-32.63943307
chr2	24405436	24405436	-	0	0	-25.15704706
chr2	24776465	24776465	+	0	0	-33.2397165
chr2	25095020	25095020	-	0	0	-25.82371378
chr2	25095487	25095487	+	0	0	-30.40229707
chr2	25095593	25095593	-	0	0	-26.15961222
chr2	25095606	25095606	-	0	0	-36.2496943
chr2	25095624	25095624	-	0	0	-35.96835607
chr2	25095660	25095660	+	8.88E-16	5.45E-14	-27.92629448
chr2	25095661	25095661	-	0	0	-28.66041344
chr2	25095695	25095695	-	1.44E-12	6.56E-11	-27.97356828
chr2	25168792	25168792	-	1.00E-10	3.72E-09	-38.0625
chr2	25243156	25243156	+	0	0	-25.17510034
chr2	25243157	25243157	-	2.83E-09	8.77E-08	-29.8282519
chr2	25243185	25243185	+	0	0	-32.99696719
chr2	25243271	25243271	-	0	0	-30.71618361
chr2	25366308	25366308	-	0	0	-31.51898768
chr2	25536678	25536678	+	1.46E-06	2.90E-05	-37.63581052
chr2	25552642	25552642	-	0.00036333	0.00380521	-36.36363636
chr2	25552669	25552669	-	0.00068072	0.00643254	-34.38891638
chr2	25552704	25552704	+	3.59E-06	6.58E-05	-27.86666667
chr2	25577221	25577221	-	0	0	-34.00123507
chr2	25577371	25577371	-	0	0	-34.59093785
chr2	26061221	26061221	+	0.00028185	0.00307186	-29.60199005
chr2	26061225	26061225	+	0.00066768	0.00633025	-27.08481825
chr2	26122088	26122088	+	0	0	-46.29580989
chr2	26122250	26122250	+	0	0	-31.80929095
chr2	26122272	26122272	+	0	0	-38.70722677
chr2	26167977	26167977	+	0.00048189	0.00482361	-44.20062696
chr2	26316326	26316326	-	0.00012343	0.00151191	-37.41562199
chr2	26494000	26494000	-	0	0	-32.91758376
chr2	26549988	26549988	+	0	0	-25.03163595
chr2	26549991	26549991	+	0	0	-31.7556972

chr2	26550026	26550026	+	0	0	-26.18734207
chr2	26576111	26576111	-	0	0	-28.98495786
chr2	26576145	26576145	-	0	0	-28.05074924
chr2	26585589	26585589	+	0	0	-29.45173294
chr2	26585603	26585603	+	0	0	-50.42833267
chr2	26585663	26585663	-	0	0	-52.05554387
chr2	26585667	26585667	-	0	0	-53.78863985
chr2	26662414	26662414	+	6.46E-06	0.00011174	-33.57712766
chr2	27096411	27096411	+	0	0	-26.51086816
chr2	27192238	27192238	-	1.46E-07	3.49E-06	-61.47978642
chr2	27210381	27210381	+	0	0	-32.11705064
chr2	27210406	27210406	+	0	0	-30.28375986
chr2	27324768	27324768	-	1.27E-07	3.07E-06	-28.14965066
chr2	27425364	27425364	+	0	0	-30.9854751
chr2	27425365	27425365	-	0	0	-26.87184343
chr2	27473941	27473941	+	0	0	-27.58668699
chr2	27505730	27505730	+	0	0	-29.08226473
chr2	27650352	27650352	-	0	0	-29.9513623
chr2	27739888	27739888	+	1.45E-12	6.58E-11	-32.52168884
chr2	27739903	27739903	+	1.60E-11	6.52E-10	-30.96615951
chr2	27739907	27739907	+	0	0	-42.88818988
chr2	27739918	27739918	+	0	0	-40.21814007
chr2	27759487	27759487	+	1.75E-05	0.00027294	-25.10067114
chr2	27762819	27762819	+	0	0	-29.38113413
chr2	27955166	27955166	-	1.04E-10	3.86E-09	-28.52313457
chr2	28532659	28532659	-	0	0	-25.84271068
chr2	28536627	28536627	+	1.11E-16	7.26E-15	-28.31196581
chr2	28598643	28598643	+	0.00018697	0.00216346	-30.96761295
chr2	28751139	28751139	+	0	0	-31.59092584
chr2	29041234	29041234	+	0	0	-30.75301782
chr2	29041263	29041263	+	0	0	-34.10449238
chr2	29195636	29195636	-	0	0	-27.57417103
chr2	29206256	29206256	+	0	0	-25.03684041
chr2	29206355	29206355	-	0	0	-27.30408314
chr2	29206374	29206374	-	0	0	-30.32819685
chr2	29250163	29250163	+	4.84E-11	1.87E-09	-27.84389928
chr2	29250173	29250173	+	2.91E-14	1.56E-12	-34.89546629
chr2	29678002	29678002	+	0	0	-39.33720346
chr2	29678007	29678007	+	0	0	-44.15082117
chr2	29678008	29678008	-	0	0	-30.1180891
chr2	29678043	29678043	-	0	0	-26.00546862

chr2	29845125	29845125	+	3.09E-11	1.22E-09	-44.39935065
chr2	29845347	29845347	+	0.00011369	0.00140785	-28.55902778
chr2	29845355	29845355	+	4.66E-08	1.21E-06	-40.13221154
chr2	29845366	29845366	+	2.91E-05	0.00042766	-31.35289907
chr2	29845367	29845367	-	0.00058028	0.00563407	-30.51948052
chr2	29845373	29845373	+	0	0	-27.1209603
chr2	29845379	29845379	+	0	0	-29.60876683
chr2	29845398	29845398	+	0	0	-29.11706047
chr2	29845399	29845399	-	0	0	-26.5735048
chr2	29845407	29845407	+	0	0	-31.5137468
chr2	29845441	29845441	-	0	0	-29.55336613
chr2	29845461	29845461	+	0	0	-26.02357217
chr2	29845466	29845466	+	0	0	-27.85596863
chr2	29845475	29845475	+	0	0	-28.54968749
chr2	29845515	29845515	-	0	0	-26.50739628
chr2	29845572	29845572	-	0	0	-31.28198049
chr2	29845586	29845586	+	0	0	-26.58761528
chr2	29845609	29845609	+	0	0	-29.95028511
chr2	29845610	29845610	-	0	0	-29.80065186
chr2	29845618	29845618	+	0	0	-33.9702075
chr2	29845619	29845619	-	0	0	-29.97195482
chr2	29845667	29845667	+	0	0	-28.60135298
chr2	29845683	29845683	+	0	0	-28.63962519
chr2	29845697	29845697	-	0	0	-25.76414011
chr2	29845715	29845715	-	0	0	-26.89876835
chr2	29845737	29845737	+	0	0	-29.07155399
chr2	29845787	29845787	+	0	0	-29.39624329
chr2	29845822	29845822	-	0	0	-32.4056353
chr2	29845829	29845829	-	0	0	-28.1047343
chr2	29845841	29845841	-	0	0	-29.25559061
chr2	29845896	29845896	+	1.28E-13	6.43E-12	-25.75639544
chr2	29846022	29846022	-	0	0	-39.35891173
chr2	29846048	29846048	-	0	0	-34.47890819
chr2	29846138	29846138	-	0	0	-28.88094751
chr2	29846142	29846142	-	0	0	-30.5231163
chr2	29846155	29846155	+	0	0	-35.24926494
chr2	29846183	29846183	+	0	0	-36.23490894
chr2	29846184	29846184	-	0	0	-36.26603216
chr2	29846206	29846206	-	0	0	-38.79420497
chr2	29846216	29846216	-	0	0	-30.67962205
chr2	29846269	29846269	+	0	0	-38.39552284

chr2	29846277	29846277	+	0	0	-33.14047422
chr2	29846278	29846278	-	0	0	-29.77348794
chr2	29846282	29846282	+	0	0	-29.64525643
chr2	29846283	29846283	-	0	0	-29.58721317
chr2	29846300	29846300	+	0	0	-29.70153571
chr2	29846301	29846301	-	0	0	-25.20034476
chr2	29846304	29846304	+	0	0	-33.60771862
chr2	29846305	29846305	-	0	0	-33.5522735
chr2	29846314	29846314	-	0	0	-32.09999065
chr2	29846324	29846324	+	8.28E-10	2.76E-08	-26.10789981
chr2	29846345	29846345	+	5.08E-11	1.96E-09	-28.0347333
chr2	29846358	29846358	+	1.31E-11	5.37E-10	-29.36381357
chr2	29846367	29846367	+	0	0	-42.0890937
chr2	29846369	29846369	+	5.58E-10	1.90E-08	-31.53704838
chr2	30406612	30406612	-	0	0	-26.23767613
chr2	30534859	30534859	-	6.23E-11	2.37E-09	-30.49613281
chr2	30567752	30567752	+	0	0	-28.64013615
chr2	30606936	30606936	+	0	0	-32.47580777
chr2	30606937	30606937	-	0	0	-31.36447129
chr2	30606951	30606951	+	0	0	-26.1053757
chr2	30606952	30606952	-	0	0	-27.78992603
chr2	30606966	30606966	+	0	0	-33.90763281
chr2	30613728	30613728	+	0	0	-35.81625442
chr2	30613831	30613831	-	0	0	-40.72351421
chr2	30613842	30613842	-	0	0	-27.61369904
chr2	30613848	30613848	-	0	0	-26.76760113
chr2	30626124	30626124	-	1.63E-06	3.22E-05	-29.41328509
chr2	30642874	30642874	+	0	0	-28.55935997
chr2	30642875	30642875	-	0	0	-37.29102113
chr2	30652625	30652625	+	1.43E-14	7.90E-13	-29.13907285
chr2	30652644	30652644	+	0	0	-37.78562421
chr2	30652669	30652669	+	4.33E-15	2.51E-13	-32.41025641
chr2	30652778	30652778	-	0	0	-27.65495208
chr2	30687413	30687413	-	1.24E-14	6.89E-13	-25.46165884
chr2	30687448	30687448	-	1.57E-14	8.60E-13	-26.22399685
chr2	30722238	30722238	+	0	0	-33.16824139
chr2	30722239	30722239	-	0	0	-41.8254733
chr2	30726108	30726108	-	3.11E-15	1.82E-13	-41.08624856
chr2	30744039	30744039	+	0	0	-29.53825408
chr2	30744152	30744152	-	0	0	-30.50462601
chr2	30744304	30744304	-	0	0	-28.81000027

chr2	30753479	30753479	+	0	0	-25.71826314
chr2	30753487	30753487	+	0	0	-32.48847366
chr2	30753497	30753497	+	0	0	-36.79833579
chr2	30773273	30773273	-	4.09E-10	1.42E-08	-39.52140209
chr2	30801972	30801972	-	0.00070943	0.00665426	-25.24534206
chr2	30902752	30902752	-	0	0	-37.44802313
chr2	30902757	30902757	-	0	0	-30.60200168
chr2	30902935	30902935	-	0	0	-42.46508209
chr2	31049516	31049516	-	2.99E-07	6.78E-06	-29.76897333
chr2	31049769	31049769	-	7.89E-09	2.30E-07	-42.12570621
chr2	31049786	31049786	-	0.00109338	0.00949771	-26.97557471
chr2	31049797	31049797	-	4.13E-07	9.13E-06	-40.18361582
chr2	31049809	31049809	-	5.79E-08	1.48E-06	-44.07796102
chr2	31049816	31049816	-	8.37E-11	3.14E-09	-52.31285311
chr2	31090464	31090464	+	0	0	-28.3007528
chr2	31262949	31262949	+	5.88E-15	3.37E-13	-36.21168305
chr2	31808472	31808472	+	9.82E-06	0.00016275	-29.54199763
chr2	31808498	31808498	+	0	0	-27.56561147
chr2	31808513	31808513	+	0	0	-33.13698389
chr2	31808521	31808521	+	0	0	-30.63376978
chr2	31808535	31808535	+	0	0	-32.26662973
chr2	31808536	31808536	-	0	0	-30.32769384
chr2	31808548	31808548	+	0	0	-30.80429439
chr2	31808549	31808549	-	0	0	-30.96904552
chr2	31808558	31808558	-	0	0	-25.06073929
chr2	31808581	31808581	+	0	0	-29.85403221
chr2	31808582	31808582	-	0	0	-26.80359578
chr2	31808624	31808624	+	0	0	-40.14392041
chr2	31808661	31808661	-	0	0	-28.94333225
chr2	31808676	31808676	-	0	0	-38.02547265
chr2	31808693	31808693	-	0	0	-35.38111151
chr2	31808699	31808699	+	0	0	-26.70724565
chr2	31808700	31808700	-	0	0	-34.65982411
chr2	31808905	31808905	+	2.96E-14	1.59E-12	-29.04387389
chr2	31808906	31808906	-	1.44E-07	3.46E-06	-39.60573477
chr2	31858853	31858853	+	0	0	-26.92154494
chr2	32089021	32089021	-	0	0	-30.4191927
chr2	32153566	32153566	+	0	0	-34.63768116
chr2	32153570	32153570	+	0	0	-36.55678645
chr2	32153601	32153601	+	0	0	-27.67756353
chr2	32153602	32153602	-	8.31E-11	3.12E-09	-28.30008654

chr2	32153647	32153647	-	1.91E-11	7.69E-10	-28.75761076
chr2	32539809	32539809	-	2.17E-06	4.17E-05	-30.58608059
chr2	32609197	32609197	+	0	0	-37.16528774
chr2	32609267	32609267	-	2.49E-08	6.74E-07	-26.76982592
chr2	32609290	32609290	+	2.26E-11	9.04E-10	-31.0836278
chr2	32609291	32609291	-	6.23E-07	1.33E-05	-29.31067588
chr2	32610160	32610160	+	1.61E-05	0.00025356	-26.36015326
chr2	32656105	32656105	-	6.40E-08	1.63E-06	-27.13385186
chr2	32741510	32741510	+	0	0	-45.67370079
chr2	32741514	32741514	+	0	0	-41.62080349
chr2	32741521	32741521	+	0	0	-42.4442465
chr2	32741522	32741522	-	0	0	-45.89633211
chr2	32741523	32741523	+	0	0	-43.09323826
chr2	32741524	32741524	-	0	0	-48.05824189
chr2	32741537	32741537	+	0	0	-41.97161757
chr2	32741538	32741538	-	0	0	-48.8772193
chr2	32741541	32741541	+	0	0	-43.00227356
chr2	32741542	32741542	-	0	0	-45.63027199
chr2	32741555	32741555	+	0	0	-37.45201717
chr2	32741556	32741556	-	0	0	-39.87245696
chr2	32741559	32741559	+	0	0	-41.72783871
chr2	32741560	32741560	-	0	0	-47.42476692
chr2	32741568	32741568	+	0	0	-25.2482444
chr2	32741569	32741569	-	0	0	-31.4889326
chr2	32741581	32741581	+	0	0	-34.28734843
chr2	32741592	32741592	+	0	0	-34.50420572
chr2	32741596	32741596	+	0	0	-34.02359992
chr2	32741615	32741615	+	0	0	-34.85913521
chr2	32741645	32741645	-	2.22E-15	1.32E-13	-26.15719167
chr2	32741652	32741652	-	0	0	-34.55387622
chr2	32741678	32741678	-	0	0	-30.50069129
chr2	32741690	32741690	+	0	0	-26.35431354
chr2	32741691	32741691	-	0	0	-31.63860831
chr2	32741743	32741743	-	0	0	-28.4334379
chr2	32741751	32741751	-	0	0	-39.27452241
chr2	32741760	32741760	-	0	0	-26.3611035
chr2	32776359	32776359	+	0	0	-28.63079746
chr2	32874981	32874981	-	2.45E-10	8.71E-09	-25.39128355
chr2	32888555	32888555	+	5.58E-13	2.64E-11	-27.44176943
chr2	33169839	33169839	+	2.94E-10	1.04E-08	-26.79971103
chr2	33178400	33178400	+	5.54E-10	1.89E-08	-30.33914909

chr2	33216722	33216722	+	3.22E-15	1.89E-13	-32.75229875
chr2	33216734	33216734	+	0	0	-51.06526632
chr2	33216735	33216735	-	0	0	-52.29477961
chr2	33216752	33216752	+	0	0	-36.00253131
chr2	33216753	33216753	-	3.14E-14	1.68E-12	-32.28251864
chr2	33216776	33216776	+	0	0	-37.75115207
chr2	33216806	33216806	-	0	0	-48.55789927
chr2	33216846	33216846	-	0	0	-43.87078439
chr2	33575575	33575575	+	0	0	-25.10204819
chr2	33575617	33575617	+	0	0	-30.65815772
chr2	33593200	33593200	-	7.34E-13	3.44E-11	-35.0369428
chr2	33616239	33616239	+	2.25E-05	0.00034102	-38.45598846
chr2	33625491	33625491	+	0	0	-28.32440101
chr2	33639976	33639976	+	9.98E-06	0.00016515	-35.3821907
chr2	33794765	33794765	-	4.55E-13	2.17E-11	-25.09725298
chr2	33822717	33822717	+	0	0	-25.51740338
chr2	33877896	33877896	+	0.00089723	0.00807938	-38.63636364
chr2	33919821	33919821	+	0	0	-44.32772934
chr2	33919963	33919963	-	0	0	-33.68603259
chr2	33919981	33919981	-	0	0	-36.55437226
chr2	33920494	33920494	+	0	0	-35.12053256
chr2	33920497	33920497	+	0	0	-29.23541785
chr2	33920511	33920511	+	0	0	-28.60410831
chr2	33920591	33920591	-	0	0	-38.94700594
chr2	33967027	33967027	+	0	0	-30.17093703
chr2	34031200	34031200	+	0	0	-27.1746936
chr2	34031223	34031223	+	0	0	-26.31915365
chr2	34639229	34639229	+	2.43E-05	0.00036486	-47.05128205
chr2	34645065	34645065	-	2.22E-16	1.43E-14	-26.00566442
chr2	34645068	34645068	+	0	0	-25.96561526
chr2	34645075	34645075	+	0	0	-28.535597
chr2	34645080	34645080	+	0	0	-26.73483287
chr2	34645096	34645096	+	0	0	-25.67843001
chr2	34645106	34645106	+	0	0	-25.48531243
chr2	34645203	34645203	-	0	0	-27.49988517
chr2	34874458	34874458	+	3.10E-13	1.51E-11	-25.17640254
chr2	34958402	34958402	-	1.80E-05	0.00027984	-28.35503588
chr2	34958415	34958415	-	4.24E-08	1.11E-06	-37.03030303
chr2	34983007	34983007	+	0	0	-30.08444023
chr2	34983008	34983008	-	2.38E-11	9.51E-10	-34.81867361
chr2	35432769	35432769	+	9.18E-08	2.27E-06	-28.84070295



chr2	35447245	35447245	+	8.29E-05	0.00107109	-34.0651801
chr2	35449773	35449773	+	0	0	-27.25298332
chr2	35449915	35449915	-	0	0	-25.44807478
chr2	35490709	35490709	-	0	0	-36.39705882
chr2	35490732	35490732	-	0	0	-38.79647718
chr2	35556554	35556554	-	5.72E-14	2.98E-12	-28.90017825
chr2	35588409	35588409	-	0	0	-26.45505928
chr2	35623024	35623024	+	0	0	-26.88799006
chr2	35663218	35663218	+	0	0	-32.77734068
chr2	35663219	35663219	-	0	0	-26.0218223
chr2	35692083	35692083	-	4.22E-07	9.30E-06	-44.11764706
chr2	35695282	35695282	-	9.58E-10	3.17E-08	-25.36989796
chr2	35760564	35760564	+	8.36E-14	4.29E-12	-26.84176112
chr2	35944885	35944885	-	5.72E-10	1.95E-08	-25.02520972
chr2	35944905	35944905	-	0	0	-28.14955303
chr2	35944944	35944944	-	0	0	-28.20098316
chr2	36211838	36211838	+	0	0	-25.55727268
chr2	36211839	36211839	-	0	0	-28.29957093
chr2	37758490	37758490	+	0	0	-44.01133763
chr2	37758496	37758496	+	0	0	-49.38121323
chr2	37758625	37758625	-	0	0	-45.79835154
chr2	37758637	37758637	-	0	0	-48.77078237
chr2	37758669	37758669	-	0	0	-44.40247678
chr2	37758672	37758672	+	0	0	-38.96375234
chr2	37758673	37758673	-	0	0	-42.60435346
chr2	37758711	37758711	+	0	0	-29.02820953
chr2	37758712	37758712	-	0	0	-28.28378444
chr2	37758714	37758714	+	0	0	-33.20016362
chr2	37758715	37758715	-	0	0	-34.41879136
chr2	37758727	37758727	-	0	0	-56.4524393
chr2	37767137	37767137	+	0	0	-27.46361369
chr2	37767435	37767435	+	0	0	-30.85395467
chr2	37776197	37776197	+	0	0	-40.7156411
chr2	37776198	37776198	-	0.0006034	0.00581973	-37.5
chr2	37776202	37776202	+	0	0	-33.60868561
chr2	37776228	37776228	+	0	0	-33.25320706
chr2	37776229	37776229	-	2.87E-05	0.00042344	-45.84210526
chr2	37776245	37776245	+	0	0	-46.15607487
chr2	37776266	37776266	+	0	0	-43.32473898
chr2	37776274	37776274	+	0	0	-48.48957124
chr2	37776276	37776276	+	0	0	-37.80925276

chr2	37776284	37776284	-	0	0	-37.34254992
chr2	37776287	37776287	-	0	0	-40.50832511
chr2	37776302	37776302	-	0	0	-45.79494061
chr2	37776333	37776333	+	0	0	-31.13634364
chr2	37776334	37776334	-	0	0	-36.58759575
chr2	37776345	37776345	+	0	0	-33.10834231
chr2	37776441	37776441	+	0	0	-43.31296974
chr2	37776474	37776474	+	0	0	-42.05502717
chr2	37776475	37776475	-	0	0	-39.18132129
chr2	37776524	37776524	+	0	0	-37.71019859
chr2	37776551	37776551	+	0	0	-52.81094527
chr2	37776766	37776766	+	0	0	-35.94456702
chr2	37776767	37776767	-	0	0	-31.78306725
chr2	37776825	37776825	-	0	0	-38.12424212
chr2	37776863	37776863	-	0	0	-27.79747833
chr2	37776873	37776873	+	0	0	-34.74037629
chr2	37776914	37776914	-	1.93E-14	1.05E-12	-29.73703733
chr2	37776936	37776936	+	0	0	-27.36086373
chr2	37776937	37776937	-	0	0	-32.45934033
chr2	37777090	37777090	-	7.43E-05	0.00097462	-35.59705716
chr2	37777103	37777103	+	1.13E-10	4.18E-09	-33.19250971
chr2	37777128	37777128	+	2.98E-08	7.98E-07	-28.45880524
chr2	37793759	37793759	-	0	0	-26.29688383
chr2	38360070	38360070	-	0.0011319	0.00976928	-25.19797276
chr2	38367339	38367339	-	0	0	-36.95486619
chr2	38375991	38375991	-	0	0	-28.20196376
chr2	38512992	38512992	+	0	0	-33.13207051
chr2	38513084	38513084	-	9.84E-11	3.67E-09	-50
chr2	38513133	38513133	-	6.50E-07	1.38E-05	-37.56140351
chr2	38517060	38517060	-	1.34E-11	5.51E-10	-27.53218196
chr2	45020169	45020169	-	0	0	-30.51001821
chr2	45020197	45020197	-	4.44E-16	2.79E-14	-26.48418491
chr2	45098086	45098086	+	1.09E-05	0.00017881	-26.42257463
chr2	45098230	45098230	-	3.69E-08	9.74E-07	-32.88515406
chr2	45106300	45106300	+	0	0	-26.01971143
chr2	45106424	45106424	-	0	0	-29.88736965
chr2	45787990	45787990	+	0.00103856	0.00910935	-26.32779407
chr2	45788092	45788092	+	4.52E-07	9.92E-06	-26.57526658
chr2	45788093	45788093	-	0	0	-27.31558424
chr2	49729076	49729076	+	9.45E-05	0.00120022	-25.34873583
chr2	49909576	49909576	+	1.47E-07	3.51E-06	-35.47473868

chr2	49909744	49909744	-	0	0	-35.46315427
chr2	50688097	50688097	-	1.37E-10	5.03E-09	-40.11203752
chr2	50690396	50690396	-	0	0	-31.86823376
chr2	51146120	51146120	+	2.93E-09	9.07E-08	-27.00027245
chr2	52634443	52634443	+	0.00012631	0.00154259	-32.73809524
chr2	52928195	52928195	+	2.18E-05	0.00033151	-26.8907563
chr2	52942990	52942990	-	0	0	-29.61332739
chr2	57109190	57109190	+	1.45E-06	2.88E-05	-37.39495798
chr2	57109202	57109202	+	5.10E-05	0.00070153	-31.16818558
chr2	57109408	57109408	-	4.56E-05	0.00063707	-26.71451356
chr2	57110271	57110271	+	1.46E-06	2.91E-05	-30.61417323
chr2	57110493	57110493	-	9.08E-07	1.88E-05	-27.38636364
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chr2	58516150	58516150	+	0	0	-40.6905071
chr2	58516151	58516151	-	0	0	-33.77091209
chr2	58516221	58516221	-	3.13E-11	1.23E-09	-38.69047619
chr2	58516226	58516226	-	6.06E-09	1.79E-07	-33.67903399
chr2	59162532	59162532	-	5.03E-09	1.51E-07	-29.58333333
chr2	59648711	59648711	-	0	0	-37.28894649
chr2	59706899	59706899	+	0	0	-27.83787793
chr2	59706907	59706907	+	0	0	-32.96260444
chr2	59706971	59706971	-	0	0	-25.39495798
chr2	59706973	59706973	-	1.11E-16	7.26E-15	-26.47368306
chr2	59829351	59829351	+	0	0	-43.97088715
chr2	59829379	59829379	+	0	0	-42.58598521
chr2	59829395	59829395	+	0	0	-42.79232564
chr2	60355220	60355220	+	3.33E-16	2.11E-14	-37.15135492
chr2	60355227	60355227	+	5.38E-13	2.55E-11	-29.59796635
chr2	60355228	60355228	-	3.15E-13	1.53E-11	-33.49724626
chr2	60355252	60355252	-	4.44E-15	2.57E-13	-33.09617918
chr2	60552957	60552957	-	0	0	-31.42070245
chr2	60901521	60901521	+	0	0	-30.11345189
chr2	60901528	60901528	+	0	0	-33.0474281
chr2	60901552	60901552	+	0	0	-27.06397962
chr2	60901556	60901556	+	0	0	-35.32961604
chr2	60901560	60901560	+	0	0	-33.66880038
chr2	60901634	60901634	+	0	0	-35.71107398
chr2	60901635	60901635	-	0	0	-34.34117321
chr2	61456156	61456156	+	6.85E-06	0.00011784	-29.0521978
chr2	61655221	61655221	+	0	0	-30.49719119

chr2	61655254	61655254	+	0	0	-34.75530133
chr2	61655255	61655255	-	0	0	-26.78678754
chr2	61655262	61655262	+	0	0	-31.78456347
chr2	61655263	61655263	-	0	0	-26.16296501
chr2	61655299	61655299	+	0	0	-31.65648537
chr2	61655300	61655300	-	0	0	-28.14699916
chr2	61815939	61815939	-	3.03E-12	1.33E-10	-27.72683491
chr2	61815962	61815962	+	1.24E-12	5.65E-11	-30.13605442
chr2	61816000	61816000	+	1.09E-10	4.05E-09	-27.11291836
chr2	61816079	61816079	-	0	0	-32.00263742
chr2	61816081	61816081	-	0	0	-27.60378436
chr2	61816142	61816142	-	5.55E-15	3.18E-13	-48.05429864
chr2	61816201	61816201	+	0	0	-32.64628125
chr2	61816203	61816203	+	8.33E-15	4.69E-13	-25.33740238
chr2	62046839	62046839	-	2.82E-06	5.30E-05	38.92022562
chr2	64492570	64492570	-	2.01E-05	0.00030854	35
chr2	65037491	65037491	-	2.33E-05	0.00035131	-33.22774786
chr2	65880817	65880817	+	3.10E-06	5.77E-05	-27.27272727
chr2	65909991	65909991	+	3.91E-05	0.00055587	-42.63211382
chr2	66737047	66737047	+	0.00042591	0.00434731	-44.87179487
chr2	67164384	67164384	-	0.00023228	0.00260348	27.16450216
chr2	68365433	68365433	+	4.61E-12	1.99E-10	-44.40194976
chr2	68465873	68465873	-	0	0	-25.85338371
chr2	68468790	68468790	+	0	0	-26.96632663
chr2	68468850	68468850	-	0	0	-35.24494296
chr2	68468877	68468877	-	0	0	-34.32523998
chr2	69612709	69612709	+	0	0	-34.36937718
chr2	69612751	69612751	+	0	0	-36.68788683
chr2	69612752	69612752	-	0	0	-29.79739665
chr2	70127922	70127922	-	2.73E-11	1.08E-09	-25.61481072
chr2	70307811	70307811	+	5.26E-05	0.00072079	-33.33333333
chr2	71328925	71328925	+	1.18E-11	4.89E-10	-35.5734767
chr2	71328947	71328947	+	1.01E-13	5.14E-12	-36.42857143
chr2	71328948	71328948	-	3.48E-12	1.52E-10	-39.62355638
chr2	71328956	71328956	-	3.66E-12	1.59E-10	-39.32125089
chr2	71812491	71812491	+	1.51E-08	4.23E-07	-26.74475754
chr2	71816534	71816534	+	4.45E-05	0.00062292	-37.99168532
chr2	71867800	71867800	+	6.15E-11	2.34E-09	-30.21164021
chr2	72056713	72056713	+	1.11E-16	7.26E-15	-35.86404767
chr2	72140538	72140538	+	0	0	-30.21057868
chr2	72398379	72398379	-	0	0	-42.94016057

chr2	72398407	72398407	-	0	0	-40.53339572
chr2	72524166	72524166	+	0	0	-25.13885216
chr2	72529734	72529734	+	9.97E-08	2.45E-06	-29.40165599
chr2	72565964	72565964	+	1.74E-14	9.53E-13	-29.10501572
chr2	73037942	73037942	+	0	0	-33.51976137
chr2	73086246	73086246	-	6.07E-10	2.06E-08	-27.13883677
chr2	73263460	73263460	+	0.00024031	0.00268066	-31.87096774
chr2	73278079	73278079	-	0	0	-31.89811522
chr2	73528844	73528844	-	9.54E-05	0.00121123	-27.49287749
chr2	73560975	73560975	+	0	0	-27.92203969
chr2	73560979	73560979	+	0	0	-37.59767886
chr2	73561043	73561043	-	0	0	-27.83769637
chr2	73561063	73561063	+	0	0	-33.44686523
chr2	73561064	73561064	-	0	0	-27.63416069
chr2	73561091	73561091	+	0	0	-31.10310301
chr2	73561092	73561092	-	0	0	-28.19882485
chr2	73561096	73561096	-	0	0	-25.59051919
chr2	73597144	73597144	+	7.15E-08	1.80E-06	-33.85293344
chr2	74691108	74691108	+	0	0	-30.43258123
chr2	74691109	74691109	-	0	0	-28.08774715
chr2	74721254	74721254	+	0	0	-26.41287455
chr2	74725575	74725575	-	0	0	-25.96942903
chr2	74747789	74747789	+	6.05E-08	1.54E-06	-40.99404117
chr2	74930310	74930310	-	0	0	-25.54095046
chr2	75134791	75134791	-	0	0	-27.06631221
chr2	75608742	75608742	-	0	0	-25.12239385
chr2	75608756	75608756	-	0	0	-27.02998484
chr2	75772771	75772771	+	0	0	-36.12732459
chr2	75772793	75772793	+	0	0	-45.50028098
chr2	75772805	75772805	+	0	0	-45.52589866
chr2	75772844	75772844	-	0	0	-50.27746948
chr2	75772849	75772849	-	0	0	-49.22713304
chr2	75772853	75772853	-	0	0	-42.58672075
chr2	75772866	75772866	+	0	0	-44.33123249
chr2	75772867	75772867	-	0	0	-42.10330121
chr2	75772961	75772961	-	0	0	-37.93699231
chr2	75790342	75790342	-	7.77E-16	4.79E-14	-27.29060479
chr2	75790358	75790358	-	0	0	-26.79294207
chr2	75790381	75790381	+	0	0	-25.05751388
chr2	75790382	75790382	-	0	0	-33.46862483
chr2	75790422	75790422	+	0	0	-25.90655095

chr2	75802114	75802114	+	6.86E-13	3.22E-11	-40.33882784
chr2	75802140	75802140	+	2.12E-13	1.05E-11	-32.32600733
chr2	75973256	75973256	-	0.00022891	0.0025713	-25.23727351
chr2	77171901	77171901	+	0	0	-32.6868487
chr2	77171998	77171998	-	0	0	-26.44183966
chr2	77262311	77262311	+	0.00018666	0.00216042	-50.95652174
chr2	77506815	77506815	+	9.01E-11	3.37E-09	-29.2967033
chr2	77506833	77506833	+	4.44E-15	2.57E-13	-41.20448179
chr2	77506891	77506891	-	0	0	-27.58947909
chr2	77506903	77506903	-	0	0	-32.39307831
chr2	79589416	79589416	-	0	0	-26.22096115
chr2	80457189	80457189	-	9.72E-08	2.39E-06	-29.570422
chr2	80457193	80457193	-	8.12E-09	2.36E-07	-32.05893609
chr2	81750865	81750865	+	0.00010513	0.00131669	-42.57861635
chr2	83740768	83740768	-	3.14E-10	1.10E-08	-50.18024513
chr2	84073323	84073323	+	0	0	-26.08339029
chr2	84666222	84666222	+	0	0	-30.71886447
chr2	84666421	84666421	-	6.14E-06	0.00010679	-34.25632911
chr2	84741148	84741148	-	0	0	-31.13695416
chr2	84774886	84774886	+	0	0	-27.34093022
chr2	84774909	84774909	+	0	0	-45.52234763
chr2	84774994	84774994	-	0	0	-38.60780477
chr2	84774999	84774999	-	0	0	-36.05696338
chr2	84775007	84775007	-	0	0	-32.0215311
chr2	84790629	84790629	-	0.00014261	0.00171362	-38.03571429
chr2	84875840	84875840	-	0	0	-31.8131948
chr2	84875866	84875866	-	0	0	-33.99607096
chr2	85050407	85050407	+	5.85E-06	0.0001022	-27.61904762
chr2	85050441	85050441	+	6.24E-06	0.0001083	-25.73591253
chr2	85050699	85050699	+	0	0	-39.07992565
chr2	85050831	85050831	-	0	0	-33.09617703
chr2	85050835	85050835	-	0	0	-29.99635072
chr2	85051024	85051024	+	0	0	-34.30280528
chr2	85051025	85051025	-	8.33E-06	0.00014046	-31.31519274
chr2	85051120	85051120	-	0	0	-34.95193625
chr2	85051160	85051160	-	0	0	-34.48537378
chr2	90515328	90515328	+	1.08E-13	5.47E-12	-26.32675535
chr2	90890468	90890468	+	0	0	-25.94939818
chr2	91068830	91068830	-	0	0	-30.11880332
chr2	91086413	91086413	-	0	0	-27.17609181
chr2	91206837	91206837	+	0	0	-42.30313093

chr2	91457153	91457153	+	0	0	-30.1508845
chr2	91457168	91457168	+	0	0	-27.24455246
chr2	91457334	91457334	+	0	0	-29.75045208
chr2	91457338	91457338	+	0	0	-40.20434144
chr2	91457354	91457354	-	0	0	-31.89319301
chr2	91965955	91965955	-	1.47E-06	2.93E-05	-26.90421706
chr2	92400813	92400813	+	7.55E-10	2.53E-08	-35.12525535
chr2	92400981	92400981	-	0	0	-32.07357017
chr2	92742443	92742443	-	0	0	-26.33292031
chr2	92967477	92967477	+	0.0008106	0.0074305	-29.16666667
chr2	92967708	92967708	+	0	0	-25.7958513
chr2	93014181	93014181	+	0	0	-32.23506744
chr2	93014182	93014182	-	0	0	-34.1842014
chr2	93014190	93014190	+	1.11E-16	7.26E-15	-28.85662634
chr2	93014386	93014386	+	1.33E-09	4.31E-08	-33.50727388
chr2	93112499	93112499	+	0	0	-25.20084193
chr2	93112650	93112650	-	0	0	-25.9559521
chr2	93176784	93176784	-	0	0	-44.09579772
chr2	93637738	93637738	+	1.56E-07	3.71E-06	-27.80961988
chr2	93637896	93637896	-	0.00013737	0.00165875	-28.54559545
chr2	93637902	93637902	-	0.00058543	0.00567565	-28.04761905
chr2	93641740	93641740	+	0	0	-31.93277311
chr2	93641798	93641798	-	0	0	-28.74335349
chr2	93641856	93641856	-	1.81E-13	8.97E-12	-31.57288859
chr2	93643611	93643611	+	0	0	-36.07805866
chr2	93643847	93643847	+	3.60E-09	1.10E-07	-32.48677249
chr2	93643848	93643848	-	2.70E-10	9.53E-09	-33.42105263
chr2	93643879	93643879	+	0	0	-49.94697773
chr2	93644059	93644059	-	1.22E-06	2.48E-05	-33.1372549
chr2	93644068	93644068	-	7.92E-12	3.33E-10	-44.65761511
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chr2	93900148	93900148	-	0	0	-31.78977322
chr2	98663908	98663908	-	2.17E-05	0.00033021	-25.18705763
chr2	102021798	102021798	-	0	0	-36.30852257
chr2	102104502	102104502	-	0	0	-30.4423804
chr2	102763023	102763023	-	4.55E-15	2.63E-13	-32.84857467
chr2	103476761	103476761	+	1.09E-11	4.51E-10	-31.37065278
chr2	103897075	103897075	-	0.00062134	0.0059632	-32.6458037
chr2	103901156	103901156	+	4.42E-11	1.72E-09	-35.58441558
chr2	103994070	103994070	-	0	0	-26.47224507
chr2	104096461	104096461	-	1.25E-09	4.06E-08	-25.6281407

chr2	104714728	104714728	-	3.69E-10	1.29E-08	-29.7668354
chr2	105673760	105673760	-	0	0	-31.8503503
chr2	106822865	106822865	-	0	0	-29.22016291
chr2	112244488	112244488	+	0	0	-30.1232314
chr2	114119931	114119931	-	0.00022201	0.00250452	-38.63863864
chr2	114119949	114119949	+	2.74E-09	8.51E-08	-33.11111111
chr2	114119950	114119950	-	1.95E-06	3.79E-05	-25.62745098
chr2	115777575	115777575	-	0	0	-28.98101816
chr2	116061013	116061013	-	4.17E-10	1.44E-08	-29.72847528
chr2	118072956	118072956	+	3.25E-07	7.32E-06	-37.14978775
chr2	118254822	118254822	-	1.16E-06	2.35E-05	-25.17123288
chr2	118262949	118262949	+	2.22E-16	1.43E-14	-26.68803828
chr2	118677753	118677753	-	5.66E-07	1.22E-05	-26.71568627
chr2	118677762	118677762	+	0	0	-37.49061102
chr2	118678078	118678078	+	0	0	-27.14045694
chr2	118702448	118702448	+	3.66E-15	2.14E-13	-27.1957672
chr2	118702460	118702460	+	0	0	-39.47423517
chr2	118702461	118702461	-	0	0	-31.02086708
chr2	118702478	118702478	+	0	0	-43.96076149
chr2	118702479	118702479	-	0	0	-41.94324194
chr2	118702482	118702482	+	0	0	-51.44591146
chr2	118702483	118702483	-	0	0	-42.17870845
chr2	118702506	118702506	+	0	0	-46.25174806
chr2	118702527	118702527	+	0	0	-40.47809847
chr2	118702531	118702531	+	0	0	-38.99859684
chr2	118702598	118702598	-	0	0	-49.38903646
chr2	118711205	118711205	+	0	0	-34.25783397
chr2	118711209	118711209	+	0	0	-34.14783643
chr2	118711218	118711218	+	0	0	-40.00109618
chr2	118711225	118711225	+	0	0	-43.0803046
chr2	118711230	118711230	+	0	0	-31.70612716
chr2	118711233	118711233	+	0	0	-40.06418638
chr2	118711281	118711281	-	0	0	-26.44292024
chr2	118711363	118711363	+	0	0	-25.89240622
chr2	118711399	118711399	-	0	0	-27.39411368
chr2	118762366	118762366	+	3.00E-07	6.81E-06	-26.75496689
chr2	118764276	118764276	+	0	0	-33.16206198
chr2	118764282	118764282	+	0	0	-37.02689401
chr2	118764313	118764313	+	0	0	-41.8460831
chr2	118764364	118764364	+	4.90E-10	1.68E-08	-27.01269841
chr2	118764365	118764365	-	0	0	-29.12492074



chr2	118903693	118903693	-	2.88E-07	6.54E-06	-31.01420872
chr2	118978246	118978246	+	1.19E-08	3.38E-07	-27.13339825
chr2	118996354	118996354	-	9.52E-05	0.0012084	-40.86395233
chr2	119019061	119019061	+	3.35E-07	7.52E-06	-33.41750842
chr2	119019062	119019062	-	1.75E-09	5.58E-08	-38.1010101
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chr2	119019084	119019084	-	9.88E-07	2.03E-05	-29.23351159
chr2	119299809	119299809	+	0	0	-33.26000978
chr2	119299827	119299827	+	0	0	-32.8530699
chr2	119299946	119299946	-	0	0	-29.35097689
chr2	119311765	119311765	+	0	0	-34.57917506
chr2	119311817	119311817	-	0	0	-41.43402399
chr2	119322901	119322901	-	0	0	-26.92422409
chr2	119322921	119322921	+	0	0	-53.27579267
chr2	119322923	119322923	+	0	0	-47.48524802
chr2	119322936	119322936	+	0	0	-50.32522935
chr2	119322943	119322943	+	0	0	-48.68182452
chr2	119323035	119323035	-	0	0	-42.6807564
chr2	119323054	119323054	-	0	0	-43.30472575
chr2	119324034	119324034	+	0	0	-36.61622736
chr2	119324043	119324043	+	0	0	-40.20052487
chr2	119324048	119324048	+	0	0	-43.07472607
chr2	119324057	119324057	+	0	0	-42.54688251
chr2	119324064	119324064	+	0	0	-25.25444195
chr2	119324077	119324077	+	0	0	-38.89578645
chr2	119324104	119324104	-	0	0	-33.12979188
chr2	119324136	119324136	+	0	0	-41.69231687
chr2	119324146	119324146	+	0	0	-26.15125834
chr2	119324156	119324156	+	0	0	-47.68854157
chr2	119324164	119324164	+	0	0	-51.80418996
chr2	119324165	119324165	-	0	0	-44.4496907
chr2	119324168	119324168	+	0	0	-46.83470955
chr2	119324169	119324169	-	0	0	-34.34354663
chr2	119324170	119324170	+	0	0	-34.23070543
chr2	119324171	119324171	-	0	0	-37.42649368
chr2	119759810	119759810	-	0.00054768	0.00536906	-29.35064935
chr2	119759859	119759859	-	3.80E-05	0.00054117	-34.6240942
chr2	119855475	119855475	+	1.50E-09	4.83E-08	-30.91746963
chr2	120085108	120085108	-	0	0	-35.09225486
chr2	120085263	120085263	-	0	0	-28.14368333
chr2	120849674	120849674	+	6.73E-06	0.000116	-25.1085867

chr2	121306586	121306586	+	0	0	-27.58601198
chr2	121306787	121306787	+	0.00059405	0.00574427	-29.63752665
chr2	121442100	121442100	+	0	0	-26.9535284
chr2	121442101	121442101	-	0	0	-26.40269794
chr2	121447522	121447522	+	0.00042611	0.0043489	-25.61854056
chr2	122222533	122222533	+	1.64E-05	0.00025687	-25.31386861
chr2	122233770	122233770	+	0	0	-26.22467233
chr2	122349398	122349398	+	0	0	-31.40379982
chr2	122368038	122368038	+	6.36E-07	1.36E-05	-25.64152036
chr2	125732439	125732439	+	0	0	-30.0634119
chr2	125732458	125732458	+	0	0	-36.18801016
chr2	125732469	125732469	+	0	0	-31.12479159
chr2	125732470	125732470	-	0	0	-36.4192404
chr2	125732492	125732492	-	0	0	-29.7800602
chr2	126527769	126527769	+	0.00054583	0.00535395	-33.86402754
chr2	126553473	126553473	-	0	0	-26.56689705
chr2	126553610	126553610	-	0	0	-32.6668265
chr2	126553692	126553692	+	0	0	-29.3087625
chr2	126553693	126553693	-	0	0	-31.61571377
chr2	126553717	126553717	-	0	0	-29.5466335
chr2	126594335	126594335	+	0	0	-26.52657058
chr2	126594336	126594336	-	0	0	-36.90278956
chr2	126594349	126594349	-	0	0	-36.22737543
chr2	126594382	126594382	+	4.79E-11	1.85E-09	-26.39050616
chr2	126594383	126594383	-	0	0	-25.37913438
chr2	127322993	127322993	+	0	0	-26.71639726
chr2	127323001	127323001	+	0	0	-33.59574018
chr2	127362999	127362999	-	0.00016611	0.00195413	28.57142857
chr2	127481813	127481813	-	0	0	-28.71997284
chr2	127522091	127522091	+	0	0	-41.56211353
chr2	127522247	127522247	+	0	0	-29.05013308
chr2	127541306	127541306	-	0	0	-30.77649326
chr2	127541313	127541313	+	0	0	-34.73302849
chr2	127541326	127541326	+	0	0	-28.72297149
chr2	127541338	127541338	+	0	0	-35.69453553
chr2	127541415	127541415	-	0	0	-32.20226252
chr2	127541478	127541478	+	0	0	-26.92955462
chr2	127541483	127541483	+	0	0	-35.09766293
chr2	127541484	127541484	-	0	0	-38.67049009
chr2	127541500	127541500	+	0	0	-34.9306301
chr2	127541501	127541501	-	0	0	-34.45955909

chr2	127541534	127541534	+	0	0	-33.88329004
chr2	127541600	127541600	-	0	0	-35.74872997
chr2	127552852	127552852	+	0	0	-28.77499492
chr2	127552884	127552884	+	0	0	-28.42138013
chr2	127553120	127553120	-	7.56E-08	1.90E-06	-28.40909091
chr2	128212001	128212001	+	0	0	-26.88617962
chr2	128212160	128212160	-	0	0	-33.32748524
chr2	128309871	128309871	-	0	0	-33.89140738
chr2	128309890	128309890	+	0	0	-28.30065359
chr2	129183378	129183378	+	0	0	-25.72492401
chr2	129243852	129243852	+	0	0	-35.21704758
chr2	129243853	129243853	-	0	0	-35.00052494
chr2	129515461	129515461	-	0	0	-28.65402622
chr2	129594181	129594181	+	1.44E-15	8.70E-14	-36.59751524
chr2	130637907	130637907	-	1.04E-05	0.00017101	-28.37941628
chr2	130637909	130637909	+	3.77E-06	6.88E-05	-27.75994865
chr2	130638075	130638075	-	5.76E-06	0.00010082	-26.88087774
chr2	130638083	130638083	-	7.68E-10	2.57E-08	-44.52724732
chr2	130638091	130638091	-	1.37E-09	4.43E-08	-43.1959345
chr2	130638098	130638098	-	1.51E-05	0.00023907	-32.0056899
chr2	130638102	130638102	-	4.41E-07	9.69E-06	-35.88719154
chr2	130838904	130838904	+	0	0	-26.5951859
chr2	131056739	131056739	-	1.98E-05	0.00030432	-25.05899281
chr2	131063743	131063743	-	0	0	-25.7638979
chr2	131171215	131171215	+	0	0	-25.70339417
chr2	131179207	131179207	-	4.48E-11	1.74E-09	-26.32650562
chr2	131892689	131892689	+	4.15E-09	1.26E-07	-38.4607726
chr2	131892718	131892718	+	5.00E-11	1.93E-09	-45.74870569
chr2	132035530	132035530	-	0	0	-25.29171685
chr2	132113883	132113883	+	7.20E-06	0.00012325	-31.59899749
chr2	132144250	132144250	+	9.14E-08	2.26E-06	-28.47567279
chr2	132144264	132144264	+	2.67E-11	1.06E-09	-25.39813726
chr2	132146186	132146186	-	2.97E-07	6.74E-06	-34.45544554
chr2	132427924	132427924	-	0.00028904	0.0031371	28.92061432
chr2	132880873	132880873	+	0	0	-28.83241829
chr2	132880914	132880914	-	5.48E-14	2.87E-12	-36.21022418
chr2	133553453	133553453	-	0	0	-28.835531
chr2	134856876	134856876	+	6.69E-13	3.14E-11	-42.41288872
chr2	135717250	135717250	+	0	0	-26.5192484
chr2	135717338	135717338	-	0	0	-28.17320958
chr2	135717383	135717383	+	0	0	-25.34500681

chr2	135717384	135717384	-	0	0	-25.32423929
chr2	135717430	135717430	+	0	0	-32.3795549
chr2	135717493	135717493	-	0	0	-35.62549218
chr2	138278673	138278673	-	6.14E-11	2.34E-09	-30.62946394
chr2	138278813	138278813	-	0	0	-30.36906596
chr2	138279250	138279250	+	0	0	-29.74571352
chr2	138279306	138279306	-	0	0	-31.93036451
chr2	138279860	138279860	+	0	0	-38.64281329
chr2	138279927	138279927	-	0	0	-31.92582319
chr2	138279930	138279930	-	0	0	-36.85432794
chr2	143852033	143852033	+	0.00085551	0.00776876	-26.78018576
chr2	143863033	143863033	+	0	0	-29.74615778
chr2	143863080	143863080	-	0	0	-27.27018752
chr2	145860505	145860505	-	0	0	-30.39436016
chr2	145860524	145860524	-	0	0	-31.60612207
chr2	145860527	145860527	-	0	0	-36.5354302
chr2	145860548	145860548	+	0	0	-26.6000861
chr2	145860555	145860555	+	0	0	-28.89326672
chr2	145860594	145860594	+	0	0	-29.63179906
chr2	145860595	145860595	-	0	0	-27.03821583
chr2	145860609	145860609	-	0	0	-29.71754386
chr2	145860619	145860619	-	0	0	-27.5885987
chr2	145860624	145860624	+	9.80E-06	0.00016256	-26.33053221
chr2	145860642	145860642	-	2.61E-09	8.14E-08	-35.56255909
chr2	145860645	145860645	-	2.14E-05	0.00032644	-26.23969562
chr2	145860648	145860648	-	2.18E-07	5.06E-06	-31.86127745
chr2	145860651	145860651	+	0	0	-30.06995644
chr2	145860652	145860652	-	2.47E-06	4.69E-05	-29.22305764
chr2	145860674	145860674	+	0	0	-30.79559137
chr2	145860703	145860703	-	0	0	-30.38033042
chr2	145860730	145860730	-	0	0	-28.0679412
chr2	145860735	145860735	-	0	0	-32.88802893
chr2	145860745	145860745	-	0	0	-31.83037819
chr2	145860748	145860748	+	1.42E-09	4.59E-08	-28.33852475
chr2	145860749	145860749	-	0	0	-29.60902256
chr2	146291236	146291236	-	0	0	-39.5387352
chr2	146291253	146291253	-	0	0	-39.9811219
chr2	146302418	146302418	+	0	0	-38.48016868
chr2	146302554	146302554	-	0	0	-38.50675782
chr2	146302570	146302570	-	0	0	-25.25247197
chr2	146959255	146959255	-	0	0	-37.49698355

chr2	147189394	147189394	+	1.05E-10	3.90E-09	-33.30071116
chr2	147189411	147189411	+	1.72E-10	6.23E-09	-40.29061203
chr2	147189434	147189434	+	5.39E-08	1.38E-06	-31.26420455
chr2	147189681	147189681	+	0	0	-26.5227727
chr2	148038569	148038569	-	0.00072022	0.00673794	-37.5
chr2	148043904	148043904	+	0	0	-35.01759486
chr2	148043930	148043930	+	0	0	-25.02102162
chr2	148395253	148395253	-	8.65E-07	1.80E-05	-31.06360043
chr2	148396178	148396178	+	1.90E-08	5.23E-07	-35.318439
chr2	148678074	148678074	+	0.00010704	0.0013371	-26.26262626
chr2	148679455	148679455	-	0.00044019	0.00446892	-28.13395021
chr2	148679472	148679472	+	0	0	-33.48526493
chr2	148679473	148679473	-	3.72E-05	0.00053104	-35.66041801
chr2	148679513	148679513	-	0	0	-28.41550306
chr2	151893682	151893682	-	0	0	-25.39853499
chr2	151964380	151964380	-	0	0	-28.66310556
chr2	151964622	151964622	-	0	0	-28.25089606
chr2	151964641	151964641	-	0	0	-29.89374728
chr2	151967395	151967395	-	3.82E-10	1.33E-08	-25.03538928
chr2	151970537	151970537	-	0.00016173	0.00190996	-30.54968288
chr2	151970554	151970554	-	5.29E-06	9.34E-05	-36.16680032
chr2	151970603	151970603	-	0	0	-25.38451037
chr2	151970605	151970605	-	0	0	-27.82019469
chr2	151970640	151970640	-	0	0	-32.45030267
chr2	151970652	151970652	-	0	0	-29.04900332
chr2	151970661	151970661	+	0	0	-31.67393752
chr2	151970793	151970793	+	0	0	-27.55667756
chr2	151970794	151970794	-	0	0	-29.5566392
chr2	151996847	151996847	+	2.22E-16	1.43E-14	-27.42067136
chr2	151999850	151999850	+	1.91E-13	9.46E-12	-44.12504492
chr2	151999873	151999873	+	3.88E-13	1.86E-11	-45.45454545
chr2	151999890	151999890	+	1.04E-14	5.82E-13	-52.14460784
chr2	152000081	152000081	+	0	0	-29.06388642
chr2	152000084	152000084	+	0	0	-27.48628233
chr2	152114698	152114698	-	0	0	-28.58269269
chr2	152114744	152114744	-	1.27E-13	6.39E-12	-25.9139618
chr2	152114876	152114876	-	0	0	-32.60056822
chr2	152114914	152114914	-	8.87E-11	3.32E-09	-26.75189394
chr2	152177678	152177678	-	0.00016178	0.00191044	-25.84142956
chr2	152376517	152376517	+	0	0	-38.72915671
chr2	152376518	152376518	-	0	0	-33.49576016

chr2	152376559	152376559	+	0	0	-35.61474784
chr2	152376560	152376560	-	0	0	-37.5869346
chr2	152376584	152376584	+	0	0	-43.3797099
chr2	152376611	152376611	-	0	0	-35.18452324
chr2	152376622	152376622	-	0	0	-30.84948167
chr2	152376624	152376624	-	0	0	-33.16046309
chr2	152376630	152376630	-	0	0	-37.38631851
chr2	152376644	152376644	+	0	0	-44.46770809
chr2	152395612	152395612	-	4.76E-08	1.23E-06	-31.58462091
chr2	152412733	152412733	-	0	0	-26.0376656
chr2	152413687	152413687	+	0	0	-26.03832603
chr2	152413718	152413718	+	0	0	-33.63462208
chr2	152413719	152413719	-	0	0	-60.8829948
chr2	152413741	152413741	-	0	0	-46.64737613
chr2	152413752	152413752	-	0	0	-52.73001343
chr2	152413765	152413765	+	0	0	-44.55601522
chr2	152413766	152413766	-	0	0	-46.40939811
chr2	152413785	152413785	+	0	0	-46.62853423
chr2	152413862	152413862	+	0	0	-55.44763748
chr2	152413863	152413863	-	0	0	-45.39826639
chr2	152413876	152413876	+	0	0	-46.62728629
chr2	152413877	152413877	-	0	0	-56.58543703
chr2	152413889	152413889	+	0	0	-53.58908279
chr2	152413890	152413890	-	0	0	-51.48853131
chr2	152413905	152413905	-	0	0	-32.17167629
chr2	152628261	152628261	-	2.17E-13	1.07E-11	-26.9298417
chr2	152628309	152628309	-	0	0	-25.6324715
chr2	152696244	152696244	+	8.81E-12	3.69E-10	-26.12086116
chr2	152707613	152707613	-	0	0	-33.41702426
chr2	152707615	152707615	-	0	0	-37.97067449
chr2	152707623	152707623	+	0	0	-43.48897474
chr2	152707624	152707624	-	0	0	-43.33599305
chr2	152707629	152707629	+	0	0	-41.75994356
chr2	152707638	152707638	+	0	0	-28.4473953
chr2	152707648	152707648	+	0	0	-36.23338073
chr2	152707655	152707655	+	0	0	-33.08206503
chr2	152707701	152707701	-	0	0	-40.343583
chr2	152707707	152707707	-	0	0	-30.8564165
chr2	152707729	152707729	-	0	0	-39.40803452
chr2	152707735	152707735	-	0	0	-45.42932005
chr2	152707741	152707741	-	0	0	-31.58454791

chr2	152707743	152707743	+	0	0	-42.57588335
chr2	152707744	152707744	-	0	0	-42.14354757
chr2	152707751	152707751	+	0	0	-34.27559913
chr2	152707764	152707764	+	0	0	-40.58052189
chr2	152707775	152707775	+	0	0	-39.16009361
chr2	152707786	152707786	+	0	0	-35.40141202
chr2	152707787	152707787	-	0	0	-35.98370634
chr2	152707793	152707793	+	0	0	-44.54941513
chr2	152707794	152707794	-	0	0	-42.87571411
chr2	152707801	152707801	-	0	0	-29.72522818
chr2	152707817	152707817	-	0	0	-37.60265047
chr2	152707821	152707821	-	0	0	-37.56084992
chr2	152707823	152707823	-	0	0	-36.46879338
chr2	152707831	152707831	-	0	0	-33.21920443
chr2	152707833	152707833	-	0	0	-35.69439021
chr2	152707836	152707836	+	1.48E-06	2.94E-05	-32.49893025
chr2	152707837	152707837	-	0	0	-33.32985707
chr2	152707857	152707857	+	1.35E-06	2.70E-05	-42.22222222
chr2	152707864	152707864	+	1.78E-09	5.67E-08	-50.52563828
chr2	152738225	152738225	+	0	0	-26.58578471
chr2	152740538	152740538	-	0	0	-34.29609204
chr2	152928533	152928533	-	0	0	-26.75427667
chr2	153268575	153268575	+	0	0	-27.46649009
chr2	153308894	153308894	+	0	0	-35.02366752
chr2	153308928	153308928	+	0	0	-28.98661838
chr2	153437218	153437218	+	0	0	-29.85088985
chr2	153437415	153437415	-	0	0	-39.15134371
chr2	153492105	153492105	-	0	0	-28.6724671
chr2	154427996	154427996	-	0	0	-29.32574266
chr2	154427999	154427999	-	0	0	-27.28320632
chr2	154428298	154428298	-	0	0	-27.09013307
chr2	154552045	154552045	+	0	0	-25.15023653
chr2	154552138	154552138	-	0	0	-25.4976613
chr2	154568192	154568192	+	8.42E-05	0.00108577	-27.97328811
chr2	154568221	154568221	+	1.92E-12	8.60E-11	-46.08841752
chr2	155047887	155047887	+	0.00023481	0.00262803	-33.29493088
chr2	155386600	155386600	+	0	0	-32.49476751
chr2	156408435	156408435	+	0.00059667	0.00576548	-25.97803706
chr2	156420632	156420632	-	0	0	-27.02373174
chr2	156420659	156420659	+	9.63E-07	1.99E-05	-30.02754821
chr2	156440153	156440153	+	5.77E-15	3.30E-13	-28.48437209

chr2	156440378	156440378	-	6.18E-06	0.00010738	-31.19025305
chr2	156704441	156704441	+	0	0	-25.84802221
chr2	156765081	156765081	+	0	0	-26.42958661
chr2	156774914	156774914	+	0	0	-33.0244716
chr2	156774915	156774915	-	9.77E-14	4.98E-12	-27.70417647
chr2	156775045	156775045	-	1.65E-06	3.25E-05	-37.91715579
chr2	156775093	156775093	+	7.18E-14	3.71E-12	-36.49702722
chr2	156775094	156775094	-	1.28E-10	4.71E-09	-34.90503716
chr2	156842466	156842466	+	0	0	-43.6570451
chr2	156842495	156842495	+	0	0	-35.92129274
chr2	156842513	156842513	+	0	0	-45.25318639
chr2	156842527	156842527	-	0	0	-56.18446503
chr2	156842536	156842536	-	0	0	-59.07218279
chr2	156842566	156842566	-	0	0	-63.40463686
chr2	156842572	156842572	-	0	0	-62.09753375
chr2	156842859	156842859	+	0	0	-39.63508557
chr2	157052198	157052198	-	1.44E-07	3.45E-06	-28.05924695
chr2	157059050	157059050	+	0	0	-49.44729689
chr2	157059082	157059082	+	0	0	-32.60774836
chr2	157059393	157059393	-	0	0	-29.34520269
chr2	157079866	157079866	-	3.39E-06	6.25E-05	-31.32411067
chr2	157079909	157079909	-	4.42E-05	0.00061956	-27.60600344
chr2	157079988	157079988	-	0	0	-35.43977283
chr2	157082265	157082265	+	0	0	-29.48015789
chr2	157082282	157082282	+	0	0	-27.72181842
chr2	157349387	157349387	-	4.55E-05	0.00063512	-37.50618506
chr2	157418313	157418313	-	1.22E-14	6.77E-13	-31.95248718
chr2	157418328	157418328	-	6.00E-12	2.55E-10	-27.69361174
chr2	157429649	157429649	+	1.92E-05	0.00029591	-27.69892473
chr2	157464834	157464834	+	3.25E-05	0.00047165	-36.99324324
chr2	157488115	157488115	-	7.94E-10	2.65E-08	-29.76100629
chr2	157490684	157490684	-	0	0	-29.27682419
chr2	157559574	157559574	+	0	0	-29.48935647
chr2	157559584	157559584	+	1.44E-15	8.70E-14	-28.26546316
chr2	157559590	157559590	+	2.64E-13	1.29E-11	-25.87951451
chr2	157559602	157559602	+	1.11E-16	7.26E-15	-28.82871226
chr2	157640746	157640746	-	0.00026285	0.00289449	-26.58008658
chr2	157705797	157705797	+	3.35E-11	1.32E-09	-26.39580603
chr2	157838323	157838323	+	0	0	-27.8542356
chr2	157838476	157838476	-	1.72E-11	6.98E-10	-27.18513143
chr2	158258868	158258868	-	0	0	-29.73524586



chr2	158282305	158282305	-	0	0	-25.55073783
chr2	158375940	158375940	-	0	0	-27.83130526
chr2	158397402	158397402	-	4.71E-05	0.00065485	-29.28229665
chr2	158539882	158539882	+	0	0	-27.71340402
chr2	158539893	158539893	+	5.55E-16	3.46E-14	-26.31911052
chr2	158539900	158539900	-	4.44E-16	2.79E-14	-26.48172419
chr2	158554601	158554601	+	0	0	-26.59206553
chr2	158666087	158666087	-	1.11E-16	7.26E-15	-25.70617865
chr2	158687830	158687830	+	0	0	-31.12686862
chr2	158775039	158775039	+	6.66E-16	4.13E-14	-25.38714527
chr2	158775251	158775251	-	5.97E-06	0.0001042	-25.87716535
chr2	158775265	158775265	-	6.08E-06	0.00010593	-27.55905512
chr2	160214855	160214855	-	5.29E-05	0.00072458	35.29411765
chr2	160741022	160741022	+	6.49E-06	0.00011223	-27.49128501
chr2	160741029	160741029	+	3.37E-10	1.18E-08	-33.08716707
chr2	160741192	160741192	-	2.39E-06	4.57E-05	-29.97462849
chr2	160741206	160741206	+	8.33E-15	4.69E-13	-26.20028431
chr2	160741207	160741207	-	1.29E-14	7.13E-13	-29.00210248
chr2	162942729	162942729	-	9.10E-15	5.11E-13	-34.13771583
chr2	163278150	163278150	+	0	0	-25.88886273
chr2	163397897	163397897	-	1.04E-05	0.00017076	27.6900149
chr2	163731939	163731939	-	0	0	-28.95899236
chr2	164006943	164006943	+	0	0	-25.27611709
chr2	164123445	164123445	+	2.39E-14	1.29E-12	-30.97363083
chr2	164170497	164170497	+	1.09E-05	0.00017888	-32.47401247
chr2	164170503	164170503	+	5.35E-07	1.16E-05	-34.12698413
chr2	164170526	164170526	+	6.88E-08	1.74E-06	-34.07494145
chr2	164171874	164171874	+	1.11E-16	7.26E-15	-37.4728886
chr2	164171880	164171880	+	3.33E-16	2.11E-14	-32.53039763
chr2	164171902	164171902	+	7.72E-09	2.25E-07	-25.02660282
chr2	164172124	164172124	-	0.00051927	0.00513429	-25.10885341
chr2	164403882	164403882	-	0.00076397	0.00707628	-32.08375549
chr2	164430756	164430756	+	0.00071217	0.00667573	-26.79104478
chr2	164432878	164432878	-	4.77E-11	1.84E-09	-34.25699621
chr2	164432883	164432883	+	0	0	-30.68050233
chr2	164432884	164432884	-	6.22E-15	3.55E-13	-36.60179641
chr2	164432889	164432889	+	0	0	-40.24945749
chr2	164432928	164432928	+	0	0	-43.17373338
chr2	164432990	164432990	-	0	0	-42.29437809
chr2	164433014	164433014	-	0	0	-43.66904198
chr2	164433017	164433017	+	1.09E-07	2.66E-06	-25.41166215

chr2	164433018	164433018	-	0	0	-38.5450645
chr2	164562840	164562840	+	0	0	-27.66273167
chr2	164562930	164562930	+	0	0	-43.70073282
chr2	164562931	164562931	-	0	0	-44.98654718
chr2	164563044	164563044	+	3.03E-07	6.87E-06	-31.66666667
chr2	164563045	164563045	-	1.11E-16	7.26E-15	-35.84037254
chr2	164563052	164563052	+	1.64E-07	3.88E-06	-35.38533835
chr2	164563356	164563356	+	0	0	-38.32794278
chr2	164563420	164563420	-	0	0	-42.29957489
chr2	164678937	164678937	-	1.32E-09	4.28E-08	-25.4909511
chr2	165107102	165107102	-	1.11E-16	7.26E-15	-28.41181165
chr2	165136574	165136574	+	0	0	-30.3281165
chr2	165136575	165136575	-	0	0	-31.02330575
chr2	165139892	165139892	+	0	0	-28.85859263
chr2	165140044	165140044	-	0	0	-33.04369852
chr2	165142084	165142084	+	0	0	-28.31670031
chr2	165142120	165142120	-	0	0	-28.39981064
chr2	165142122	165142122	-	0	0	-30.50614784
chr2	165142146	165142146	-	0	0	-29.81798448
chr2	165181118	165181118	-	1.80E-09	5.74E-08	-25.49702808
chr2	165235943	165235943	-	0	0	-31.82043651
chr2	165246222	165246222	+	4.89E-13	2.33E-11	-42.50413565
chr2	165246370	165246370	-	4.08E-08	1.07E-06	-34.31646631
chr2	165246397	165246397	+	0.0001017	0.00127965	-51.85185185
chr2	165246398	165246398	-	4.30E-14	2.27E-12	-55.18477661
chr2	165254029	165254029	+	0	0	-55.52643891
chr2	165254060	165254060	+	0	0	-45.75915513
chr2	165254061	165254061	-	0	0	-49.72077088
chr2	165254074	165254074	-	0	0	-52.59920725
chr2	165254402	165254402	+	1.11E-16	7.26E-15	-42.46287129
chr2	165258446	165258446	-	1.99E-06	3.85E-05	-32.29555832
chr2	165262286	165262286	-	9.23E-13	4.27E-11	-30.74074074
chr2	165267088	165267088	+	0	0	-32.67199387
chr2	165563079	165563079	-	4.43E-05	0.00062077	-28.76344086
chr2	165622700	165622700	-	5.66E-08	1.45E-06	-31.30399839
chr2	165647377	165647377	+	0	0	-33.23383766
chr2	165647515	165647515	-	1.35E-06	2.70E-05	-28.85154062
chr2	165708498	165708498	-	0	0	-27.16617396
chr2	165780441	165780441	+	5.86E-07	1.26E-05	-34.70930233
chr2	165792832	165792832	-	0	0	-30.14909415
chr2	165858149	165858149	+	0	0	-41.31626812

chr2	165858152	165858152	+	0	0	-49.16430492
chr2	165858160	165858160	+	0	0	-30.50729919
chr2	165858163	165858163	+	0	0	-49.58362077
chr2	165858190	165858190	+	0	0	-38.76229539
chr2	165858256	165858256	+	0	0	-30.9641203
chr2	165858257	165858257	-	0	0	-39.53315969
chr2	165858297	165858297	-	0	0	-44.66363809
chr2	165859197	165859197	-	3.93E-08	1.03E-06	-33.96789847
chr2	165875507	165875507	+	0	0	-30.70728451
chr2	165875539	165875539	+	0	0	-33.59696565
chr2	165875601	165875601	-	0	0	-27.10405124
chr2	165880645	165880645	+	4.93E-11	1.90E-09	-37.02109705
chr2	165880655	165880655	+	7.14E-09	2.09E-07	-31.79183623
chr2	165880904	165880904	-	0	0	-54.64011692
chr2	165900462	165900462	+	0	0	-35.67539023
chr2	165900492	165900492	+	0	0	-38.94133448
chr2	165900493	165900493	-	0	0	-45.32941102
chr2	165900510	165900510	+	0	0	-27.19951059
chr2	165900511	165900511	-	0	0	-38.81064536
chr2	165900537	165900537	+	0	0	-49.64676735
chr2	165900538	165900538	-	0	0	-48.18500239
chr2	165900543	165900543	+	0	0	-38.54930725
chr2	165900544	165900544	-	0	0	-37.72373221
chr2	165900562	165900562	+	0	0	-46.37550865
chr2	165900563	165900563	-	0	0	-42.53256515
chr2	165900590	165900590	+	0	0	-52.32258816
chr2	165900591	165900591	-	0	0	-53.0450835
chr2	165900602	165900602	+	0	0	-44.47977112
chr2	165900603	165900603	-	0	0	-47.06885807
chr2	165900620	165900620	-	0	0	-38.38626378
chr2	165901077	165901077	+	0	0	-37.81413679
chr2	165901105	165901105	+	0	0	-49.52800783
chr2	165901189	165901189	-	0	0	-27.18389495
chr2	166111932	166111932	+	0.0001335	0.00161874	34.7826087
chr2	166156222	166156222	-	1.31E-05	0.0002113	-25.14400922
chr2	166204360	166204360	-	0	0	-35.23992384
chr2	166204366	166204366	-	0	0	-28.47462003
chr2	166204371	166204371	-	0	0	-26.95059882
chr2	166295584	166295584	+	2.48E-07	5.71E-06	-34.32835821
chr2	166355528	166355528	+	0.00039697	0.00409845	-37.03703704
chr2	166384274	166384274	+	1.48E-06	2.95E-05	-39.47368421

chr2	166406124	166406124	-	0	0	-26.30385488
chr2	166489102	166489102	+	0	0	-26.76678078
chr2	166610319	166610319	-	0	0	-26.47502115
chr2	166622608	166622608	-	0	0	-27.94614919
chr2	166630064	166630064	+	3.85E-05	0.00054819	-25.22572324
chr2	166630087	166630087	+	0.00011896	0.00146467	-26.74818841
chr2	166631775	166631775	+	0	0	-30.10469468
chr2	166631842	166631842	-	0	0	-31.66348592
chr2	166631852	166631852	-	0	0	-29.98547868
chr2	166632333	166632333	-	0	0	-49.18575406
chr2	166632349	166632349	-	0	0	-34.21116715
chr2	166632381	166632381	-	0	0	-44.97251475
chr2	166647013	166647013	-	1.11E-16	7.26E-15	-29.07534699
chr2	166647027	166647027	-	0	0	-34.7731616
chr2	166657565	166657565	+	2.55E-15	1.51E-13	-26.37761669
chr2	166657566	166657566	-	0	0	-28.2480145
chr2	166666196	166666196	-	1.18E-06	2.40E-05	-32.07498716
chr2	167074475	167074475	+	0	0	-36.42706382
chr2	167188353	167188353	+	0	0	-29.9068966
chr2	167188430	167188430	-	0	0	-25.00426403
chr2	167188472	167188472	+	0	0	-31.26474088
chr2	167188484	167188484	+	0	0	-36.1670042
chr2	167188485	167188485	-	0	0	-31.34172818
chr2	167188502	167188502	-	0	0	-32.27688021
chr2	167188540	167188540	+	0	0	-26.22494402
chr2	167188550	167188550	+	0	0	-27.46435415
chr2	167538554	167538554	+	0	0	-36.18871944
chr2	167538555	167538555	-	0	0	-33.96471453
chr2	167538568	167538568	+	0	0	-33.76467394
chr2	167538569	167538569	-	0	0	-32.1007371
chr2	167538753	167538753	-	0	0	-38.89462366
chr2	167538797	167538797	-	1.05E-12	4.82E-11	-26.50756926
chr2	167538800	167538800	+	0	0	-31.71613814
chr2	167538801	167538801	-	0	0	-33.67597476
chr2	167538821	167538821	+	0	0	-45.3567051
chr2	167538826	167538826	+	0	0	-41.73816393
chr2	167538843	167538843	+	0	0	-33.99403834
chr2	167538865	167538865	-	0	0	-27.41988854
chr2	167540057	167540057	-	4.25E-12	1.84E-10	-40.22218916
chr2	167540106	167540106	-	3.18E-08	8.47E-07	-28.26593696
chr2	167541594	167541594	+	9.99E-07	2.06E-05	-30.92621664

chr2	167543447	167543447	+	5.28E-08	1.36E-06	-39.95121951
chr2	167560000	167560000	+	0	0	-27.56832463
chr2	167583350	167583350	+	0	0	-34.12773511
chr2	167583396	167583396	-	0	0	-32.9493699
chr2	167583507	167583507	-	0	0	-35.15715764
chr2	167586232	167586232	+	1.96E-07	4.59E-06	-41.70363798
chr2	167596919	167596919	+	0	0	-26.27244289
chr2	167597393	167597393	+	0	0	-25.85214749
chr2	167597414	167597414	+	9.00E-10	2.99E-08	-31.21132075
chr2	167597427	167597427	+	6.84E-10	2.30E-08	-30.85714286
chr2	167597428	167597428	-	0	0	-41.76047397
chr2	167597429	167597429	+	3.06E-09	9.45E-08	-32.89473684
chr2	167597449	167597449	+	0	0	-38.98669848
chr2	167597499	167597499	-	0	0	-26.72680685
chr2	167597518	167597518	+	0	0	-34.35399339
chr2	167597519	167597519	-	0	0	-34.04038109
chr2	167597532	167597532	-	0	0	-32.10680706
chr2	167597542	167597542	+	0	0	-30.36964664
chr2	167597543	167597543	-	0	0	-32.07902935
chr2	167597552	167597552	+	3.33E-16	2.11E-14	-27.01800866
chr2	167597555	167597555	+	0	0	-29.12196684
chr2	167597589	167597589	+	0	0	-40.87999698
chr2	167597590	167597590	-	0	0	-32.14161225
chr2	167597602	167597602	+	0	0	-37.7574876
chr2	167597603	167597603	-	0	0	-40.53326174
chr2	167597606	167597606	+	0	0	-36.23540617
chr2	167597607	167597607	-	9.30E-06	0.00015511	-31.64835165
chr2	167597621	167597621	+	0	0	-40.17572816
chr2	167597622	167597622	-	0	0	-43.25953619
chr2	167597645	167597645	+	0	0	-42.82821726
chr2	167597646	167597646	-	0	0	-41.87715561
chr2	167597661	167597661	+	0	0	-33.9071782
chr2	167597662	167597662	-	0	0	-35.72130282
chr2	167597705	167597705	-	0	0	-38.66497372
chr2	167599046	167599046	+	0	0	-28.67582302
chr2	167645533	167645533	+	0	0	-31.28692153
chr2	167645534	167645534	-	0.00042341	0.00432563	-36.06931145
chr2	167676187	167676187	-	8.95E-05	0.00114495	-27.9454023
chr2	167688436	167688436	+	0	0	-28.87039656
chr2	167702188	167702188	-	9.60E-08	2.37E-06	-27.29323308
chr2	167731387	167731387	-	1.16E-10	4.28E-09	-34.69269015

chr2	167747368	167747368	+	5.55E-16	3.46E-14	-36.71868747
chr2	167755292	167755292	+	6.72E-07	1.43E-05	-25.48920378
chr2	167755497	167755497	-	0	0	-37.35268695
chr2	167755501	167755501	+	0	0	-34.78398318
chr2	167755502	167755502	-	0	0	-37.17353717
chr2	167755508	167755508	+	0	0	-34.51492234
chr2	167755516	167755516	+	0	0	-29.8802516
chr2	167842135	167842135	-	1.01E-09	3.35E-08	-34.10273628
chr2	167842145	167842145	-	2.40E-08	6.50E-07	-29.1334262
chr2	167842156	167842156	-	2.29E-11	9.15E-10	-31.70600414
chr2	167852224	167852224	+	1.24E-14	6.89E-13	-29.30486594
chr2	167852225	167852225	-	0	0	-33.03282178
chr2	167852254	167852254	+	9.74E-05	0.00123232	-38.98496241
chr2	167920299	167920299	+	2.32E-10	8.29E-09	-29.02044855
chr2	167975407	167975407	+	3.58E-05	0.00051406	-25.43498168
chr2	167980524	167980524	+	1.38E-09	4.46E-08	-33.17377099
chr2	168115044	168115044	-	0	0	-29.90750899
chr2	168147826	168147826	-	0.0001584	0.00187627	-27.37449118
chr2	168262804	168262804	-	2.60E-14	1.40E-12	-34.01610443
chr2	168268743	168268743	+	0	0	-25.04141857
chr2	168268903	168268903	+	1.31E-05	0.00021004	-26.4957265
chr2	168273252	168273252	+	2.21E-06	4.25E-05	-27.73109244
chr2	168358804	168358804	+	0	0	-26.5634766
chr2	168359065	168359065	-	0	0	-39.43510338
chr2	168359070	168359070	-	0	0	-26.24928232
chr2	168384960	168384960	+	0.00102137	0.00898539	-30.76923077
chr2	168490070	168490070	+	1.18E-07	2.86E-06	-38.90577508
chr2	168527196	168527196	-	7.61E-05	0.00099483	-27.44539411
chr2	168546021	168546021	+	2.13E-11	8.54E-10	-27.37547893
chr2	168553613	168553613	+	0	0	-29.70548352
chr2	168553614	168553614	-	0	0	-27.78581835
chr2	168553771	168553771	+	0	0	-28.07812916
chr2	168562462	168562462	+	3.55E-05	0.00051028	-28.99799908
chr2	168562688	168562688	+	7.80E-12	3.28E-10	-28.04744526
chr2	168562689	168562689	-	1.69E-06	3.32E-05	-34.43570199
chr2	168596769	168596769	-	9.68E-13	4.47E-11	-32.65169741
chr2	168641894	168641894	-	0	0	-25.0629373
chr2	168767080	168767080	+	4.06E-05	0.00057538	-27.79561263
chr2	169033818	169033818	+	7.73E-05	0.00100825	-31.51920386
chr2	169702915	169702915	+	0	0	-26.09649513
chr2	169702916	169702916	-	7.66E-12	3.22E-10	-26.09870412

chr2	169758319	169758319	+	6.08E-08	1.55E-06	-32.23243496
chr2	170143600	170143600	-	1.01E-05	0.00016699	-31.09126984
chr2	170143602	170143602	-	4.38E-06	7.87E-05	-27.25177645
chr2	170176943	170176943	+	4.77E-15	2.75E-13	-33.09990663
chr2	170177058	170177058	-	5.05E-07	1.10E-05	-27.66955267
chr2	170177132	170177132	-	1.68E-14	9.18E-13	-29.38305085
chr2	170177163	170177163	+	0	0	-29.40410637
chr2	170177172	170177172	+	0	0	-28.55403058
chr2	170177263	170177263	-	1.59E-08	4.42E-07	-34.34179457
chr2	170177686	170177686	+	0	0	-34.25097441
chr2	170177767	170177767	-	0	0	-28.19385775
chr2	170177784	170177784	-	0	0	-27.5188453
chr2	170177794	170177794	-	0	0	-26.22086862
chr2	170177807	170177807	-	0	0	-34.20162325
chr2	170258631	170258631	-	8.42E-05	0.00108564	-27.2970297
chr2	170282628	170282628	+	1.04E-05	0.00017146	-25.77227011
chr2	170288478	170288478	-	0	0	-26.49664751
chr2	170288494	170288494	-	0	0	-27.41766562
chr2	170288496	170288496	+	1.14E-07	2.78E-06	-25.30513094
chr2	170288530	170288530	+	0	0	-32.63713597
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chr2	170288587	170288587	-	0	0	-32.06163767
chr2	170288599	170288599	-	0	0	-34.02060995
chr2	170288619	170288619	-	0	0	-39.10163736
chr2	170400453	170400453	+	5.51E-06	9.69E-05	-26.12781955
chr2	170411033	170411033	-	6.52E-05	0.00087015	-25.23370726
chr2	170438566	170438566	-	4.20E-09	1.27E-07	-52.94117647
chr2	170438824	170438824	-	1.47E-05	0.0002332	-36.57428442
chr2	170438857	170438857	-	2.10E-06	4.04E-05	-37.82141187
chr2	170494879	170494879	+	0.00053166	0.00523753	-25.80645161
chr2	170526631	170526631	-	2.09E-05	0.0003192	-41.21794872
chr2	172916397	172916397	+	2.30E-13	1.13E-11	-26.51570858
chr2	173020502	173020502	+	1.14E-07	2.78E-06	-43.44333478
chr2	173033886	173033886	+	0	0	-29.23610139
chr2	173033935	173033935	+	0	0	-30.86817423
chr2	173034032	173034032	-	0	0	-30.14682862
chr2	173044394	173044394	-	1.38E-05	0.00022049	-26.31941574
chr2	173050065	173050065	-	2.12E-13	1.05E-11	-32.82176281
chr2	173238769	173238769	+	0	0	-38.14323607
chr2	173238807	173238807	+	0	0	-38.38401908
chr2	173238808	173238808	-	0	0	-31.15245216

chr2	173251007	173251007	-	0	0	-36.02693603
chr2	173251035	173251035	-	0	0	-28.31087152
chr2	173251041	173251041	-	3.42E-13	1.65E-11	-25.15107158
chr2	173253903	173253903	+	1.03E-10	3.84E-09	-41.38714186
chr2	173254141	173254141	+	0	0	-25.01695524
chr2	173254159	173254159	+	0	0	-34.40760193
chr2	173254160	173254160	-	0	0	-31.42711711
chr2	173254204	173254204	+	3.85E-09	1.17E-07	-28.73517336
chr2	173264663	173264663	+	0	0	-26.38236615
chr2	173284610	173284610	+	8.50E-09	2.46E-07	-36.6703337
chr2	173284632	173284632	+	1.02E-06	2.09E-05	-25.84175084
chr2	173335059	173335059	+	0	0	-38.19165998
chr2	173335611	173335611	+	0	0	-32.09067066
chr2	173335641	173335641	+	0	0	-36.30904334
chr2	173335655	173335655	+	0	0	-27.36116917
chr2	173340083	173340083	+	0	0	-31.40481971
chr2	173340084	173340084	-	0	0	-32.01718857
chr2	173340143	173340143	-	0	0	-44.62315737
chr2	173809179	173809179	-	4.49E-12	1.94E-10	-30.17970313
chr2	174075243	174075243	-	0	0	-37.05651491
chr2	174075287	174075287	+	0	0	-42.11413083
chr2	174075288	174075288	-	0	0	-42.19527672
chr2	174075300	174075300	+	0	0	-33.78465506
chr2	174075301	174075301	-	0	0	-33.38000102
chr2	174075413	174075413	-	0	0	-39.93034826
chr2	174460442	174460442	-	2.20E-05	0.00033394	-44.44444444
chr2	174599416	174599416	-	0	0	-26.46088004
chr2	178120060	178120060	+	0.00063025	0.00603346	-26.07111629
chr2	178407245	178407245	-	9.99E-09	2.87E-07	-25.12525317
chr2	180071433	180071433	+	6.11E-05	0.00082249	-33.91304348
chr2	180224309	180224309	+	0.00052177	0.00515488	-26.04436762
chr2	180289814	180289814	-	0	0	-25.14597082
chr2	180337611	180337611	-	0.00029909	0.00322916	-28.53932584
chr2	180346067	180346067	+	3.82E-05	0.00054388	-27.30669082
chr2	180385570	180385570	+	7.33E-06	0.00012525	-28.0823402
chr2	180433548	180433548	-	4.64E-06	8.30E-05	-30.35714286
chr2	180472273	180472273	+	0	0	-31.32669462
chr2	180472394	180472394	+	0	0	-43.69317638
chr2	180472395	180472395	-	1.92E-14	1.05E-12	-33.2232052
chr2	180472585	180472585	-	0	0	-51.82606264
chr2	180472607	180472607	-	0	0	-37.23135272



chr2	180524879	180524879	-	1.22E-15	7.41E-14	-25.8610294
chr2	180897928	180897928	+	2.80E-06	5.26E-05	26.98301698
chr2	180952833	180952833	+	7.14E-05	0.00094191	-31.1486048
chr2	181319408	181319408	+	1.04E-06	2.13E-05	-26.53439153
chr2	181319414	181319414	+	8.34E-07	1.74E-05	-27.98811014
chr2	181352847	181352847	+	0.00018796	0.00217321	-27.08728653
chr2	181460439	181460439	-	0	0	-36.46584362
chr2	181670354	181670354	+	0	0	-46.38613125
chr2	181671703	181671703	-	0	0	-29.40503432
chr2	181696990	181696990	+	0.00059196	0.00572746	-28.57142857
chr3	5574949	5574949	-	1.58E-12	7.17E-11	-25.7598827
chr3	5574963	5574963	-	8.93E-11	3.34E-09	-27.33380682
chr3	8717713	8717713	-	0	0	-27.56166002
chr3	9034455	9034455	+	6.60E-05	0.00087969	-48.06324111
chr3	9034456	9034456	-	2.66E-15	1.57E-13	-34.6092504
chr3	9065256	9065256	+	9.30E-07	1.92E-05	-27.01445632
chr3	9347891	9347891	+	0	0	-31.23669006
chr3	9428014	9428014	-	0.00024153	0.00269238	-29.33563417
chr3	14863492	14863492	-	0	0	-25.68834178
chr3	18625440	18625440	+	0	0	-27.71598816
chr3	19060391	19060391	+	0	0	-28.53964174
chr3	19304671	19304671	-	1.81E-12	8.13E-11	-44.12515361
chr3	19304686	19304686	-	3.08E-11	1.21E-09	-38.24544583
chr3	25398732	25398732	+	0.0002387	0.00266556	-26.60581474
chr3	27283075	27283075	-	1.12E-14	6.24E-13	-43.28644501
chr3	27283102	27283102	-	5.02E-11	1.93E-09	-38.62958227
chr3	27283107	27283107	+	0	0	-34.29520712
chr3	27283108	27283108	-	1.41E-07	3.39E-06	-31.61764706
chr3	27283113	27283113	+	0	0	-32.24887702
chr3	27283204	27283204	-	0	0	-31.34519108
chr3	27283214	27283214	-	0	0	-28.0058651
chr3	27283222	27283222	-	0	0	-37.90854392
chr3	27374767	27374767	-	0.00063214	0.00604857	-26.09707447
chr3	28781972	28781972	-	0	0	-28.95883544
chr3	30144154	30144154	+	9.35E-13	4.33E-11	-27.70002427
chr3	30304634	30304634	+	0	0	-31.20412778
chr3	30438184	30438184	+	0	0	-29.61133489
chr3	30438329	30438329	-	0	0	-25.3593928
chr3	30438351	30438351	+	0	0	-26.41615593
chr3	30516012	30516012	-	0	0	-48.92466068
chr3	30516036	30516036	-	7.51E-09	2.19E-07	-29.02439024

chr3	34679489	34679489	+	2.99E-05	0.00043835	-26.67641326
chr3	35693709	35693709	-	5.32E-12	2.28E-10	-27.96960307
chr3	36835802	36835802	+	9.70E-12	4.04E-10	-26.99008309
chr3	36835852	36835852	+	7.12E-12	3.01E-10	-28.32290363
chr3	36835958	36835958	-	0	0	-37.91680883
chr3	36835987	36835987	-	0	0	-32.37040031
chr3	36835998	36835998	-	0	0	-30.08091092
chr3	37181535	37181535	-	9.51E-10	3.15E-08	-28.25767505
chr3	37596099	37596099	-	0	0	-26.59336748
chr3	37667994	37667994	-	0	0	-30.25859077
chr3	37686462	37686462	+	0	0	-28.89842727
chr3	37686478	37686478	+	0	0	-30.71348194
chr3	37686479	37686479	-	0	0	-25.34944691
chr3	37686503	37686503	+	0	0	-36.47422606
chr3	37686504	37686504	-	0	0	-31.23531796
chr3	37686931	37686931	-	1.32E-06	2.65E-05	-25.69573284
chr3	41409187	41409187	+	3.99E-07	8.84E-06	-29.73383568
chr3	41445978	41445978	-	7.70E-13	3.59E-11	-38.72737664
chr3	41446028	41446028	-	5.61E-09	1.67E-07	-29.96948561
chr3	41497743	41497743	-	0	0	-27.16309252
chr3	41497751	41497751	+	0	0	-25.26169794
chr3	41497752	41497752	-	0	0	-29.56534676
chr3	41497777	41497777	+	0	0	-29.39624853
chr3	41497778	41497778	-	0	0	-33.16234374
chr3	41581227	41581227	+	0	0	-26.13841275
chr3	41604502	41604502	+	1.51E-07	3.60E-06	-26.84799547
chr3	41607405	41607405	-	3.82E-05	0.0005438	-26.82926829
chr3	51223862	51223862	+	0.0008348	0.00761257	-29.62962963
chr3	51397902	51397902	+	3.80E-05	0.00054173	-26.74089069
chr3	51503389	51503389	-	0	0	-27.37825257
chr3	51673773	51673773	-	0	0	-26.41374945
chr3	52003411	52003411	+	7.08E-07	1.50E-05	-31.43921751
chr3	52044998	52044998	-	1.74E-09	5.56E-08	-33.14523484
chr3	52176584	52176584	-	1.34E-08	3.77E-07	-28.13449394
chr3	52393389	52393389	-	0	0	-32.63898881
chr3	52641051	52641051	+	7.25E-05	0.00095419	-25.80645161
chr3	52890975	52890975	-	0	0	-34.33104008
chr3	53044923	53044923	-	0	0	-29.17337473
chr3	57516226	57516226	+	2.40E-10	8.54E-09	-30.28169014
chr3	57516227	57516227	-	1.36E-06	2.72E-05	-39.86013986
chr3	58237135	58237135	-	0.00066496	0.00630899	-34.75274725

chr3	58237140	58237140	-	0.00032413	0.00345614	-32.6007326
chr3	58987284	58987284	+	0	0	-35.06286278
chr3	58987297	58987297	+	0	0	-38.33637683
chr3	58987298	58987298	-	0	0	-31.09885175
chr3	58987319	58987319	+	0	0	-35.31354598
chr3	58987320	58987320	-	0	0	-31.35739496
chr3	58987321	58987321	+	0	0	-38.6864334
chr3	58987322	58987322	-	0	0	-37.94480926
chr3	59258099	59258099	+	8.79E-10	2.92E-08	-38.65612648
chr3	59258124	59258124	+	4.76E-13	2.27E-11	-45.17786561
chr3	59258148	59258148	+	1.42E-09	4.59E-08	-38.62928349
chr3	62340212	62340212	+	0	0	-46.35159065
chr3	62340364	62340364	-	2.07E-06	3.99E-05	-33.07890563
chr3	62340391	62340391	-	4.43E-08	1.15E-06	-35.28753636
chr3	65174607	65174607	+	0.00040378	0.00415722	50.79051383
chr3	65494591	65494591	+	7.77E-16	4.79E-14	-31.08108108
chr3	65494899	65494899	-	3.34E-10	1.17E-08	-30.26881006
chr3	65871178	65871178	+	3.32E-12	1.45E-10	-30.77175267
chr3	65871192	65871192	+	0	0	-43.85091443
chr3	65871271	65871271	-	1.21E-14	6.71E-13	-29.96162834
chr3	65871300	65871300	-	0	0	-51.51656315
chr3	68375240	68375240	-	5.38E-10	1.84E-08	-32.21971849
chr3	68386030	68386030	-	5.73E-05	0.00077683	-42.74092616
chr3	68495966	68495966	-	2.38E-14	1.28E-12	-27.36463094
chr3	68967656	68967656	+	0	0	-41.32742464
chr3	68967794	68967794	-	0	0	-30.04329004
chr3	79181782	79181782	+	7.62E-08	1.91E-06	-25.90496157
chr3	79549343	79549343	-	2.68E-05	0.0003979	-28.10701956
chr3	79593975	79593975	-	0.00041408	0.00424574	-33.83364603
chr3	80019440	80019440	+	0.00050399	0.00500747	-31.65217391
chr3	80801363	80801363	-	2.80E-06	5.27E-05	-26.24920669
chr3	83988720	83988720	+	2.33E-15	1.38E-13	-31.89469564
chr3	84129543	84129543	+	0	0	-33.05556718
chr3	84129563	84129563	+	0	0	-25.7323417
chr3	84129667	84129667	-	0	0	-27.17322479
chr3	84229135	84229135	-	0	0	-31.55634604
chr3	84229246	84229246	-	0	0	-32.09643367
chr3	84229265	84229265	-	0	0	-38.727897
chr3	84235516	84235516	+	0	0	-25.6058474
chr3	84270672	84270672	-	0	0	-26.48410415
chr3	84306004	84306004	-	9.26E-05	0.00117995	-31.37829912

chr3	84337411	84337411	-	3.71E-06	6.78E-05	-37.15728716
chr3	84446282	84446282	+	0	0	-25.1433762
chr3	84446329	84446329	-	0	0	-25.84899055
chr3	84479225	84479225	-	0	0	-52.28154802
chr3	84479229	84479229	-	3.33E-16	2.11E-14	-27.50645498
chr3	84557941	84557941	-	1.87E-05	0.00028997	-30.69072353
chr3	84665728	84665728	+	0	0	-26.35791091
chr3	84665729	84665729	-	0	0	-32.8485854
chr3	85064358	85064358	-	1.50E-05	0.0002382	-31.0877193
chr3	85174733	85174733	-	3.09E-05	0.00045114	-37.20685112
chr3	85174757	85174757	+	2.19E-11	8.79E-10	-28.41240912
chr3	85174758	85174758	-	0.00084467	0.00768714	-29.36877076
chr3	85186668	85186668	+	9.37E-05	0.00119167	-25.9954844
chr3	85993931	85993931	+	0	0	-26.35844005
chr3	85993969	85993969	+	0	0	-25.22200898
chr3	86550182	86550182	+	0	0	-70.97091195
chr3	86550203	86550203	+	0	0	-69.57858564
chr3	87093623	87093623	-	0	0	-34.82707025
chr3	87093634	87093634	-	1.99E-11	8.00E-10	-25.83882994
chr3	87748559	87748559	-	5.09E-12	2.18E-10	-25.94297492
chr3	87778608	87778608	+	1.59E-13	7.93E-12	-29.72022033
chr3	87809396	87809396	+	1.75E-11	7.11E-10	-47.72727273
chr3	87810101	87810101	+	0	0	-27.47711453
chr3	87810102	87810102	-	1.55E-14	8.54E-13	-28.85638043
chr3	87810107	87810107	+	0	0	-36.5529142
chr3	87810111	87810111	+	8.22E-15	4.63E-13	-26.99293872
chr3	87810306	87810306	-	0	0	-26.00263604
chr3	87816285	87816285	+	3.76E-05	0.00053604	-26.69509595
chr3	87959539	87959539	-	0	0	-29.9772833
chr3	87972852	87972852	+	0	0	-29.36903358
chr3	87972853	87972853	-	4.54E-12	1.96E-10	-35.27607362
chr3	87972886	87972886	+	0	0	-27.98824508
chr3	87972978	87972978	-	0	0	-36.52799378
chr3	87983516	87983516	-	0	0	-56.03945654
chr3	87983537	87983537	-	0	0	-55.97870598
chr3	87983563	87983563	-	3.74E-12	1.63E-10	-28.73237873
chr3	88030863	88030863	+	5.26E-08	1.35E-06	-32.47499468
chr3	88158025	88158025	+	0	0	-35.9764444
chr3	88158077	88158077	+	0	0	-31.54652981
chr3	88158128	88158128	-	0	0	-32.63922377
chr3	88158130	88158130	+	0	0	-30.70679155

chr3	88158163	88158163	+	0	0	-43.443099
chr3	88158164	88158164	-	0	0	-35.0389266
chr3	88158206	88158206	+	7.54E-09	2.20E-07	-28.17498176
chr3	88158222	88158222	+	1.46E-10	5.33E-09	-25.94487463
chr3	88170522	88170522	+	2.09E-07	4.87E-06	-33.36880187
chr3	88221996	88221996	+	5.46E-07	1.18E-05	-25.51209104
chr3	88333117	88333117	+	4.10E-07	9.06E-06	-26.74936387
chr3	88364569	88364569	+	0	0	-26.7735417
chr3	88364570	88364570	-	0	0	-25.48115801
chr3	88364584	88364584	+	0	0	-35.80510065
chr3	88364585	88364585	-	0	0	-25.72126759
chr3	88364592	88364592	+	2.96E-12	1.30E-10	-26.63775645
chr3	88364599	88364599	-	0	0	-25.15938623
chr3	88364609	88364609	-	0	0	-25.84268898
chr3	88366237	88366237	-	0	0	-26.20548027
chr3	88366245	88366245	-	0	0	-25.6736457
chr3	88493399	88493399	-	0	0	-26.59712305
chr3	88536361	88536361	-	0	0	-37.80794369
chr3	88536383	88536383	-	0	0	-38.31320195
chr3	88536402	88536402	+	4.44E-16	2.79E-14	-42.30780581
chr3	88536403	88536403	-	0	0	-47.24489084
chr3	88536408	88536408	+	4.01E-13	1.93E-11	-36.8451008
chr3	88536409	88536409	-	3.70E-07	8.25E-06	-25.86726998
chr3	88536410	88536410	+	0	0	-42.59053954
chr3	88536411	88536411	-	2.90E-08	7.79E-07	-29.91797329
chr3	88536416	88536416	+	1.11E-16	7.26E-15	-41.20660216
chr3	88536417	88536417	-	4.50E-14	2.37E-12	-38.76190476
chr3	88536432	88536432	-	1.96E-10	7.07E-09	-34.9847561
chr3	88536439	88536439	+	0	0	-40.52174349
chr3	88536446	88536446	+	0	0	-52.82613928
chr3	88536447	88536447	-	0	0	-53.17163962
chr3	88536453	88536453	+	0	0	-43.53026225
chr3	88536454	88536454	-	0	0	-45.19944712
chr3	88536457	88536457	+	0	0	-49.00748234
chr3	88536458	88536458	-	0	0	-50.76360814
chr3	88536459	88536459	+	0	0	-51.35790141
chr3	88536460	88536460	-	0	0	-50.57975947
chr3	88536470	88536470	+	0	0	-50.60625463
chr3	88536471	88536471	-	0	0	-58.0224681
chr3	88536475	88536475	+	0	0	-50.09328918
chr3	88536476	88536476	-	0	0	-58.02476632

chr3	88536482	88536482	+	0	0	-48.45867038
chr3	88536483	88536483	-	0	0	-55.14044539
chr3	88536489	88536489	+	0	0	-54.11199219
chr3	88536490	88536490	-	0	0	-55.65774251
chr3	88536494	88536494	+	0	0	-39.42168942
chr3	88536495	88536495	-	0	0	-36.13905325
chr3	88536518	88536518	+	0	0	-34.99975251
chr3	88536521	88536521	+	0	0	-48.9434201
chr3	88536524	88536524	+	0	0	-45.4284083
chr3	88536682	88536682	-	0	0	-28.09019442
chr3	88536690	88536690	-	0	0	-36.59474206
chr3	88536699	88536699	-	0	0	-32.40948639
chr3	88536717	88536717	-	0	0	-30.78431373
chr3	88536730	88536730	+	0	0	-53.92278954
chr3	88536731	88536731	-	0	0	-30.29291835
chr3	88536737	88536737	+	0	0	-54.58333333
chr3	88536755	88536755	+	0	0	-53.96392487
chr3	88536767	88536767	+	0	0	-64.17865707
chr3	88536888	88536888	-	0	0	-47.25213917
chr3	88536890	88536890	-	0	0	-37.93509975
chr3	88536895	88536895	-	0	0	-48.89736022
chr3	88536914	88536914	-	0	0	-45.33187026
chr3	88536933	88536933	-	0	0	-37.58605374
chr3	88536953	88536953	+	0	0	-26.14274955
chr3	88542328	88542328	+	4.74E-09	1.42E-07	-25.04383105
chr3	88649364	88649364	+	2.21E-06	4.24E-05	-30.51739927
chr3	88650676	88650676	-	1.49E-06	2.96E-05	-37.1957672
chr3	89244197	89244197	+	0	0	-30.11132806
chr3	89244257	89244257	-	0	0	-30.89318012
chr3	89244321	89244321	+	0	0	-38.87578005
chr3	89244469	89244469	-	3.11E-15	1.82E-13	-27.53325942
chr3	89281702	89281702	+	0.00010998	0.00136833	-31.50105708
chr3	89327515	89327515	+	0	0	-25.30312566
chr3	89348436	89348436	+	0	0	-31.44272812
chr3	89348437	89348437	-	2.35E-05	0.00035483	-33.64296081
chr3	89348479	89348479	+	0	0	-35.36004396
chr3	89349133	89349133	-	0	0	-28.85952606
chr3	89379903	89379903	+	0	0	-28.41225745
chr3	89390174	89390174	+	0.00095847	0.0085281	-30
chr3	89391186	89391186	-	1.97E-07	4.61E-06	-51.11627907
chr3	89391214	89391214	-	1.14E-09	3.74E-08	-55.49630845

chr3	89799729	89799729	+	0	0	-25.46977264
chr3	89799879	89799879	+	0	0	-25.55875941
chr3	89799880	89799880	-	0	0	-28.87556892
chr3	89830697	89830697	-	0	0	-26.14608712
chr3	89831984	89831984	-	0	0	-34.72691692
chr3	89833637	89833637	+	0	0	-30.76405821
chr3	89906239	89906239	+	0	0	-29.13238862
chr3	89913952	89913952	+	0	0	-31.28579893
chr3	90243504	90243504	+	0	0	-31.51450466
chr3	90243514	90243514	+	0	0	-25.17443025
chr3	90243570	90243570	+	0	0	-27.60143028
chr3	90243571	90243571	-	0	0	-28.51876087
chr3	90243598	90243598	+	0	0	-33.5929633
chr3	90243607	90243607	+	0	0	-31.88465294
chr3	90243615	90243615	+	0	0	-29.37921179
chr3	90243671	90243671	+	3.06E-14	1.64E-12	-32.30769231
chr3	90243672	90243672	-	0	0	-31.3855974
chr3	90464646	90464646	+	0	0	-42.39161161
chr3	90464724	90464724	-	0	0	-36.7618756
chr3	90464747	90464747	+	0	0	-36.06768737
chr3	90464748	90464748	-	0	0	-34.5475068
chr3	90464759	90464759	+	0	0	-30.24455389
chr3	90464761	90464761	+	0	0	-34.4501097
chr3	90464763	90464763	+	0	0	-32.1156437
chr3	90464772	90464772	+	0	0	-30.89620993
chr3	94371828	94371828	+	1.89E-13	9.35E-12	-43.80952381
chr3	94485526	94485526	-	0	0	-26.68918919
chr3	95014029	95014029	-	0	0	-26.94060008
chr3	95024849	95024849	+	0	0	-29.28962781
chr3	95024854	95024854	+	0	0	-28.19429756
chr3	95140393	95140393	+	3.33E-11	1.31E-09	-26.62337662
chr3	95172573	95172573	+	5.40E-07	1.17E-05	-42.85714286
chr3	95172594	95172594	+	1.87E-07	4.39E-06	-39.43661972
chr3	95172619	95172619	+	0	0	-33.70588235
chr3	95172620	95172620	-	0	0	-25.49408627
chr3	95172633	95172633	-	0	0	-26.84038928
chr3	95172676	95172676	+	0	0	-35.60428059
chr3	95172681	95172681	+	0	0	-39.63785327
chr3	95172725	95172725	-	0	0	-33.2303437
chr3	95172731	95172731	-	0	0	-32.67568003
chr3	95172736	95172736	-	0	0	-30.44749313

chr3	95172738	95172738	-	0	0	-26.43624668
chr3	95172757	95172757	-	0	0	-34.74814977
chr3	95172772	95172772	+	0	0	-28.68085442
chr3	95172780	95172780	+	0	0	-39.60231618
chr3	95172795	95172795	+	0	0	-37.79456183
chr3	95172812	95172812	+	0	0	-29.21652922
chr3	95172835	95172835	-	0	0	-32.39229999
chr3	95172851	95172851	-	0	0	-37.64431098
chr3	95172860	95172860	-	0	0	-32.36367034
chr3	95172866	95172866	-	0	0	-27.33323925
chr3	95172882	95172882	-	0	0	-26.93803024
chr3	95172951	95172951	+	9.99E-16	6.10E-14	-26.94444444
chr3	95173046	95173046	-	0	0	-25.02922718
chr3	95173100	95173100	+	0	0	-29.73376009
chr3	95232045	95232045	-	0	0	-25.87301016
chr3	95232078	95232078	-	0	0	-28.80766092
chr3	95240893	95240893	-	0	0	-31.03608347
chr3	95240923	95240923	-	0	0	-27.19843842
chr3	95240927	95240927	-	0	0	-31.52134368
chr3	95241141	95241141	-	2.15E-10	7.72E-09	-31.04210899
chr3	95241177	95241177	+	0	0	-46.29932986
chr3	95241178	95241178	-	4.27E-14	2.25E-12	-39.04109589
chr3	95681529	95681529	+	0	0	-31.61801019
chr3	95681570	95681570	+	0	0	-36.51151887
chr3	95681574	95681574	+	0	0	-31.71638408
chr3	95681673	95681673	-	2.28E-08	6.22E-07	-39.90812518
chr3	95681703	95681703	+	0	0	-30.26757985
chr3	95681704	95681704	-	1.16E-08	3.31E-07	-42.64870932
chr3	95681797	95681797	-	0	0	-26.05078273
chr3	95684229	95684229	-	0	0	-49.06363414
chr3	95684234	95684234	+	6.16E-06	0.00010718	-32.76333789
chr3	95684235	95684235	-	0	0	-33.59966181
chr3	95684281	95684281	+	7.44E-07	1.57E-05	-34.57142857
chr3	96464130	96464130	+	0	0	-33.58863393
chr3	96464480	96464480	-	8.98E-10	2.98E-08	-27.7258567
chr3	96465888	96465888	+	0	0	-28.29338076
chr3	96465948	96465948	-	2.22E-16	1.43E-14	-35.97673473
chr3	96528490	96528490	-	0	0	-29.90540404
chr3	96598917	96598917	-	0	0	-35.85974784
chr3	96598964	96598964	+	0	0	-33.19073916
chr3	96598983	96598983	+	0	0	-34.10136986



chr3	96599129	96599129	-	3.33E-16	2.11E-14	-27.76163431
chr3	96937858	96937858	+	2.39E-05	0.00035942	-25.49781104
chr3	97209903	97209903	+	0.00011788	0.00145277	-33.26669332
chr3	97254673	97254673	-	5.55E-14	2.90E-12	-25.97305311
chr3	97312123	97312123	+	2.93E-10	1.03E-08	-26.7316366
chr3	97312140	97312140	+	0	0	-33.62686873
chr3	97312290	97312290	-	0	0	-40.19041506
chr3	97312299	97312299	-	0	0	-39.68287037
chr3	97312305	97312305	-	0	0	-42.10640249
chr3	97312311	97312311	-	0	0	-36.99331596
chr3	97312319	97312319	-	0	0	-31.86336562
chr3	97546427	97546427	-	1.94E-12	8.70E-11	-33.83966245
chr3	98019175	98019175	-	1.89E-15	1.13E-13	-25.91182443
chr3	98019185	98019185	+	7.77E-16	4.79E-14	-27.17439075
chr3	98024541	98024541	+	0	0	-31.39952902
chr3	98024551	98024551	+	0	0	-32.31444339
chr3	98024559	98024559	+	0	0	-32.256783
chr3	98024636	98024636	-	0	0	-34.63118581
chr3	98991519	98991519	-	3.04E-07	6.89E-06	28.02236198
chr3	100994093	100994093	-	9.46E-06	0.00015742	42.30769231
chr3	101130963	101130963	+	0.00069178	0.00651716	-35.16483516
chr3	101161710	101161710	+	4.94E-08	1.28E-06	-26.7441597
chr3	101161741	101161741	+	0	0	-28.35832707
chr3	101161742	101161742	-	8.53E-13	3.96E-11	-34.27086369
chr3	101387977	101387977	+	8.14E-07	1.70E-05	-31.09642094
chr3	101387986	101387986	+	7.86E-12	3.30E-10	-43.2367829
chr3	101387989	101387989	+	9.94E-13	4.59E-11	-44.74676724
chr3	101409183	101409183	-	0.0001977	0.00226874	-31.9047619
chr3	101419651	101419651	-	6.00E-13	2.83E-11	-28.25641026
chr3	101653676	101653676	+	2.33E-05	0.00035257	-45.16129032
chr3	101713145	101713145	+	3.17E-08	8.45E-07	-26.14652208
chr3	101713407	101713407	+	0	0	-30.28866934
chr3	101713543	101713543	-	0	0	-28.64633919
chr3	102081671	102081671	+	9.19E-09	2.65E-07	-26.77350427
chr3	102135972	102135972	-	3.01E-13	1.46E-11	-29.73263076
chr3	103147204	103147204	+	3.28E-05	0.00047649	-35.48387097
chr3	103375542	103375542	+	0	0	-25.90090156
chr3	103375543	103375543	-	1.11E-16	7.26E-15	-28.45441825
chr3	103375710	103375710	-	0	0	-30.28406228
chr3	103537946	103537946	+	5.96E-09	1.77E-07	-28.61852053
chr3	103803008	103803008	+	0	0	-26.48899543

chr3	104226952	104226952	+	0	0	-27.8010878
chr3	104541799	104541799	-	8.36E-11	3.14E-09	-42.75281382
chr3	104541813	104541813	-	2.69E-08	7.24E-07	-37.46312684
chr3	104560448	104560448	-	0.00063027	0.00603364	-37.04545455
chr3	104784083	104784083	+	0	0	-29.45777946
chr3	104784113	104784113	+	0	0	-29.33371614
chr3	104789880	104789880	+	0	0	-38.18226484
chr3	104789899	104789899	+	0	0	-39.51813392
chr3	104789990	104789990	-	0	0	-30.07502158
chr3	104790002	104790002	+	0	0	-25.93559446
chr3	104790003	104790003	-	0	0	-40.36027924
chr3	104790061	104790061	-	0	0	-36.03413546
chr3	104790087	104790087	-	0	0	-33.26932627
chr3	104790149	104790149	-	0	0	-25.88279339
chr3	104793932	104793932	+	0	0	-38.67910801
chr3	104793940	104793940	+	0	0	-42.96572286
chr3	104793964	104793964	-	0	0	-42.90568382
chr3	104793988	104793988	-	0	0	-37.72722414
chr3	104793992	104793992	-	0	0	-45.31530002
chr3	104794006	104794006	-	0	0	-32.0009079
chr3	104794020	104794020	+	5.17E-05	0.00070982	-40.82719083
chr3	104794230	104794230	-	4.22E-14	2.23E-12	-28.4523378
chr3	105036706	105036706	+	0	0	-26.26040393
chr3	105529846	105529846	+	0	0	-25.96164429
chr3	105529847	105529847	-	9.95E-10	3.29E-08	-28.63598705
chr3	105529906	105529906	-	0	0	-28.57123231
chr3	105546715	105546715	-	0	0	-27.00067438
chr3	105704214	105704214	+	0.00053629	0.00527622	-37.10541989
chr3	105704234	105704234	+	6.53E-05	0.00087126	-29.0263319
chr3	105718376	105718376	+	4.72E-07	1.03E-05	-25.33783784
chr3	105894064	105894064	+	1.15E-07	2.81E-06	-27.22505958
chr3	108197366	108197366	+	0	0	-34.29149798
chr3	108197374	108197374	+	0	0	-52.04869623
chr3	108197375	108197375	-	0	0	-49.48465972
chr3	108197401	108197401	+	0	0	-52.04678816
chr3	108197402	108197402	-	0	0	-54.84357262
chr3	108197411	108197411	+	0	0	-42.21435794
chr3	108197412	108197412	-	0	0	-46.65872955
chr3	108197423	108197423	+	0	0	-56.34682659
chr3	108197431	108197431	+	0	0	-50.76149786
chr3	108197435	108197435	+	0	0	-42.0608193

chr3	108197449	108197449	+	6.66E-16	4.13E-14	-38.45438552
chr3	108197634	108197634	-	1.96E-11	7.91E-10	-36.84781136
chr3	108392621	108392621	+	1.60E-09	5.12E-08	-42.62605042
chr3	108398737	108398737	+	2.80E-07	6.38E-06	-31.93760263
chr3	108713176	108713176	-	3.60E-14	1.91E-12	-26.31585531
chr3	108730437	108730437	+	0	0	-30.85603194
chr3	108730486	108730486	-	0	0	-34.88842494
chr3	108881213	108881213	+	0	0	-30.7456756
chr3	115094891	115094891	-	4.36E-11	1.69E-09	-29.54610607
chr3	116105037	116105037	+	0	0	-26.77570093
chr3	116105072	116105072	+	0	0	-28.56267507
chr3	116105106	116105106	+	3.70E-06	6.76E-05	-38.0952381
chr3	116105338	116105338	-	2.36E-07	5.45E-06	-38.16091954
chr3	121364915	121364915	+	1.11E-16	7.26E-15	-26.32391714
chr3	121481932	121481932	+	4.63E-09	1.40E-07	-27.51115213
chr3	121532042	121532042	-	1.28E-12	5.85E-11	-29.56754894
chr3	121532088	121532088	+	0	0	-31.58563326
chr3	121532089	121532089	-	5.20E-12	2.23E-10	-27.38933302
chr3	121532094	121532094	+	0	0	-29.76891935
chr3	121532128	121532128	+	0	0	-33.80511899
chr3	121723948	121723948	+	0	0	-32.09299349
chr3	121886611	121886611	+	7.29E-09	2.14E-07	-34.66771138
chr3	121900457	121900457	-	1.43E-07	3.42E-06	-27.88668143
chr3	121900461	121900461	-	4.86E-07	1.06E-05	-27.03896104
chr3	122033248	122033248	+	1.17E-05	0.00018989	-48.86018237
chr3	122033439	122033439	-	1.68E-09	5.36E-08	-27.44840749
chr3	122033468	122033468	-	4.64E-11	1.80E-09	-33.53908244
chr3	122043831	122043831	+	1.11E-15	6.76E-14	-34.03202329
chr3	122044010	122044010	+	0	0	-43.74588972
chr3	122044011	122044011	-	0	0	-46.98233473
chr3	122044036	122044036	+	0	0	-46.73061489
chr3	122044118	122044118	+	0	0	-37.87815432
chr3	122044119	122044119	-	0	0	-41.7042688
chr3	122044222	122044222	-	0	0	-37.01301641
chr3	122044242	122044242	+	0	0	-57.83969577
chr3	122044243	122044243	-	0	0	-49.32556534
chr3	122044265	122044265	+	0	0	-46.51162791
chr3	122044270	122044270	+	0	0	-59.93464052
chr3	122044277	122044277	+	2.70E-13	1.32E-11	-47.90725685
chr3	122044453	122044453	-	5.36E-05	0.00073363	-31.67420814
chr3	122044467	122044467	-	5.36E-05	0.00073363	-31.67420814

chr3	122044478	122044478	-	1.21E-05	0.00019641	-30.26315789
chr3	122044513	122044513	+	0	0	-31.73583663
chr3	122044514	122044514	-	0	0	-32.91293619
chr3	122044528	122044528	-	0	0	-35.85695007
chr3	122048313	122048313	-	2.59E-10	9.19E-09	-25.45533204
chr3	122292567	122292567	+	4.86E-11	1.87E-09	-25.42253521
chr3	122292808	122292808	+	0	0	-29.00405527
chr3	122292829	122292829	+	0	0	-26.39973815
chr3	122316798	122316798	+	3.77E-09	1.15E-07	-27.95819038
chr3	122394178	122394178	+	7.86E-07	1.65E-05	34.66666667
chr3	122394186	122394186	+	1.11E-06	2.25E-05	32.92131845
chr3	122420897	122420897	+	0	0	-28.50539081
chr3	122421168	122421168	-	0	0	-44.81479928
chr3	122421185	122421185	+	7.81E-12	3.29E-10	-67.92540793
chr3	122421205	122421205	+	1.84E-06	3.58E-05	-44.04761905
chr3	122432891	122432891	+	0	0	-25.19286789
chr3	122433198	122433198	-	0	0	-31.13790644
chr3	122473939	122473939	-	0	0	-32.35214515
chr3	122473967	122473967	-	0	0	-26.72378621
chr3	122510295	122510295	+	0	0	-35.571185
chr3	122621124	122621124	+	1.70E-07	4.03E-06	-32.83994795
chr3	122638472	122638472	-	0	0	-26.39573071
chr3	123243635	123243635	-	0.00032441	0.00345883	-29.23076923
chr3	126610530	126610530	-	0	0	-34.97356889
chr3	127459066	127459066	+	2.87E-12	1.27E-10	-26.85245612
chr3	127459088	127459088	+	0	0	-34.27977637
chr3	127459125	127459125	-	0	0	-25.84739535
chr3	127695461	127695461	+	0	0	-44.81432006
chr3	127695468	127695468	+	0	0	-41.69665998
chr3	127695469	127695469	-	0	0	-48.00511014
chr3	127695474	127695474	+	0	0	-33.84680749
chr3	127695475	127695475	-	0	0	-37.99519239
chr3	127695478	127695478	+	0	0	-39.24960556
chr3	127695479	127695479	-	0	0	-44.32178063
chr3	127695484	127695484	+	0	0	-30.14880288
chr3	127695485	127695485	-	0	0	-39.82734947
chr3	127695488	127695488	+	0	0	-42.56245395
chr3	127695489	127695489	-	0	0	-42.68250062
chr3	127695505	127695505	+	0.00012152	0.00149188	-37.90707772
chr3	127695506	127695506	-	0	0	-41.16199924
chr3	127695531	127695531	+	0	0	-38.1506996

chr3	127695534	127695534	+	0	0	-37.5
chr3	127695541	127695541	+	0	0	-37.44934566
chr3	127695571	127695571	+	0	0	-44.0612273
chr3	127695580	127695580	+	0	0	-41.6443407
chr3	127695607	127695607	-	0	0	-55.85449357
chr3	127695639	127695639	-	0	0	-37.24421557
chr3	127695657	127695657	-	0	0	-45.09944403
chr3	127695663	127695663	-	4.97E-10	1.70E-08	-47.76470588
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chr3	127695683	127695683	-	1.36E-06	2.72E-05	-41.84981685
chr3	128588164	128588164	-	8.69E-05	0.00111606	26.38694639
chr3	129434225	129434225	+	1.17E-06	2.37E-05	-26.65930018
chr3	129570543	129570543	-	0	0	-26.63240615
chr3	129789164	129789164	-	0.00015257	0.0018161	-37.71929825
chr3	130052545	130052545	+	0	0	-25.30651341
chr3	130073041	130073041	+	1.73E-05	0.00026991	25.45940528
chr3	131019146	131019146	+	0	0	-25.69565143
chr3	131019253	131019253	+	4.80E-08	1.24E-06	-26.2987013
chr3	131019298	131019298	+	5.56E-07	1.20E-05	-26.9335512
chr3	131102346	131102346	-	4.43E-08	1.15E-06	-35.8004386
chr3	131102352	131102352	-	1.40E-06	2.79E-05	-32.61452942
chr3	131102354	131102354	-	0.00016423	0.00193533	-25.78828829
chr3	131102378	131102378	-	1.47E-06	2.92E-05	-26.628734
chr3	131117930	131117930	+	0.00014484	0.00173677	-40.04192872
chr3	131117955	131117955	+	0.00035982	0.00377439	-34.17190776
chr3	131302475	131302475	-	5.53E-12	2.36E-10	-31.94039373
chr3	133533786	133533786	-	0	0	-25.72773186
chr3	133600603	133600603	+	0	0	-29.27503163
chr3	133600691	133600691	-	0	0	-29.29292929
chr3	133600936	133600936	-	2.02E-06	3.91E-05	-31.28221913
chr3	135511909	135511909	-	0	0	-25.63187258
chr3	135570307	135570307	+	1.00E-06	2.06E-05	-46.60714286
chr3	135653569	135653569	+	9.97E-14	5.08E-12	-26.37702368
chr3	136833655	136833655	+	0	0	-25.90071537
chr3	137548209	137548209	-	1.60E-09	5.12E-08	-39.391086
chr3	137957719	137957719	+	2.40E-05	0.00036147	-30.10171647
chr3	138066508	138066508	-	0	0	-26.30701347
chr3	138066529	138066529	+	0	0	-25.36198897
chr3	138997666	138997666	-	0	0	29.41486468
chr3	139128581	139128581	-	0	0	59.65764515
chr3	139671470	139671470	+	0	0	-27.01162454

chr3	139671527	139671527	-	0	0	-30.64461166
chr3	139821895	139821895	+	0	0	49.07455118
chr3	144152821	144152821	+	0.00017001	0.0019936	44.35483871
chr3	144367760	144367760	+	0	0	-34.03237687
chr3	144367761	144367761	-	0	0	-34.54435661
chr3	144367788	144367788	-	0	0	-25.14316461
chr3	144557252	144557252	+	0	0	-36.07113058
chr3	144557253	144557253	-	2.86E-08	7.66E-07	-26.54862741
chr3	144557281	144557281	+	0	0	-37.32072343
chr3	144557282	144557282	-	0	0	-35.33809216
chr3	145703660	145703660	+	0	0	-26.01510787
chr3	145703777	145703777	-	0	0	-26.77551092
chr3	145963156	145963156	+	0	0	-41.56557728
chr3	145963165	145963165	+	0	0	-48.763947
chr3	145963185	145963185	+	0	0	-36.08580196
chr3	145963252	145963252	-	0	0	-42.12643822
chr3	146185208	146185208	+	2.23E-13	1.10E-11	-29.27212913
chr3	146185209	146185209	-	0	0	-27.85711657
chr3	146260462	146260462	-	8.25E-08	2.06E-06	-26.08187135
chr3	146405756	146405756	-	0	0	-41.37772524
chr3	146405773	146405773	-	1.56E-13	7.82E-12	-33.48765432
chr3	146405793	146405793	-	0	0	-26.95920124
chr3	146405845	146405845	+	0	0	-35.89423198
chr3	148680887	148680887	+	0.00025852	0.00285321	-30.07348785
chr3	149001639	149001639	+	0	0	-26.28476972
chr3	149184381	149184381	+	0	0	-27.22134059
chr3	149184424	149184424	+	0	0	-39.35873829
chr3	149184425	149184425	-	0	0	-33.28801837
chr3	149184428	149184428	+	0	0	-34.35839446
chr3	149184429	149184429	-	0	0	-28.09112946
chr3	149184441	149184441	-	0	0	-34.20729945
chr3	151198711	151198711	+	0	0	-30.59117165
chr3	152165368	152165368	-	0	0	-38.24391686
chr3	152165385	152165385	+	0	0	-31.23380146
chr3	152264919	152264919	+	0	0	-26.32849285
chr3	152266563	152266563	-	0	0	-31.78763441
chr3	152266839	152266839	+	3.33E-16	2.11E-14	-26.48725464
chr3	152975278	152975278	-	5.34E-05	0.00073117	-26.54490107
chr3	154192841	154192841	-	0	0	-25.63266678
chr3	154210890	154210890	+	0.00014367	0.00172466	-25.18518519
chr3	157377730	157377730	+	2.13E-13	1.05E-11	-26.93885859

chr3	158225809	158225809	+	8.00E-06	0.00013537	54.54545455
chr3	159385328	159385328	+	2.12E-08	5.80E-07	-28.03492531
chr4	3679270	3679270	+	0	0	-27.09994684
chr4	4556487	4556487	-	5.77E-10	1.96E-08	-31.49027053
chr4	7954848	7954848	-	8.83E-05	0.00113198	29.04255319
chr4	8854163	8854163	+	0	0	-29.46878307
chr4	9082088	9082088	-	0	0	-26.50052682
chr4	9185399	9185399	+	1.11E-15	6.76E-14	-46.20098039
chr4	9185406	9185406	+	2.22E-16	1.43E-14	-48.79817077
chr4	9185418	9185418	+	0	0	-47.20252167
chr4	9185435	9185435	+	8.52E-13	3.96E-11	-37.77175206
chr4	9185728	9185728	-	0	0	-32.92852186
chr4	10385876	10385876	+	1.36E-05	0.00021816	-26.88311688
chr4	11023612	11023612	+	0.00087508	0.00791483	25.87379779
chr4	11578696	11578696	-	0	0	-43.46153846
chr4	11578707	11578707	-	0	0	-36.34469697
chr4	11765073	11765073	+	9.45E-10	3.13E-08	-29.8706656
chr4	12655596	12655596	+	0	0	-27.84084484
chr4	12655648	12655648	-	0	0	-29.53426605
chr4	12655653	12655653	-	0	0	-29.36172439
chr4	12655676	12655676	-	0	0	-31.06980094
chr4	12690583	12690583	+	8.06E-05	0.00104617	-37.14285714
chr4	13744888	13744888	-	2.04E-05	0.00031252	-25.42735043
chr4	13750949	13750949	+	0	0	-30.69311274
chr4	13751034	13751034	+	0	0	-25.14208055
chr4	13751045	13751045	+	0	0	-31.38883244
chr4	13751094	13751094	-	0	0	-35.16132331
chr4	19872226	19872226	+	2.66E-06	5.02E-05	-26.73217435
chr4	20007081	20007081	+	6.36E-10	2.15E-08	-50.14992504
chr4	20007326	20007326	-	3.55E-09	1.09E-07	-47.86496758
chr4	20024077	20024077	-	1.55E-06	3.07E-05	-25.304414
chr4	31698545	31698545	+	0	0	-30.22664747
chr4	31698616	31698616	-	0	0	-34.46937407
chr4	32191643	32191643	+	0.0002201	0.00248631	-27.77217742
chr4	32242446	32242446	-	1.27E-06	2.56E-05	-37.87234043
chr4	32829400	32829400	-	3.20E-05	0.00046596	-28.33333333
chr4	32847883	32847883	-	0	0	-29.06223689
chr4	32864160	32864160	+	1.21E-05	0.00019607	-41.83474301
chr4	33030326	33030326	+	3.25E-09	1.00E-07	-32.97777778
chr4	33030433	33030433	-	4.19E-08	1.10E-06	-30.76848626
chr4	33030437	33030437	-	2.88E-07	6.56E-06	-27.99754821

chr4	33210054	33210054	-	6.98E-06	0.00011986	-33.82352941
chr4	33589486	33589486	-	0.0001134	0.00140472	-31.81818182
chr4	34960948	34960948	+	0	0	-26.52277954
chr4	40472849	40472849	-	0	0	-26.80633917
chr4	40774856	40774856	+	0	0	-25.56787301
chr4	40774857	40774857	-	0	0	-26.08563862
chr4	41095686	41095686	-	5.17E-09	1.55E-07	-26.37571157
chr4	41568414	41568414	+	0	0	-31.67228916
chr4	41568415	41568415	-	0	0	-28.53702862
chr4	41568429	41568429	+	0	0	-31.53332677
chr4	41568451	41568451	+	0	0	-26.98592177
chr4	41598919	41598919	-	4.57E-13	2.18E-11	-26.80694505
chr4	41659708	41659708	+	0	0	-27.31497702
chr4	41661119	41661119	+	2.68E-07	6.13E-06	-29.55284553
chr4	41698417	41698417	+	5.89E-07	1.26E-05	-28.18459191
chr4	41710318	41710318	+	0.00011327	0.00140336	-30.55198973
chr4	41712545	41712545	-	0	0	-29.09395221
chr4	41712590	41712590	-	0	0	-27.77438999
chr4	41712611	41712611	+	0	0	-25.97503374
chr4	41725727	41725727	+	7.41E-12	3.12E-10	-38.01120448
chr4	41727060	41727060	+	0	0	-25.60796493
chr4	42924916	42924916	+	9.59E-10	3.17E-08	-30.5501449
chr4	42925024	42925024	-	0	0	-26.31306377
chr4	42950669	42950669	+	0	0	-33.77579365
chr4	42950711	42950711	-	0	0	-32.18560175
chr4	42950734	42950734	+	0	0	-28.09879176
chr4	42950831	42950831	+	0.00069495	0.00654163	-32.5
chr4	42950832	42950832	-	0	0	-36.59640314
chr4	43406792	43406792	+	0	0	-32.40042769
chr4	43406793	43406793	-	7.39E-13	3.46E-11	-33.30167845
chr4	43406903	43406903	-	0	0	-31.49509804
chr4	43423568	43423568	+	4.65E-07	1.02E-05	-27.44992773
chr4	43425438	43425438	-	0	0	-29.92212552
chr4	43426766	43426766	-	0	0	-25.73007754
chr4	43584782	43584782	-	0	0	-31.26577595
chr4	43632237	43632237	-	0	0	-40.83217219
chr4	43632251	43632251	+	0	0	-28.7922531
chr4	43632261	43632261	+	0	0	-35.27533896
chr4	43632267	43632267	+	0	0	-28.00137599
chr4	43632315	43632315	-	0	0	-31.50069679
chr4	43632356	43632356	+	0	0	-32.68893483



chr4	43632357	43632357	-	0	0	-32.03247722
chr4	43632367	43632367	+	0	0	-35.57754025
chr4	43632391	43632391	+	0	0	-32.80356499
chr4	43632400	43632400	+	0	0	-34.00304414
chr4	43632403	43632403	+	0	0	-25.966539
chr4	43632464	43632464	-	0	0	-28.28371074
chr4	43632481	43632481	+	1.31E-13	6.58E-12	-29.79337152
chr4	43632482	43632482	-	0	0	-25.52887008
chr4	43729941	43729941	+	5.06E-06	8.98E-05	-29.51871658
chr4	43895362	43895362	+	0	0	-31.60515662
chr4	43895363	43895363	-	0	0	-39.56287985
chr4	43895408	43895408	-	0	0	-32.69861646
chr4	44982253	44982253	+	0	0	-33.11096731
chr4	45398083	45398083	-	2.11E-06	4.06E-05	-40.46296296
chr4	45491914	45491914	+	6.59E-05	0.00087841	-26.08097785
chr4	45492105	45492105	-	5.08E-07	1.10E-05	-30.38661009
chr4	45654782	45654782	+	0	0	-32.5274939
chr4	45654783	45654783	-	0	0	-33.70293269
chr4	45654784	45654784	+	0	0	-32.30994645
chr4	45654785	45654785	-	0	0	-35.81651418
chr4	45770575	45770575	+	3.33E-16	2.11E-14	-31.02617962
chr4	45770747	45770747	-	0.00010041	0.00126564	-25.70179475
chr4	45844684	45844684	-	0	0	-33.34524873
chr4	45869279	45869279	+	0	0	-33.34731023
chr4	45869305	45869305	+	0	0	-44.76437656
chr4	45869383	45869383	-	0	0	-25.32895102
chr4	45869425	45869425	-	0	0	-25.6524144
chr4	45880584	45880584	+	2.20E-05	0.00033486	-40.02683363
chr4	46032443	46032443	+	7.64E-11	2.88E-09	-26.43343052
chr4	46032444	46032444	-	0	0	-29.72863178
chr4	46032471	46032471	-	0	0	-26.1908811
chr4	46276904	46276904	+	0	0	-26.9005848
chr4	46527405	46527405	+	2.50E-12	1.11E-10	-28.02191114
chr4	46615061	46615061	+	0	0	-25.60720089
chr4	46615151	46615151	-	0	0	-31.70061845
chr4	46615158	46615158	-	0	0	-27.94787027
chr4	46620629	46620629	+	0	0	-39.63758355
chr4	46620639	46620639	+	0	0	-42.35781842
chr4	46620646	46620646	+	0	0	-41.98874296
chr4	46620650	46620650	+	0	0	-43.26165317
chr4	46620652	46620652	+	0	0	-41.91488078

chr4	46620693	46620693	-	0	0	-43.16947593
chr4	46620701	46620701	-	0	0	-41.98056156
chr4	46620713	46620713	-	0	0	-30.16312336
chr4	46665908	46665908	+	0	0	-27.53040838
chr4	46665947	46665947	-	5.14E-06	9.10E-05	-28.92921032
chr4	46665981	46665981	-	1.12E-09	3.66E-08	-40.44952808
chr4	46666021	46666021	-	0	0	-34.47585722
chr4	47051750	47051750	+	0	0	-41.1163779
chr4	47051751	47051751	-	0	0	-34.67421716
chr4	47051770	47051770	+	0	0	-30.53221289
chr4	47051771	47051771	-	0	0	-36.44713479
chr4	47201142	47201142	+	0	0	-28.93441724
chr4	47823415	47823415	-	6.22E-14	3.23E-12	-31.2371134
chr4	47823449	47823449	-	5.21E-14	2.73E-12	-36.59326425
chr4	47823457	47823457	-	4.54E-09	1.37E-07	-25.05329457
chr4	48541536	48541536	+	0	0	-30.52834084
chr4	48541579	48541579	-	4.44E-10	1.53E-08	-29.11931818
chr4	48584726	48584726	+	0	0	-34.98394482
chr4	48584727	48584727	-	0	0	-28.86732808
chr4	48586623	48586623	+	0	0	-26.777337
chr4	48586688	48586688	-	0	0	-38.01447997
chr4	48586692	48586692	-	0	0	-34.95956236
chr4	48586706	48586706	-	0	0	-38.39983041
chr4	49480628	49480628	+	0	0	-37.86231884
chr4	49480633	49480633	+	0	0	-40.44391379
chr4	49480703	49480703	-	0	0	-33.34429825
chr4	49480730	49480730	-	0	0	-26.71078278
chr4	49631251	49631251	+	2.36E-12	1.05E-10	-38.33333333
chr4	56262832	56262832	+	0	0	-26.99711826
chr4	56989702	56989702	+	0	0	-28.94021447
chr4	56989722	56989722	+	0	0	-28.31174422
chr4	56989863	56989863	+	0	0	-27.03475254
chr4	56989867	56989867	+	0	0	-30.88763281
chr4	56989868	56989868	-	0	0	-28.40736295
chr4	57225665	57225665	-	0	0	-37.8392873
chr4	57845238	57845238	+	0	0	-36.35628597
chr4	58749251	58749251	+	1.73E-12	7.81E-11	-28.63185632
chr4	59635905	59635905	-	0	0	-39.57344031
chr4	59818963	59818963	-	2.11E-11	8.47E-10	-33.06168105
chr4	59871430	59871430	+	4.44E-16	2.79E-14	-28.38659744
chr4	62607549	62607549	+	0	0	-25.54284732

chr4	62634675	62634675	-	0	0	-34.07869384
chr4	62694050	62694050	-	0.00012345	0.00151219	-29.08333333
chr4	63405010	63405010	+	2.13E-06	4.10E-05	-25.38596212
chr4	63557036	63557036	+	0	0	-30.78418427
chr4	74954848	74954848	+	7.04E-05	0.00092983	-40
chr4	79322970	79322970	-	0.00030397	0.00327412	-29.03225806
chr4	81177692	81177692	+	1.95E-11	7.87E-10	-28.89359636
chr4	81178106	81178106	-	4.40E-09	1.33E-07	-25.82449941
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chr4	82467814	82467814	-	0	0	-33.95291693
chr4	82508286	82508286	+	0	0	-30.63312207
chr4	82509894	82509894	+	0	0	-27.87438127
chr4	82537918	82537918	-	1.50E-09	4.84E-08	-34.55433455
chr4	82693054	82693054	+	0	0	-25.66290879
chr4	82705398	82705398	-	6.51E-10	2.20E-08	-29.22201139
chr4	83501228	83501228	+	8.58E-10	2.86E-08	-34.00124504
chr4	89293601	89293601	-	0	0	-26.96407038
chr4	89505554	89505554	+	0	0	-25.45306571
chr4	91381266	91381266	+	0.00048995	0.00489056	-26.36363636
chr4	91595857	91595857	-	0.00025516	0.00282165	-32.19219219
chr4	95154249	95154249	-	0	0	-25.58690745
chr4	95154290	95154290	-	0	0	-29.09814234
chr4	97779168	97779168	-	1.63E-07	3.88E-06	-30.35087719
chr4	97779176	97779176	-	7.91E-08	1.98E-06	-34.02388951
chr4	98778987	98778987	+	0	0	-25.30264868
chr4	98786776	98786776	-	1.11E-06	2.26E-05	-35.009456
chr4	99445525	99445525	+	2.51E-11	1.00E-09	-26.34771629
chr4	99445706	99445706	-	6.06E-08	1.54E-06	-25.55082356
chr4	99655539	99655539	+	7.09E-08	1.79E-06	-34.52495974
chr4	100136981	100136981	+	1.61E-12	7.30E-11	-26.41500286
chr4	102577970	102577970	+	4.21E-09	1.27E-07	-27.03219902
chr4	102589847	102589847	+	0	0	-31.00044767
chr4	102589848	102589848	-	0	0	-29.45475367
chr4	102589880	102589880	+	0	0	-28.41502499
chr4	102589881	102589881	-	0	0	-26.9926293
chr4	102956151	102956151	-	0	0	-25.74575077
chr4	103036207	103036207	-	0	0	-27.80632218
chr4	105129743	105129743	-	0	0	-35.18733409
chr4	105159114	105159114	+	0	0	-31.57194329
chr4	105159129	105159129	+	0	0	-38.88855379
chr4	105348306	105348306	-	0	0	-25.0706886

chr4	106200073	106200073	+	0	0	-30.34596525
chr4	106245086	106245086	-	0.00062929	0.00602572	-26.3681592
chr4	106328432	106328432	-	0.00028525	0.00310257	34.7826087
chr4	106506685	106506685	-	0.00015912	0.00188347	-39.73421927
chr4	106788358	106788358	-	2.70E-05	0.00040105	-36.9924812
chr4	106840567	106840567	-	2.68E-14	1.44E-12	-27.66666667
chr4	106856044	106856044	-	0	0	-41.05958378
chr4	106856054	106856054	-	0	0	-39.91696702
chr4	106856063	106856063	-	0	0	-25.95395929
chr4	106856105	106856105	+	0	0	-32.78922912
chr4	106856106	106856106	-	0	0	-30.04766687
chr4	106856148	106856148	-	0	0	-25.75608588
chr4	106947924	106947924	+	0	0	-28.4721311
chr4	106955922	106955922	+	0	0	-27.86990451
chr4	106955975	106955975	-	0	0	-31.57740033
chr4	106980633	106980633	+	5.94E-06	0.00010369	-37.03429101
chr4	106980657	106980657	+	2.90E-05	0.00042665	-34.48540707
chr4	106980659	106980659	+	5.81E-06	0.00010159	-33.1010453
chr4	106980838	106980838	-	5.77E-12	2.46E-10	-37.32837529
chr4	106980878	106980878	-	5.94E-06	0.00010368	-27.06448789
chr4	107126976	107126976	+	0	0	-35.6135781
chr4	107139635	107139635	+	2.44E-15	1.44E-13	-27.88114041
chr4	107139636	107139636	-	0	0	-32.72250735
chr4	107139673	107139673	-	3.00E-07	6.80E-06	-27.40827024
chr4	107139684	107139684	+	0	0	-31.64309835
chr4	107139685	107139685	-	0	0	-30.46334891
chr4	107139710	107139710	-	0	0	-28.35037809
chr4	107139711	107139711	+	0	0	-28.66602379
chr4	107139712	107139712	-	0	0	-30.57595243
chr4	107139717	107139717	-	0	0	-28.74391181
chr4	107139724	107139724	-	0	0	-27.42278273
chr4	107354862	107354862	+	7.01E-14	3.62E-12	-35.54058162
chr4	107354901	107354901	-	5.11E-15	2.94E-13	-25.36445897
chr4	107435811	107435811	-	0	0	-25.9033958
chr4	107757662	107757662	-	0	0	-34.73487187
chr4	107986594	107986594	+	0.00010382	0.00130265	-28.06161354
chr4	108031028	108031028	-	2.53E-09	7.90E-08	-29.22331537
chr4	108032399	108032399	+	0.00097284	0.00863305	-26.89189189
chr4	108407282	108407282	+	0	0	-37.51860632
chr4	108407408	108407408	-	0	0	-31.4927603
chr4	108407439	108407439	-	0	0	-25.66401813

chr4	109658866	109658866	+	8.33E-15	4.69E-13	-45.49819928
chr4	109658931	109658931	-	0	0	-39.06288536
chr4	109658938	109658938	-	0	0	-40.62125163
chr4	113342084	113342084	-	1.38E-07	3.31E-06	51.51515152
chr4	114407027	114407027	-	0	0	-26.8876318
chr4	114410698	114410698	-	0	0	-25.63007388
chr4	114478517	114478517	+	0	0	-25.11917546
chr4	114648784	114648784	+	0	0	-36.53583698
chr4	114666326	114666326	-	1.90E-09	6.02E-08	-29.15711739
chr4	114666346	114666346	-	3.22E-15	1.89E-13	-37.17026961
chr4	114666365	114666365	+	0	0	-52.75442298
chr4	114666366	114666366	-	0	0	-50.23785709
chr4	114666397	114666397	+	0	0	-43.84178834
chr4	114666398	114666398	-	0	0	-44.81817114
chr4	114666399	114666399	+	0	0	-41.86041165
chr4	114666400	114666400	-	0	0	-41.62148338
chr4	114666438	114666438	-	0	0	-25.08421368
chr4	114666441	114666441	-	0	0	-31.27172475
chr4	114666599	114666599	+	0	0	-47.52542855
chr4	114666600	114666600	-	0	0	-48.86944356
chr4	114666630	114666630	+	0	0	-34.43031621
chr4	114666760	114666760	+	0	0	-46.85330347
chr4	114666761	114666761	-	0	0	-39.95583255
chr4	114666770	114666770	+	0	0	-56.08198925
chr4	114666771	114666771	-	0	0	-53.13742437
chr4	114666772	114666772	+	0	0	-47.28501773
chr4	114666773	114666773	-	1.88E-11	7.59E-10	-35.92048401
chr4	114666788	114666788	+	0	0	-47.07438182
chr4	114666789	114666789	-	0	0	-50.08305648
chr4	114666794	114666794	+	0	0	-45.43653779
chr4	114666795	114666795	-	0	0	-51.14899801
chr4	114666806	114666806	+	0	0	-39.91960996
chr4	114666807	114666807	-	0	0	-37.71883289
chr4	114666824	114666824	-	0	0	-55.03234843
chr4	114779987	114779987	-	5.44E-15	3.12E-13	-26.20039209
chr4	114843717	114843717	+	1.52E-08	4.25E-07	-28.87387387
chr4	114843937	114843937	-	6.21E-06	0.00010791	-31.2719027
chr4	114862084	114862084	+	0.00072676	0.00678784	26.44124169
chr4	114907184	114907184	+	0	0	-39.05832462
chr4	114907217	114907217	+	0	0	-33.0572906
chr4	114907223	114907223	+	0	0	-48.12437392

chr4	114907225	114907225	+	0	0	-40.83535894
chr4	114907230	114907230	+	0	0	-32.60713338
chr4	114907275	114907275	-	0	0	-35.54253357
chr4	114907287	114907287	+	0	0	-25.03400495
chr4	114907340	114907340	+	0	0	-31.43978047
chr4	114912895	114912895	-	3.27E-10	1.14E-08	-31.86813187
chr4	114912909	114912909	-	3.37E-08	8.94E-07	-29.41787942
chr4	115064686	115064686	+	2.45E-06	4.66E-05	-25.38282613
chr4	115064719	115064719	-	1.14E-10	4.22E-09	-26.1552897
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chr4	115904626	115904626	+	0	0	-28.59575502
chr4	115978936	115978936	-	0.0004175	0.00427512	-32.35294118
chr4	116820489	116820489	-	0	0	-28.70171087
chr4	116820570	116820570	+	0	0	-26.40026226
chr4	116820603	116820603	+	0	0	-29.62940185
chr4	116820672	116820672	+	0	0	-28.9639126
chr4	116820673	116820673	-	0	0	-32.60783774
chr4	117002946	117002946	-	2.95E-08	7.90E-07	-37.59398496
chr4	117002955	117002955	-	4.93E-09	1.48E-07	-32.74511748
chr4	117002966	117002966	-	3.64E-06	6.67E-05	-32.79220779
chr4	117122310	117122310	-	0	0	-28.44976613
chr4	117317962	117317962	+	0	0	-29.84227503
chr4	117343003	117343003	-	9.78E-13	4.52E-11	-26.29843699
chr4	117361220	117361220	+	1.63E-10	5.92E-09	-32.88829152
chr4	117373925	117373925	+	4.44E-06	7.98E-05	-25.77225924
chr4	117487912	117487912	-	5.81E-14	3.03E-12	-29.02575588
chr4	117587605	117587605	-	1.49E-06	2.96E-05	-27.38284143
chr4	117834414	117834414	+	0	0	-30.6612782
chr4	117834415	117834415	-	0	0	-35.33243139
chr4	117849355	117849355	+	0	0	-26.52406417
chr4	117868219	117868219	+	0	0	-29.08896085
chr4	117883696	117883696	-	1.02E-06	2.09E-05	-25.90142483
chr4	118064290	118064290	+	2.02E-13	9.97E-12	-28.04479748
chr4	118218664	118218664	-	0.00021025	0.00239129	-27.65957447
chr4	118256305	118256305	-	0	0	-25.28431466
chr4	118265788	118265788	+	0	0	-28.71836295
chr4	118289878	118289878	+	0	0	-32.15896762
chr4	118290133	118290133	+	3.55E-15	2.07E-13	-33.28720899
chr4	118290134	118290134	-	0	0	-38.12588721
chr4	118290146	118290146	+	0	0	-27.52855139
chr4	118290286	118290286	+	0	0	-34.95797337

chr4	118315452	118315452	+	3.33E-16	2.11E-14	-28.08291246
chr4	118417714	118417714	+	0	0	-25.51953094
chr4	118417751	118417751	+	0	0	-30.74655484
chr4	118417752	118417752	-	0	0	-29.84335597
chr4	118517540	118517540	+	0.00033293	0.00353532	-36.84754522
chr4	118517734	118517734	-	1.11E-16	7.26E-15	-28.37209302
chr4	118744119	118744119	-	2.09E-14	1.13E-12	-35.3202525
chr4	119022317	119022317	+	9.14E-05	0.00116619	-29.79140667
chr4	119022321	119022321	+	0.00026082	0.00287502	-26.81473456
chr4	119022325	119022325	+	0.00038163	0.00396578	-27.26793249
chr4	119022335	119022335	+	0.0003352	0.00355599	-26.81209206
chr4	119022337	119022337	+	0.00016261	0.00191899	-27.17770035
chr4	119028412	119028412	+	0	0	-35.88907557
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chr4	119028424	119028424	+	0	0	-32.20802828
chr4	119045806	119045806	+	0	0	-26.10299426
chr4	119072412	119072412	+	0	0	-40.18426648
chr4	119072658	119072658	+	3.73E-10	1.30E-08	-51.33333333
chr4	119072659	119072659	-	2.01E-13	9.96E-12	-34.22150139
chr4	119072974	119072974	+	0	0	-42.44116984
chr4	119072982	119072982	+	0	0	-42.07168989
chr4	119072983	119072983	-	0	0	-41.01162916
chr4	119072994	119072994	+	0	0	-54.99431044
chr4	119072995	119072995	-	0	0	-58.51101243
chr4	119073002	119073002	-	0	0	-50.71331522
chr4	119073004	119073004	-	0	0	-52.93771219
chr4	119073025	119073025	+	0	0	-29.55246646
chr4	119073026	119073026	-	0	0	-35.33789035
chr4	119073033	119073033	+	0	0	-27.43797083
chr4	119073043	119073043	+	0	0	-50.82889047
chr4	119073052	119073052	+	0	0	-58.3956419
chr4	119073057	119073057	+	0	0	-31.88607595
chr4	119073061	119073061	+	0	0	-42.90208704
chr4	119073085	119073085	-	0	0	-42.93006848
chr4	119073098	119073098	-	0	0	-31.25492986
chr4	119073102	119073102	-	0	0	-45.53306343
chr4	119073116	119073116	+	0	0	-31.20139049
chr4	119073117	119073117	-	0	0	-38.73421728
chr4	119073128	119073128	+	0	0	-44.37045091
chr4	119073199	119073199	-	0	0	-51.82609793
chr4	119073216	119073216	-	0	0	-49.40205978

chr4	119073248	119073248	+	0	0	-25.7099224
chr4	119073249	119073249	-	5.55E-16	3.46E-14	-29.96326343
chr4	119095174	119095174	+	0	0	-38.33641005
chr4	119095217	119095217	-	0	0	-36.59093917
chr4	119110020	119110020	-	7.32E-10	2.45E-08	-26.38124169
chr4	119257350	119257350	-	0	0	-28.52497685
chr4	119966861	119966861	-	6.28E-09	1.86E-07	-34.09090909
chr4	120120792	120120792	+	3.66E-06	6.70E-05	-56.0483871
chr4	120223192	120223192	-	0	0	-27.08797032
chr4	120267158	120267158	-	0.00013375	0.00162137	-26.62037037
chr4	120267175	120267175	-	4.89E-05	0.00067742	-27.01298701
chr4	120267200	120267200	-	1.48E-05	0.0002343	-29.08767245
chr4	120267202	120267202	-	1.33E-08	3.75E-07	-36.18233618
chr4	120267210	120267210	+	1.90E-10	6.84E-09	-27.19213411
chr4	120267215	120267215	+	4.05E-13	1.94E-11	-31.99273482
chr4	120267222	120267222	+	7.35E-11	2.78E-09	-28.72340426
chr4	120304831	120304831	-	0	0	-42.88757383
chr4	120370105	120370105	+	1.12E-07	2.73E-06	-32.13532682
chr4	120667669	120667669	+	0	0	-32.7187142
chr4	120667670	120667670	-	7.77E-16	4.79E-14	-35.66864593
chr4	120667696	120667696	+	0	0	-31.87013473
chr4	120746787	120746787	+	0	0	-37.53908177
chr4	120746788	120746788	-	0	0	-25.30428509
chr4	120751490	120751490	-	0	0	-41.18837061
chr4	121052558	121052558	-	0	0	-28.89288982
chr4	121355852	121355852	-	0	0	-31.6299805
chr4	121360009	121360009	-	2.44E-08	6.61E-07	-47.47880411
chr4	122955870	122955870	-	0.00102515	0.00901355	-25.23236741
chr4	122981860	122981860	+	0.00050047	0.00497887	-32.23188406
chr4	123105565	123105565	+	0.00011216	0.00139157	-29.05804658
chr4	123201977	123201977	+	0	0	-30.76734309
chr4	123201978	123201978	-	0	0	-34.26491303
chr4	123202021	123202021	+	0	0	-25.00790317
chr4	123202022	123202022	-	0	0	-25.39656992
chr4	123202033	123202033	+	0	0	-34.7797875
chr4	123202034	123202034	-	0	0	-36.34210836
chr4	123239938	123239938	+	0	0	-32.37514518
chr4	123239942	123239942	+	0	0	-42.57926426
chr4	123239965	123239965	+	0	0	-29.88513514
chr4	123240016	123240016	-	0	0	-28.00197824
chr4	123412653	123412653	-	1.18E-14	6.54E-13	-46.00654664



chr4	123412697	123412697	-	2.40E-11	9.57E-10	-37.01970443
chr4	123527756	123527756	-	0	0	-25.12446681
chr4	123896888	123896888	+	1.46E-10	5.35E-09	-25.87464838
chr4	124108923	124108923	-	0	0	-37.62333686
chr4	124146050	124146050	+	0	0	-28.50247928
chr4	124270231	124270231	-	4.64E-10	1.60E-08	-27.91682198
chr4	124637184	124637184	+	7.78E-05	0.00101396	-25.64102564
chr4	124989959	124989959	+	0	0	-42.95939585
chr4	124989978	124989978	+	0	0	-40.7211874
chr4	124990020	124990020	-	0	0	-40.52241096
chr4	124990067	124990067	+	0	0	-32.40316267
chr4	124990068	124990068	-	0	0	-25.8901421
chr4	124990111	124990111	-	0	0	-32.80775066
chr4	124990156	124990156	+	0	0	-26.47215391
chr4	124991350	124991350	+	0	0	-26.88412853
chr4	125145839	125145839	-	0.00090033	0.00810287	-27.18145309
chr4	125158951	125158951	-	0	0	-26.17382838
chr4	126070122	126070122	+	0.00043666	0.00443885	-31.03448276
chr4	126137887	126137887	-	0	0	-43.21348457
chr4	126147816	126147816	+	0	0	-51.04805609
chr4	126147832	126147832	+	0	0	-51.69771713
chr4	126147848	126147848	+	0	0	-37.46864969
chr4	126147989	126147989	-	3.08E-14	1.64E-12	-27.71526591
chr4	126148008	126148008	-	0	0	-54.63704316
chr4	126148010	126148010	-	0	0	-38.58037937
chr4	126149392	126149392	+	0	0	-28.28628509
chr4	126149399	126149399	+	0	0	-48.14414414
chr4	126149405	126149405	+	0	0	-37.0566152
chr4	126149431	126149431	+	0	0	-38.44684037
chr4	126150462	126150462	+	0	0	-26.50980963
chr4	126150709	126150709	+	0	0	-35.20919931
chr4	126150744	126150744	-	0	0	-38.7050597
chr4	126150758	126150758	-	0	0	-48.23484759
chr4	126150774	126150774	+	0	0	-37.54048126
chr4	126150775	126150775	-	0	0	-38.28404646
chr4	126150810	126150810	+	0	0	-35.18228307
chr4	126150883	126150883	+	0	0	-27.78389655
chr4	126180467	126180467	-	0	0	-28.28917572
chr4	126257775	126257775	+	0	0	-27.58707488
chr4	126257784	126257784	+	0	0	-37.05970528
chr4	126287099	126287099	+	0	0	-29.59687138

chr4	126287115	126287115	+	0	0	-29.12561688
chr4	126287872	126287872	-	2.52E-09	7.88E-08	-31.62393162
chr4	126287908	126287908	-	2.12E-09	6.69E-08	-28.75618534
chr4	126297675	126297675	+	2.54E-13	1.24E-11	-26.19364375
chr4	126300474	126300474	+	2.50E-05	0.00037479	-27.30404823
chr4	126300682	126300682	-	6.99E-15	3.97E-13	-25.20879121
chr4	126324791	126324791	-	7.02E-14	3.63E-12	-26.9668474
chr4	126324831	126324831	+	0	0	-26.66184814
chr4	126324864	126324864	+	0	0	-31.53313714
chr4	126324922	126324922	-	0	0	-25.55373181
chr4	126325371	126325371	+	0	0	-29.40236497
chr4	126325411	126325411	+	0	0	-50.07509011
chr4	126325549	126325549	-	1.39E-06	2.78E-05	-31.77326626
chr4	127005507	127005507	-	7.11E-15	4.03E-13	-26.06549284
chr4	127258181	127258181	+	0	0	-27.23549488
chr4	127258327	127258327	+	0	0	-25.2354049
chr4	127312780	127312780	-	5.46E-11	2.09E-09	-30.17399267
chr4	127312793	127312793	-	5.93E-12	2.52E-10	-35.39817738
chr4	127989857	127989857	+	1.07E-08	3.06E-07	-28.10318196
chr4	128576217	128576217	+	0.00036522	0.00382193	47.5
chr4	128712256	128712256	-	0.00011539	0.00142579	-26.35386523
chr4	128844241	128844241	+	5.94E-07	1.28E-05	-31.20629371
chr4	128844242	128844242	-	0.0001867	0.00216079	-25.36124795
chr4	128959872	128959872	+	0	0	-33.37996489
chr4	128960932	128960932	+	0	0	-25.38023185
chr4	128960940	128960940	+	0	0	-34.43981126
chr4	128960941	128960941	-	0	0	-31.61310917
chr4	128960988	128960988	-	0	0	-29.78362696
chr4	129016277	129016277	+	0	0	-27.49175691
chr4	129051603	129051603	+	0	0	-25.25353244
chr4	129051752	129051752	-	0	0	-27.51244927
chr4	129106478	129106478	-	5.69E-11	2.18E-09	-27.74528915
chr4	129227033	129227033	+	0	0	-43.17008874
chr4	129227408	129227408	+	0	0	-38.8756638
chr4	129227572	129227572	-	0	0	-36.08433735
chr4	129227575	129227575	-	0	0	-26.64599355
chr4	129231350	129231350	-	1.56E-05	0.0002462	-25.2764977
chr4	129238762	129238762	+	0	0	-32.75335522
chr4	129242181	129242181	-	2.12E-10	7.61E-09	-29.92307692
chr4	129249383	129249383	-	0.0002208	0.00249294	-32.94573643
chr4	129287916	129287916	-	3.73E-08	9.84E-07	-35.25974026

chr4	129364166	129364166	+	1.05E-06	2.15E-05	-35.60962847
chr4	129437419	129437419	+	0.00059222	0.00572953	-28.65079365
chr4	129440417	129440417	+	3.22E-15	1.89E-13	-38.28667548
chr4	129491153	129491153	+	0	0	-25.19452225
chr4	129491181	129491181	-	0	0	-44.04796427
chr4	129491190	129491190	-	0	0	-37.03269595
chr4	129491232	129491232	+	0	0	-35.88519566
chr4	129491233	129491233	-	0	0	-41.23238446
chr4	129491234	129491234	+	0	0	-37.23810503
chr4	129491235	129491235	-	0	0	-33.28437266
chr4	129491258	129491258	-	0	0	-26.24605333
chr4	129491266	129491266	+	0	0	-29.27729458
chr4	129491267	129491267	-	0	0	-36.76705865
chr4	129491271	129491271	+	0	0	-33.78466771
chr4	129491272	129491272	-	0	0	-43.0728502
chr4	129491279	129491279	+	0	0	-36.15840303
chr4	129491280	129491280	-	0	0	-35.96420189
chr4	129491292	129491292	+	0	0	-35.71770142
chr4	129491293	129491293	-	0	0	-42.35976789
chr4	129491317	129491317	+	0	0	-30.43089403
chr4	129491318	129491318	-	0	0	-33.55648805
chr4	129491323	129491323	+	0	0	-34.98022849
chr4	129491344	129491344	+	0	0	-29.09607567
chr4	129491356	129491356	+	0	0	-43.35695361
chr4	129491357	129491357	-	0	0	-48.13480367
chr4	129491362	129491362	+	0	0	-37.46989413
chr4	129491363	129491363	-	0	0	-37.08922493
chr4	129491399	129491399	+	0	0	-39.73223491
chr4	129491400	129491400	-	0	0	-31.91146881
chr4	129491505	129491505	+	0	0	-32.28327818
chr4	129491506	129491506	-	0	0	-30.38752879
chr4	129513254	129513254	+	0	0	-33.16924122
chr4	129645378	129645378	+	0	0	-32.67120281
chr4	129645406	129645406	+	0	0	-44.79532164
chr4	129645417	129645417	+	0	0	-34.81614053
chr4	129774786	129774786	-	6.16E-09	1.82E-07	-37.47091284
chr4	129794954	129794954	+	0	0	-31.54853564
chr4	129794955	129794955	-	0	0	-26.21941225
chr4	129794969	129794969	+	0	0	-25.43814433
chr4	129794983	129794983	+	0	0	-25.87362247
chr4	129794984	129794984	-	0	0	-32.93894233

chr4	129795013	129795013	-	0	0	-27.45927638
chr4	129795392	129795392	+	0	0	-55.36858974
chr4	129817899	129817899	+	1.87E-05	0.00028928	-29.9689441
chr4	129818120	129818120	-	0.00066744	0.00632826	-37.69230769
chr4	129877788	129877788	-	0	0	-28.75299361
chr4	129877792	129877792	-	0	0	-25.55641822
chr4	130002368	130002368	-	0.00033527	0.00355651	-34.7007722
chr4	130005560	130005560	+	7.72E-07	1.62E-05	-43.58208955
chr4	130007700	130007700	-	0	0	-30.1916221
chr4	130037375	130037375	+	0	0	-42.10277008
chr4	130037399	130037399	+	0	0	-27.35074057
chr4	130037401	130037401	+	0	0	-45.94201401
chr4	130037516	130037516	-	0	0	-37.75515144
chr4	130066832	130066832	+	7.98E-08	2.00E-06	-28.64781202
chr4	130067106	130067106	+	0	0	-31.02372087
chr4	130093833	130093833	+	6.99E-14	3.62E-12	-29.4207454
chr4	130101388	130101388	-	0	0	-26.06731746
chr4	130166148	130166148	-	0.00013398	0.00162367	-25.36630037
chr4	130174081	130174081	+	0	0	-34.86349848
chr4	130174090	130174090	+	0	0	-29.49502863
chr4	130174091	130174091	-	0	0	-29.45557634
chr4	130174107	130174107	+	0	0	-33.91278533
chr4	130174108	130174108	-	0	0	-32.79084757
chr4	130174120	130174120	+	0	0	-36.8889069
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chr4	130174133	130174133	-	0	0	-31.82120637
chr4	130174135	130174135	+	2.10E-05	0.00032031	-29.48717949
chr4	130174331	130174331	-	0	0	-31.90025253
chr4	130174356	130174356	-	0	0	-35.53524153
chr4	130252007	130252007	+	0.00094481	0.00842848	-29.36596218
chr4	130797792	130797792	-	0	0	-34.11156095
chr4	130797824	130797824	-	0	0	-27.65262487
chr4	130878361	130878361	-	5.45E-06	9.60E-05	-34.76190476
chr4	130904872	130904872	-	5.11E-05	0.00070296	-40.99576271
chr4	130905184	130905184	+	1.11E-16	7.26E-15	-31.68009043
chr4	131743237	131743237	-	2.13E-07	4.95E-06	-60.11904762
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chr4	131743301	131743301	-	0	0	-26.7543451
chr4	131743322	131743322	-	0	0	-30.62362758
chr4	131753422	131753422	+	0.00051449	0.0050952	-26.49122807
chr4	131916008	131916008	+	4.61E-09	1.39E-07	-53.54609929

chr4	131916023	131916023	+	0.00011922	0.0014673	-34.49387492
chr4	131916035	131916035	+	2.25E-07	5.22E-06	-51.85031185
chr4	131916217	131916217	-	1.27E-12	5.81E-11	-41.46944923
chr4	131916245	131916245	-	0	0	-53.77972065
chr4	131919788	131919788	-	2.48E-09	7.75E-08	-32.82977155
chr4	131919827	131919827	+	0	0	-37.09062366
chr4	131919843	131919843	+	0	0	-33.11830035
chr4	131922258	131922258	+	0	0	-27.6765778
chr4	131922382	131922382	-	0	0	-25.8347721
chr4	132513510	132513510	+	0	0	-58.90062112
chr4	132513520	132513520	+	0	0	-46.47482893
chr4	132513556	132513556	+	0	0	-51.90508021
chr4	132513745	132513745	-	1.94E-06	3.77E-05	-46.77419355
chr4	132513793	132513793	-	0.00046784	0.00470488	-33.53726363
chr4	132524353	132524353	+	0	0	-30.57936663
chr4	132524475	132524475	-	0	0	-31.86438068
chr4	132524509	132524509	-	0	0	-35.35087719
chr4	132524523	132524523	-	0	0	-33.54241077
chr4	132545985	132545985	+	1.61E-12	7.30E-11	-28.1094837
chr4	132562851	132562851	+	1.45E-07	3.47E-06	-37.56319515
chr4	132562944	132562944	-	0	0	-27.22420755
chr4	132728472	132728472	-	0	0	-29.11522634
chr4	132874310	132874310	+	3.07E-08	8.19E-07	-25.33650251
chr4	132938638	132938638	-	1.43E-09	4.62E-08	-33.52380952
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chr4	132941302	132941302	+	7.21E-08	1.82E-06	-26.31168831
chr4	132941397	132941397	-	0	0	-29.21694469
chr4	132941413	132941413	-	0	0	-27.46541471
chr4	132946363	132946363	-	0	0	-28.73835507
chr4	133037626	133037626	-	0	0	-31.9047619
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chr4	133196900	133196900	+	0	0	-27.37200769
chr4	133196901	133196901	-	0	0	-34.85644258
chr4	133197703	133197703	-	7.77E-16	4.79E-14	-25.72184105
chr4	133200293	133200293	-	8.55E-06	0.00014375	-35.97342872
chr4	133200300	133200300	+	0	0	-26.52945864
chr4	133200496	133200496	+	8.84E-08	2.19E-06	-25.29910269
chr4	133220950	133220950	+	0	0	-25.85868898
chr4	133247147	133247147	+	0	0	-32.00633828

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chr4	133247239	133247239	-	0	0	-39.31198898
chr4	133247250	133247250	-	0	0	-32.316295
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chr4	133250219	133250219	-	1.00E-10	3.74E-09	-26.51186791
chr4	133293765	133293765	-	8.53E-06	0.00014357	-36.94214876
chr4	133297538	133297538	-	0	0	-28.70722626
chr4	133398266	133398266	+	0	0	-30.20453833
chr4	133427548	133427548	-	0	0	-29.58990014
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chr4	133518773	133518773	-	0	0	-30.76529414
chr4	133518816	133518816	-	0	0	-30.4410095
chr4	133518827	133518827	+	0	0	-35.57225192
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chr4	133728664	133728664	+	0	0	-36.22038687
chr4	133728738	133728738	-	0	0	-25.4969073
chr4	133731827	133731827	+	1.41E-07	3.39E-06	-41.14285714
chr4	133828715	133828715	+	6.66E-05	0.00088588	-53.84615385
chr4	133828716	133828716	-	0	0	-35.45548042
chr4	133828924	133828924	-	0	0	-33.43060552
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chr4	133876840	133876840	+	0	0	-32.8347536
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chr4	134047861	134047861	+	5.09E-05	0.00070088	-35.53475936
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chr4	134060781	134060781	-	2.18E-09	6.86E-08	-31.34940302
chr4	134060808	134060808	-	1.68E-06	3.30E-05	-37.96296296
chr4	134061632	134061632	-	0	0	-26.62612275
chr4	134065732	134065732	-	2.60E-06	4.92E-05	-31.02023246
chr4	134065760	134065760	-	1.12E-05	0.00018328	-25.61061947
chr4	134081410	134081410	+	0	0	-29.47049877
chr4	134238351	134238351	-	0	0	-31.33108521
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chr4	134252211	134252211	-	1.23E-07	2.98E-06	-39.8622342
chr4	134315371	134315371	-	0	0	-26.72668912
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chr4	134450261	134450261	-	0	0	-25.93857123
chr4	134450818	134450818	+	0	0	-34.25260088

chr4	134450828	134450828	+	0	0	-37.96945987
chr4	134450935	134450935	-	0	0	-35.98019329
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chr4	134451021	134451021	+	0	0	-27.69864956
chr4	134451094	134451094	-	0	0	-36.40150976
chr4	134451106	134451106	-	0	0	-31.32780083
chr4	134453906	134453906	+	0	0	-25.19356905
chr4	134579539	134579539	+	0	0	-32.54618303
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chr4	134869379	134869379	-	3.33E-16	2.11E-14	-26.16350544
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chr4	135068152	135068152	+	0	0	-25.48237888
chr4	135147852	135147852	+	0	0	-26.69565132
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chr4	135154895	135154895	-	0	0	-36.32547109
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chr4	135155304	135155304	+	1.13E-14	6.30E-13	-48.42553806
chr4	135155313	135155313	+	1.81E-13	8.99E-12	-44.08555843
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chr4	135155323	135155323	+	0	0	-54.19178869
chr4	135155324	135155324	-	0	0	-51.46245059
chr4	135155332	135155332	+	0	0	-42.05248257
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chr4	135155368	135155368	+	0	0	-39.30704141
chr4	135155374	135155374	+	0	0	-32.00539257
chr4	135155499	135155499	-	9.43E-11	3.52E-09	-43.16770186
chr4	135155513	135155513	+	0	0	-40.92751393
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chr4	135155581	135155581	-	0	0	-43.28671329
chr4	135155591	135155591	-	0	0	-39.33511825
chr4	135155619	135155619	-	0	0	-30.03234909
chr4	135155780	135155780	+	0	0	-37.54429942
chr4	135155811	135155811	+	0	0	-26.01595985
chr4	135155966	135155966	+	0	0	-35.50724638
chr4	135155967	135155967	-	0.00054332	0.00533306	-34.252386

chr4	135156008	135156008	+	0	0	-32.27935382
chr4	135156190	135156190	+	5.11E-15	2.94E-13	-36.13675541
chr4	135166634	135166634	+	0	0	-37.95894197
chr4	135166652	135166652	+	0	0	-27.37469993
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chr4	135166656	135166656	+	0	0	-30.94236937
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chr4	135166665	135166665	+	0	0	-40.50953296
chr4	135166666	135166666	-	0	0	-40.21123866
chr4	135166672	135166672	-	0	0	-37.76393443
chr4	135168757	135168757	+	0	0	-35.07226856
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chr4	135175481	135175481	-	0	0	-25.17123699
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chr4	135175579	135175579	+	0	0	-37.73900003
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chr4	135175602	135175602	-	0	0	-38.25783035
chr4	135175610	135175610	+	0	0	-31.1459101
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chr4	135175637	135175637	+	0	0	-32.56833546
chr4	135175755	135175755	-	0	0	-32.58989201
chr4	135285815	135285815	-	0	0	-25.56800872
chr4	135285849	135285849	-	4.44E-16	2.79E-14	-26.43675473
chr4	135397415	135397415	+	0	0	-28.58742596
chr4	135397420	135397420	+	0	0	-26.85477455
chr4	135451654	135451654	+	1.72E-13	8.54E-12	-77.01863354
chr4	135451676	135451676	+	0.00014131	0.00170009	-43.19943622
chr4	135495960	135495960	+	0	0	-27.24307656
chr4	135495964	135495964	+	0	0	-25.14596055
chr4	135495965	135495965	-	1.11E-16	7.26E-15	-25.25922233
chr4	135496015	135496015	+	0	0	-26.99489796
chr4	135496044	135496044	+	0	0	-26.70416499
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chr4	135496184	135496184	-	0	0	-36.23911141
chr4	135542475	135542475	+	0	0	-29.26360091



chr4	135547798	135547798	+	0	0	-27.01130319
chr4	135548380	135548380	+	0	0	-35.40875064
chr4	135548413	135548413	+	0	0	-34.34181518
chr4	135548414	135548414	-	0	0	-43.44018323
chr4	135548438	135548438	-	0	0	-41.9195842
chr4	135567083	135567083	-	4.55E-15	2.63E-13	-27.05420802
chr4	135567086	135567086	+	0	0	-30.35592811
chr4	135567093	135567093	+	0	0	-34.2082762
chr4	135752594	135752594	+	0.00045932	0.00463232	-37.10801394
chr4	135878150	135878150	+	4.77E-12	2.05E-10	-34.40794702
chr4	135878151	135878151	-	0	0	-46.66080225
chr4	136089407	136089407	+	3.15E-07	7.11E-06	-34.37728938
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chr4	136089454	136089454	-	5.64E-07	1.22E-05	-30.84470435
chr4	136104922	136104922	-	0.0009299	0.00831993	-27.79591837
chr4	136104948	136104948	+	1.64E-07	3.90E-06	-25.37671657
chr4	136104957	136104957	+	8.28E-09	2.40E-07	-28.57898715
chr4	136104958	136104958	-	0	0	-37.6417496
chr4	136104980	136104980	-	2.22E-16	1.43E-14	-30.04628222
chr4	136105102	136105102	-	0	0	-28.29377876
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chr4	136117322	136117322	+	2.58E-07	5.92E-06	-25.75680272
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chr4	136147079	136147079	-	0	0	-28.08122885
chr4	136148642	136148642	-	0	0	-29.82310853
chr4	136148977	136148977	-	0	0	-28.41267932
chr4	136180593	136180593	+	0.00013693	0.0016542	-25.79051383
chr4	136217168	136217168	-	0	0	-38.30510706
chr4	136238312	136238312	+	1.64E-05	0.00025734	-39.1509434
chr4	136309686	136309686	-	2.44E-06	4.64E-05	-26.19437939
chr4	136462101	136462101	-	0	0	-37.74126
chr4	136462109	136462109	-	0	0	-43.9974364
chr4	136462113	136462113	-	0	0	-37.73396435
chr4	136462120	136462120	-	0	0	-30.51907601
chr4	136637290	136637290	-	0	0	-33.60774818
chr4	136755834	136755834	+	0	0	-27.00059763
chr4	136797930	136797930	+	0	0	-25.24876668
chr4	136797931	136797931	-	0	0	-27.75882988
chr4	136829889	136829889	+	0	0	-44.81151018
chr4	136829971	136829971	+	0	0	-46.29063747
chr4	136829972	136829972	-	0	0	-47.5953879

chr4	136830121	136830121	-	0	0	-31.48714348
chr4	136830129	136830129	+	0	0	-30.57379612
chr4	136830156	136830156	+	0	0	-26.86836634
chr4	136830175	136830175	+	0	0	-38.93369511
chr4	136830219	136830219	-	0	0	-29.3025146
chr4	136830253	136830253	-	0	0	-40.41728888
chr4	136834093	136834093	+	0	0	-39.79560565
chr4	136834103	136834103	+	0	0	-46.08158005
chr4	136834104	136834104	-	0	0	-47.37233691
chr4	136834105	136834105	+	0	0	-47.20334058
chr4	136834106	136834106	-	0	0	-50.53597444
chr4	136834136	136834136	+	0	0	-27.21217101
chr4	136834137	136834137	-	0	0	-29.37023948
chr4	136834146	136834146	+	0	0	-37.67821577
chr4	136834147	136834147	-	0	0	-43.32320311
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chr4	136834179	136834179	+	0	0	-36.33696536
chr4	136834231	136834231	-	0	0	-31.2758718
chr4	136834250	136834250	-	0	0	-28.51486749
chr4	136836824	136836824	+	4.87E-12	2.09E-10	-30.18469828
chr4	136836989	136836989	-	0	0	-26.02055381
chr4	136862081	136862081	+	0	0	-28.72090858
chr4	136862138	136862138	-	0	0	-42.02561592
chr4	136862144	136862144	-	0	0	-34.92899801
chr4	136862147	136862147	+	0	0	-37.6989188
chr4	136862148	136862148	-	0	0	-39.56521739
chr4	136862172	136862172	+	0	0	-25.93380615
chr4	136862185	136862185	+	0	0	-37.05096074
chr4	136862186	136862186	-	0	0	-33.46273959
chr4	136862203	136862203	+	0	0	-29.1033189
chr4	136862204	136862204	-	0	0	-31.71551566
chr4	136862210	136862210	+	0	0	-32.23244797
chr4	136862211	136862211	-	0	0	-32.68845017
chr4	136862242	136862242	-	0	0	-25.37797509
chr4	136886624	136886624	-	9.98E-10	3.29E-08	-34.61844197
chr4	136892416	136892416	-	2.94E-07	6.66E-06	-32.97812279
chr4	137128127	137128127	-	8.58E-05	0.00110359	-26.08286252
chr4	137184570	137184570	-	0	0	-28.7597194
chr4	137184751	137184751	-	4.44E-10	1.53E-08	-33.94910692
chr4	137430725	137430725	-	4.39E-08	1.15E-06	-39.62910465
chr4	137485438	137485438	-	0	0	-40.58775888

chr4	137485481	137485481	-	1.63E-09	5.22E-08	-26.95354151
chr4	137487808	137487808	-	0	0	-34.18152154
chr4	137490398	137490398	+	0	0	-25.35471512
chr4	137540722	137540722	+	6.75E-06	0.00011635	-28.07017544
chr4	137599850	137599850	-	0	0	-27.94587169
chr4	137723797	137723797	-	0	0	-31.98675497
chr4	137723838	137723838	-	0	0	-27.75623701
chr4	137723869	137723869	+	0	0	-27.64007359
chr4	137723879	137723879	+	0	0	-25.67847828
chr4	137723880	137723880	-	0	0	-32.76984555
chr4	137723883	137723883	+	0	0	-25.85367304
chr4	137723884	137723884	-	0	0	-31.22487631
chr4	137723894	137723894	+	0	0	-27.09474238
chr4	137723895	137723895	-	0	0	-28.98024142
chr4	137723913	137723913	-	0	0	-25.40903008
chr4	137723943	137723943	+	0	0	-30.37776816
chr4	137724098	137724098	-	0	0	-29.4079831
chr4	137724114	137724114	-	0	0	-25.4271659
chr4	137800573	137800573	-	5.66E-15	3.24E-13	-26.56660959
chr4	137835428	137835428	+	1.19E-07	2.89E-06	-31.92156863
chr4	137835458	137835458	+	2.74E-07	6.26E-06	-35.68627451
chr4	137855961	137855961	-	0	0	-33.68416659
chr4	137866225	137866225	-	0	0	-25.73071456
chr4	137866493	137866493	-	0.00013558	0.00164017	-52.07373272
chr4	137875926	137875926	+	0.00116182	0.00997851	-28.45777234
chr4	137899127	137899127	+	0	0	-26.14528309
chr4	137899128	137899128	-	0	0	-28.68322311
chr4	137899149	137899149	+	0	0	-33.32117807
chr4	137899150	137899150	-	0	0	-38.04002219
chr4	137899157	137899157	+	0	0	-29.0627152
chr4	137899158	137899158	-	0	0	-29.74570075
chr4	137899167	137899167	-	0	0	-27.14741399
chr4	137914152	137914152	-	3.91E-10	1.36E-08	-49.22839506
chr4	137920764	137920764	+	0	0	-34.09523441
chr4	137920788	137920788	+	0	0	-31.25269978
chr4	137920848	137920848	-	0	0	-33.87850023
chr4	138411206	138411206	-	7.07E-05	0.00093399	-28.66688941
chr4	138411252	138411252	-	6.83E-05	0.00090592	-30.3030303
chr4	138415156	138415156	+	8.87E-09	2.56E-07	-29.85347985
chr4	138415172	138415172	+	5.16E-09	1.55E-07	-30.23580423
chr4	138522527	138522527	-	5.62E-08	1.44E-06	-28.96956796

chr4	138522559	138522559	-	4.47E-08	1.16E-06	-30.26259814
chr4	138827608	138827608	+	5.46E-10	1.86E-08	-31.00047813
chr4	139143158	139143158	-	3.55E-15	2.07E-13	-28.54028239
chr4	139143407	139143407	-	2.79E-12	1.23E-10	-55.66991694
chr4	139143434	139143434	-	0.00016157	0.00190828	-31.25608569
chr4	139470506	139470506	+	3.75E-12	1.63E-10	-25.11320755
chr4	139556206	139556206	-	4.04E-12	1.75E-10	-26.0620915
chr4	139581683	139581683	+	0	0	-39.82493557
chr4	139641351	139641351	-	0	0	-33.09079947
chr4	139757123	139757123	-	0	0	-27.98993737
chr4	139757279	139757279	-	0	0	-32.86319376
chr4	139818225	139818225	-	0	0	-29.95960942
chr4	139818239	139818239	-	0	0	-30.4220817
chr4	139977531	139977531	-	8.60E-05	0.00110592	-30.24400685
chr4	139993548	139993548	+	2.88E-07	6.56E-06	-50
chr4	140540859	140540859	-	1.11E-16	7.26E-15	-28.05041237
chr4	140542109	140542109	+	0	0	-31.63031524
chr4	140648976	140648976	-	3.33E-16	2.11E-14	-38.77691054
chr4	140665951	140665951	-	0	0	-31.93324409
chr4	140665981	140665981	+	0	0	-31.45240993
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chr4	140666004	140666004	+	0	0	-31.07876373
chr4	140666105	140666105	+	0	0	-29.93348675
chr4	140666106	140666106	-	0	0	-30.19996466
chr4	140703303	140703303	-	6.03E-10	2.04E-08	-25.56314402
chr4	140703868	140703868	+	8.28E-07	1.73E-05	-54.16666667
chr4	140750298	140750298	+	0	0	-33.85955978
chr4	140750337	140750337	+	0	0	-30.67226891
chr4	140750445	140750445	-	0	0	-35.30371086
chr4	140750481	140750481	-	0	0	-28.85697809
chr4	140750721	140750721	+	0	0	-27.50738874
chr4	140750764	140750764	+	0	0	-30.79615709
chr4	140750765	140750765	-	0	0	-30.66213706
chr4	140750798	140750798	-	0	0	-25.30212901
chr4	140763406	140763406	+	0	0	-26.56956104
chr4	140763472	140763472	-	1.11E-16	7.26E-15	-25.67903489
chr4	140770627	140770627	+	8.98E-05	0.00114837	-32.55813953
chr4	140770667	140770667	+	0.00064577	0.00615756	-25.58139535
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chr4	140771338	140771338	+	5.89E-05	0.00079594	-36.36363636
chr4	140791176	140791176	-	0.00035584	0.0037395	-32.95454545

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chr4	140825947	140825947	+	0	0	-32.61481258
chr4	140858048	140858048	-	1.02E-12	4.70E-11	-33.95732353
chr4	140858072	140858072	-	4.00E-10	1.39E-08	-31.85992619
chr4	140869074	140869074	+	0	0	-40.74137119
chr4	140869077	140869077	+	0	0	-40.6852616
chr4	140869154	140869154	+	0	0	-25.67593612
chr4	140869155	140869155	-	7.22E-15	4.09E-13	-27.49614554
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chr4	140869240	140869240	-	0	0	-44.42678989
chr4	140869244	140869244	-	0	0	-38.5065231
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chr4	140869262	140869262	-	3.33E-16	2.11E-14	-28.9010989
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chr4	140869313	140869313	+	0	0	-37.69028168
chr4	140869315	140869315	+	0	0	-31.94236754
chr4	140869368	140869368	-	0	0	-40.30156969
chr4	140869374	140869374	-	0	0	-40.841569
chr4	140869386	140869386	-	0	0	-35.45146678
chr4	140921893	140921893	-	1.06E-08	3.03E-07	-26.49401726
chr4	140971948	140971948	+	0	0	-26.49584025
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chr4	141011110	141011110	-	0	0	-25.92145949
chr4	141011327	141011327	-	4.41E-14	2.32E-12	-28.96926338
chr4	141011437	141011437	-	0	0	-31.29032258
chr4	141218633	141218633	+	0	0	-38.70117422
chr4	141218651	141218651	+	1.86E-12	8.38E-11	-27.52948201
chr4	141242790	141242790	+	1.06E-09	3.49E-08	-28.10350076
chr4	141274871	141274871	+	0	0	-34.14318149
chr4	141274874	141274874	+	0	0	-37.52302864
chr4	141274898	141274898	+	0	0	-35.51273783
chr4	141274905	141274905	+	0	0	-33.85359529
chr4	141285326	141285326	+	0	0	-31.76783398
chr4	141285389	141285389	-	0	0	-30.24786214

chr4	141287893	141287893	+	1.89E-15	1.13E-13	-30.40427155
chr4	141287922	141287922	+	3.33E-16	2.11E-14	-37.20841785
chr4	141293065	141293065	-	1.53E-10	5.56E-09	-25.33821029
chr4	141295827	141295827	-	4.93E-06	8.76E-05	-35.49407115
chr4	141295863	141295863	+	0	0	-27.36846638
chr4	141295864	141295864	-	9.92E-05	0.00125304	-30.43478261
chr4	141295997	141295997	-	0	0	-32.68229167
chr4	141296311	141296311	+	2.27E-09	7.15E-08	-43.06818182
chr4	141310540	141310540	+	3.00E-15	1.76E-13	-40.80653432
chr4	141312435	141312435	+	0	0	-29.87438892
chr4	141312559	141312559	+	0	0	-29.57413146
chr4	141312560	141312560	-	0	0	-33.61684247
chr4	141312578	141312578	+	0	0	-27.8368689
chr4	141312582	141312582	+	0	0	-29.81081612
chr4	141312659	141312659	-	0	0	-42.82672283
chr4	141312682	141312682	-	5.45E-13	2.58E-11	-35.36742389
chr4	141312701	141312701	-	2.93E-14	1.57E-12	-37.45547074
chr4	141368680	141368680	-	0	0	-28.29932448
chr4	141420724	141420724	+	1.67E-15	9.99E-14	-29.05344203
chr4	141565462	141565462	-	6.56E-12	2.78E-10	-50.65789474
chr4	141565499	141565499	+	9.44E-06	0.00015718	-39.06882591
chr4	141565500	141565500	-	3.86E-08	1.02E-06	-42.04812207
chr4	141565508	141565508	+	2.51E-08	6.80E-07	-43.20175439
chr4	141565509	141565509	-	5.02E-05	0.00069202	-35.99033816
chr4	141565518	141565518	+	1.80E-07	4.25E-06	-41.5075121
chr4	141565519	141565519	-	5.33E-09	1.59E-07	-51.62855163
chr4	141625313	141625313	+	2.85E-09	8.84E-08	-29.74137931
chr4	141871109	141871109	+	0	0	-38.80455408
chr4	141871154	141871154	+	0	0	-41.36929653
chr4	141871223	141871223	+	2.44E-15	1.44E-13	-39.76464389
chr4	141871224	141871224	-	0	0	-49.44495413
chr4	141871259	141871259	+	2.22E-16	1.43E-14	-42.10204082
chr4	141872020	141872020	+	0	0	-33.80602456
chr4	141872147	141872147	-	0	0	-27.95699084
chr4	141882604	141882604	+	1.97E-10	7.09E-09	-27.58467297
chr4	142018227	142018227	+	9.36E-11	3.49E-09	-25.34462604
chr4	142070988	142070988	+	0	0	-26.58839058
chr4	142071020	142071020	+	0	0	-34.24963631
chr4	142071024	142071024	+	0	0	-33.11148684
chr4	142071925	142071925	+	9.20E-13	4.26E-11	-34.88309231
chr4	142072075	142072075	-	0	0	-28.96334898

chr4	142072205	142072205	-	0	0	-33.50770978
chr4	142081993	142081993	+	0	0	-29.02097625
chr4	142082005	142082005	+	0	0	-31.46788337
chr4	142082006	142082006	-	0	0	-26.92278421
chr4	142082024	142082024	+	0	0	-35.54730389
chr4	142082025	142082025	-	0	0	-30.90108401
chr4	142082037	142082037	-	0	0	-27.84588552
chr4	142085268	142085268	-	1.97E-08	5.42E-07	-40.69767442
chr4	142085273	142085273	-	6.02E-09	1.78E-07	-47.5711575
chr4	142085298	142085298	-	8.55E-15	4.81E-13	-57.08927232
chr4	142085315	142085315	-	1.95E-08	5.36E-07	-30.58324105
chr4	142085335	142085335	+	0	0	-44.26617916
chr4	142085336	142085336	-	0	0	-47.12149976
chr4	142085340	142085340	+	0	0	-44.81531332
chr4	142085341	142085341	-	0	0	-48.5984116
chr4	142085345	142085345	+	0	0	-43.38256709
chr4	142085346	142085346	-	0	0	-45.02505883
chr4	142085350	142085350	+	0	0	-52.35140397
chr4	142085351	142085351	-	0	0	-43.72194661
chr4	142085385	142085385	-	0	0	-38.46290048
chr4	142085394	142085394	+	0	0	-31.26523784
chr4	142085490	142085490	+	5.66E-05	0.00076886	-32.90598291
chr4	142085491	142085491	-	0	0	-29.87753983
chr4	142085520	142085520	+	5.67E-06	9.95E-05	-30.29411765
chr4	142171663	142171663	+	0	0	-26.15381159
chr4	142212703	142212703	-	2.13E-05	0.00032474	26.92307692
chr4	143260393	143260393	+	1.47E-08	4.13E-07	-27.07760044
chr4	143394799	143394799	-	1.13E-09	3.70E-08	-30.87121212
chr4	144404042	144404042	-	1.39E-06	2.77E-05	-30.76923077
chr4	144404054	144404054	-	0.00010205	0.0012834	-33.33333333
chr4	144586524	144586524	-	1.90E-06	3.69E-05	33.98883869
chr4	144586569	144586569	-	3.23E-06	5.99E-05	37.05882353
chr4	144984307	144984307	+	0.00076543	0.0070871	-29.23444976
chr4	144984332	144984332	-	0.00105723	0.00924122	-36.44501279
chr4	147928410	147928410	-	0	0	-37.07218108
chr4	148040269	148040269	-	1.50E-13	7.51E-12	-25.48245024
chr4	148062465	148062465	-	1.14E-10	4.21E-09	-26.35710094
chr4	148107730	148107730	+	0	0	-28.24937872
chr4	148107832	148107832	+	0	0	-41.38362521
chr4	148107978	148107978	-	5.36E-12	2.29E-10	-29.07419922
chr4	148107980	148107980	-	0	0	-43.92207596

chr4	148108175	148108175	+	0	0	-27.2422204
chr4	148108176	148108176	-	0	0	-32.556552
chr4	148115879	148115879	-	0	0	-26.37360355
chr4	148141321	148141321	-	8.12E-05	0.00105258	-33.39699212
chr4	148149371	148149371	+	0	0	-27.50493858
chr4	148149389	148149389	+	0	0	-39.63576095
chr4	148149396	148149396	+	0	0	-26.51097923
chr4	148149452	148149452	-	0	0	-34.55414678
chr4	148149458	148149458	-	0	0	-31.19874159
chr4	148149462	148149462	+	0	0	-25.2485032
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chr4	148149578	148149578	+	0	0	-29.33153239
chr4	148149622	148149622	+	0	0	-30.64763746
chr4	148149744	148149744	-	4.88E-15	2.82E-13	-30.3394386
chr4	148149761	148149761	+	0	0	-25.27831811
chr4	148149762	148149762	-	1.55E-15	9.35E-14	-32.45980707
chr4	148149780	148149780	+	0	0	-35.59766356
chr4	148149781	148149781	-	0	0	-31.54516142
chr4	148149823	148149823	-	0	0	-25.01031977
chr4	148159032	148159032	+	0	0	-27.4122807
chr4	148159103	148159103	+	0	0	-26.8619136
chr4	148676197	148676197	+	2.30E-06	4.41E-05	-26.1932167
chr4	148724517	148724517	+	0	0	-28.04140947
chr4	148739243	148739243	+	0	0	-31.2003892
chr4	148743288	148743288	-	4.44E-16	2.79E-14	-25.61514821
chr4	148743303	148743303	-	0	0	-25.99492122
chr4	148743561	148743561	+	7.15E-07	1.51E-05	-25.92155408
chr4	148743707	148743707	-	3.63E-07	8.11E-06	-25.69857629
chr4	148771341	148771341	-	0	0	-34.19139951
chr4	148799311	148799311	+	3.59E-08	9.49E-07	-32.20290681
chr4	148810099	148810099	-	9.99E-15	5.59E-13	-26.11832612
chr4	148816672	148816672	+	3.17E-12	1.39E-10	-26.19553308
chr4	148881477	148881477	+	0	0	-25.37372362
chr4	148882511	148882511	-	0	0	-28.65013774
chr4	148882537	148882537	-	0	0	-27.10523959
chr4	148882540	148882540	+	0	0	-30.52223888
chr4	148882541	148882541	-	0	0	-31.32701841
chr4	148882548	148882548	-	0	0	-29.10940803
chr4	148888487	148888487	-	0	0	-25.02305289
chr4	148891704	148891704	-	2.75E-12	1.21E-10	-26.98356689
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chr4	148922093	148922093	+	1.75E-13	8.71E-12	-42.29954828
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chr4	148922116	148922116	+	4.62E-11	1.79E-09	-35.97122302
chr4	148922233	148922233	-	0	0	-54.33518862
chr4	148922241	148922241	-	0	0	-53.93939394
chr4	148922266	148922266	+	0	0	-48.83308113
chr4	148922267	148922267	-	1.11E-16	7.26E-15	-44.38982975
chr4	148922271	148922271	-	0	0	-27.14361382
chr4	148922293	148922293	+	0	0	-47.78582539
chr4	148922294	148922294	-	0	0	-48.32726742
chr4	148922302	148922302	+	2.00E-15	1.19E-13	-72.71791352
chr4	148922303	148922303	-	0	0	-55.4195486
chr4	148922640	148922640	+	0	0	-50.32993112
chr4	148922735	148922735	-	0	0	-56.8877551
chr4	148922769	148922769	+	0	0	-57.13554987
chr4	148922770	148922770	-	0	0	-57.34896968
chr4	148922808	148922808	+	4.44E-16	2.79E-14	-26.50581812
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chr4	148952017	148952017	+	0	0	-37.32083936
chr4	148952039	148952039	+	0	0	-40.78152143
chr4	148952051	148952051	+	0	0	-34.39093571
chr4	148952059	148952059	+	0	0	-32.69544085
chr4	148952060	148952060	-	0	0	-35.08318326
chr4	148952068	148952068	-	0	0	-35.71097466
chr4	148952081	148952081	-	0	0	-35.49394939
chr4	148952095	148952095	-	0	0	-44.23808112
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chr4	148952138	148952138	+	0	0	-44.95456021
chr4	148952145	148952145	+	0	0	-30.3252326
chr4	148952148	148952148	+	0	0	-38.19107242
chr4	148952181	148952181	-	0	0	-35.08535594
chr4	148952187	148952187	-	0	0	-46.66429895
chr4	148952203	148952203	-	0	0	-42.96257163
chr4	148952211	148952211	-	0	0	-53.97578187
chr4	148952221	148952221	-	0	0	-33.02571663
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chr4	148952248	148952248	+	1.05E-10	3.89E-09	-44.63097878
chr4	148952253	148952253	+	1.40E-09	4.52E-08	-43.56984479
chr4	148952259	148952259	+	9.83E-09	2.82E-07	-42.5087108
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chr4	148952326	148952326	-	0	0	-44.55949809
chr4	148952350	148952350	-	0	0	-47.68382951
chr4	148952353	148952353	-	0	0	-43.39519651
chr4	148952369	148952369	+	0	0	-36.94427783
chr4	148952370	148952370	-	0	0	-38.51298774
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chr4	148952388	148952388	+	0	0	-40.5096809
chr4	148952391	148952391	+	0	0	-35.91644714
chr4	148952394	148952394	+	0	0	-41.28044256
chr4	148952403	148952403	+	0	0	-44.97439443
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chr4	148952496	148952496	-	0	0	-47.31961382
chr4	148952500	148952500	-	0	0	-36.76581325
chr4	148952505	148952505	-	0	0	-34.59843907
chr4	148952509	148952509	-	0	0	-34.3135352
chr4	148952511	148952511	-	0	0	-42.9417326
chr4	148952513	148952513	-	0	0	-34.07000751
chr4	148952520	148952520	-	0	0	-47.76785714
chr4	148952541	148952541	+	0	0	-44.46131825
chr4	148952542	148952542	-	0	0	-53.39249748
chr4	148952549	148952549	+	0	0	-32.54702194
chr4	148952556	148952556	+	0	0	-30.91780271
chr4	148952559	148952559	+	0	0	-40.27029128
chr4	148952573	148952573	+	0	0	-34.25188076
chr4	148952576	148952576	+	0	0	-39.23809524
chr4	148952578	148952578	+	0	0	-31.12639838
chr4	148952635	148952635	-	0	0	-41.32131896
chr4	148952643	148952643	-	0	0	-37.47733151
chr4	148952660	148952660	-	0	0	-37.58109972
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chr4	148952674	148952674	-	0	0	-26.48467153
chr4	148952682	148952682	+	0	0	-37.57390983
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chr4	148952705	148952705	+	0	0	-40.34061414
chr4	148952710	148952710	+	0	0	-36.87479693
chr4	148952730	148952730	+	4.71E-12	2.03E-10	-44.32630098
chr4	148952834	148952834	-	5.55E-16	3.46E-14	-37.71695594
chr4	148952836	148952836	-	3.24E-13	1.57E-11	-38.17527011
chr4	148952864	148952864	-	0	0	-44.56367162
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chr4	148952928	148952928	-	0	0	-41.71884164
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chr4	148952971	148952971	-	0	0	-35.21903561
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chr4	149126978	149126978	-	9.91E-13	4.57E-11	-31.82952623
chr4	149564556	149564556	-	0.00065191	0.00620658	25.55555556
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chr4	149647240	149647240	+	0.00022143	0.00249881	-26.03174603
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chr4	149854648	149854648	+	2.68E-07	6.13E-06	-49.00744417
chr4	149854651	149854651	+	6.95E-07	1.47E-05	-54.47667087
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chr4	150060738	150060738	+	0	0	-27.21977422
chr4	150060739	150060739	-	0	0	-27.33017018
chr4	150060753	150060753	+	0	0	-27.65789584
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chr4	150094351	150094351	+	1.67E-10	6.06E-09	-26.86696886
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chr4	150573165	150573165	-	0.0001109	0.00137822	-29.26829268
chr4	150748748	150748748	+	2.85E-08	7.64E-07	-34.05081157
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chr4	150825270	150825270	-	1.05E-05	0.00017311	-32.86764706
chr4	150889820	150889820	-	0	0	-25.03247832
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chr4	151983406	151983406	-	7.01E-13	3.29E-11	-26.79817499
chr4	151983432	151983432	-	0	0	-40.37267081
chr4	151983442	151983442	-	7.15E-13	3.35E-11	-25.99858607
chr4	152100919	152100919	-	1.34E-11	5.48E-10	-37.80821918
chr4	152100969	152100969	-	1.89E-07	4.44E-06	-28.56394588
chr4	152101822	152101822	+	8.89E-11	3.33E-09	-34.48960366
chr4	152102191	152102191	-	0	0	-26.26350976
chr4	152126718	152126718	-	2.22E-15	1.32E-13	-40.30180126
chr4	152126745	152126745	+	0	0	-39.96354657
chr4	152126746	152126746	-	0	0	-53.87878043
chr4	152126752	152126752	+	0	0	-29.2066973
chr4	152126807	152126807	-	0	0	-36.40016562
chr4	152126843	152126843	+	0	0	-32.87702119
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chr4	152129436	152129436	-	0	0	-30.64642685

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chr4	152129460	152129460	+	0	0	-39.56862745
chr4	152129464	152129464	+	0	0	-42.23634389
chr4	152129567	152129567	-	0	0	-31.08456653
chr4	152292604	152292604	+	0	0	-27.48445066
chr4	152348388	152348388	-	0.00066729	0.00632696	33.69111509
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chr4	152414443	152414443	+	0	0	-37.44712477
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chr4	152435378	152435378	+	0	0	-44.11932939
chr4	152435379	152435379	-	0	0	-33.35526698
chr4	152493448	152493448	+	0	0	-26.77975086
chr4	152546469	152546469	+	4.60E-10	1.58E-08	-27.44970798
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chr4	153708602	153708602	-	0	0	-45.73891626
chr4	153708632	153708632	-	0	0	-52.37804878
chr4	154019509	154019509	+	2.10E-09	6.63E-08	-31.68767052
chr4	154019693	154019693	-	1.07E-08	3.05E-07	-25.14039367
chr4	154025478	154025478	-	0	0	-25.46805578
chr4	154025510	154025510	-	0	0	-25.27942781
chr4	154187296	154187296	+	7.73E-13	3.61E-11	-27.01623755
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chr4	154247828	154247828	-	8.27E-05	0.00106937	-28.85443583
chr4	154247836	154247836	-	1.18E-05	0.000192	-33.50559862
chr4	154298146	154298146	+	0	0	-27.06030361
chr4	154323340	154323340	-	0	0	-26.08649234
chr4	154328782	154328782	-	2.22E-16	1.43E-14	-28.2635153
chr4	154425314	154425314	-	2.36E-08	6.42E-07	-37.68853695
chr4	154471217	154471217	-	3.54E-05	0.00050907	-27.53623188
chr4	154471990	154471990	+	0	0	-33.45387261
chr4	154482579	154482579	+	1.92E-10	6.93E-09	-27.25756691
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chr4	154499900	154499900	+	0	0	-36.69370325
chr4	154499901	154499901	-	0	0	-39.57738795
chr4	154499912	154499912	+	0	0	-40.39568884
chr4	154500068	154500068	-	1.05E-14	5.88E-13	-34.6656335
chr4	154500075	154500075	+	0	0	-28.40150152
chr4	154500190	154500190	-	0	0	-28.29931632
chr4	154500211	154500211	-	0	0	-32.23860657
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chr4	154540959	154540959	-	0	0	-28.43236095
chr4	154540968	154540968	-	0	0	-38.4325816
chr4	154540988	154540988	-	0	0	-30.5187589
chr4	154540997	154540997	-	0	0	-30.53265236
chr4	154541000	154541000	+	4.43E-11	1.72E-09	-31.15459883
chr4	154541001	154541001	-	0	0	-28.06561259
chr4	154541024	154541024	+	0	0	-45.99114609
chr4	154541146	154541146	-	0	0	-33.2808399
chr4	154541153	154541153	-	0	0	-29.81005189
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chr4	154544150	154544150	-	0	0	-29.50266112
chr4	154544157	154544157	-	0	0	-31.83236712
chr4	154544170	154544170	+	0	0	-28.26454034
chr4	154544171	154544171	-	0	0	-26.53019794
chr4	154549716	154549716	+	1.33E-09	4.32E-08	-33.78739316
chr4	154554102	154554102	+	1.57E-14	8.60E-13	-58.98283735
chr4	154554110	154554110	+	2.56E-07	5.87E-06	-38.8996139
chr4	154556074	154556074	+	0	0	-34.74903475
chr4	154556209	154556209	-	0	0	-25.08312071
chr4	154558957	154558957	+	6.70E-07	1.42E-05	-26.11009174
chr4	154570226	154570226	+	0	0	-27.50310559
chr4	154585339	154585339	-	0	0	-26.0842289
chr4	154586350	154586350	+	0	0	-35.60689765
chr4	154586366	154586366	+	0	0	-40.02466429
chr4	154586373	154586373	+	0	0	-32.04958501
chr4	154627031	154627031	+	0	0	-25.60252548
chr4	154627092	154627092	-	0	0	-31.3718031
chr4	154638320	154638320	+	0	0	-28.37643678
chr4	154638321	154638321	-	0	0	-31.20757919
chr4	154640430	154640430	+	1.11E-16	7.26E-15	-26.22500141
chr4	154640477	154640477	+	0	0	-29.26991856
chr4	154641019	154641019	+	2.22E-16	1.43E-14	-33.99220558
chr4	154641141	154641141	-	2.22E-16	1.43E-14	-26.606356
chr4	154641179	154641179	+	0	0	-34.86362494
chr4	154641180	154641180	-	0	0	-27.55320647
chr4	154641206	154641206	+	0	0	-41.46899841
chr4	154641207	154641207	-	0	0	-38.02033898

chr4	154641213	154641213	+	9.33E-13	4.32E-11	-29.70089496
chr4	154641214	154641214	-	0	0	-25.13972056
chr4	154641228	154641228	+	0	0	-38.08722845
chr4	154641244	154641244	+	0	0	-40.47619048
chr4	154641338	154641338	+	0	0	-25.23861302
chr4	154641443	154641443	-	0	0	-32.64687506
chr4	154641461	154641461	-	0	0	-34.20372026
chr4	154641472	154641472	-	0	0	-35.7662175
chr4	154641476	154641476	-	0	0	-27.94792454
chr4	154641478	154641478	-	0	0	-30.42938008
chr4	154641484	154641484	+	0	0	-34.00444807
chr4	154641485	154641485	-	0	0	-29.58045019
chr4	154641488	154641488	+	0	0	-43.25340622
chr4	154641514	154641514	+	0	0	-43.57608434
chr4	154641523	154641523	+	0	0	-39.19598591
chr4	154641527	154641527	+	0	0	-43.40744844
chr4	154641533	154641533	+	0	0	-40.04994747
chr4	154641555	154641555	-	0	0	-35.60202527
chr4	154641571	154641571	-	0	0	-35.20378943
chr4	154641587	154641587	+	9.26E-11	3.46E-09	-46.36174636
chr4	154641588	154641588	-	0	0	-38.37077515
chr4	154641600	154641600	+	8.73E-13	4.05E-11	-53.21637427
chr4	154641831	154641831	-	2.04E-10	7.32E-09	-45.64007421
chr4	154641851	154641851	+	0	0	-43.54035695
chr4	154641852	154641852	-	9.97E-11	3.71E-09	-45.80981329
chr4	154641883	154641883	+	0	0	-47.93572234
chr4	154642037	154642037	-	8.14E-10	2.72E-08	-27.31481481
chr4	154741579	154741579	-	0	0	-26.24347924
chr4	154957138	154957138	+	0.00026389	0.00290416	-28.47985348
chr4	154958505	154958505	-	0	0	-49.65749061
chr4	154958511	154958511	-	0	0	-49.7062005
chr4	154958535	154958535	-	0	0	-32.52892177
chr4	154984002	154984002	+	0.00011739	0.00144761	-32.05427178
chr4	154984014	154984014	-	0.0001234	0.00151165	-29.14414414
chr4	155115969	155115969	+	4.29E-05	0.00060353	-29.26652142
chr4	155116298	155116298	+	0	0	-30.23229606
chr4	155116313	155116313	-	0	0	-35.56046989
chr4	155116329	155116329	-	0	0	-32.07146286
chr4	155116340	155116340	-	3.00E-14	1.60E-12	-28.19256757
chr4	155152108	155152108	-	0	0	-29.82303643
chr4	155219028	155219028	+	0	0	-28.92187304

chr4	155219029	155219029	-	3.33E-15	1.95E-13	-30.74178552
chr4	155219040	155219040	-	7.11E-15	4.03E-13	-30.13693795
chr4	155219064	155219064	-	0.00063039	0.00603454	-41.66666667
chr4	155425967	155425967	+	0	0	-34.32923067
chr4	155425985	155425985	+	0	0	-31.46149817
chr4	155426096	155426096	-	1.02E-11	4.23E-10	-25.80623578
chr4	155426116	155426116	-	4.44E-16	2.79E-14	-30.46778963
chr4	155426119	155426119	-	0	0	-32.49258644
chr4	155427456	155427456	-	0.00012295	0.00150718	29.25465839
chr4	155625416	155625416	-	6.66E-06	0.00011496	31.77064551
chr4	155655355	155655355	-	0	0	-37.6958951
chr4	155655365	155655365	-	0	0	-40.06077058
chr4	155655370	155655370	-	0	0	-32.27753678
chr4	155655396	155655396	-	0	0	-40.62625918
chr4	155738340	155738340	-	3.22E-06	5.97E-05	-42.10526316
chr4	155738349	155738349	+	6.94E-05	0.00091862	-26.96351268
chr4	155738350	155738350	-	0.00044614	0.0045206	-30.65268065
chr4	155770621	155770621	-	0	0	-30.66857649
chr4	155770622	155770622	+	0	0	-30.84988505
chr4	155770623	155770623	-	0	0	-26.96441258
chr4	155770628	155770628	+	0	0	-31.43782576
chr4	155770629	155770629	-	0	0	-30.25938484
chr4	155770635	155770635	-	0	0	-36.12837606
chr4	155770643	155770643	-	0	0	-32.36705544
chr4	155770791	155770791	-	0	0	-32.77322634
chr4	155781176	155781176	+	0	0	-30.01837032
chr4	155781203	155781203	+	0	0	-33.81719033
chr4	155839651	155839651	+	0	0	-38.74521948
chr4	155839714	155839714	-	0	0	-38.65439937
chr4	155839736	155839736	-	0	0	-30.65294591
chr4	156034713	156034713	+	1.12E-08	3.19E-07	-31.7875727
chr4	156034738	156034738	+	4.90E-10	1.68E-08	-34.57742484
chr4	156034822	156034822	-	0	0	-28.1280508
chr4	156034839	156034839	-	0	0	-33.76809591
chr4	156034968	156034968	-	0	0	-25.99942059
chr4	156233893	156233893	+	0	0	-35.61701523
chr4	156234003	156234003	-	0	0	-32.22336188
chr4	156234028	156234028	-	0	0	-29.44570888
chr5	3216265	3216265	-	8.45E-05	0.00108927	-27.86393714
chr5	3382468	3382468	-	0	0	-32.30568895
chr5	3382479	3382479	-	0	0	-35.06470246



chr5	3382506	3382506	-	0	0	-25.32043462
chr5	3382515	3382515	+	7.24E-12	3.06E-10	-36.90044546
chr5	3382516	3382516	-	0	0	-32.10112868
chr5	4755766	4755766	+	1.83E-06	3.57E-05	-27.4523749
chr5	4755940	4755940	-	2.05E-07	4.78E-06	-26.66897267
chr5	5507977	5507977	-	1.11E-16	7.26E-15	-32.80694586
chr5	5507991	5507991	-	1.45E-11	5.93E-10	-25.69356486
chr5	5750848	5750848	-	2.85E-05	0.0004199	-29.11111111
chr5	7249730	7249730	+	1.22E-07	2.95E-06	-51.71990172
chr5	24347988	24347988	+	0	0	-30.69729341
chr5	24353117	24353117	+	2.40E-08	6.52E-07	-31.01112724
chr5	24364658	24364658	+	0	0	-31.26671577
chr5	24364659	24364659	-	0	0	-25.93478013
chr5	24364670	24364670	+	0	0	-33.39105339
chr5	24364671	24364671	-	0	0	-29.43196803
chr5	24364693	24364693	-	0	0	-32.52224974
chr5	24413766	24413766	+	0.00015526	0.00184391	-29.9689441
chr5	24427428	24427428	-	0	0	-49.01960784
chr5	24427445	24427445	-	0	0	-47.37115313
chr5	24427473	24427473	+	7.05E-08	1.78E-06	-36.71622495
chr5	24427474	24427474	-	3.46E-11	1.36E-09	-31.61849711
chr5	24427493	24427493	+	2.16E-08	5.91E-07	-35.79817312
chr5	24427650	24427650	-	9.34E-12	3.90E-10	-32.23285486
chr5	24427688	24427688	-	0	0	-50.45964023
chr5	24427694	24427694	-	2.06E-10	7.40E-09	-32.72660076
chr5	24428138	24428138	+	0	0	-47.91641648
chr5	24428154	24428154	+	0	0	-39.32423351
chr5	24428181	24428181	+	0	0	-49.08988601
chr5	24428182	24428182	-	0	0	-42.40734875
chr5	24428188	24428188	+	0	0	-49.02067864
chr5	24428189	24428189	-	0	0	-50.03748284
chr5	24428207	24428207	+	2.64E-06	4.99E-05	-65
chr5	24428208	24428208	-	0	0	-52.78761787
chr5	24428315	24428315	-	0	0	-54.1178384
chr5	24428355	24428355	-	0	0	-28.37683986
chr5	24428362	24428362	-	0	0	-35.92076775
chr5	24474263	24474263	+	0	0	-26.03333627
chr5	24474270	24474270	+	0	0	-29.68069561
chr5	24474288	24474288	+	0	0	-30.70982793
chr5	24474289	24474289	-	0	0	-31.68802145
chr5	24474313	24474313	-	0	0	-25.96939083

chr5	24482496	24482496	-	0	0	-30.65233763
chr5	24482581	24482581	-	5.05E-10	1.73E-08	-26.16098463
chr5	24482591	24482591	-	7.96E-14	4.09E-12	-30.10498997
chr5	24482637	24482637	+	3.33E-16	2.11E-14	-25.90140338
chr5	24483013	24483013	-	0	0	-25.69397005
chr5	24488734	24488734	+	0	0	-32.23972765
chr5	24548071	24548071	-	1.88E-14	1.02E-12	-33.84610439
chr5	24591078	24591078	+	0	0	-29.43239897
chr5	24591079	24591079	-	0	0	-30.56142027
chr5	24591088	24591088	+	0	0	-38.03202673
chr5	24591139	24591139	+	0	0	-45.74081832
chr5	24591140	24591140	-	0	0	-30.47107389
chr5	24591162	24591162	+	4.61E-08	1.20E-06	-28.125
chr5	24685032	24685032	+	0	0	-25.73918712
chr5	24750299	24750299	+	0	0	-25.44700752
chr5	24750322	24750322	+	0	0	-27.87693898
chr5	24750337	24750337	+	0	0	-25.12480811
chr5	24750343	24750343	-	0	0	-26.83600352
chr5	24750392	24750392	+	0	0	-25.86762459
chr5	24750409	24750409	+	0	0	-30.68622742
chr5	24757834	24757834	-	4.91E-10	1.68E-08	-27.55102041
chr5	24757871	24757871	-	0.00025144	0.00278596	-26.697476
chr5	24778760	24778760	+	7.75E-14	3.99E-12	-28.34849422
chr5	24778784	24778784	+	8.74E-13	4.05E-11	-27.27704987
chr5	24778800	24778800	+	3.33E-16	2.11E-14	-30.91206311
chr5	24778880	24778880	-	0	0	-32.96795485
chr5	24872111	24872111	+	0	0	-35.45454545
chr5	25059228	25059228	-	0	0	-45.81443299
chr5	25059254	25059254	-	5.62E-09	1.67E-07	-32.56616801
chr5	25532375	25532375	+	0	0	-29.58576622
chr5	30110430	30110430	+	0	0	-28.39885208
chr5	30110442	30110442	+	0	0	-43.62258355
chr5	30110535	30110535	-	0	0	-37.93099785
chr5	30110572	30110572	-	0	0	-27.52240143
chr5	30110576	30110576	-	0	0	-56.8699139
chr5	30110588	30110588	+	0	0	-31.27889779
chr5	30110592	30110592	+	0	0	-30.48681542
chr5	30110615	30110615	+	1.11E-16	7.26E-15	-25.6268081
chr5	30110695	30110695	-	0	0	-26.11797588
chr5	30115941	30115941	-	0	0	-26.81988899
chr5	30115972	30115972	+	3.34E-08	8.86E-07	-26.99239651

chr5	30945087	30945087	-	1.11E-16	7.26E-15	-25.06294016
chr5	30945135	30945135	+	7.60E-06	0.00012933	-25.43556681
chr5	31059484	31059484	+	2.91E-06	5.44E-05	-54.54545455
chr5	31197985	31197985	+	0	0	-29.57136343
chr5	31197986	31197986	-	0.0010537	0.00921483	-26.69555796
chr5	31198082	31198082	+	1.01E-13	5.12E-12	-27.64857881
chr5	31198103	31198103	+	1.55E-15	9.35E-14	-28.74502626
chr5	31254511	31254511	-	3.94E-07	8.74E-06	-36.44444444
chr5	33217646	33217646	-	4.42E-06	7.95E-05	-28.16901408
chr5	33540097	33540097	-	0	0	-28.90848524
chr5	33694984	33694984	+	4.93E-12	2.12E-10	-37.17767929
chr5	33695115	33695115	-	0	0	-36.32795576
chr5	33695149	33695149	-	0	0	-30.80994017
chr5	33695841	33695841	+	0	0	-32.5658731
chr5	33695861	33695861	+	0	0	-49.24482294
chr5	33695964	33695964	-	0	0	-43.69458128
chr5	33695981	33695981	-	0	0	-35.97810869
chr5	33696005	33696005	+	0	0	-43.86035313
chr5	33696006	33696006	-	0	0	-33.40996169
chr5	33696019	33696019	+	0	0	-47.64931396
chr5	33696249	33696249	-	6.17E-11	2.35E-09	-37.88107162
chr5	33700513	33700513	-	0.00046804	0.00470651	-28.85964912
chr5	33700542	33700542	+	0	0	-25.5752355
chr5	33700543	33700543	-	1.84E-07	4.32E-06	-26.08299134
chr5	33723889	33723889	+	0	0	-39.30471648
chr5	33723893	33723893	+	0	0	-44.12228421
chr5	33723900	33723900	+	0	0	-45.65576102
chr5	33723908	33723908	+	0	0	-25.04060901
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chr5	33723980	33723980	+	0	0	-38.85201751
chr5	33724023	33724023	+	0	0	-31.76082863
chr5	33724024	33724024	-	0	0	-32.44776119
chr5	34252531	34252531	-	4.52E-06	8.10E-05	-27.84998434
chr5	34604839	34604839	+	1.21E-05	0.00019636	-26.5060241
chr5	34931982	34931982	+	0	0	-28.14386713
chr5	34931983	34931983	-	1.25E-07	3.04E-06	-31.66666667
chr5	34932126	34932126	+	1.28E-07	3.09E-06	-28.18018018
chr5	35397599	35397599	-	0.00010794	0.00134651	-31.29411765
chr5	35670244	35670244	+	4.44E-16	2.79E-14	-38.1626351
chr5	35670264	35670264	+	1.11E-16	7.26E-15	-44.30889033
chr5	35670456	35670456	-	7.32E-05	0.00096217	-25.70630573

chr5	35670485	35670485	-	3.41E-07	7.65E-06	-29.83312983
chr5	35678986	35678986	+	0	0	-41.63967611
chr5	35679025	35679025	+	2.79E-11	1.11E-09	-31.78347423
chr5	35894623	35894623	+	9.20E-12	3.84E-10	-29.61304952
chr5	35894634	35894634	+	9.71E-08	2.39E-06	-26.7021524
chr5	35922144	35922144	-	7.20E-05	0.0009486	-28.84399551
chr5	36374146	36374146	+	3.87E-14	2.05E-12	-27.89396171
chr5	37893456	37893456	-	0	0	-32.62589532
chr5	38483812	38483812	+	0.00051974	0.00513797	-26.625387
chr5	39715208	39715208	-	4.92E-10	1.69E-08	-25.81929037
chr5	43771596	43771596	+	2.06E-11	8.30E-10	-27.45127436
chr5	44094873	44094873	-	6.10E-09	1.81E-07	-28.90103218
chr5	44101795	44101795	-	0	0	-32.96938585
chr5	44246665	44246665	+	0.00035228	0.00370712	-39.875
chr5	47887514	47887514	+	0.00062918	0.0060248	-36.57142857
chr5	52535053	52535053	-	0	0	-26.11156838
chr5	52910645	52910645	-	2.10E-08	5.76E-07	-31.11056126
chr5	53013451	53013451	-	0.00061987	0.00595122	-27.5
chr5	53013493	53013493	-	1.49E-06	2.95E-05	-28
chr5	53998079	53998079	-	8.94E-10	2.97E-08	-28.44044164
chr5	57720599	57720599	+	0	0	-27.25
chr5	57720610	57720610	+	0	0	-29.67603337
chr5	57720754	57720754	+	0	0	-29.26779809
chr5	57720755	57720755	-	0	0	-33.34840835
chr5	57720780	57720780	+	0	0	-25.07815683
chr5	57720900	57720900	-	0	0	-28.39771052
chr5	59439943	59439943	+	0.00084572	0.00769522	-26.66666667
chr5	62314158	62314158	-	0	0	-33.46247542
chr5	63875052	63875052	+	0	0	-27.6809712
chr5	63875135	63875135	-	0	0	-25.13610608
chr5	63932814	63932814	-	5.52E-06	9.70E-05	-31.88449848
chr5	64298843	64298843	-	0	0	-49.79251767
chr5	64298855	64298855	-	0	0	-54.55623388
chr5	64298863	64298863	-	0	0	-36.28011952
chr5	64392496	64392496	+	0	0	-26.5273622
chr5	64647334	64647334	+	7.84E-06	0.00013302	-29.42307692
chr5	64647566	64647566	+	3.76E-10	1.31E-08	-43.02279874
chr5	64647567	64647567	-	2.89E-11	1.14E-09	-42.04715204
chr5	65175308	65175308	-	6.75E-05	0.00089646	40.96969697
chr5	65561815	65561815	+	0.00021156	0.00240443	-41.12318841
chr5	66004676	66004676	-	8.39E-12	3.52E-10	-39.07563025

chr5	66218808	66218808	+	0	0	-32.56081263
chr5	66218895	66218895	-	2.93E-14	1.57E-12	-28.88999325
chr5	66312527	66312527	-	0	0	-33.05369709
chr5	66312534	66312534	-	0	0	-33.42001987
chr5	66312544	66312544	-	0	0	-35.69099589
chr5	66337142	66337142	+	0	0	-33.24499069
chr5	66337143	66337143	-	0	0	-27.13895637
chr5	66362582	66362582	+	0	0	-25.94611145
chr5	66469802	66469802	+	4.49E-09	1.35E-07	-27.23063973
chr5	66469813	66469813	+	6.51E-10	2.20E-08	-27.16312057
chr5	66470000	66470000	-	0	0	-39.56162925
chr5	66545982	66545982	+	6.14E-09	1.82E-07	-33.16564858
chr5	66745448	66745448	+	0	0	-28.58860269
chr5	66800238	66800238	+	1.10E-06	2.24E-05	-49.02143523
chr5	66801872	66801872	+	3.83E-08	1.01E-06	-31.18556701
chr5	67377397	67377397	-	1.99E-09	6.29E-08	-30.59698047
chr5	67426507	67426507	+	0	0	-32.76659769
chr5	67600560	67600560	-	1.98E-09	6.28E-08	-35.21311475
chr5	67609135	67609135	-	3.53E-14	1.88E-12	-36.53189578
chr5	67633921	67633921	+	0	0	-38.03030303
chr5	67633971	67633971	+	4.97E-14	2.61E-12	-27.36486486
chr5	73360507	73360507	-	0	0	-26.46552784
chr5	73734812	73734812	-	0	0	-26.21072556
chr5	74076956	74076956	+	0	0	-27.02044582
chr5	74076957	74076957	-	0	0	-30.26424695
chr5	74077236	74077236	-	1.31E-09	4.25E-08	-36.67285096
chr5	74077244	74077244	-	1.93E-07	4.53E-06	-30.58467742
chr5	74077269	74077269	-	9.06E-10	3.01E-08	-35.32072368
chr5	74078057	74078057	+	0	0	-29.60800929
chr5	74078075	74078075	+	0	0	-29.22605443
chr5	74078076	74078076	-	0	0	-31.39001108
chr5	74078121	74078121	-	0	0	-26.52538333
chr5	74172415	74172415	-	9.89E-10	3.27E-08	-29.99441575
chr5	74172418	74172418	-	4.52E-14	2.38E-12	-34.68518777
chr5	74172438	74172438	-	0	0	-38.97959184
chr5	74172441	74172441	-	2.71E-10	9.59E-09	-29.02357704
chr5	74172460	74172460	+	0	0	-32.96319092
chr5	74172465	74172465	+	0	0	-25.808244
chr5	74214701	74214701	-	9.40E-06	0.00015652	-27.38519213
chr5	74214727	74214727	-	2.48E-09	7.77E-08	-38.89843452
chr5	74260517	74260517	+	0	0	-27.60610372

chr5	74260656	74260656	-	0	0	-30.63980682
chr5	74823272	74823272	-	0	0	-25.1876819
chr5	74874558	74874558	+	2.64E-11	1.05E-09	-25.27449729
chr5	75149366	75149366	+	2.81E-10	9.91E-09	-35.47619048
chr5	75589461	75589461	-	2.38E-12	1.06E-10	-40.20058888
chr5	75604526	75604526	+	3.48E-11	1.37E-09	-32.97484907
chr5	75628092	75628092	+	0	0	-39.12401055
chr5	75743822	75743822	+	1.11E-16	7.26E-15	-26.63617219
chr5	75800508	75800508	-	1.33E-09	4.31E-08	-32.28736581
chr5	75800528	75800528	-	1.27E-07	3.08E-06	-28.29158638
chr5	75800537	75800537	-	3.65E-09	1.11E-07	-31.21026012
chr5	76079639	76079639	+	0.00043647	0.00443724	-32.89473684
chr5	76079844	76079844	-	2.12E-07	4.93E-06	-27.38352028
chr5	76363209	76363209	+	1.30E-05	0.0002097	-27.40237238
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chr5	76713945	76713945	+	3.94E-05	0.00056013	-27.33333333
chr5	77114996	77114996	-	6.73E-13	3.16E-11	-25.89417989
chr5	77115023	77115023	-	3.22E-15	1.89E-13	-28.36192046
chr5	77115035	77115035	-	1.11E-16	7.26E-15	-28.98404278
chr5	77122871	77122871	+	0	0	-32.80900852
chr5	77122897	77122897	+	0	0	-35.45200624
chr5	77122953	77122953	+	0	0	-39.67313059
chr5	77122954	77122954	-	0	0	-34.4853849
chr5	77122994	77122994	-	0	0	-36.81219681
chr5	77357555	77357555	-	4.01E-05	0.00056868	-32.0802005
chr5	77405861	77405861	-	7.30E-09	2.14E-07	-25.5389357
chr5	77429256	77429256	+	0.0002848	0.00309854	-31.61196911
chr5	88679470	88679470	-	0.00022535	0.0025366	-31.45057766
chr5	90394660	90394660	-	0.00011457	0.00141706	-28.00207039
chr5	90786299	90786299	-	0	0	-25.35934446
chr5	90789234	90789234	+	1.09E-07	2.67E-06	-28.10168555
chr5	91958002	91958002	+	0	0	-35.96279823
chr5	91958003	91958003	-	0	0	-34.22884091
chr5	92228950	92228950	-	0	0	-26.20256787
chr5	92368661	92368661	-	0.00070152	0.00659253	-27.5248561
chr5	92450341	92450341	+	4.51E-06	8.08E-05	-30.71658615
chr5	92503641	92503641	-	4.01E-11	1.56E-09	-27.23753666
chr5	92503659	92503659	-	0	0	-31.67538669
chr5	92674793	92674793	+	9.59E-05	0.00121585	-29.43911654
chr5	92699245	92699245	-	0.00056281	0.00549221	-25.92476489
chr5	92699288	92699288	+	0	0	-25.43926808

chr5	92699296	92699296	+	0	0	-29.3456737
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chr5	92809496	92809496	-	2.68E-07	6.14E-06	-25.44642857
chr5	92809499	92809499	-	4.39E-09	1.33E-07	-29.7389816
chr5	92959844	92959844	+	0	0	-32.73846894
chr5	92959994	92959994	-	1.27E-11	5.23E-10	-33.00878972
chr5	95371354	95371354	+	1.69E-07	4.00E-06	55.55555556
chr5	95974059	95974059	-	0	0	-25.8518339
chr5	96979404	96979404	+	0	0	-27.19918458
chr5	97935513	97935513	+	0	0	-38.7616554
chr5	97935517	97935517	+	0	0	-31.30568207
chr5	97935531	97935531	+	0	0	-43.49261226
chr5	97935532	97935532	-	0	0	-38.6411278
chr5	97935535	97935535	+	0	0	-47.9716202
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chr5	97935539	97935539	+	0	0	-42.08049387
chr5	97935540	97935540	-	0	0	-31.24062969
chr5	97935543	97935543	+	0	0	-35.31174049
chr5	97935544	97935544	-	0	0	-32.18479234
chr5	97935551	97935551	+	0	0	-44.25807442
chr5	97935552	97935552	-	0	0	-40.90509788
chr5	97935554	97935554	-	0	0	-26.45349763
chr5	97935555	97935555	+	0	0	-40.23907834
chr5	97935556	97935556	-	0	0	-40.31558275
chr5	97935565	97935565	-	0	0	-49.89094788
chr5	97935569	97935569	-	0	0	-32.49658936
chr5	97935573	97935573	+	0	0	-31.6071124
chr5	97935576	97935576	+	0	0	-39.74093159
chr5	97935580	97935580	+	0	0	-47.28644901
chr5	97935581	97935581	-	0	0	-46.9400464
chr5	97935593	97935593	+	0	0	-44.26403451
chr5	97935594	97935594	-	0	0	-50.77576252
chr5	97935595	97935595	+	0	0	-46.90939344
chr5	97935596	97935596	-	0	0	-48.22189281
chr5	97935613	97935613	+	0	0	-47.54672291
chr5	97935614	97935614	-	0	0	-47.46320326
chr5	97935633	97935633	+	0	0	-34.45988324
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chr5	97935670	97935670	+	0	0	-45.12411446
chr5	97935727	97935727	-	0	0	-30.37994987
chr5	97935734	97935734	-	0	0	-45.43544937

chr5	97935751	97935751	-	0	0	-45.20237304
chr5	97935757	97935757	+	3.42E-09	1.05E-07	-55.89907605
chr5	97935758	97935758	-	0	0	-32.90982368
chr5	98166233	98166233	+	0	0	-30.67518144
chr5	98166256	98166256	+	0	0	-34.97867804
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chr5	98192895	98192895	+	0	0	-26.5051262
chr5	98568671	98568671	+	0.00074291	0.00691276	31.81818182
chr5	99032994	99032994	-	0.00113134	0.00976514	30.83333333
chr5	99336956	99336956	-	6.40E-12	2.72E-10	-27.66535243
chr5	99688009	99688009	+	6.39E-07	1.36E-05	-41.30434783
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chr5	100091857	100091857	-	0	0	-27.82035806
chr5	100751564	100751564	-	0.00028533	0.00310331	-41.78321678
chr5	101246269	101246269	+	9.68E-05	0.00122597	47.02380952
chr5	101539327	101539327	+	0	0	-25.65285112
chr5	101969915	101969915	+	3.10E-08	8.27E-07	-25.84016196
chr5	101970021	101970021	-	0	0	-29.15647155
chr5	101970034	101970034	-	0	0	-29.28913747
chr5	102046265	102046265	+	2.86E-06	5.37E-05	25.62136436
chr5	102752048	102752048	+	0.00023315	0.00261206	-27.97903851
chr5	102752354	102752354	-	1.23E-10	4.54E-09	-25.62951693
chr5	102768870	102768870	+	4.68E-05	0.00065093	-27.70390071
chr5	102845981	102845981	-	0	0	-33.47877658
chr5	102845997	102845997	-	0	0	-32.09392771
chr5	102846031	102846031	-	0	0	-31.57637678
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chr5	102846164	102846164	-	0	0	-28.98769389
chr5	103360480	103360480	+	0.00068435	0.00646071	36.0446571
chr5	103423671	103423671	+	0	0	-33.89981652
chr5	103436115	103436115	+	0	0	-25.94235589
chr5	103436131	103436131	+	0	0	-29.58059418
chr5	103436132	103436132	-	0	0	-31.98462929
chr5	103436136	103436136	+	0	0	-35.03820883
chr5	103436137	103436137	-	0	0	-34.57788077
chr5	103436154	103436154	+	0	0	-38.10121995
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chr5	103436764	103436764	+	0	0	-35.19829401
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chr5	103814658	103814658	+	0	0	-35.81067307
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chr5	103814772	103814772	-	0	0	-33.04407303
chr5	103854461	103854461	-	6.54E-09	1.93E-07	-36.614623
chr5	103854473	103854473	-	3.49E-07	7.81E-06	-31.41957053
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chr5	105427387	105427387	+	2.22E-13	1.10E-11	-30.43024678
chr5	105707069	105707069	-	0.00049097	0.00489925	-34.79674797
chr5	106123060	106123060	+	0.00023874	0.00266593	27.06571243
chr5	106502088	106502088	-	0.00056759	0.00553117	25.91836735
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chr5	107001981	107001981	-	0.00011574	0.00142969	-29.48717949
chr5	107018624	107018624	-	0	0	-29.06157414
chr5	107721030	107721030	+	0	0	-41.77516269
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chr5	107721177	107721177	-	0	0	-49.96072931
chr5	107721186	107721186	-	0	0	-46.24255358
chr5	107721190	107721190	-	0	0	-52.58908255
chr5	107721207	107721207	-	0	0	-58.69057502
chr5	107721217	107721217	+	0	0	-50.07968127
chr5	107721218	107721218	-	0	0	-52.24896483
chr5	107721220	107721220	+	0	0	-59.23860115
chr5	107721224	107721224	+	5.09E-13	2.42E-11	-40.31514392
chr5	107721239	107721239	+	0	0	-53.45728198
chr5	107721243	107721243	+	0	0	-71.9477645
chr5	107721265	107721265	+	0	0	-54.25040425
chr5	107721454	107721454	-	4.81E-13	2.29E-11	-45.86956522
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chr5	107721470	107721470	-	1.80E-14	9.82E-13	-53.01026451
chr5	107721472	107721472	-	7.61E-13	3.55E-11	-40.09080142
chr5	107721481	107721481	-	3.40E-14	1.81E-12	-42.2325306
chr5	107721503	107721503	+	0	0	-40.52190153
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chr5	107721524	107721524	+	0	0	-49.78935698
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chr5	107721529	107721529	-	0	0	-55.17709563
chr5	107721537	107721537	+	0	0	-50.32686219
chr5	107721538	107721538	-	0	0	-45.77974711
chr5	107721541	107721541	+	0	0	-50.85261129
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chr5	107721550	107721550	+	0	0	-47.79920617
chr5	107721551	107721551	-	0	0	-53.53402227
chr5	107721552	107721552	+	0	0	-29.92139552
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chr5	107721558	107721558	+	0	0	-41.2345117
chr5	107721559	107721559	-	0	0	-51.52453444
chr5	107721561	107721561	+	0	0	-39.70639944
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chr5	107721626	107721626	-	0	0	-35.49169779
chr5	107721630	107721630	+	0	0	-29.91647684
chr5	107721636	107721636	+	0	0	-55.94396344
chr5	107721637	107721637	-	0	0	-46.92275858
chr5	107721640	107721640	+	0	0	-49.00085572
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chr5	107721651	107721651	+	0	0	-33.63567649
chr5	107721652	107721652	-	0	0	-31.92387619
chr5	107721657	107721657	+	0	0	-44.47860963
chr5	107721658	107721658	-	0	0	-39.24206454
chr5	107721662	107721662	+	0	0	-45.81715736
chr5	107721663	107721663	-	0	0	-45.85231376
chr5	107721664	107721664	+	0	0	-41.10593352
chr5	107721665	107721665	-	0	0	-41.79916576
chr5	107721671	107721671	-	0	0	-31.66211053
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chr5	108366590	108366590	-	0	0	-25.36426561
chr5	108448293	108448293	-	0.00027513	0.0030089	-25.14005602
chr5	109531512	109531512	+	0.00032402	0.00345539	-31.28205128
chr5	110100490	110100490	+	0	0	-36.54781718
chr5	110363640	110363640	+	0	0	-37.63888889

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chr5	110480755	110480755	+	0	0	-32.71372724
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chr5	110480890	110480890	-	0	0	-26.69772069
chr5	110480898	110480898	-	0	0	-25.61140159
chr5	110739537	110739537	-	1.11E-16	7.26E-15	-46.70168067
chr5	111190956	111190956	-	8.46E-13	3.93E-11	-37.21194879
chr5	111200615	111200615	-	0	0	-26.04570731
chr5	111215065	111215065	-	0.000484	0.00484073	-28.25806452
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chr5	111401252	111401252	+	0	0	-33.69995317
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chr5	111418559	111418559	+	0	0	-26.26507734
chr5	111418573	111418573	+	0	0	-32.96086467
chr5	111418584	111418584	+	0	0	-25.8978243
chr5	111418588	111418588	+	0	0	-27.99869622
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chr5	111418717	111418717	+	0	0	-44.94088021
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chr5	111418760	111418760	+	0	0	-37.08578345
chr5	111418761	111418761	-	0	0	-31.77773537
chr5	111418777	111418777	+	0	0	-43.19243896
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chr5	111418786	111418786	+	0	0	-59.42794957
chr5	111418787	111418787	-	0	0	-55.70985906
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chr5	111418796	111418796	-	0	0	-39.18022636
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chr5	111418801	111418801	-	0	0	-38.84471585
chr5	111418823	111418823	+	0	0	-40.37216429
chr5	111418824	111418824	-	0	0	-39.48741049
chr5	111418833	111418833	+	0	0	-53.56795316
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chr5	111418953	111418953	-	0	0	-59.16431234
chr5	111418964	111418964	-	0	0	-42.81645411
chr5	111418977	111418977	+	1.70E-14	9.30E-13	-40

chr5	111419191	111419191	-	0	0	-40.00948617
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chr5	111419206	111419206	-	0	0	-45.84055213
chr5	111419218	111419218	-	0	0	-63.15923639
chr5	111419221	111419221	-	0	0	-54.23593916
chr5	111419226	111419226	+	0	0	-68.21521553
chr5	111419227	111419227	-	0	0	-55.67623122
chr5	111419240	111419240	+	0	0	-53.52019463
chr5	111419262	111419262	+	0	0	-69.22507534
chr5	111419268	111419268	+	0	0	-72.80392313
chr5	111419270	111419270	+	0	0	-70.53359782
chr5	111419354	111419354	-	0	0	-59.67603421
chr5	111419370	111419370	-	0	0	-52.96817255
chr5	111419381	111419381	+	0	0	-51.70789894
chr5	111419382	111419382	-	0	0	-40.97649427
chr5	111419468	111419468	-	0	0	-36.86426187
chr5	111419489	111419489	-	0	0	-57.98811
chr5	111419503	111419503	-	0	0	-42.72268264
chr5	111419505	111419505	-	0	0	-49.65770309
chr5	111419517	111419517	+	0	0	-29.03924033
chr5	111419518	111419518	-	0	0	-36.92734751
chr5	111419524	111419524	+	0	0	-28.41289637
chr5	111419530	111419530	+	0	0	-30.22668842
chr5	111419537	111419537	+	0	0	-37.09914208
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chr5	111419632	111419632	-	0	0	-29.40724937
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chr5	111419682	111419682	+	0	0	-32.40535288
chr5	111419778	111419778	-	0	0	-44.7973307
chr5	111419788	111419788	-	0	0	-35.38648953
chr5	111419812	111419812	-	0	0	-34.62828813
chr5	111419816	111419816	+	0	0	-42.14587841
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chr5	111419831	111419831	+	0	0	-55.45101553
chr5	111419837	111419837	+	0	0	-53.11786693
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chr5	111419929	111419929	-	0	0	-63.34903785
chr5	111419940	111419940	-	0	0	-47.12080154
chr5	111419942	111419942	-	0	0	-41.96564787

chr5	111419962	111419962	+	0	0	-44.74559752
chr5	111419963	111419963	-	0	0	-50.91656986
chr5	111419966	111419966	+	0	0	-39.10609108
chr5	111419991	111419991	+	0	0	-43.05596539
chr5	111419992	111419992	-	0	0	-43.35607814
chr5	111420003	111420003	+	0	0	-52.63295554
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chr5	111420014	111420014	-	0	0	-61.87650435
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chr5	111420214	111420214	-	0	0	-43.71942126
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chr5	111420297	111420297	+	0	0	-27.20479606
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chr5	111420308	111420308	+	0	0	-26.24156433
chr5	111420309	111420309	-	0	0	-26.98915618
chr5	111420315	111420315	+	0	0	-36.43171456
chr5	111420316	111420316	-	0	0	-38.66108199
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chr5	111420381	111420381	-	3.71E-09	1.13E-07	-30.45563549
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chr5	111420401	111420401	-	0	0	-27.40463047
chr5	111420410	111420410	-	0	0	-26.19096501
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chr5	111420460	111420460	+	1.09E-11	4.50E-10	-29.41924006
chr5	111420793	111420793	+	0	0	-35.10478211

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chr5	111420892	111420892	-	0	0	-42.06554508
chr5	111420895	111420895	-	0	0	-41.0616043
chr5	111420902	111420902	-	0	0	-41.60589297
chr5	111420953	111420953	+	0	0	-31.39281686
chr5	111420954	111420954	-	0	0	-30.93113265
chr5	111431719	111431719	+	0	0	-26.77427809
chr5	111431720	111431720	-	0	0	-25.98948961
chr5	111506619	111506619	+	0	0	-26.64897779
chr5	111512563	111512563	-	1.23E-06	2.49E-05	-31.49350649
chr5	111530978	111530978	+	1.53E-07	3.65E-06	-36.82051282
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chr5	111531249	111531249	-	8.90E-05	0.00113955	-28.18181818
chr5	111531256	111531256	+	0	0	-27.68854598
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chr5	111531313	111531313	-	0	0	-30.61546889
chr5	111531371	111531371	+	1.89E-15	1.13E-13	-54.05462406
chr5	111531557	111531557	-	0	0	-41.75925926
chr5	111531591	111531591	-	0	0	-36.91785323
chr5	111626178	111626178	+	0	0	-34.21094821
chr5	111639648	111639648	+	4.22E-12	1.83E-10	-28.86531226
chr5	111639650	111639650	+	0	0	-31.04840442
chr5	111639662	111639662	+	2.73E-12	1.21E-10	-29.14843884
chr5	111639663	111639663	-	0	0	-30.92717087
chr5	111639670	111639670	+	9.99E-15	5.59E-13	-33.14593301
chr5	111639671	111639671	-	0	0	-29.04415251
chr5	111639679	111639679	-	0	0	-29.97554
chr5	111702423	111702423	-	4.85E-05	0.00067163	-25.26802057
chr5	111790696	111790696	+	0	0	-26.17640424
chr5	111805897	111805897	+	0	0	-29.56884935
chr5	111805898	111805898	-	0	0	-32.79273519
chr5	112077200	112077200	+	7.87E-05	0.00102466	-26.64041995
chr5	112133933	112133933	-	2.64E-05	0.00039287	-27.21017515
chr5	112213840	112213840	-	0	0	-28.09528954
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chr5	112281184	112281184	-	0	0	-31.0879056
chr5	112292105	112292105	+	4.58E-06	8.21E-05	-30.40638607
chr5	112391066	112391066	+	4.01E-06	7.28E-05	-26.70068027
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chr5	112391864	112391864	-	4.73E-11	1.83E-09	-41.8802037
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chr5	112758795	112758795	-	1.87E-05	0.00028978	46.46892655
chr5	113026040	113026040	-	2.13E-08	5.84E-07	-25.66504841
chr5	113027014	113027014	+	2.42E-07	5.58E-06	-28.71459695
chr5	113107519	113107519	-	1.37E-07	3.30E-06	-31.99840492
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chr5	113146027	113146027	+	1.76E-12	7.94E-11	-38.81809493
chr5	113164284	113164284	-	1.18E-05	0.00019246	-26.35869565
chr5	113164326	113164326	+	0	0	-27.01341433
chr5	113164351	113164351	-	0	0	-29.52852234
chr5	113164598	113164598	-	5.20E-09	1.56E-07	-43.18181818
chr5	113164653	113164653	+	8.34E-08	2.08E-06	-35.85884795
chr5	113164774	113164774	-	0.00085608	0.00777325	-35.89189189
chr5	113164780	113164780	+	0	0	-39.45076514
chr5	113164813	113164813	+	0	0	-29.77693966
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chr5	113165461	113165461	+	0	0	-25.73243291
chr5	113174812	113174812	-	1.01E-06	2.07E-05	-29.39516129
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chr5	113336605	113336605	+	0	0	-26.64360598
chr5	113354749	113354749	+	0	0	-27.08692566
chr5	113503501	113503501	+	0	0	-46.45821804
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chr5	113503731	113503731	+	0	0	-40.35890529
chr5	113503732	113503732	-	8.33E-15	4.69E-13	-45.23204069
chr5	113503737	113503737	+	0	0	-38.24535538
chr5	113503868	113503868	-	6.36E-09	1.88E-07	-52.34192037
chr5	113516950	113516950	+	0	0	-29.06086653
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chr5	113986884	113986884	+	5.03E-06	8.92E-05	-47.56235828
chr5	113986885	113986885	-	0	0	-33.96328427
chr5	113987122	113987122	-	2.46E-10	8.73E-09	-32.67405063
chr5	114146705	114146705	-	0	0	-27.34133479
chr5	114146720	114146720	-	0	0	-31.55492241
chr5	114146780	114146780	+	0	0	-28.67164464
chr5	114294752	114294752	-	4.28E-05	0.00060204	-27.33355637
chr5	114363731	114363731	+	7.93E-09	2.31E-07	-48.32285115
chr5	114364020	114364020	+	0	0	-28.10570723
chr5	114550579	114550579	+	0	0	-29.6621762
chr5	114550613	114550613	+	0	0	-27.85269077
chr5	114550614	114550614	-	0	0	-33.51590985
chr5	114551087	114551087	-	0	0	-27.56350626
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chr5	114654491	114654491	-	1.52E-08	4.26E-07	-37.01058201
chr5	114657706	114657706	+	0	0	-32.57157464
chr5	114657707	114657707	-	0	0	-28.69892884
chr5	114658781	114658781	+	0	0	-39.4477853
chr5	114658859	114658859	-	0	0	-31.41536009
chr5	114691494	114691494	-	1.05E-08	3.01E-07	-32.88603289
chr5	114779824	114779824	+	0.00026352	0.00290078	-32.04930663
chr5	114980307	114980307	+	0	0	-30.71845906
chr5	114980329	114980329	+	0	0	-30.50978169
chr5	114980381	114980381	-	0	0	-28.71417737
chr5	115159202	115159202	-	0	0	-51.19110569
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chr5	115168812	115168812	+	0	0	-30.11349915
chr5	115169116	115169116	-	0	0	-29.80423014
chr5	115169166	115169166	+	0	0	-39.75767254
chr5	115169167	115169167	-	0	0	-33.0267815
chr5	115186216	115186216	+	0	0	-27.27636737
chr5	115192224	115192224	-	3.15E-11	1.24E-09	-27.50377216
chr5	115215775	115215775	-	7.76E-07	1.63E-05	-25.98965649
chr5	115215814	115215814	+	0	0	-28.87716011
chr5	115216156	115216156	-	7.09E-12	3.00E-10	-28.93117186
chr5	115231433	115231433	-	0	0	-29.18431498



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chr5	115235215	115235215	-	0	0	-26.17378041
chr5	115235233	115235233	-	0	0	-29.09791872
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chr5	115403538	115403538	+	2.28E-08	6.20E-07	-47.77933614
chr5	115403587	115403587	+	7.79E-06	0.00013226	-28.53949329
chr5	115403930	115403930	-	0	0	-32.46992309
chr5	115404586	115404586	-	0	0	-26.69536107
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chr5	115480098	115480098	+	0	0	-35.95847751
chr5	115480099	115480099	-	0	0	-30.03088854
chr5	115480132	115480132	+	1.33E-15	8.06E-14	-28.60475311
chr5	115480142	115480142	+	7.88E-15	4.45E-13	-28.54691076
chr5	115480144	115480144	+	0	0	-30.48501414
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chr5	115483270	115483270	-	6.34E-12	2.69E-10	-28.41714847
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chr5	115544461	115544461	-	0	0	-45.33473036
chr5	115544473	115544473	-	0	0	-34.70341338
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chr5	115544805	115544805	-	0	0	-33.25265056
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chr5	115545454	115545454	+	6.10E-09	1.81E-07	-47.73614364
chr5	115545491	115545491	+	0.00044008	0.00446803	-25.23809524
chr5	115555385	115555385	-	0	0	-25.40957385
chr5	115907608	115907608	+	2.37E-10	8.44E-09	-32.52197431
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chr5	116030648	116030648	+	0	0	-28.42461886
chr5	116030649	116030649	-	0	0	-33.71862532
chr5	116030653	116030653	+	0	0	-33.2429889

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chr5	116082767	116082767	+	7.77E-16	4.79E-14	-25.23997741
chr5	116409893	116409893	+	3.33E-16	2.11E-14	-25.32523753
chr5	116409995	116409995	-	0	0	-37.580189
chr5	116457188	116457188	-	6.67E-11	2.53E-09	-25.13538163
chr5	117121597	117121597	-	8.29E-07	1.73E-05	-34.50996678
chr5	117140335	117140335	+	0	0	-28.39031562
chr5	117219063	117219063	+	1.91E-12	8.55E-11	-27.4538396
chr5	117243161	117243161	+	2.22E-16	1.43E-14	-26.67253853
chr5	117274687	117274687	-	0	0	-33.84529683
chr5	117314428	117314428	+	0	0	-38.44621514
chr5	117314438	117314438	+	0	0	-40.93141223
chr5	117358438	117358438	-	7.79E-14	4.01E-12	-27.7228139
chr5	118014842	118014842	+	3.84E-07	8.53E-06	-29.32806324
chr5	118036922	118036922	-	7.83E-05	0.00101946	-28.1585861
chr5	118036924	118036924	-	1.55E-08	4.34E-07	-41.31077724
chr5	118036949	118036949	-	2.08E-07	4.86E-06	-37.80207135
chr5	118273400	118273400	-	2.54E-06	4.81E-05	-35.74857486
chr5	118297480	118297480	+	0	0	-25.54123811
chr5	118328478	118328478	+	0	0	-30.67093237
chr5	118328502	118328502	+	3.11E-15	1.82E-13	-27.34362298
chr5	118328503	118328503	-	1.89E-15	1.13E-13	-25.76877181
chr5	118344473	118344473	+	0	0	-26.42612545
chr5	118344488	118344488	+	0	0	-32.17285485
chr5	118344489	118344489	-	2.25E-06	4.30E-05	-29.1413117
chr5	118344491	118344491	+	0	0	-28.08359062
chr5	118344513	118344513	-	3.33E-16	2.11E-14	-42.46543779
chr5	118435416	118435416	+	0	0	-41.67033957
chr5	118435442	118435442	+	0	0	-29.30963308
chr5	118435463	118435463	+	0	0	-26.1391844
chr5	118435596	118435596	-	0.00055855	0.00545735	-29.00912647
chr5	118436690	118436690	+	0	0	-32.05920342
chr5	118436729	118436729	+	0	0	-45.13952807
chr5	118436792	118436792	+	0	0	-41.56790921
chr5	118436793	118436793	-	0	0	-37.53075358
chr5	118436812	118436812	+	0	0	-48.12983565
chr5	118436874	118436874	-	0	0	-31.43825687
chr5	118436884	118436884	-	0	0	-40.15738949
chr5	118436912	118436912	-	0	0	-30.39468039
chr5	118436921	118436921	+	0	0	-38.49678169
chr5	118436984	118436984	-	0	0	-49.48360005

chr5	118437004	118437004	-	0	0	-55.64977258
chr5	118437006	118437006	-	0	0	-50.86093184
chr5	118437010	118437010	-	0	0	-53.03724548
chr5	118437016	118437016	+	0	0	-34.93191187
chr5	118437017	118437017	-	0	0	-43.04008062
chr5	118437031	118437031	+	0	0	-32.30760725
chr5	118437141	118437141	-	0	0	-31.89942529
chr5	118437189	118437189	-	0	0	-26.69616519
chr5	118458872	118458872	+	0	0	-28.95682215
chr5	118458873	118458873	-	0	0	-25.27439833
chr5	118459782	118459782	+	6.22E-11	2.37E-09	-31.77809388
chr5	118514641	118514641	-	4.21E-05	0.0005936	-25.90636255
chr5	118514675	118514675	+	4.45E-06	7.98E-05	-26
chr5	118514682	118514682	+	0.00015009	0.00179087	-32.02614379
chr5	118514910	118514910	-	3.04E-07	6.88E-06	-41.13193944
chr5	118564517	118564517	+	0.00060819	0.00585792	-28.33920877
chr5	118721536	118721536	-	0	0	-26.67588554
chr5	119055608	119055608	+	0.00065137	0.00620205	-27.0471464
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chr5	119602078	119602078	+	0	0	-28.21060298
chr5	119608971	119608971	+	0	0	-25.76499388
chr5	119608986	119608986	+	0	0	-28.54843289
chr5	119608996	119608996	+	0	0	-39.6263911
chr5	119609129	119609129	+	0	0	-31.06090347
chr5	119609130	119609130	-	6.66E-16	4.13E-14	-27.04173442
chr5	119609257	119609257	-	0	0	-25.24941594
chr5	119609268	119609268	+	1.24E-06	2.50E-05	-25.61834562
chr5	119644160	119644160	+	7.71E-06	0.00013103	-33.13847278
chr5	119644307	119644307	-	0.00023141	0.00259523	-30.43478261
chr5	119651636	119651636	+	9.05E-06	0.00015138	-25.5012987
chr5	119651797	119651797	-	0	0	-31.31829574
chr5	119656077	119656077	-	1.11E-07	2.71E-06	-25.80952381
chr5	119656480	119656480	+	1.75E-09	5.60E-08	-27.82288954
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chr5	120034887	120034887	+	3.68E-13	1.77E-11	-30.91478697
chr5	120085522	120085522	-	9.59E-06	0.0001594	-34.40285205
chr5	120097345	120097345	+	0	0	-25.30255482
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chr5	120156756	120156756	+	0	0	-31.49988507
chr5	120156805	120156805	+	0	0	-30.37853281
chr5	120179205	120179205	-	7.92E-06	0.00013421	-39.25518926
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chr5	120232091	120232091	+	4.52E-07	9.92E-06	-32.15442415
chr5	120232239	120232239	+	0	0	-28.88872676
chr5	120459822	120459822	+	3.23E-08	8.61E-07	-26.31252156
chr5	120462949	120462949	+	4.03E-06	7.30E-05	-28.25630252
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chr5	120463215	120463215	-	0	0	-27.93772861
chr5	120463217	120463217	-	0	0	-39.14805954
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chr5	120476386	120476386	-	0	0	-28.47224444
chr5	120476405	120476405	+	0	0	-31.61814453
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chr5	120476432	120476432	+	0	0	-28.66062769
chr5	120476595	120476595	+	0	0	-25.905785
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chr5	120565810	120565810	-	3.13E-06	5.81E-05	-37.70433547
chr5	120574888	120574888	+	0	0	-27.77184253
chr5	120586793	120586793	+	0	0	-26.82562847
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chr5	120606737	120606737	+	5.23E-06	9.25E-05	-32.90361446
chr5	120606738	120606738	-	0	0	-31.06567346
chr5	120606742	120606742	+	3.16E-06	5.86E-05	-34.36807095
chr5	120606748	120606748	+	1.09E-06	2.22E-05	-29.1347207
chr5	120662200	120662200	-	0.00014275	0.00171507	-28.57546637
chr5	120688941	120688941	-	2.33E-15	1.38E-13	-25.12956811
chr5	121401863	121401863	+	3.47E-07	7.77E-06	-29.25170068
chr5	121471846	121471846	+	0	0	-25.14698985
chr5	121471847	121471847	-	0	0	-27.20281462
chr5	121471888	121471888	-	0	0	-33.32673619
chr5	121854936	121854936	+	0	0	-25.14936233
chr5	122048475	122048475	+	1.15E-14	6.42E-13	-26.39277933
chr5	122104992	122104992	+	0.00019484	0.0022408	-30.83333333
chr5	122154444	122154444	+	1.35E-12	6.13E-11	-29.27884615
chr5	122291678	122291678	+	4.61E-05	0.00064317	-31.02941176
chr5	122336666	122336666	-	3.78E-13	1.82E-11	-27.91237113
chr5	122650226	122650226	+	7.99E-15	4.51E-13	-30.6002675

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chr5	122735847	122735847	-	1.49E-08	4.18E-07	-44.27432217
chr5	122761070	122761070	+	2.41E-06	4.59E-05	-39.03079494
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chr5	122774954	122774954	-	2.09E-10	7.49E-09	-38.45714286
chr5	122774971	122774971	-	7.18E-06	0.00012299	-26.05633803
chr5	122911504	122911504	-	2.55E-05	0.00038119	-37.13043478
chr5	122986036	122986036	+	1.22E-07	2.96E-06	-31.03148542
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chr5	122986230	122986230	-	0.00015389	0.00182979	-28.94117647
chr5	123060421	123060421	+	0	0	-36.32522407
chr5	123060466	123060466	+	0	0	-31.5171231
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chr5	123115210	123115210	-	0	0	-25.18291244
chr5	123133151	123133151	-	0	0	-27.37350198
chr5	123135377	123135377	+	3.63E-05	0.00051999	-27.93952968
chr5	123174309	123174309	-	0.00020741	0.00236371	-33.33333333
chr5	123346890	123346890	-	0	0	-26.41630246
chr5	123488133	123488133	+	0.00010896	0.00135738	-38.0952381
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chr5	123603625	123603625	-	0	0	-26.47404401
chr5	123646094	123646094	-	0	0	-29.18615826
chr5	123842387	123842387	+	0	0	-25.7545339
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chr5	124120568	124120568	+	0	0	-35.28174516
chr5	124120605	124120605	-	0	0	-27.78676821
chr5	124162857	124162857	-	5.18E-13	2.46E-11	-29.68982405
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chr5	124608178	124608178	+	8.36E-07	1.75E-05	-42.49834765
chr5	124623200	124623200	-	2.72E-12	1.20E-10	-28.54651163
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chr5	125017495	125017495	-	1.27E-13	6.38E-12	-39.13516723
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chr5	125284516	125284516	+	0.00108172	0.00941473	-28.5669587
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chr5	128684142	128684142	+	2.18E-05	0.00033175	-43.47826087
chr5	129006213	129006213	+	0	0	-40.90909091
chr5	129006219	129006219	+	1.55E-15	9.35E-14	-36.34530792
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chr5	129006386	129006386	+	0	0	-40.4425433
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chr5	129006404	129006404	+	0	0	-31.58141526
chr5	129064352	129064352	-	0	0	-26.28620056
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chr5	129717240	129717240	+	1.08E-09	3.54E-08	-28.76185153
chr5	129886414	129886414	-	4.73E-05	0.00065772	-42.40591398
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chr5	134222015	134222015	+	0	0	-25.17778149
chr5	134222016	134222016	-	0	0	-28.04972602
chr5	134222023	134222023	+	0	0	-29.00818627
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chr5	134756057	134756057	+	6.25E-05	0.00083894	-30.56982147
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chr5	134945919	134945919	-	0	0	-30.49332127
chr5	134945922	134945922	+	0	0	-26.09307359
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chr5	134946239	134946239	+	0	0	-34.66546802
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chr5	134946247	134946247	+	0	0	-32.35755973
chr5	134946248	134946248	-	0	0	-29.66000081
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chr5	134946310	134946310	+	0	0	-48.27117436
chr5	134946312	134946312	+	0	0	-33.52245547
chr5	134946319	134946319	+	0	0	-42.19607843
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chr5	134946341	134946341	-	0	0	-33.06636156
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chr5	134946377	134946377	-	0	0	-27.33576378
chr5	134946383	134946383	-	0	0	-25.72551957
chr5	134947003	134947003	+	4.44E-15	2.57E-13	-40.05550416
chr5	134947016	134947016	+	5.92E-14	3.08E-12	-38.16425121
chr5	134947201	134947201	+	0	0	-32.54875206
chr5	134947202	134947202	-	0	0	-36.11990669
chr5	134961231	134961231	-	0	0	-27.63133001
chr5	134981443	134981443	+	0	0	-26.28972843
chr5	135012771	135012771	+	0	0	-34.73141384
chr5	135039776	135039776	-	1.55E-05	0.00024516	-47.90919952
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chr5	135073795	135073795	-	0	0	-27.81663012
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chr5	135073834	135073834	+	9.99E-16	6.10E-14	-31.91097308
chr5	135073835	135073835	-	5.55E-16	3.46E-14	-25.62533904



chr5	135073853	135073853	+	2.42E-12	1.07E-10	-31.66015307
chr5	135100664	135100664	+	0	0	-25.83014237
chr5	135133277	135133277	-	0	0	-25.84316204
chr5	135168073	135168073	-	0.00054276	0.00532856	-25.86399108
chr5	135252843	135252843	-	3.90E-07	8.65E-06	-32.51096491
chr5	135254198	135254198	+	0	0	-26.55158509
chr5	135254224	135254224	+	0	0	-33.07842363
chr5	135254225	135254225	-	0	0	-33.71182513
chr5	135254256	135254256	-	0	0	-37.83554366
chr5	135276624	135276624	+	0	0	-48.47652024
chr5	135276629	135276629	+	0	0	-49.16384493
chr5	135276630	135276630	-	0	0	-52.19745104
chr5	135276650	135276650	+	0	0	-42.9233994
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chr5	135276656	135276656	+	0	0	-51.36501114
chr5	135276657	135276657	-	0	0	-55.33552294
chr5	135276662	135276662	+	0	0	-60.86918734
chr5	135276663	135276663	-	0	0	-58.66995353
chr5	135276669	135276669	+	0	0	-45.68535939
chr5	135276670	135276670	-	0	0	-48.73126747
chr5	135276672	135276672	+	0	0	-27.42783953
chr5	135276673	135276673	-	0	0	-42.47568052
chr5	135276678	135276678	+	0	0	-61.29429892
chr5	135276688	135276688	+	0	0	-45.24617115
chr5	135276690	135276690	+	0	0	-39.24014924
chr5	135276696	135276696	+	0	0	-61.32502757
chr5	135276699	135276699	+	0	0	-37.35791091
chr5	135276704	135276704	+	0	0	-49.33333333
chr5	135276706	135276706	+	0	0	-52.42796559
chr5	135276712	135276712	+	0	0	-63.79110554
chr5	135276746	135276746	-	0	0	-48.64492659
chr5	135276752	135276752	-	0	0	-43.24561404
chr5	135276755	135276755	-	0	0	-60.79766308
chr5	135276767	135276767	-	0	0	-57.75435254
chr5	135276794	135276794	-	0	0	-38.19212969
chr5	135375329	135375329	-	0	0	-25.018457
chr5	135489975	135489975	+	0	0	-26.673517
chr5	135490084	135490084	+	0	0	-25.42747411
chr5	135490085	135490085	-	0	0	-30.00935413
chr5	135658112	135658112	-	0	0	-26.67675531
chr5	135712384	135712384	+	5.77E-06	0.00010108	-34.0035482

chr5	135712412	135712412	+	7.37E-05	0.00096766	-29.94505495
chr5	135832716	135832716	+	0.00011255	0.00139574	26.08695652
chr5	135869235	135869235	-	0	0	-26.20810218
chr5	135874682	135874682	-	7.05E-06	0.00012084	-28.45238095
chr5	135903279	135903279	+	0	0	-27.83802428
chr5	135967933	135967933	+	1.67E-08	4.63E-07	-29.08912189
chr5	136030327	136030327	+	0	0	-33.31293911
chr5	136030352	136030352	+	0	0	-31.1706586
chr5	136132108	136132108	-	1.12E-05	0.00018245	-44
chr5	136237501	136237501	+	6.66E-16	4.13E-14	-28.60734037
chr5	136581216	136581216	+	1.87E-12	8.42E-11	-38.83525382
chr5	136582590	136582590	-	0	0	-33.58358358
chr5	136585092	136585092	+	0	0	-32.78952654
chr5	136585122	136585122	+	0	0	-28.12215767
chr5	136585123	136585123	-	0	0	-29.5218035
chr5	136585144	136585144	-	0	0	-28.19712837
chr5	136609057	136609057	+	1.07E-08	3.05E-07	-37.45098039
chr5	136619712	136619712	-	0.0002343	0.00262297	-30.21680217
chr5	136619754	136619754	+	0.00041246	0.00423166	-33.02304965
chr5	136620047	136620047	+	0	0	-40.78756006
chr5	136620048	136620048	-	0	0	-43.27479802
chr5	136670918	136670918	+	0	0	-25.04157995
chr5	136870147	136870147	-	0.00082921	0.0075714	-35.83583584
chr5	136966230	136966230	-	8.18E-07	1.71E-05	-30.7775524
chr5	136966280	136966280	-	3.56E-05	0.00051177	-26.74418605
chr5	137189797	137189797	-	0.00075051	0.00697166	-31.66023166
chr5	137211309	137211309	+	0	0	-27.23253758
chr5	137315312	137315312	+	0	0	-30.85677749
chr5	137315339	137315339	+	0	0	-33.11965812
chr5	137315470	137315470	-	0	0	-25.83247153
chr5	137315476	137315476	-	0	0	-31.93502637
chr5	137339914	137339914	-	7.78E-07	1.63E-05	-32.16409944
chr5	137339918	137339918	-	1.08E-08	3.08E-07	-39.62668299
chr5	137339922	137339922	-	2.70E-06	5.10E-05	-28.1536447
chr5	137339963	137339963	+	1.59E-06	3.15E-05	-48.7012987
chr5	137347985	137347985	+	0	0	-39.61839017
chr5	137348043	137348043	-	0	0	-30.29817495
chr5	137485750	137485750	-	9.04E-08	2.24E-06	-28.15522388
chr5	137485752	137485752	-	3.22E-09	9.92E-08	-28.54239257
chr5	137584052	137584052	-	2.71E-11	1.07E-09	-46.4957265
chr5	137584076	137584076	-	1.00E-09	3.30E-08	-38.57804704

chr5	137608359	137608359	+	0	0	-38.18763124
chr5	137608363	137608363	+	0	0	-32.57653061
chr5	137608403	137608403	+	0	0	-45.88326156
chr5	137608471	137608471	+	0	0	-40.91735257
chr5	137608472	137608472	-	0	0	-39.59621601
chr5	137608490	137608490	+	0	0	-37.81712232
chr5	137608491	137608491	-	0	0	-36.61192148
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chr5	137608497	137608497	-	0	0	-41.10791661
chr5	137608527	137608527	-	0	0	-33.07624445
chr5	137608733	137608733	+	0	0	-36.81682571
chr5	137608754	137608754	+	0	0	-34.55871596
chr5	137608846	137608846	+	0	0	-32.19658432
chr5	137608847	137608847	-	4.83E-12	2.08E-10	-39.13339825
chr5	137608899	137608899	-	0	0	-35.15393308
chr5	137608908	137608908	+	0	0	-46.70588235
chr5	137608909	137608909	-	0	0	-38.08266823
chr5	137608912	137608912	+	0	0	-32.20899633
chr5	137608913	137608913	-	0	0	-33.09488113
chr5	137608935	137608935	+	0	0	-40.32476651
chr5	137608936	137608936	-	0	0	-40.03527337
chr5	137608943	137608943	-	0	0	-36.17052601
chr5	137632598	137632598	-	0	0	-25.31895145
chr5	137640004	137640004	+	0.00022755	0.00255802	-25.42656407
chr5	137640153	137640153	-	0	0	-30.88162021
chr5	137640201	137640201	+	0.00060745	0.00585235	-25.62358277
chr5	137640202	137640202	-	0	0	-39.30031993
chr5	137640314	137640314	-	0	0	-27.16184195
chr5	137640324	137640324	-	0	0	-25.63877915
chr5	137641236	137641236	+	4.46E-11	1.73E-09	-32.8125
chr5	137645593	137645593	-	0	0	-33.82777879
chr5	137740653	137740653	-	0	0	-35.59546465
chr5	138272545	138272545	+	4.22E-14	2.23E-12	-25.56578479
chr5	138272546	138272546	-	0	0	-26.07663758
chr5	138272556	138272556	+	0	0	-28.11658777
chr5	138272787	138272787	+	3.41E-11	1.34E-09	-26.32822992
chr5	138272861	138272861	-	0	0	-32.69203333
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chr5	138820165	138820165	-	0	0	-27.77133218
chr5	138820181	138820181	-	0	0	-25.30704554
chr5	138934326	138934326	+	6.76E-13	3.17E-11	-28.42496476

chr5	138953024	138953024	-	0	0	-33.73671472
chr5	139018548	139018548	+	6.30E-09	1.86E-07	-25.59451956
chr5	139018559	139018559	+	6.79E-13	3.19E-11	-31.29643555
chr5	139034056	139034056	-	0	0	-27.48434797
chr5	139075985	139075985	-	3.11E-05	0.00045453	-28.23860727
chr5	139174129	139174129	+	8.68E-05	0.0011156	-26.74050633
chr5	139356851	139356851	+	0	0	-33.88478015
chr5	139356859	139356859	+	0	0	-39.16591442
chr5	139356901	139356901	+	0	0	-41.81712272
chr5	139356902	139356902	-	0	0	-43.80875323
chr5	139356924	139356924	-	0	0	-34.26448199
chr5	139356941	139356941	-	0	0	-28.61083336
chr5	139405726	139405726	-	0	0	-33.2642209
chr5	139419177	139419177	+	0	0	-28.52320675
chr5	139538154	139538154	+	0	0	-25.01112215
chr5	139538155	139538155	-	0	0	-29.33496363
chr5	139619670	139619670	+	0	0	-28.00952998
chr5	139619671	139619671	-	1.11E-15	6.76E-14	-30.07793255
chr5	139723174	139723174	+	4.43E-05	0.0006208	-28.65168539
chr5	139755037	139755037	+	0	0	-34.79688716
chr5	139755064	139755064	+	0	0	-41.91780822
chr5	139755068	139755068	+	0	0	-39.18916828
chr5	139755083	139755083	+	0	0	-28.51644842
chr5	139910616	139910616	-	0	0	-25.6887564
chr5	139966495	139966495	-	0.00037347	0.00389535	-30.28846154
chr5	140509443	140509443	-	4.67E-07	1.02E-05	-31.70469076
chr5	140509455	140509455	-	9.54E-10	3.16E-08	-38.13648294
chr5	140510501	140510501	+	0	0	-26.41332651
chr5	140543348	140543348	-	5.11E-12	2.19E-10	-27.60121658
chr5	140543396	140543396	-	1.83E-13	9.10E-12	-26.75594951
chr5	140549896	140549896	+	0	0	-33.72015246
chr5	140549997	140549997	-	3.33E-16	2.11E-14	-32.31119606
chr5	140550006	140550006	-	0	0	-42.41336435
chr5	140606272	140606272	+	0	0	-39.18074287
chr5	140606302	140606302	+	0	0	-38.8021338
chr5	140606406	140606406	-	0	0	-33.13391863
chr5	140606426	140606426	-	0	0	-32.93147136
chr5	140701210	140701210	-	0	0	-31.0017362
chr5	140872277	140872277	+	0	0	-41.66931638
chr5	140890815	140890815	+	6.11E-15	3.49E-13	-30.05080575
chr5	140970437	140970437	-	0	0	-28.76659431

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chr5	142395992	142395992	+	4.41E-11	1.71E-09	-35.49697238
chr5	142416441	142416441	+	0	0	-26.89053786
chr5	142416544	142416544	-	0	0	-28.24887531
chr5	142416552	142416552	-	0	0	-25.26027296
chr5	142457840	142457840	+	0	0	-28.17172931
chr5	142457851	142457851	+	0	0	-27.86337994
chr5	142457889	142457889	+	0	0	-29.72062972
chr5	142457890	142457890	-	0	0	-33.41003677
chr5	142457915	142457915	-	0	0	-27.01936237
chr5	142458162	142458162	-	4.16E-08	1.09E-06	-34.51096728
chr5	142529990	142529990	-	3.62E-10	1.26E-08	-64
chr5	142812767	142812767	+	0	0	-55.16060463
chr5	142812811	142812811	+	1.25E-07	3.01E-06	-35.09803922
chr5	142812828	142812828	-	0	0	-36.46135266
chr5	142812874	142812874	-	0	0	-43.43924684
chr5	142812881	142812881	+	0	0	-43.25899014
chr5	142813022	142813022	-	0	0	-35.87893684
chr5	142813033	142813033	+	0	0	-27.30627092
chr5	142813034	142813034	-	0	0	-30.30911356
chr5	142813060	142813060	+	0	0	-42.64069264
chr5	142813081	142813081	+	0	0	-37.80739423
chr5	142813082	142813082	-	0	0	-37.28706625
chr5	142813108	142813108	-	0	0	-30.74476422
chr5	142813113	142813113	-	0	0	-31.586813
chr5	142813892	142813892	-	0	0	-43.72139588
chr5	142813917	142813917	-	8.10E-15	4.57E-13	-35.69597879
chr5	142882374	142882374	+	0.00018951	0.0021886	-27.81818182
chr5	142910010	142910010	-	0	0	-27.34723003
chr5	142910023	142910023	-	0	0	-25.00649456
chr5	142938304	142938304	+	8.08E-10	2.69E-08	-27.13974479
chr5	142938329	142938329	+	4.24E-11	1.65E-09	-29.71296668
chr5	142938466	142938466	-	1.70E-14	9.30E-13	-27.29696349
chr5	142949797	142949797	+	0	0	-31.20860281
chr5	142949798	142949798	-	0	0	-27.01010438
chr5	142949833	142949833	+	0	0	-25.76176298
chr5	142949875	142949875	-	0	0	-28.9055794
chr5	142963620	142963620	+	0	0	-26.08989669
chr5	143253009	143253009	+	1.08E-09	3.54E-08	-27.52616468
chr5	143253033	143253033	+	9.39E-13	4.34E-11	-35.70647931
chr5	143357719	143357719	+	0.00115194	0.00990943	35.8560794

chr5	143472145	143472145	+	0	0	-37.95358425
chr5	143625993	143625993	+	0	0	-27.30201027
chr5	143625996	143625996	+	0	0	-25.2620104
chr5	143965653	143965653	+	0	0	-25.27916953
chr5	143965702	143965702	-	0	0	-25.33101717
chr5	143981164	143981164	-	0	0	-28.55750855
chr5	144098829	144098829	+	0	0	-32.68788344
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chr5	144250054	144250054	-	4.96E-12	2.13E-10	-51.26019274
chr5	144258237	144258237	-	0	0	-28.00357262
chr5	144270205	144270205	+	4.88E-08	1.26E-06	-37.16626214
chr5	144548349	144548349	-	2.52E-05	0.00037748	-25.42154567
chr5	144548353	144548353	-	2.45E-05	0.00036833	-25.59440559
chr5	144548592	144548592	-	0.00042169	0.00431097	-25.42056075
chr5	145686658	145686658	-	7.34E-09	2.15E-07	48.48484848
chr5	146897353	146897353	-	5.31E-06	9.38E-05	-27.96531254
chr5	146897370	146897370	+	0	0	-29.07769665
chr5	147045712	147045712	-	2.91E-05	0.00042834	-41.33333333
chr5	147198340	147198340	+	0.00017392	0.00203318	-32.11051776
chr5	147313213	147313213	+	0	0	-25.38504307
chr5	147316012	147316012	+	5.98E-11	2.28E-09	-28.01686331
chr5	147436999	147436999	+	0.00046642	0.00469315	-26.03686636
chr5	147559776	147559776	+	0	0	-30.96088357
chr5	147559777	147559777	-	0	0	-28.66577877
chr5	147559801	147559801	-	0	0	-32.5623862
chr5	147559818	147559818	+	0	0	-28.88058203
chr5	147559819	147559819	-	0	0	-33.91463134
chr5	147559838	147559838	+	0	0	-29.88738299
chr5	147559840	147559840	+	0	0	-28.97669706
chr5	147590423	147590423	-	1.01E-05	0.00016733	-40.82278481
chr5	147614970	147614970	-	0	0	-25.30002886
chr5	147742932	147742932	-	0.00057407	0.00558467	-25.80946451
chr5	147775199	147775199	+	9.11E-07	1.89E-05	-65.2173913
chr5	147826085	147826085	+	7.88E-15	4.45E-13	-28.69569628
chr5	147826103	147826103	+	5.28E-14	2.77E-12	-29.93421053
chr5	147835851	147835851	+	0	0	-25.18883415
chr5	147884093	147884093	+	1.04E-06	2.12E-05	-26.95087719
chr5	147893956	147893956	+	9.96E-06	0.00016487	-35.71428571
chr5	147964601	147964601	-	0.00013658	0.00165072	27.14063311
chr5	148077569	148077569	-	1.66E-05	0.00026036	-31.86864015
chr5	148342322	148342322	+	1.22E-15	7.41E-14	-25.71381133

chr5	148645310	148645310	-	0.00095721	0.0085188	47.72727273
chr5	148740432	148740432	-	0	0	-25.91171052
chr5	148809180	148809180	-	6.46E-11	2.46E-09	-33.40495631
chr5	148809226	148809226	+	0	0	-26.81414354
chr5	148809227	148809227	-	3.31E-14	1.76E-12	-40.0532978
chr5	148885991	148885991	+	0	0	-35.26255457
chr5	148886001	148886001	+	0	0	-30.32397408
chr5	148886033	148886033	+	0	0	-33.73578037
chr5	148886148	148886148	-	7.62E-12	3.21E-10	-33.66576472
chr5	148886184	148886184	-	1.10E-12	5.04E-11	-33.32817936
chr5	148935597	148935597	-	3.63E-05	0.00052054	-30.1726122
chr5	148978359	148978359	+	0	0	-33.06788932
chr5	148978428	148978428	-	0	0	-32.38202449
chr5	148978454	148978454	-	0	0	-32.19724275
chr5	148984885	148984885	-	0	0	-31.71020156
chr5	149031809	149031809	-	4.65E-11	1.80E-09	-25.0163827
chr5	149079444	149079444	+	0	0	-30.43215838
chr5	149079464	149079464	-	0	0	-28.62123022
chr5	149096616	149096616	-	3.24E-08	8.61E-07	-33.21085359
chr5	149324950	149324950	-	2.29E-09	7.19E-08	-25.4676259
chr5	149353564	149353564	+	0	0	-25.01512097
chr5	149353565	149353565	-	0	0	-29.67709306
chr5	149374958	149374958	-	0	0	-25.17935898
chr5	149411783	149411783	+	4.03E-06	7.31E-05	-25.65357659
chr5	149458690	149458690	+	0	0	-36.90436914
chr5	149458805	149458805	-	0	0	-37.96181997
chr5	150260125	150260125	+	0	0	-25.76318019
chr5	150260146	150260146	+	0	0	-25.73521716
chr5	150260152	150260152	+	0	0	-27.0666422
chr5	150260170	150260170	-	0	0	-29.74008136
chr5	150261816	150261816	-	6.71E-07	1.43E-05	-25.40359151
chr5	150261843	150261843	-	0	0	-34.72222222
chr6	3341248	3341248	-	0	0	-28.88111331
chr6	3734267	3734267	-	1.86E-05	0.00028842	-29.62962963
chr6	4504510	4504510	-	3.19E-09	9.83E-08	-25.23079448
chr6	4811651	4811651	-	8.66E-10	2.88E-08	-38.57471264
chr6	4811664	4811664	-	1.05E-05	0.00017314	-28.31515152
chr6	4811677	4811677	-	2.10E-11	8.44E-10	-35.85858586
chr6	4811701	4811701	-	3.89E-07	8.63E-06	-33.18903319
chr6	5172505	5172505	+	0	0	-30.60703615
chr6	5172506	5172506	-	0	0	-29.98732065

chr6	5380231	5380231	-	0	0	-35.53691275
chr6	5380235	5380235	-	0	0	-40.13422819
chr6	5380240	5380240	-	3.00E-15	1.76E-13	-33.40451495
chr6	5380247	5380247	-	1.50E-11	6.13E-10	-29.16342715
chr6	5380249	5380249	-	4.10E-12	1.78E-10	-28.77104377
chr6	5380261	5380261	-	0	0	-40.13727883
chr6	6006424	6006424	-	1.37E-05	0.00021858	-40.48780488
chr6	8642504	8642504	-	0.00050151	0.00498735	33.33333333
chr6	12118476	12118476	-	1.37E-05	0.00021979	-34.10174881
chr6	13475047	13475047	+	5.93E-06	0.00010358	-33.8646573
chr6	15790182	15790182	-	0	0	-30.50716302
chr6	16796865	16796865	+	0.00020996	0.00238835	-29.18660287
chr6	17515819	17515819	+	1.55E-15	9.35E-14	-26.87631027
chr6	18003554	18003554	-	3.64E-09	1.11E-07	61.9047619
chr6	18515219	18515219	-	0	0	-38.17204301
chr6	20537010	20537010	+	0.00042185	0.0043123	-26.92307692
chr6	21185362	21185362	-	2.06E-05	0.00031521	-34.54317897
chr6	21987173	21987173	-	1.11E-16	7.26E-15	-26.32355654
chr6	28132490	28132490	-	6.49E-11	2.47E-09	-25.54234082
chr6	28421061	28421061	-	2.62E-06	4.95E-05	-25.90962441
chr6	28831642	28831642	-	0	0	-33.39071415
chr6	29005520	29005520	+	1.03E-13	5.22E-12	-26.82213664
chr6	29065608	29065608	-	3.10E-08	8.28E-07	-30.12820513
chr6	29178289	29178289	+	0	0	-26.0920799
chr6	29397120	29397120	-	1.18E-07	2.86E-06	-27.19140477
chr6	29397256	29397256	+	3.30E-12	1.44E-10	-30.59785222
chr6	29397282	29397282	+	3.77E-08	9.93E-07	-25.21978022
chr6	29397283	29397283	-	5.24E-14	2.74E-12	-38.28838547
chr6	29397284	29397284	+	3.54E-10	1.23E-08	-28.964579
chr6	29397285	29397285	-	4.22E-09	1.28E-07	-29.43845463
chr6	29397387	29397387	+	3.56E-09	1.09E-07	-34.21052632
chr6	29397410	29397410	+	1.03E-14	5.76E-13	-46.52777778
chr6	29397470	29397470	-	0	0	-30.20914547
chr6	29649502	29649502	-	0.00045821	0.00462259	-39.28571429
chr6	30162384	30162384	+	0	0	-35.8920798
chr6	30162388	30162388	+	0	0	-32.86644495
chr6	30162489	30162489	-	0	0	-27.82591544
chr6	30206121	30206121	-	0	0	-28.91220858
chr6	30227525	30227525	+	0	0	-30.00230261
chr6	30551987	30551987	+	0	0	-28.3887468
chr6	30552044	30552044	-	0	0	-29.88904169



chr6	30552123	30552123	+	0.00020797	0.00236928	-42.34449761
chr6	30653217	30653217	+	0	0	-30.04599779
chr6	30658701	30658701	+	0	0	-31.55157575
chr6	30682706	30682706	-	0	0	-26.95160561
chr6	30732878	30732878	-	0	0	-26.37045196
chr6	31100284	31100284	+	0	0	-44.96444159
chr6	31100363	31100363	-	0	0	-30.59848456
chr6	31565521	31565521	-	5.12E-08	1.32E-06	-34.1656988
chr6	31565524	31565524	-	9.81E-07	2.02E-05	-29.34027778
chr6	31565526	31565526	-	1.25E-06	2.53E-05	-27.71043771
chr6	31624379	31624379	-	2.32E-08	6.30E-07	-35.91803279
chr6	31637170	31637170	-	0	0	-29.58993971
chr6	31917937	31917937	+	6.30E-09	1.86E-07	32.66005197
chr6	32493569	32493569	-	0	0	-25.05984648
chr6	33019166	33019166	-	0.00052677	0.00519667	-25.30864198
chr6	34102474	34102474	+	6.72E-14	3.48E-12	-27.15919085
chr6	34229549	34229549	+	0	0	-28.28861378
chr6	34354127	34354127	-	0	0	-25.30405071
chr6	34691633	34691633	-	5.62E-07	1.21E-05	-25.13174284
chr6	34988483	34988483	-	0	0	-29.52659926
chr6	35248468	35248468	+	5.31E-07	1.15E-05	-31.42857143
chr6	37359368	37359368	-	0.00022677	0.00255048	-31.42857143
chr6	37359376	37359376	-	0.00048086	0.00481493	-28.57142857
chr6	37359381	37359381	-	9.17E-06	0.00015318	-42.85714286
chr6	37375575	37375575	+	0	0	-25.108519
chr6	37415741	37415741	+	7.41E-05	0.00097239	-36.84210526
chr6	37415953	37415953	-	4.05E-06	7.34E-05	-33.33333333
chr6	37428533	37428533	+	0	0	-29.37656167
chr6	39005491	39005491	+	0	0	-45.74325782
chr6	39005523	39005523	-	0	0	-26.57386219
chr6	39256437	39256437	-	0	0	-38.48882706
chr6	39256454	39256454	-	1.49E-14	8.19E-13	-30.64954052
chr6	39256482	39256482	-	0	0	-45.1974001
chr6	39256697	39256697	-	9.65E-10	3.19E-08	-34.64288791
chr6	39446098	39446098	+	6.51E-08	1.65E-06	-30.55936857
chr6	42262011	42262011	+	2.69E-10	9.51E-09	-26.15046619
chr6	42262012	42262012	-	5.80E-14	3.02E-12	-30.46744234
chr6	42323421	42323421	+	1.59E-08	4.44E-07	-34.2997543
chr6	43298425	43298425	-	7.46E-05	0.00097805	-27.02040816
chr6	47583605	47583605	-	7.61E-09	2.22E-07	-25.59110542
chr6	48396216	48396216	-	0.00010191	0.00128205	-25.68771794

chr6	48529287	48529287	+	3.94E-13	1.89E-11	-28.28538759
chr6	48572756	48572756	-	1.16E-10	4.27E-09	-31.52799581
chr6	48742566	48742566	+	0	0	-33.2137845
chr6	48742629	48742629	-	0	0	-38.20122475
chr6	48742674	48742674	+	3.83E-09	1.17E-07	-33.38663256
chr6	48742675	48742675	-	0	0	-36.74810626
chr6	48742704	48742704	-	2.34E-07	5.42E-06	-27.15834301
chr6	49270130	49270130	+	0.0008821	0.00796743	-25.46296296
chr6	49395486	49395486	+	0.00068786	0.00648834	-29.16666667
chr6	49779699	49779699	+	1.75E-13	8.70E-12	-28.03921569
chr6	49808304	49808304	+	7.77E-16	4.79E-14	-30.44821526
chr6	49808309	49808309	+	0	0	-29.34035062
chr6	50312617	50312617	-	1.42E-06	2.83E-05	-30.68162502
chr6	50809015	50809015	+	1.82E-12	8.18E-11	-27.01525054
chr6	50878080	50878080	-	0	0	-30.18645677
chr6	51613244	51613244	-	4.88E-15	2.82E-13	-44.44262563
chr6	51613282	51613282	-	7.63E-07	1.61E-05	-28.26666667
chr6	51613291	51613291	-	3.22E-11	1.27E-09	-39.55436242
chr6	51856612	51856612	+	0	0	-51.67636486
chr6	51856648	51856648	-	2.34E-07	5.41E-06	-36.14661654
chr6	52115896	52115896	+	1.14E-05	0.00018538	-28.66734659
chr6	52161262	52161262	-	0	0	-33.25774754
chr6	52161281	52161281	-	0	0	-30.20993495
chr6	52163860	52163860	-	0	0	-26.69560359
chr6	52164236	52164236	+	0	0	-29.73561037
chr6	52164237	52164237	-	0	0	-25.65797206
chr6	52165690	52165690	+	0	0	-40.25488904
chr6	52165721	52165721	-	1.91E-12	8.56E-11	-26.45931936
chr6	52175475	52175475	-	3.33E-16	2.11E-14	-28.07772185
chr6	52175513	52175513	-	0	0	-35.23571726
chr6	52175526	52175526	+	0	0	-37.5473497
chr6	52175549	52175549	+	0	0	-37.03026482
chr6	52175603	52175603	-	0	0	-31.36500664
chr6	52175615	52175615	+	0	0	-31.03418923
chr6	52175616	52175616	-	0	0	-25.99148542
chr6	52175627	52175627	+	0	0	-26.30510863
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chr6	52175647	52175647	-	0	0	-31.54358552
chr6	52175650	52175650	+	0	0	-31.6824309
chr6	52175651	52175651	-	0	0	-33.24978389
chr6	52175653	52175653	+	0	0	-25.30962479

chr6	52175656	52175656	-	0	0	-31.38482593
chr6	52175661	52175661	+	0	0	-27.53349283
chr6	52175662	52175662	-	0	0	-31.93948869
chr6	52175675	52175675	-	0	0	-32.26042334
chr6	52175739	52175739	+	1.61E-07	3.82E-06	-25.69875776
chr6	52175843	52175843	+	0	0	-35.39360308
chr6	52175941	52175941	+	0	0	-29.1259847
chr6	52175948	52175948	+	0	0	-27.4296648
chr6	52175995	52175995	-	0	0	-31.25185625
chr6	52175998	52175998	-	0	0	-25.45190683
chr6	52176009	52176009	-	0	0	-28.75733138
chr6	52176022	52176022	-	0	0	-27.14996249
chr6	52176034	52176034	+	3.33E-16	2.11E-14	-31.60932881
chr6	52176035	52176035	-	0	0	-31.82306641
chr6	52176039	52176039	+	4.98E-13	2.37E-11	-28.57769012
chr6	52176040	52176040	-	1.19E-07	2.88E-06	-29.56302906
chr6	52176043	52176043	+	2.22E-16	1.43E-14	-33.7462091
chr6	52176061	52176061	+	6.66E-16	4.13E-14	-33.88119757
chr6	52176062	52176062	-	6.21E-07	1.33E-05	-26.60472973
chr6	52176073	52176073	+	4.90E-12	2.11E-10	-27.76539187
chr6	52176074	52176074	-	5.81E-10	1.97E-08	-32.92885203
chr6	52177033	52177033	+	0	0	-45.11475463
chr6	52177165	52177165	-	0	0	-50.44223226
chr6	52177168	52177168	-	2.22E-16	1.43E-14	-34.87689306
chr6	52177190	52177190	-	0	0	-44.77732794
chr6	52177491	52177491	-	4.66E-05	0.00064886	-38.27838828
chr6	52177508	52177508	+	0	0	-46.78306595
chr6	52177509	52177509	-	1.37E-09	4.45E-08	-47.25274725
chr6	52177513	52177513	+	0	0	-37.19286093
chr6	52177531	52177531	+	0	0	-41.07471053
chr6	52177533	52177533	+	0	0	-36.96048861
chr6	52177549	52177549	+	0	0	-42.60542209
chr6	52177550	52177550	-	0	0	-45.18453184
chr6	52177560	52177560	-	0	0	-39.91149261
chr6	52177599	52177599	-	0	0	-34.71479501
chr6	52190635	52190635	-	0	0	-27.51115215
chr6	52191071	52191071	-	0	0	-33.58164642
chr6	52191075	52191075	-	1.11E-16	7.26E-15	-28.57431982
chr6	52191078	52191078	-	0	0	-39.74158161
chr6	52203847	52203847	+	0	0	-38.8754331
chr6	52203853	52203853	+	0	0	-52.36759611

chr6	52203858	52203858	+	0	0	-47.79065472
chr6	52203867	52203867	+	0	0	-52.17014372
chr6	52203871	52203871	+	0	0	-51.34309574
chr6	52203879	52203879	+	0	0	-52.47777197
chr6	52203894	52203894	+	0	0	-49.34756421
chr6	52203910	52203910	-	0	0	-53.94183278
chr6	52203914	52203914	-	0	0	-54.04609084
chr6	52203917	52203917	-	0	0	-44.01740987
chr6	52203954	52203954	+	0	0	-48.98927464
chr6	52203955	52203955	-	0	0	-52.09097688
chr6	52203957	52203957	+	0	0	-46.34460515
chr6	52203964	52203964	+	0	0	-44.56793207
chr6	52203969	52203969	+	0	0	-46.90722399
chr6	52203972	52203972	+	0	0	-33.95711418
chr6	52203999	52203999	+	0	0	-45.37596447
chr6	52204002	52204002	+	0	0	-31.15648224
chr6	52204020	52204020	+	0	0	-45.19840671
chr6	52204024	52204024	+	0	0	-50.1610129
chr6	52204036	52204036	+	0	0	-39.53236398
chr6	52204037	52204037	-	0	0	-43.69004632
chr6	52204051	52204051	+	0	0	-46.35967504
chr6	52204052	52204052	-	0	0	-45.47480268
chr6	52204056	52204056	+	0	0	-46.71156546
chr6	52204057	52204057	-	0	0	-48.42632091
chr6	52204060	52204060	+	0	0	-47.76883335
chr6	52204061	52204061	-	0	0	-49.02573684
chr6	52204066	52204066	+	0	0	-48.93543956
chr6	52204067	52204067	-	0	0	-49.9802995
chr6	52204073	52204073	-	0	0	-48.45309633
chr6	52204079	52204079	-	0	0	-49.18350467
chr6	52204085	52204085	-	0	0	-50.06037415
chr6	52204107	52204107	+	0	0	-27.77083485
chr6	52204108	52204108	-	0	0	-43.08762878
chr6	52204111	52204111	+	0	0	-27.83404175
chr6	52204112	52204112	-	0	0	-44.58076209
chr6	52204115	52204115	-	0	0	-40.8332648
chr6	52204130	52204130	-	0	0	-47.21005615
chr6	52204132	52204132	-	0	0	-33.61455749
chr6	52204140	52204140	-	0	0	-42.84339417
chr6	52204144	52204144	-	0	0	-49.09447532
chr6	52204146	52204146	-	0	0	-50.15173716

chr6	52204150	52204150	-	0	0	-46.90851494
chr6	52204153	52204153	-	0	0	-43.29289834
chr6	52204167	52204167	+	0	0	-41.4068745
chr6	52204174	52204174	+	0	0	-38.71793852
chr6	52204175	52204175	-	0	0	-40.60345296
chr6	52204178	52204178	+	0	0	-42.49192882
chr6	52204179	52204179	-	0	0	-43.44909485
chr6	52204182	52204182	+	0	0	-37.98786838
chr6	52204183	52204183	-	0	0	-42.28778639
chr6	52204186	52204186	-	0	0	-28.63701704
chr6	52204209	52204209	+	0	0	-43.27213575
chr6	52204210	52204210	-	0	0	-48.91480011
chr6	52204215	52204215	+	0	0	-41.64953653
chr6	52204216	52204216	-	0	0	-46.73167257
chr6	52204224	52204224	+	0	0	-51.21021805
chr6	52204225	52204225	-	0	0	-48.18960681
chr6	52204237	52204237	+	0	0	-49.24760698
chr6	52204240	52204240	+	0	0	-48.34815816
chr6	52204257	52204257	+	0	0	-55.22379377
chr6	52204258	52204258	-	0	0	-53.06898683
chr6	52204263	52204263	+	0	0	-55.78534275
chr6	52204264	52204264	-	0	0	-53.45023304
chr6	52204301	52204301	-	0	0	-50.50168474
chr6	52204715	52204715	+	0	0	-47.2562339
chr6	52204721	52204721	+	0	0	-45.17591554
chr6	52204801	52204801	-	0	0	-40.86498005
chr6	52204811	52204811	-	0	0	-43.69790351
chr6	52204815	52204815	-	0	0	-39.42964473
chr6	52204819	52204819	-	0	0	-30.97361196
chr6	52204822	52204822	+	0	0	-39.45823107
chr6	52204823	52204823	-	0	0	-33.06655586
chr6	52204825	52204825	+	0	0	-45.0826004
chr6	52204842	52204842	+	0	0	-34.78510499
chr6	52204843	52204843	-	0	0	-36.47129738
chr6	52204889	52204889	-	0	0	-25.31061599
chr6	52204929	52204929	+	0	0	-30.3953954
chr6	52204930	52204930	-	0	0	-34.42080957
chr6	52204943	52204943	-	0	0	-40.39037433
chr6	52208239	52208239	+	0	0	-37.4020781
chr6	52208276	52208276	+	0	0	-45.60710349
chr6	52208282	52208282	+	0	0	-52.19935051

chr6	52208283	52208283	-	0	0	-52.05730739
chr6	52208304	52208304	-	0	0	-45.62508668
chr6	52208328	52208328	-	0	0	-26.43734165
chr6	52208363	52208363	+	0	0	-38.62156327
chr6	52208409	52208409	-	0	0	-30.0757345
chr6	52208420	52208420	-	0	0	-25.35493526
chr6	52208481	52208481	+	1.78E-08	4.92E-07	-25.17872221
chr6	52209634	52209634	-	0	0	-34.93280275
chr6	52323454	52323454	-	7.70E-06	0.00013087	-27.19958918
chr6	52323487	52323487	+	0	0	-26.18958608
chr6	52323488	52323488	-	1.17E-11	4.83E-10	-25.39869156
chr6	52323500	52323500	+	0	0	-28.05955365
chr6	52479518	52479518	+	0	0	-29.40912852
chr6	52479530	52479530	+	0	0	-33.05093471
chr6	52663330	52663330	-	0	0	-25.01550875
chr6	53394580	53394580	+	0	0	-37.19585509
chr6	54021713	54021713	-	1.53E-07	3.64E-06	-43.30210773
chr6	54038939	54038939	+	0	0	-31.02193845
chr6	54069708	54069708	+	0.00014957	0.00178563	-29.04911181
chr6	54074174	54074174	-	1.15E-06	2.33E-05	-34.25324675
chr6	54485208	54485208	+	0	0	-32.99999308
chr6	54485227	54485227	+	0	0	-30.99812433
chr6	54485228	54485228	-	0	0	-38.43279599
chr6	54485243	54485243	-	6.77E-14	3.51E-12	-25.20703934
chr6	54485923	54485923	+	0	0	-31.3870912
chr6	54719829	54719829	+	0.00016287	0.00192159	-39.63963964
chr6	54719832	54719832	+	0.00098636	0.00873044	-33.73737374
chr6	54943614	54943614	+	0	0	-42.35230204
chr6	54943624	54943624	+	0	0	-45.72110205
chr6	54943664	54943664	+	0	0	-45.37595955
chr6	54943689	54943689	-	0	0	-40.7793368
chr6	54943699	54943699	-	0	0	-55.21494333
chr6	54943719	54943719	+	0	0	-58.78357518
chr6	54943720	54943720	-	0	0	-55.97150666
chr6	54943756	54943756	+	5.95E-11	2.27E-09	-42.31001814
chr6	54943944	54943944	-	0	0	-53.09375
chr6	54943953	54943953	-	2.22E-16	1.43E-14	-41.15994458
chr6	54943957	54943957	-	0	0	-39.28571429
chr6	54943969	54943969	-	0	0	-44.6722561
chr6	54943980	54943980	-	5.22E-15	3.00E-13	-34.10529566
chr6	54943982	54943982	+	0	0	-38.7889439

chr6	54943983	54943983	-	0	0	-51.60197044
chr6	54943989	54943989	+	0	0	-35.56031843
chr6	54943991	54943991	+	0	0	-44.89586403
chr6	54943998	54943998	+	0	0	-33.20599514
chr6	54944021	54944021	+	0	0	-29.06642751
chr6	55275217	55275217	+	0	0	-27.79682243
chr6	55275271	55275271	-	0	0	-28.47309136
chr6	55275284	55275284	-	0	0	-34.51133042
chr6	55732849	55732849	-	5.55E-05	0.00075521	-43.33333333
chr6	58745639	58745639	+	4.46E-05	0.00062457	31.81818182
chr6	58906778	58906778	+	0	0	-30.37179487
chr6	59004633	59004633	+	0.00100197	0.00884556	25.38593482
chr6	64997026	64997026	+	2.56E-14	1.38E-12	-27.58416071
chr6	65671173	65671173	+	0	0	-28.47590639
chr6	66976064	66976064	+	0	0	-28.61002954
chr6	66976065	66976065	-	0	0	-30.43075441
chr6	67113800	67113800	+	0	0	-28.7447226
chr6	67113815	67113815	+	0	0	-31.01833444
chr6	67113816	67113816	-	0	0	-30.54534314
chr6	67113836	67113836	-	0	0	-33.42757052
chr6	67140529	67140529	+	6.04E-08	1.54E-06	-26.09902509
chr6	68641258	68641258	-	8.30E-05	0.0010725	-30.12820513
chr6	70912368	70912368	+	0.00029064	0.00315152	-26.49122807
chr6	70966014	70966014	-	1.98E-05	0.00030492	-39.84126984
chr6	70967415	70967415	+	0	0	-28.67234011
chr6	70992055	70992055	-	0.00030331	0.00326791	-26.90552645
chr6	71767899	71767899	+	3.05E-11	1.20E-09	-35.55844156
chr6	71980410	71980410	+	0	0	-41.40687511
chr6	71980424	71980424	+	0	0	-35.09985115
chr6	71980492	71980492	-	0	0	-29.77807597
chr6	71980533	71980533	-	0	0	-28.70573106
chr6	72092967	72092967	-	0	0	-29.10994985
chr6	72277142	72277142	-	0	0	-29.65234894
chr6	72340603	72340603	+	7.74E-10	2.59E-08	-32.8031519
chr6	72634367	72634367	-	1.11E-16	7.26E-15	-27.23214286
chr6	72634404	72634404	-	0	0	-30.60873208
chr6	72677432	72677432	+	1.30E-07	3.13E-06	-27.59776536
chr6	72677462	72677462	+	2.15E-14	1.17E-12	-39.390681
chr6	72677646	72677646	-	0	0	-38.68654902
chr6	72677666	72677666	-	0	0	-53.05555556
chr6	72737106	72737106	+	0	0	-32.03289474

chr6	72788210	72788210	+	6.82E-13	3.20E-11	-33.05418719
chr6	72788217	72788217	+	6.02E-10	2.04E-08	-26.46812782
chr6	72927239	72927239	-	1.34E-09	4.35E-08	-37.55641522
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chr6	72989311	72989311	-	1.50E-14	8.25E-13	-25.9271358
chr6	82091862	82091862	-	0	0	-33.79888268
chr6	82091891	82091891	-	1.11E-16	7.26E-15	-27.56734007
chr6	82092133	82092133	+	0	0	-25.19155991
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chr6	82092201	82092201	-	0	0	-26.33333333
chr6	82753198	82753198	+	0	0	-30.73903189
chr6	83028495	83028495	-	0	0	-38.46647205
chr6	83029944	83029944	-	2.40E-06	4.58E-05	-25.97587719
chr6	83061016	83061016	-	0	0	-26.50034134
chr6	83087668	83087668	-	0	0	-29.82088345
chr6	83135550	83135550	+	0	0	-34.56666667
chr6	83135560	83135560	+	0	0	-34.28264962
chr6	83161434	83161434	+	3.68E-12	1.60E-10	-35.78567128
chr6	83161570	83161570	+	0	0	-33.04189636
chr6	83161571	83161571	-	0	0	-32.49343254
chr6	83161727	83161727	+	0	0	-31.581263
chr6	83179861	83179861	+	0	0	-28.47331898
chr6	83288369	83288369	+	0	0	-27.98718896
chr6	83442236	83442236	-	9.66E-06	0.00016039	-41.86698718
chr6	83502145	83502145	-	0	0	-29.49519231
chr6	83599407	83599407	-	0	0	-32.4915641
chr6	84012317	84012317	+	0	0	-26.03414376
chr6	84106105	84106105	-	0.0001145	0.00141627	-25.22222222
chr6	84106127	84106127	-	0.00032212	0.00343842	-25.72565543
chr6	85424049	85424049	+	2.05E-07	4.80E-06	-28.63477159
chr6	85424093	85424093	+	1.51E-13	7.56E-12	-38.01310537
chr6	85424279	85424279	-	3.58E-13	1.73E-11	-28.59774213
chr6	86098605	86098605	-	2.19E-07	5.08E-06	-49.46949602
chr6	86234004	86234004	+	0	0	-28.48861284
chr6	86234019	86234019	+	0	0	-28.09935575
chr6	86628080	86628080	+	2.02E-13	1.00E-11	-31.81294171
chr6	86628278	86628278	-	4.74E-07	1.04E-05	-25.59076262
chr6	86628292	86628292	+	0	0	-39.27641679
chr6	86654631	86654631	-	0	0	-26.51148336
chr6	86654659	86654659	-	0	0	-26.03645986
chr6	86803808	86803808	-	5.10E-05	0.00070153	-31.16818558



chr6	87535980	87535980	+	9.33E-07	1.93E-05	-28.3446712
chr6	87722448	87722448	+	0	0	-26.36877536
chr6	87876426	87876426	-	0	0	-27.69800521
chr6	87994330	87994330	+	0	0	-45.4047777
chr6	87994462	87994462	-	1.67E-05	0.00026137	-29.29909042
chr6	87994484	87994484	-	2.83E-06	5.31E-05	-32.54716981
chr6	87994488	87994488	-	2.41E-06	4.58E-05	-31.52173913
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chr6	88106900	88106900	-	4.61E-05	0.00064276	38.63636364
chr6	88116568	88116568	+	0.0002389	0.00266742	33.39534884
chr6	88136105	88136105	+	2.80E-10	9.86E-09	-28.57142857
chr6	88136106	88136106	-	0	0	-32.44901104
chr6	88136143	88136143	-	0	0	-26.74184298
chr6	88140653	88140653	+	2.22E-16	1.43E-14	-25.62870612
chr6	88145940	88145940	+	1.11E-08	3.16E-07	-25.36151279
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chr6	88190034	88190034	+	5.11E-15	2.94E-13	-35.96927934
chr6	88190059	88190059	+	0	0	-43.69435746
chr6	88190163	88190163	+	0	0	-31.54631083
chr6	88190165	88190165	+	0	0	-32.20247464
chr6	88190187	88190187	+	0	0	-27.34031666
chr6	88190217	88190217	-	0	0	-40.54855758
chr6	88190672	88190672	+	0	0	-43.77397795
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chr6	88190684	88190684	+	0	0	-33.70697111
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chr6	88190708	88190708	+	0	0	-43.7423646
chr6	88190711	88190711	+	0	0	-46.04851752
chr6	88190713	88190713	+	5.55E-15	3.18E-13	-32.90072315
chr6	88190715	88190715	+	0	0	-39.22552113
chr6	88190869	88190869	-	0	0	-42.40163815
chr6	88190880	88190880	-	7.44E-15	4.21E-13	-40.07381392
chr6	88190886	88190886	+	0	0	-42.59313296
chr6	88190897	88190897	+	0	0	-44.23273803
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chr6	88190918	88190918	+	1.89E-15	1.13E-13	-28.81458967
chr6	88190919	88190919	-	6.55E-15	3.73E-13	-29.45484811
chr6	88190922	88190922	-	0	0	-38.60635242
chr6	88190959	88190959	+	0	0	-30.95998909
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chr6	88191028	88191028	+	0	0	-48.63924487
chr6	88191029	88191029	-	0	0	-35.51357725
chr6	88191058	88191058	-	1.33E-07	3.20E-06	-25.72278912
chr6	88194840	88194840	-	7.26E-05	0.00095477	-25.44642857
chr6	88194862	88194862	-	0.00015882	0.00188052	-25.85034014
chr6	88200567	88200567	+	0.00033406	0.00354559	-39.74358974
chr6	88200644	88200644	-	0	0	-27.36011898
chr6	88202011	88202011	+	0	0	-32.19711318
chr6	88204480	88204480	+	0	0	-28.24358281
chr6	88204491	88204491	+	1.11E-16	7.26E-15	-30.95493947
chr6	88204494	88204494	+	1.11E-16	7.26E-15	-28.84654147
chr6	88204647	88204647	-	0	0	-41.24040672
chr6	88204654	88204654	+	0	0	-38.75946486
chr6	88204660	88204660	+	0	0	-37.61284279
chr6	88235777	88235777	+	0	0	-25.15318842
chr6	88235778	88235778	-	0	0	-25.04587417
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chr6	88235868	88235868	+	0	0	-29.94733265
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chr6	88235895	88235895	-	2.16E-14	1.17E-12	-26.56485671
chr6	88235924	88235924	+	0.00038737	0.00401547	-35.16771488
chr6	88235926	88235926	+	1.72E-06	3.37E-05	-49.04904905
chr6	88236174	88236174	-	1.98E-06	3.85E-05	-34.13840571
chr6	88236201	88236201	+	1.43E-13	7.18E-12	-27.87545788
chr6	88236202	88236202	-	0	0	-39.33558559
chr6	88236207	88236207	+	6.33E-15	3.61E-13	-25.90616482
chr6	88236208	88236208	-	0	0	-34.84162896
chr6	88236213	88236213	-	0	0	-33.79475498
chr6	88236214	88236214	+	0	0	-31.26600861
chr6	88236215	88236215	-	0	0	-34.76867045
chr6	88236220	88236220	+	1.99E-05	0.00030653	-33.80713489
chr6	88236221	88236221	-	0	0	-34.71234648
chr6	88236255	88236255	+	0	0	-42.97248804
chr6	88236262	88236262	+	0	0	-32.43738176
chr6	88236357	88236357	-	0	0	-29.92602947
chr6	88565364	88565364	+	0	0	-30.18826513
chr6	88934779	88934779	-	1.69E-08	4.70E-07	-35.71235103
chr6	89281916	89281916	-	0	0	-32.23898378
chr6	89288446	89288446	+	4.77E-15	2.75E-13	-33.05322129

chr6	89298894	89298894	+	0	0	-28.92228398
chr6	90548259	90548259	+	0	0	-35.12406618
chr6	90619440	90619440	-	9.46E-05	0.00120216	-28.36438923
chr6	90757773	90757773	-	0	0	-32.21831184
chr6	90757789	90757789	-	0	0	-34.9461217
chr6	91081016	91081016	-	1.56E-05	0.00024622	-46.15384615
chr6	91566561	91566561	+	0	0	-26.18346469
chr6	91566591	91566591	+	0	0	-25.18575702
chr6	91577086	91577086	+	2.33E-10	8.30E-09	-29.70400119
chr6	91577103	91577103	+	4.93E-12	2.12E-10	-27.39205874
chr6	91721489	91721489	+	0	0	-33.67546059
chr6	91721490	91721490	-	6.13E-05	0.00082465	-30.35196687
chr6	91721506	91721506	+	0	0	-33.04698017
chr6	91721507	91721507	-	0	0	-38.78930131
chr6	91721537	91721537	-	1.11E-16	7.26E-15	-32.70327799
chr6	91808570	91808570	-	0.00044965	0.00454995	-31.30826101
chr6	91960212	91960212	+	1.90E-13	9.41E-12	-32.3125323
chr6	91960234	91960234	+	0	0	-46.83490163
chr6	92532013	92532013	+	0.00089869	0.00809056	25.92592593
chr6	92945006	92945006	-	4.22E-05	0.0005952	-27.57831325
chr6	93698940	93698940	+	1.65E-08	4.58E-07	-26.53679654
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chr6	94171293	94171293	+	4.80E-06	8.56E-05	-25.69734151
chr6	94183774	94183774	-	8.19E-05	0.00105999	-31.21356651
chr6	94281740	94281740	+	2.89E-05	0.00042535	-27.19917623
chr6	94640616	94640616	-	1.67E-06	3.29E-05	-40.56338028
chr6	94685073	94685073	+	2.87E-13	1.40E-11	-34.19282511
chr6	94729877	94729877	+	3.73E-07	8.30E-06	-37.02811245
chr6	96028525	96028525	+	1.37E-14	7.54E-13	-26.15793017
chr6	97110388	97110388	+	8.10E-10	2.70E-08	-32.72664835
chr6	97144622	97144622	+	1.70E-08	4.73E-07	-25.55263158
chr6	97144623	97144623	-	0	0	-26.0276444
chr6	97176088	97176088	-	0.00066966	0.00634629	-25.26315789
chr6	97221359	97221359	+	0	0	-26.16472259
chr6	97253215	97253215	-	0	0	-25.3318981
chr6	97368368	97368368	+	2.22E-16	1.43E-14	-30.50574119
chr6	97479584	97479584	+	1.32E-09	4.27E-08	-25.59626685
chr6	97488359	97488359	-	0	0	-31.24242533
chr6	97508757	97508757	-	4.52E-08	1.18E-06	-26.01799775
chr6	97518076	97518076	-	6.71E-14	3.47E-12	-27.65323365
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chr6	97534355	97534355	-	6.47E-08	1.64E-06	-25.80360013
chr6	97568571	97568571	+	0.00046828	0.00470851	-25.73591253
chr6	97568591	97568591	+	1.47E-05	0.00023357	-35.95238095
chr6	99030195	99030195	+	3.14E-12	1.38E-10	-35.2213868
chr6	99030243	99030243	+	1.23E-08	3.49E-07	-27.36842105
chr6	99030244	99030244	-	0	0	-25.1863354
chr6	99044039	99044039	-	0.00030365	0.00327107	-27.82446312
chr6	99204130	99204130	-	1.19E-10	4.38E-09	-48.07260156
chr6	99204137	99204137	-	6.24E-06	0.00010838	-28.68791698
chr6	99439974	99439974	+	0	0	-31.50971599
chr6	99440010	99440010	+	0	0	-39.64646465
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chr6	99440029	99440029	+	0	0	-37.02352284
chr6	99440083	99440083	+	0	0	-34.17442193
chr6	99440084	99440084	-	0	0	-40.29355472
chr6	99440090	99440090	+	0	0	-35.94218082
chr6	99440099	99440099	+	0	0	-30.48769309
chr6	99440230	99440230	-	0	0	-35.07575426
chr6	99819758	99819758	-	1.02E-10	3.81E-09	-28.71952609
chr6	100196120	100196120	+	0	0	-41.57022208
chr6	100196205	100196205	-	0	0	-35.10150948
chr6	100213016	100213016	+	6.66E-14	3.45E-12	-25.56426645
chr6	100213017	100213017	-	0	0	-36.24033464
chr6	100331594	100331594	+	0.00065836	0.00625764	-30.55555556
chr6	100432809	100432809	-	0.00026702	0.00293341	-32.91925466
chr6	100709697	100709697	-	2.09E-05	0.00031903	-28.28580793
chr6	101376610	101376610	-	0	0	-39.29014407
chr6	101454097	101454097	+	0	0	-26.41941095
chr6	108232107	108232107	+	1.88E-08	5.18E-07	-26.82553842
chr6	108238138	108238138	+	2.09E-05	0.00031968	-28.20102798
chr6	108392634	108392634	-	1.11E-16	7.26E-15	-29.54790275
chr6	108456817	108456817	-	0	0	-44.41856561
chr6	108456853	108456853	-	0	0	-35.1009584
chr6	108456869	108456869	+	0	0	-32.40133182
chr6	108456870	108456870	-	0	0	-35.84978521
chr6	108456897	108456897	-	0	0	-28.3463408
chr6	108759790	108759790	-	6.64E-05	0.0008843	-33.40445709
chr6	113000931	113000931	+	2.74E-07	6.26E-06	-30.53817272
chr6	113171737	113171737	-	6.61E-08	1.67E-06	-28.9615784
chr6	113409240	113409240	-	4.69E-06	8.38E-05	-49.6624156
chr6	113471020	113471020	+	3.77E-15	2.20E-13	-26.98604294

chr6	113501886	113501886	-	0	0	-25.83209329
chr6	113501913	113501913	+	0	0	-25.36447841
chr6	113690638	113690638	+	0	0	-29.53775133
chr6	113690787	113690787	-	0	0	-43.72781665
chr6	113690800	113690800	+	0	0	-27.11279632
chr6	113690801	113690801	-	0	0	-32.6135935
chr6	113690819	113690819	+	0	0	-29.9106265
chr6	114014714	114014714	-	0.00066385	0.00630022	-43.12039312
chr6	114411272	114411272	-	0	0	-27.14705781
chr6	114724354	114724354	+	5.36E-10	1.83E-08	-25.42622951
chr6	114724897	114724897	+	1.68E-06	3.31E-05	-29.81855095
chr6	114724912	114724912	+	2.34E-08	6.36E-07	-29.48054437
chr6	114724917	114724917	+	3.01E-10	1.06E-08	-35.57595573
chr6	114725470	114725470	-	0	0	-40.31032669
chr6	114738393	114738393	+	0	0	-54.32436172
chr6	114738398	114738398	+	0	0	-63.79874214
chr6	114738402	114738402	+	0	0	-51.11779115
chr6	114738405	114738405	+	0	0	-65.20108664
chr6	114738414	114738414	+	0	0	-58.65197853
chr6	114738427	114738427	+	0	0	-62.70399971
chr6	114738429	114738429	+	0	0	-58.3958093
chr6	114738433	114738433	+	0	0	-67.96820487
chr6	114738542	114738542	-	0	0	-57.84854161
chr6	114738544	114738544	-	0	0	-56.50972502
chr6	114738548	114738548	-	0	0	-56.77361392
chr6	114738552	114738552	-	0	0	-62.74909732
chr6	114738562	114738562	-	0	0	-39.53880431
chr6	114738586	114738586	-	0	0	-56.1803989
chr6	114738590	114738590	+	1.25E-06	2.53E-05	-27.88571429
chr6	114738591	114738591	-	0	0	-45.73758467
chr6	114738598	114738598	+	2.22E-16	1.43E-14	-45.9492947
chr6	114738601	114738601	+	7.20E-09	2.11E-07	-33.14285714
chr6	114738612	114738612	+	3.77E-15	2.20E-13	-37.73496241
chr6	114738620	114738620	+	1.74E-12	7.82E-11	-33.95847573
chr6	114817650	114817650	+	0	0	-41.26134067
chr6	114901781	114901781	-	0.00054089	0.00531346	-28.57142857
chr6	114901816	114901816	-	0.00011661	0.00143922	-31.0986311
chr6	115538878	115538878	+	1.35E-08	3.80E-07	-26.83150183
chr6	115619808	115619808	+	0	0	-29.94636247
chr6	115730444	115730444	+	0	0	-34.12162162
chr6	115730481	115730481	+	0	0	-36.73578614

chr6	115730482	115730482	-	0	0	-37.51636126
chr6	115730493	115730493	-	0	0	-37.72178592
chr6	115806037	115806037	-	0	0	-25.0988628
chr6	115898323	115898323	+	0	0	-33.80211293
chr6	115957409	115957409	+	0	0	-25.22926856
chr6	115991756	115991756	+	2.89E-15	1.70E-13	-25.47082433
chr6	115991956	115991956	-	1.78E-13	8.85E-12	-25.80061417
chr6	115993467	115993467	-	0	0	-41.35698962
chr6	115993500	115993500	-	0	0	-32.79798964
chr6	116003945	116003945	-	0	0	-30.63740793
chr6	116004239	116004239	+	0	0	-26.23400366
chr6	116004269	116004269	+	0	0	-32.31703741
chr6	116004270	116004270	-	0	0	-27.33337915
chr6	116004281	116004281	+	0	0	-27.98783277
chr6	116227856	116227856	+	0.00028622	0.00311123	-32.42044862
chr6	116227872	116227872	+	6.89E-08	1.74E-06	-42.13250518
chr6	117171518	117171518	-	0.00027457	0.00300376	-36
chr6	117997634	117997634	-	2.03E-07	4.75E-06	-56.2745098
chr6	119325345	119325345	-	2.66E-15	1.57E-13	-26.99107004
chr6	119330456	119330456	-	2.24E-05	0.00034064	-31.30630631
chr6	119346837	119346837	-	5.62E-06	9.87E-05	-27.0995671
chr6	119346856	119346856	-	5.81E-06	0.00010162	-29.91452991
chr6	119449509	119449509	-	0	0	-30.18930222
chr6	119483101	119483101	-	0	0	-26.02846941
chr6	119520858	119520858	-	0	0	-25.15911064
chr6	120202212	120202212	+	0	0	-28.32224942
chr6	120202225	120202225	+	0	0	-45.52237684
chr6	120202226	120202226	-	0	0	-46.14313562
chr6	120202265	120202265	+	0	0	-36.61594739
chr6	120202266	120202266	-	0	0	-38.09084616
chr6	120202268	120202268	+	0	0	-50.50378877
chr6	120202373	120202373	-	0	0	-30.48456361
chr6	120202386	120202386	-	0	0	-29.57941367
chr6	120202842	120202842	+	0.00054903	0.00537996	-27.69277846
chr6	120275477	120275477	+	7.18E-07	1.52E-05	-26.54809497
chr6	120462984	120462984	+	8.18E-12	3.43E-10	-26.48263468
chr6	120462994	120462994	+	1.32E-12	6.02E-11	-28.07163163
chr6	120463000	120463000	+	3.11E-15	1.82E-13	-31.05810437
chr6	120486005	120486005	+	1.65E-10	5.98E-09	-32.17149578
chr6	120492208	120492208	+	0	0	-33.41299752
chr6	120492241	120492241	+	0	0	-33.7422277

chr6	120644656	120644656	-	3.07E-06	5.72E-05	-31.97264816
chr6	121064288	121064288	-	0	0	-30.32440056
chr6	121086445	121086445	+	2.47E-07	5.70E-06	-27.75579423
chr6	121086452	121086452	+	0.00012651	0.00154464	-28.85456534
chr6	121086460	121086460	+	2.27E-07	5.26E-06	-37.21979224
chr6	121086510	121086510	+	2.22E-09	6.97E-08	-29.64912281
chr6	121300197	121300197	-	1.25E-08	3.53E-07	-28.56296067
chr6	122595861	122595861	+	9.74E-14	4.97E-12	-31.75403226
chr6	122595928	122595928	-	0	0	-39.05811831
chr6	122609784	122609784	-	1.31E-13	6.61E-12	-25.81038647
chr6	122628672	122628672	+	0	0	-25.87185821
chr6	122628673	122628673	-	0	0	-29.66200223
chr6	122628683	122628683	+	0	0	-25.80958045
chr6	122628684	122628684	-	0	0	-28.58765782
chr6	122628715	122628715	-	0	0	-25.93684941
chr6	122628731	122628731	+	6.77E-15	3.85E-13	-26.85687989
chr6	122628753	122628753	+	2.22E-16	1.43E-14	-27.31498329
chr6	122636771	122636771	-	4.92E-05	0.00068009	-27.65151515
chr6	122663151	122663151	-	0	0	-35.1417606
chr6	122663166	122663166	-	0	0	-27.70304978
chr6	122743730	122743730	-	2.47E-12	1.10E-10	-36.84679132
chr6	122743765	122743765	-	2.17E-08	5.92E-07	-29.9912816
chr6	122833567	122833567	+	0.00070325	0.00660615	-26
chr6	122919962	122919962	-	0	0	-26.83539057
chr6	124761403	124761403	+	8.74E-07	1.82E-05	-25.5375
chr6	124778978	124778978	-	0.00022657	0.00254849	-44
chr6	124778985	124778985	-	8.79E-08	2.18E-06	-61.48148148
chr6	124839776	124839776	+	0	0	-30.73978371
chr6	124839951	124839951	+	0	0	-26.38548332
chr6	124858364	124858364	+	6.62E-11	2.52E-09	-32.17567568
chr6	124858390	124858390	+	0	0	-45.30360531
chr6	124858498	124858498	-	1.35E-08	3.80E-07	-32.99145299
chr6	124858741	124858741	-	1.67E-15	9.99E-14	-39.92200328
chr6	124858747	124858747	-	6.64E-10	2.24E-08	-29.82295831
chr6	124858760	124858760	+	0	0	-37.59056465
chr6	124858761	124858761	-	0	0	-35.62102039
chr6	124858794	124858794	+	0	0	-27.72540046
chr6	124858795	124858795	-	0	0	-30.12519799
chr6	124858800	124858800	-	0	0	-30.66900982
chr6	124858807	124858807	+	0	0	-25.93861329
chr6	124858808	124858808	-	0	0	-29.39581647

chr6	124858826	124858826	+	0	0	-26.35224522
chr6	124858829	124858829	+	0	0	-29.54822955
chr6	124904490	124904490	+	0	0	-29.30547907
chr6	124904508	124904508	+	0	0	-29.34588629
chr6	124904509	124904509	-	0	0	-34.84785036
chr6	124904521	124904521	+	0	0	-29.29572736
chr6	124904522	124904522	-	0	0	-27.80622962
chr6	124904551	124904551	-	0	0	-25.61037105
chr6	124904918	124904918	+	0	0	-26.25668535
chr6	124915813	124915813	-	0	0	-38.72834652
chr6	124915837	124915837	-	0	0	-48.50953895
chr6	124915851	124915851	+	0.00042999	0.00438134	-40.63492063
chr6	124915852	124915852	-	0	0	-33.34849111
chr6	124915884	124915884	+	0.00104822	0.00917786	-38.17460317
chr6	125061597	125061597	-	0	0	-27.47215025
chr6	125073562	125073562	-	3.71E-08	9.78E-07	-27.01249637
chr6	125073577	125073577	-	1.97E-09	6.23E-08	-28.63668979
chr6	125080496	125080496	+	0	0	-26.875762
chr6	125080617	125080617	-	5.55E-16	3.46E-14	-31.4065583
chr6	125149265	125149265	-	0.00016622	0.00195522	-25.77422577
chr6	125321385	125321385	+	0	0	-36.50296064
chr6	125321402	125321402	+	0	0	-45.04364359
chr6	125321409	125321409	+	0	0	-31.01532567
chr6	125321554	125321554	-	1.44E-06	2.86E-05	-31.38755981
chr6	125321578	125321578	-	0	0	-61.67013278
chr6	125321587	125321587	-	5.07E-09	1.52E-07	-38.85520252
chr6	125322073	125322073	+	0	0	-25.61458184
chr6	125322105	125322105	+	0	0	-26.96639719
chr6	125322106	125322106	-	0	0	-32.51463754
chr6	125322125	125322125	-	0	0	-38.01046884
chr6	125343858	125343858	+	0.00048088	0.00481516	-35.09070295
chr6	125475260	125475260	-	7.42E-10	2.49E-08	-34.52350207
chr6	125540409	125540409	+	6.37E-10	2.15E-08	-28.84157445
chr6	125596695	125596695	-	0	0	-34.8120069
chr6	125963941	125963941	+	6.37E-05	0.00085263	-36
chr6	126533954	126533954	-	6.37E-10	2.15E-08	-25.33296844
chr6	126795781	126795781	-	0.00024688	0.00274282	-28.20689655
chr6	126921717	126921717	-	0	0	-28.13139991
chr6	126921744	126921744	-	0	0	-28.88392534
chr6	126921774	126921774	+	0.0001239	0.0015171	-29.76554536
chr6	127146029	127146029	+	0	0	-52.05974843



chr6	127146038	127146038	+	0	0	-53.63881402
chr6	127146051	127146051	+	0	0	-60.02109705
chr6	127146061	127146061	+	1.11E-16	7.26E-15	-47.80462185
chr6	127251161	127251161	+	1.49E-09	4.78E-08	-26.98701299
chr6	127251340	127251340	-	0	0	-38.33642897
chr6	127251349	127251349	-	0	0	-25.72737186
chr6	127331006	127331006	-	0.0004979	0.00495691	-25.87301587
chr6	127337400	127337400	+	1.67E-15	9.99E-14	-25.26724933
chr6	127337450	127337450	+	0	0	-25.91588599
chr6	127337468	127337468	-	3.33E-16	2.11E-14	-30.51565253
chr6	127337518	127337518	-	2.11E-15	1.25E-13	-27.85372123
chr6	127581981	127581981	+	0	0	-28.61952862
chr6	127895223	127895223	+	1.24E-12	5.65E-11	-29.29292929
chr6	127956320	127956320	+	3.66E-09	1.12E-07	-26.70885621
chr6	128043775	128043775	-	0	0	-25.85710036
chr6	128065726	128065726	+	3.76E-05	0.00053624	-38.88481291
chr6	128093273	128093273	+	0	0	-27.54723434
chr6	128093322	128093322	+	0	0	-31.99528892
chr6	128093323	128093323	-	0	0	-30.89275266
chr6	128296650	128296650	+	2.22E-16	1.43E-14	-28.69191681
chr6	128296651	128296651	-	1.50E-14	8.25E-13	-28.44178137
chr6	128296770	128296770	-	0	0	-28.10564931
chr6	128297202	128297202	+	0	0	-31.06016355
chr6	128362018	128362018	+	1.30E-05	0.00020955	-46.40522876
chr6	128399890	128399890	+	1.31E-12	5.99E-11	-26.83850702
chr6	128399936	128399936	+	1.02E-13	5.20E-12	-37.59018759
chr6	128399938	128399938	+	3.66E-09	1.12E-07	-31.5498455
chr6	128479634	128479634	-	1.09E-07	2.67E-06	-28.16901408
chr6	128597522	128597522	+	1.11E-16	7.26E-15	-25.00332859
chr6	132642933	132642933	+	3.04E-06	5.66E-05	51.34952767
chr6	134119176	134119176	+	6.36E-11	2.42E-09	-32.73582313
chr6	134119217	134119217	-	0	0	-33.3283936
chr6	134147770	134147770	-	2.69E-09	8.37E-08	-25.03775059
chr6	134148065	134148065	+	6.18E-06	0.00010746	-31.39084507
chr6	134148085	134148085	+	1.62E-06	3.20E-05	-34.41140671
chr6	134148093	134148093	+	1.76E-09	5.61E-08	-42.34046253
chr6	134251538	134251538	+	0	0	-27.52862595
chr6	134256575	134256575	-	0	0	-30.95321637
chr6	134263099	134263099	+	0	0	-32.31132075
chr6	134535265	134535265	+	3.27E-09	1.01E-07	-26.52350795
chr6	134887690	134887690	-	2.22E-16	1.43E-14	-32.44709086

chr6	135048669	135048669	+	2.64E-11	1.05E-09	-26.62740365
chr6	135180779	135180779	-	7.39E-14	3.81E-12	-27.06325875
chr6	136469171	136469171	-	0	0	-28.51920742
chr6	136469200	136469200	+	2.76E-07	6.30E-06	-26.17707577
chr6	136469246	136469246	-	0	0	-27.03719295
chr6	136470387	136470387	+	0	0	-26.06310911
chr6	136470530	136470530	-	0	0	-27.7326927
chr6	136807405	136807405	+	0	0	-39.92458817
chr6	136959126	136959126	+	0	0	-27.92571103
chr6	136959133	136959133	+	0	0	-28.00041876
chr6	137129753	137129753	+	0	0	-49.27699638
chr6	137129799	137129799	+	0	0	-49.15690401
chr6	137129800	137129800	-	0	0	-52.55058115
chr6	137129830	137129830	-	0	0	-51.81521739
chr6	140268650	140268650	+	0	0	-27.78688996
chr6	140707143	140707143	+	0	0	-32.83759651
chr6	140707205	140707205	-	0	0	-31.70903955
chr6	140707219	140707219	-	1.11E-16	7.26E-15	-29.80838109
chr6	140707249	140707249	+	0	0	-28.62809019
chr6	140707250	140707250	-	0	0	-29.45719788
chr6	140707276	140707276	+	0	0	-39.24019393
chr6	140707277	140707277	-	0	0	-39.1210121
chr6	140707291	140707291	-	0	0	-33.04880066
chr6	141250614	141250614	-	0	0	-29.02964427
chr6	142511877	142511877	+	1.51E-08	4.23E-07	-27.96513831
chr6	142511879	142511879	+	3.33E-12	1.46E-10	-35.86900017
chr6	142741670	142741670	-	8.34E-09	2.42E-07	-26.44927536
chr6	142963685	142963685	-	0	0	-25.66458005
chr6	142963739	142963739	+	0	0	-26.87777477
chr6	143135398	143135398	-	2.62E-07	6.01E-06	-29.71290047
chr6	143316115	143316115	+	0	0	-28.86084919
chr6	144273932	144273932	-	0	0	-35.80731094
chr6	144780144	144780144	+	0	0	-28.96899278
chr6	144783011	144783011	-	0	0	-26.04187629
chr6	145022485	145022485	-	0	0	-30.02747725
chr6	145022515	145022515	-	0	0	-26.72369103
chr6	145633993	145633993	+	1.92E-07	4.51E-06	-47.6744186
chr6	145815489	145815489	+	0	0	-29.43721942
chr6	145815490	145815490	-	0	0	-25.71827472
chr6	145815523	145815523	+	0	0	-36.08134921
chr6	145815524	145815524	-	0	0	-28.12641894

chr6	145862806	145862806	+	0	0	-31.87241792
chr6	146514796	146514796	+	0	0	-29.81138505
chr6	148354584	148354584	+	0	0	-25.85094476
chr6	148354585	148354585	-	0	0	-30.14227303
chr6	148354597	148354597	+	0	0	-29.54625929
chr6	148354598	148354598	-	0	0	-29.26879085
chr6	148354616	148354616	-	0	0	-26.22003095
chr6	148354633	148354633	+	0	0	-28.49247527
chr6	148354639	148354639	+	0	0	-27.93873234
chr6	148354641	148354641	+	0	0	-33.47155096
chr6	148354643	148354643	+	0	0	-34.29274836
chr6	148354650	148354650	+	0	0	-29.32835178
chr6	148354660	148354660	+	0	0	-32.99512768
chr6	148354741	148354741	-	0	0	-31.36758139
chr6	148354748	148354748	-	4.44E-16	2.79E-14	-26.82695949
chr6	148354756	148354756	-	0	0	-27.57734412
chr6	148354791	148354791	-	0.00021184	0.00240719	-27.62770452
chr6	148354793	148354793	-	2.47E-06	4.69E-05	-35.53459119
chr6	148354802	148354802	-	1.93E-05	0.00029825	-29.37595129
chr6	148354808	148354808	+	0	0	-27.06917275
chr6	148354813	148354813	+	0	0	-30.06596622
chr6	148354841	148354841	+	0	0	-26.6031391
chr6	148972203	148972203	+	0	0	-27.99513066
chr6	148972274	148972274	+	5.90E-05	0.0007974	-26.94592989
chr6	148982925	148982925	+	7.16E-11	2.71E-09	-26.09615385
chr6	149342919	149342919	-	0	0	-31.94371777
chr6	149342942	149342942	-	0	0	-26.43692338
chr7	3201449	3201449	+	0	0	-27.42214113
chr7	3201531	3201531	-	0	0	-31.45936511
chr7	3213907	3213907	+	4.44E-05	0.00062257	-27.34580052
chr7	3219392	3219392	-	2.19E-06	4.21E-05	-25.86522703
chr7	3219409	3219409	-	4.10E-09	1.24E-07	-27.46552173
chr7	3304261	3304261	+	0.00014201	0.00170746	-27.08333333
chr7	3304734	3304734	+	1.96E-06	3.80E-05	-32.80228758
chr7	3401065	3401065	+	4.09E-08	1.07E-06	-29.86928105
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chr7	3423421	3423421	+	0	0	-32.97739008
chr7	3423422	3423422	-	0	0	-38.26951147
chr7	3423426	3423426	-	0	0	-25.16087971
chr7	3424723	3424723	-	0	0	-27.21788759
chr7	3424726	3424726	-	0	0	-26.83074087

chr7	4707473	4707473	+	7.34E-12	3.09E-10	-29.9372002
chr7	4751731	4751731	+	1.20E-05	0.00019452	-26.14133834
chr7	4778158	4778158	-	0.00014643	0.0017534	-27.8786431
chr7	4844861	4844861	+	6.18E-06	0.00010739	-32.55952381
chr7	4845135	4845135	+	1.29E-05	0.00020798	-44.82142857
chr7	4993930	4993930	-	1.95E-07	4.56E-06	-60.07905138
chr7	5053574	5053574	+	0	0	-32.4870119
chr7	13043371	13043371	+	0	0	-25.49220748
chr7	13043382	13043382	+	0	0	-28.42155738
chr7	13043388	13043388	+	0	0	-25.92976766
chr7	13043456	13043456	-	0	0	-32.8725088
chr7	13043477	13043477	+	1.81E-05	0.00028074	-26.7642715
chr7	13043478	13043478	-	4.19E-05	0.00059091	-27.15846177
chr7	13043486	13043486	-	8.69E-06	0.00014594	-29.26829268
chr7	13261209	13261209	+	0	0	-31.77522912
chr7	13261257	13261257	+	0	0	-29.96657436
chr7	13261313	13261313	-	0	0	-33.32003434
chr7	13261322	13261322	-	0	0	-30.1531242
chr7	13261386	13261386	-	0	0	-25.78511151
chr7	13261438	13261438	+	0	0	-26.91342237
chr7	13261445	13261445	+	0	0	-26.83470622
chr7	13261475	13261475	+	0	0	-25.2296089
chr7	15565084	15565084	+	1.01E-05	0.00016683	32.22477064
chr7	16225028	16225028	+	0	0	-26.52771822
chr7	16280719	16280719	+	0	0	-29.3464319
chr7	16297254	16297254	-	0.0003669	0.00383664	-28.42052314
chr7	16426286	16426286	+	0.00011393	0.0014104	-33.6026936
chr7	16433036	16433036	-	1.09E-05	0.00017949	-26.74409891
chr7	16858503	16858503	-	0	0	-30.63403782
chr7	16885672	16885672	+	1.66E-11	6.75E-10	-32.29665072
chr7	17060906	17060906	+	0	0	-29.72505582
chr7	17610885	17610885	+	3.68E-07	8.22E-06	37.30025231
chr7	18893174	18893174	+	8.02E-09	2.33E-07	-27.07186727
chr7	19000341	19000341	+	4.44E-13	2.12E-11	-26.55608755
chr7	19004965	19004965	+	0	0	-29.43601137
chr7	19004975	19004975	+	0	0	-27.23599633
chr7	19005051	19005051	-	0	0	-31.74143325
chr7	19005083	19005083	-	0	0	-26.25812921
chr7	19005109	19005109	+	0	0	-26.08169678
chr7	19009783	19009783	+	0	0	-28.48934454
chr7	19009791	19009791	+	0	0	-26.98528833

chr7	19009894	19009894	-	0	0	-41.732546
chr7	19009925	19009925	-	0	0	-36.05444941
chr7	19009934	19009934	-	0	0	-29.70901279
chr7	19021250	19021250	-	0	0	-28.35448139
chr7	19021277	19021277	-	0	0	-36.536766
chr7	19021281	19021281	-	0	0	-25.99177465
chr7	19022317	19022317	+	0	0	-29.23170649
chr7	19022934	19022934	+	0	0	-29.17748918
chr7	19022953	19022953	+	1.02E-10	3.81E-09	-28.61607235
chr7	19023330	19023330	-	0	0	-38.96098726
chr7	19054185	19054185	+	1.79E-06	3.50E-05	-30.45977011
chr7	19054205	19054205	+	3.61E-07	8.06E-06	-26.13636364
chr7	19054206	19054206	-	1.73E-10	6.26E-09	-32.15277778
chr7	19054214	19054214	-	2.55E-05	0.00038099	-27.81562417
chr7	19091786	19091786	+	0	0	-36.5910523
chr7	19091801	19091801	+	0	0	-40.55012933
chr7	19091802	19091802	-	0	0	-39.53870566
chr7	19091803	19091803	+	0	0	-47.48499964
chr7	19091804	19091804	-	0	0	-38.04726089
chr7	19091820	19091820	-	0	0	-32.16860427
chr7	19118444	19118444	-	7.24E-13	3.39E-11	-28.46903731
chr7	19291132	19291132	+	1.22E-12	5.59E-11	-29.62068966
chr7	19291136	19291136	+	3.72E-07	8.29E-06	-27.17615419
chr7	19291146	19291146	+	2.35E-06	4.49E-05	-27.21010333
chr7	19307715	19307715	-	2.00E-05	0.00030711	-54.81481481
chr7	19369823	19369823	+	0.00011195	0.00138934	-31.40730238
chr7	19464615	19464615	+	0	0	-43.10641764
chr7	19464645	19464645	+	0	0	-29.73819698
chr7	19464734	19464734	+	0	0	-45.54722639
chr7	19464771	19464771	+	0	0	-37.97979798
chr7	19464772	19464772	-	0	0	-40.07607747
chr7	19464928	19464928	-	0	0	-44.84320557
chr7	19464953	19464953	+	0	0	-36.22343795
chr7	19464954	19464954	-	4.32E-12	1.87E-10	-37.91005291
chr7	19464970	19464970	+	0	0	-37.68814225
chr7	19464990	19464990	+	0	0	-36.0173799
chr7	19506866	19506866	+	0	0	-36.56299301
chr7	19506874	19506874	+	0	0	-25.89565591
chr7	19506884	19506884	+	0	0	-28.92550459
chr7	19619476	19619476	+	0	0	-28.0556765
chr7	19619523	19619523	-	0	0	-26.16971727

chr7	19619570	19619570	+	0	0	-29.81527094
chr7	19619574	19619574	+	0	0	-41.46199172
chr7	19619578	19619578	+	0	0	-41.50312058
chr7	19619585	19619585	+	0	0	-40.61081114
chr7	19619591	19619591	+	0	0	-33.19271577
chr7	19619596	19619596	+	0	0	-34.4840791
chr7	19619602	19619602	+	0	0	-39.16125234
chr7	19619611	19619611	+	0	0	-34.2524615
chr7	19619612	19619612	-	0	0	-32.61671402
chr7	19619644	19619644	-	0	0	-35.46951317
chr7	19619648	19619648	-	0	0	-34.72436951
chr7	19619656	19619656	-	0	0	-25.88751124
chr7	19619660	19619660	+	2.49E-09	7.78E-08	-63.99099775
chr7	19619661	19619661	-	0	0	-37.07722815
chr7	19619698	19619698	-	0.00043796	0.00444991	-25.74074074
chr7	19619701	19619701	-	3.08E-06	5.74E-05	-35.4517134
chr7	19619707	19619707	-	5.20E-06	9.20E-05	-35.46312178
chr7	19701565	19701565	-	5.87E-10	1.99E-08	-27.36867548
chr7	19701598	19701598	+	6.88E-15	3.91E-13	-26.30873768
chr7	19785239	19785239	-	0	0	-26.43694231
chr7	19796385	19796385	+	0	0	-33.34643799
chr7	19796470	19796470	+	0	0	-28.79915076
chr7	19796595	19796595	+	5.81E-13	2.75E-11	-28.42809365
chr7	19796596	19796596	-	0	0	-33.1990672
chr7	19796627	19796627	+	0	0	-28.01882983
chr7	19796634	19796634	+	0	0	-31.85101321
chr7	19811300	19811300	+	0	0	-39.49772672
chr7	19811328	19811328	+	0	0	-35.12747415
chr7	19811329	19811329	-	0	0	-33.42101818
chr7	19811335	19811335	+	0	0	-32.67850439
chr7	19811336	19811336	-	0	0	-31.35320722
chr7	19811337	19811337	+	0	0	-31.62808376
chr7	19811338	19811338	-	0	0	-31.20797481
chr7	19811342	19811342	+	0	0	-34.29864162
chr7	19811343	19811343	-	0	0	-36.71897224
chr7	19811376	19811376	+	0	0	-35.05779313
chr7	19811377	19811377	-	0	0	-38.91132514
chr7	19811385	19811385	+	0	0	-40.31520037
chr7	19811391	19811391	+	0	0	-42.47450349
chr7	19811443	19811443	+	0	0	-49.42075623
chr7	19811444	19811444	-	0	0	-45.82824583

chr7	19847487	19847487	-	9.62E-12	4.01E-10	-29.16898741
chr7	19950171	19950171	+	0	0	-26.3347661
chr7	19950172	19950172	-	5.94E-11	2.27E-09	-44.13763806
chr7	19950203	19950203	+	0	0	-31.00218863
chr7	21205372	21205372	+	0.00016746	0.00196787	36.61835749
chr7	24377055	24377055	+	0	0	-36.42876173
chr7	24377120	24377120	-	0	0	-32.05131182
chr7	24377126	24377126	+	4.17E-13	2.00E-11	-36.80695606
chr7	24377150	24377150	+	9.99E-16	6.10E-14	-35.53506036
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chr7	24377193	24377193	-	0	0	-35.63329335
chr7	24377200	24377200	-	0	0	-39.12880267
chr7	24377212	24377212	-	0	0	-40.29784893
chr7	24377217	24377217	-	0	0	-47.66005122
chr7	24377223	24377223	+	0	0	-42.19195871
chr7	24377224	24377224	-	0	0	-40.97157451
chr7	24377244	24377244	+	0	0	-42.41900281
chr7	24377301	24377301	-	0	0	-43.52030948
chr7	24377308	24377308	-	0	0	-44.89311052
chr7	24377317	24377317	-	1.02E-12	4.71E-11	-47.45021296
chr7	24377324	24377324	-	4.05E-14	2.14E-12	-46.30933454
chr7	24377331	24377331	+	0	0	-31.0978283
chr7	24377332	24377332	-	6.93E-08	1.75E-06	-25.89903954
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chr7	24377335	24377335	-	0	0	-44.97504805
chr7	24377344	24377344	+	0	0	-48.98893123
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chr7	24377372	24377372	+	0	0	-53.75124067
chr7	24377373	24377373	-	0	0	-53.69083085
chr7	24377383	24377383	+	0	0	-36.17517146
chr7	24377384	24377384	-	0	0	-34.39564254
chr7	24377394	24377394	+	0	0	-47.86084766
chr7	24377401	24377401	+	0	0	-49.5437628
chr7	24377402	24377402	-	0	0	-44.78501878
chr7	24377408	24377408	+	0	0	-46.62330289
chr7	24377409	24377409	-	0	0	-44.89735313
chr7	24377416	24377416	+	0	0	-49.19268155
chr7	24377417	24377417	-	0	0	-47.55210627
chr7	24377429	24377429	+	0	0	-28.35895675
chr7	24377430	24377430	-	0	0	-30.82189019
chr7	24377432	24377432	+	0	0	-37.95430298

chr7	24377433	24377433	-	0	0	-50.04361041
chr7	24377435	24377435	-	0	0	-49.3095345
chr7	24377446	24377446	+	0	0	-46.22377991
chr7	24377447	24377447	-	0	0	-40.56529797
chr7	24377459	24377459	+	0	0	-43.85327165
chr7	24377465	24377465	+	0	0	-50.29126214
chr7	24377470	24377470	+	0	0	-55.76314517
chr7	24377496	24377496	+	0	0	-55.61031519
chr7	24377587	24377587	-	0	0	-28.49803481
chr7	24377604	24377604	-	0	0	-55.2853643
chr7	24377627	24377627	-	0	0	-39.86922583
chr7	24377633	24377633	-	0	0	-42.13284019
chr7	24378447	24378447	-	0.0002432	0.00270796	-53.07692308
chr7	24391005	24391005	+	0	0	-25.7169238
chr7	24432527	24432527	-	3.22E-08	8.57E-07	-28.04981452
chr7	24585994	24585994	-	0	0	-28.41262232
chr7	24586052	24586052	-	7.20E-06	0.00012327	-29.38120703
chr7	24586067	24586067	-	6.20E-07	1.33E-05	-32.72164652
chr7	24594559	24594559	-	0	0	-31.36830395
chr7	24594605	24594605	+	0	0	-41.65888162
chr7	24594606	24594606	-	0	0	-33.90377079
chr7	24594614	24594614	+	2.22E-16	1.43E-14	-32.4803374
chr7	24594639	24594639	+	0	0	-44.56853608
chr7	24595032	24595032	-	0	0	-27.13892195
chr7	24612936	24612936	+	0	0	-28.13111717
chr7	24612954	24612954	+	0	0	-33.73327402
chr7	24612972	24612972	+	0	0	-31.36778597
chr7	24613006	24613006	-	0	0	-34.99089735
chr7	24613029	24613029	-	0	0	-32.28064473
chr7	24636457	24636457	-	0	0	-32.94946027
chr7	24636461	24636461	-	0	0	-38.96034473
chr7	24636567	24636567	+	0	0	-30.70588321
chr7	24636569	24636569	+	0	0	-27.9038162
chr7	24636638	24636638	-	7.99E-15	4.51E-13	-25.44778388
chr7	24636657	24636657	+	0	0	-28.942363
chr7	24637165	24637165	-	0	0	-26.66429005
chr7	24719093	24719093	-	3.30E-06	6.11E-05	-25.15017568
chr7	24951289	24951289	+	0	0	-29.80587121
chr7	24951322	24951322	+	0	0	-34.78235753
chr7	24951333	24951333	+	0	0	-25.19670645
chr7	24951441	24951441	+	0	0	-29.0186169



chr7	24951467	24951467	-	0	0	-25.69546539
chr7	24952629	24952629	+	0	0	-27.9493466
chr7	25069631	25069631	-	2.22E-16	1.43E-14	-26.62421797
chr7	25069637	25069637	-	0	0	-27.0012689
chr7	25106960	25106960	+	2.00E-15	1.19E-13	-30.81421502
chr7	25121090	25121090	-	0.00029194	0.00316325	-31.31955485
chr7	25121631	25121631	+	0	0	-33.43241311
chr7	25121678	25121678	+	0	0	-45.96605441
chr7	25121709	25121709	-	0	0	-38.38066832
chr7	25121731	25121731	-	0	0	-34.30026839
chr7	25134811	25134811	+	0	0	-25.89585566
chr7	25134812	25134812	-	0	0	-26.65532569
chr7	25134852	25134852	+	0	0	-27.98851052
chr7	25134853	25134853	-	0	0	-26.84821472
chr7	25134864	25134864	-	0	0	-27.53716738
chr7	25134895	25134895	+	0	0	-26.26895118
chr7	25134896	25134896	-	0	0	-26.13711961
chr7	25134939	25134939	+	0	0	-32.82206049
chr7	25156318	25156318	-	3.28E-06	6.07E-05	-35.81081081
chr7	25156352	25156352	-	3.42E-06	6.30E-05	-36.10689341
chr7	25317346	25317346	+	0	0	-33.56251794
chr7	25317347	25317347	-	0	0	-30.13192265
chr7	25317364	25317364	-	0	0	-28.18968118
chr7	25326320	25326320	+	0	0	-26.30519831
chr7	25326384	25326384	-	0	0	-33.07608011
chr7	25326398	25326398	-	0	0	-29.46815621
chr7	25326463	25326463	-	0	0	-28.38831479
chr7	25326471	25326471	-	0	0	-31.51003083
chr7	25326512	25326512	-	0	0	-29.73582869
chr7	25333683	25333683	+	0	0	-30.12813004
chr7	25376909	25376909	-	2.28E-05	0.00034478	-29.05982906
chr7	25628150	25628150	+	0	0	-27.17821815
chr7	25628156	25628156	+	0	0	-26.79028298
chr7	25628657	25628657	+	0	0	-27.27120385
chr7	25704949	25704949	-	2.48E-10	8.81E-09	-26.04688439
chr7	25707637	25707637	+	7.79E-13	3.63E-11	-25.66586777
chr7	25707678	25707678	+	0	0	-37.3075546
chr7	25707679	25707679	-	0	0	-37.77867816
chr7	25707685	25707685	+	7.11E-15	4.03E-13	-29.10570067
chr7	25707712	25707712	-	0	0	-25.65100119
chr7	25722222	25722222	-	6.31E-12	2.68E-10	-38.21793137

chr7	25763958	25763958	-	0	0	-31.63664934
chr7	25763963	25763963	-	0	0	-31.62214968
chr7	25788159	25788159	+	6.05E-05	0.00081497	-33.12693498
chr7	25860133	25860133	+	0	0	-35.69349778
chr7	27180245	27180245	+	0.0001482	0.00177156	-27.31601732
chr7	27281884	27281884	-	1.11E-09	3.65E-08	-41.21568627
chr7	27281889	27281889	-	0.00011321	0.00140274	-28.12177503
chr7	27281894	27281894	-	4.10E-05	0.00058041	-27.73477812
chr7	27365679	27365679	+	0.00063216	0.00604869	-35.71428571
chr7	27365716	27365716	+	8.21E-05	0.00106231	-39.79591837
chr7	27434237	27434237	+	1.29E-09	4.20E-08	-30.74935401
chr7	27446087	27446087	-	7.65E-10	2.56E-08	-25.10705899
chr7	27596934	27596934	+	0	0	-39.60992681
chr7	27596935	27596935	-	0	0	-29.67745055
chr7	28221434	28221434	-	0.00030402	0.00327446	27.56286267
chr7	28374732	28374732	+	2.01E-09	6.36E-08	-46.10095327
chr7	28374756	28374756	+	7.33E-07	1.55E-05	-33.0221519
chr7	28385971	28385971	+	0	0	-25.62168889
chr7	28467168	28467168	+	0	0	-29.72549616
chr7	28467175	28467175	+	0	0	-26.76644622
chr7	28467184	28467184	+	0	0	-32.838275
chr7	28467188	28467188	+	0	0	-28.72401809
chr7	28467215	28467215	+	0	0	-32.37654736
chr7	28467216	28467216	-	0	0	-30.0112456
chr7	28467225	28467225	-	0	0	-37.35950465
chr7	28467542	28467542	+	3.08E-14	1.64E-12	-47.02404415
chr7	28467571	28467571	+	6.23E-10	2.11E-08	-38.18793559
chr7	28467573	28467573	+	2.74E-09	8.50E-08	-37.14285714
chr7	28467575	28467575	+	2.06E-08	5.66E-07	-32.95454545
chr7	28544236	28544236	-	0	0	-33.96839213
chr7	28593667	28593667	+	2.68E-06	5.06E-05	-25.37343358
chr7	28593914	28593914	+	0	0	-25.52530331
chr7	28675797	28675797	+	8.17E-13	3.80E-11	-26.48000671
chr7	28693064	28693064	-	0	0	-31.73312165
chr7	28693077	28693077	-	0	0	-31.83752418
chr7	28693114	28693114	+	4.76E-06	8.49E-05	-35.39719626
chr7	28693282	28693282	-	4.61E-11	1.78E-09	-38.03986711
chr7	28693287	28693287	-	1.29E-12	5.91E-11	-36.21572906
chr7	28693289	28693289	-	3.06E-10	1.08E-08	-30.7292392
chr7	28732601	28732601	-	0	0	-38.81509086
chr7	28732606	28732606	-	0	0	-27.73853668

chr7	28732621	28732621	-	0	0	-25.15891473
chr7	28832325	28832325	-	3.37E-11	1.32E-09	-31.10923423
chr7	28887556	28887556	+	3.96E-07	8.78E-06	-27.37236033
chr7	28887951	28887951	+	0	0	-25.01432052
chr7	28888000	28888000	-	0	0	-27.07546332
chr7	29013592	29013592	+	0.00028113	0.00306525	-31.81598063
chr7	29043951	29043951	+	0.00079648	0.00732326	-35.62091503
chr7	29135438	29135438	+	0	0	-32.36625514
chr7	29168590	29168590	-	0	0	-32.36920015
chr7	29168623	29168623	+	0	0	-37.80862442
chr7	29168624	29168624	-	0	0	-45.37254902
chr7	29168630	29168630	+	0	0	-38.22893537
chr7	29168631	29168631	-	0	0	-32.14419917
chr7	29172015	29172015	+	6.29E-11	2.40E-09	-26.37550985
chr7	29172207	29172207	-	5.77E-09	1.72E-07	-26.96078431
chr7	29172227	29172227	-	2.46E-08	6.67E-07	-25.90151003
chr7	29172868	29172868	+	0	0	-28.41271652
chr7	29172869	29172869	-	0	0	-26.25226388
chr7	29172898	29172898	+	0	0	-40.83332989
chr7	29172899	29172899	-	0	0	-37.03924945
chr7	29172905	29172905	+	0	0	-38.55659197
chr7	29172906	29172906	-	0	0	-38.14454761
chr7	29172912	29172912	-	0	0	-34.33475756
chr7	29172918	29172918	-	0	0	-31.28777986
chr7	29212632	29212632	+	0	0	-31.07509258
chr7	29212657	29212657	+	0	0	-33.30009473
chr7	29212680	29212680	+	0	0	-32.58985122
chr7	29212730	29212730	-	0	0	-40.04942531
chr7	29212776	29212776	-	0	0	-29.57026794
chr7	29212801	29212801	+	0	0	-29.58249625
chr7	29212919	29212919	+	0	0	-27.26543796
chr7	29212920	29212920	-	0	0	-25.11548227
chr7	29212929	29212929	+	0	0	-27.81906987
chr7	29212932	29212932	+	0	0	-25.86345224
chr7	29212937	29212937	+	0	0	-33.5578015
chr7	29212950	29212950	+	0	0	-29.88785734
chr7	29306630	29306630	-	0.00032707	0.00348248	-38.08933002
chr7	29453648	29453648	+	0	0	-33.41675811
chr7	29453665	29453665	+	0	0	-38.01376859
chr7	29453666	29453666	-	1.38E-09	4.46E-08	-33.892372
chr7	29453714	29453714	-	0	0	-34.34646941

chr7	29792927	29792927	-	4.39E-07	9.65E-06	-34.17989418
chr7	29793216	29793216	+	0	0	-26.49578017
chr7	29965472	29965472	+	0	0	-28.83264568
chr7	29965482	29965482	+	0	0	-25.73369565
chr7	30468088	30468088	+	0.00036108	0.00378569	-31.15003808
chr7	30608968	30608968	-	1.93E-08	5.31E-07	-25.11801242
chr7	30633750	30633750	-	8.98E-05	0.00114893	-25.64102564
chr7	30781603	30781603	-	0	0	-35.95335091
chr7	30781614	30781614	-	0	0	-33.04563466
chr7	30787947	30787947	+	0	0	-27.95045045
chr7	30788013	30788013	-	0	0	-31.30236973
chr7	30855530	30855530	-	4.38E-08	1.14E-06	-50.27777778
chr7	30917000	30917000	-	0	0	-25.38091192
chr7	30972669	30972669	-	1.22E-07	2.95E-06	-32.92046936
chr7	30972842	30972842	-	0	0	-38.08398624
chr7	30972851	30972851	-	0	0	-34.47489426
chr7	30972858	30972858	+	8.62E-14	4.42E-12	-32.05244755
chr7	30972859	30972859	-	0	0	-46.38224394
chr7	30972867	30972867	+	0	0	-36.58209298
chr7	30972966	30972966	-	0	0	-33.68279827
chr7	30972987	30972987	-	0	0	-28.86888229
chr7	30973037	30973037	+	0	0	-33.01560734
chr7	30973045	30973045	+	0	0	-40.12438749
chr7	31009119	31009119	+	6.30E-13	2.97E-11	-25.67102944
chr7	31009143	31009143	+	4.00E-15	2.32E-13	-30.07824816
chr7	31053909	31053909	+	0	0	-35.54130224
chr7	31053949	31053949	+	0	0	-37.96368737
chr7	31054077	31054077	-	3.72E-11	1.45E-09	-29.08896659
chr7	31054144	31054144	+	1.10E-12	5.04E-11	-33.82535351
chr7	31054145	31054145	-	0	0	-29.59990523
chr7	31067644	31067644	+	0.00049462	0.00492964	-26.45320197
chr7	31083353	31083353	+	1.30E-06	2.61E-05	-28.94597458
chr7	31083392	31083392	+	6.83E-07	1.45E-05	-29.8533804
chr7	31114948	31114948	+	0	0	-33.71953271
chr7	31114949	31114949	-	0	0	-35.72296315
chr7	31115146	31115146	-	3.23E-10	1.13E-08	-35.92978123
chr7	31115148	31115148	+	4.68E-10	1.61E-08	-26.38300978
chr7	31115178	31115178	+	0	0	-42.48482058
chr7	31115217	31115217	+	0	0	-47.05701623
chr7	31115218	31115218	-	0	0	-50.60084685
chr7	31115227	31115227	-	0	0	-48.49206588

chr7	31116791	31116791	+	2.82E-05	0.00041691	34.21052632
chr7	33099185	33099185	-	0.00013935	0.00167963	35.75883576
chr7	35116968	35116968	+	0	0	-30.60663707
chr7	35416210	35416210	+	1.48E-07	3.54E-06	-35.24206143
chr7	35583748	35583748	+	0	0	-27.66351236
chr7	35583766	35583766	+	0	0	-25.08971044
chr7	35583767	35583767	-	0	0	-26.1742902
chr7	35687419	35687419	+	0	0	-26.93918928
chr7	36604054	36604054	-	0	0	-34.7885617
chr7	37094764	37094764	-	0.00100197	0.00884556	25.38593482
chr7	37566176	37566176	+	0.00025121	0.00278368	-37.40740741
chr7	37774676	37774676	-	0	0	-32.48559138
chr7	37774715	37774715	+	0	0	-26.79246329
chr7	37774716	37774716	-	0	0	-28.10243408
chr7	37917005	37917005	-	1.93E-05	0.00029803	-31.42028986
chr7	37963334	37963334	-	0	0	-28.87843453
chr7	37963388	37963388	+	0	0	-38.9561825
chr7	37963431	37963431	-	0	0	-35.29340271
chr7	37963440	37963440	-	0	0	-36.49364609
chr7	37963449	37963449	-	0	0	-39.95913221
chr7	38074812	38074812	-	3.89E-15	2.26E-13	-34.9912094
chr7	38174055	38174055	+	0	0	-29.5076088
chr7	38174174	38174174	-	0	0	-28.32688282
chr7	38174198	38174198	+	0	0	-37.81170543
chr7	39696006	39696006	-	3.67E-06	6.73E-05	-32.45239021
chr7	41440572	41440572	-	0.00027735	0.00303012	-33.3976834
chr7	44253561	44253561	-	1.50E-07	3.58E-06	-28.14600018
chr7	44341932	44341932	+	0.00018267	0.00212081	-25.06265664
chr7	44342398	44342398	-	0.00038339	0.00398107	-28.50962578
chr7	44461400	44461400	-	1.97E-11	7.95E-10	-28.2789705
chr7	44525252	44525252	-	0	0	-26.19616533
chr7	44525684	44525684	-	0	0	-26.81095919
chr7	44586516	44586516	+	4.18E-09	1.27E-07	25.58032392
chr7	44630615	44630615	-	1.52E-08	4.25E-07	-33.70915785
chr7	44665089	44665089	+	4.73E-08	1.23E-06	-35.52532124
chr7	44665096	44665096	-	1.88E-05	0.00029057	-26.79045093
chr7	44669345	44669345	+	0	0	-28.25471568
chr7	44669398	44669398	+	0	0	-26.11295198
chr7	44697071	44697071	+	2.54E-13	1.24E-11	-26.30480616
chr7	44701850	44701850	+	0	0	-26.69637221
chr7	44744864	44744864	+	0	0	-26.89826963

chr7	44747888	44747888	+	0	0	-35.02854177
chr7	44747905	44747905	+	0	0	-25.43733278
chr7	44898663	44898663	-	0	0	-32.62204394
chr7	44898673	44898673	-	1.45E-14	8.01E-13	-27.0791745
chr7	44951316	44951316	-	0	0	-25.82532915
chr7	44951601	44951601	-	0.00015701	0.00186194	-33.98196488
chr7	45080549	45080549	-	7.11E-05	0.00093827	-30.16317016
chr7	45083647	45083647	-	0	0	-25.80679964
chr7	45083671	45083671	-	0	0	-31.49468695
chr7	45083688	45083688	-	0	0	-25.52192588
chr7	45083765	45083765	-	0.00010916	0.00135952	-27.28635682
chr7	45083812	45083812	-	1.81E-06	3.53E-05	-31.75890585
chr7	45094041	45094041	-	8.47E-14	4.35E-12	-26.1899785
chr7	45094288	45094288	+	0	0	-38.60188436
chr7	45127071	45127071	+	8.75E-12	3.66E-10	-25.17800109
chr7	45127258	45127258	-	0	0	-38.47892804
chr7	45127272	45127272	-	4.86E-11	1.87E-09	-27.40106079
chr7	45217257	45217257	+	0	0	-25.92592593
chr7	45217258	45217258	-	0	0	-26.28443457
chr7	45235483	45235483	+	0	0	-41.95337302
chr7	45235517	45235517	+	0	0	-42.66927593
chr7	45235533	45235533	+	0	0	-36.80257084
chr7	45235675	45235675	-	1.36E-06	2.72E-05	-29.66666667
chr7	45240734	45240734	+	0	0	-32.52274636
chr7	45240740	45240740	+	0	0	-25.81867332
chr7	45240758	45240758	+	0	0	-40.66176288
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chr7	45240828	45240828	-	0	0	-41.51176666
chr7	45240838	45240838	-	0	0	-40.93062395
chr7	45240882	45240882	+	0	0	-42.10483845
chr7	45240883	45240883	-	0	0	-39.89504119
chr7	45240898	45240898	+	0	0	-36.24515675
chr7	45240899	45240899	-	0	0	-34.26607458
chr7	45240908	45240908	+	0	0	-39.88508683
chr7	45240909	45240909	-	0	0	-35.91390693
chr7	45240930	45240930	+	0	0	-36.21658788
chr7	45240931	45240931	-	0	0	-29.85405516
chr7	45240945	45240945	+	0	0	-32.85328252
chr7	45240946	45240946	-	0	0	-30.44929954
chr7	45240954	45240954	+	0	0	-36.93468795
chr7	45240955	45240955	-	0	0	-36.89587637

chr7	45240961	45240961	+	0	0	-25.98786481
chr7	45240962	45240962	-	0	0	-30.60087596
chr7	45240974	45240974	+	0	0	-28.27158136
chr7	45241045	45241045	-	1.67E-08	4.64E-07	-25.72561286
chr7	45241047	45241047	-	5.30E-10	1.81E-08	-28.21312658
chr7	45241062	45241062	-	4.96E-11	1.91E-09	-29.99707773
chr7	45241084	45241084	+	0	0	-27.42495459
chr7	45241085	45241085	-	0	0	-38.75766318
chr7	45241200	45241200	-	0	0	-31.52848065
chr7	45241204	45241204	+	1.21E-12	5.53E-11	-30.74778761
chr7	45241205	45241205	-	0	0	-28.90483442
chr7	45241221	45241221	+	4.16E-13	1.99E-11	-26.89473684
chr7	45420333	45420333	-	0	0	-32.3667835
chr7	45515358	45515358	+	0	0	-42.63077401
chr7	45515502	45515502	+	0	0	-43.05176896
chr7	45515503	45515503	-	0	0	-44.47606864
chr7	45515505	45515505	+	0	0	-50.0786795
chr7	45515514	45515514	+	0	0	-39.09796191
chr7	45515516	45515516	+	0	0	-42.82055502
chr7	45515526	45515526	+	0	0	-32.77487082
chr7	45515527	45515527	-	0	0	-32.29049608
chr7	45515569	45515569	-	0	0	-47.31082412
chr7	45616896	45616896	+	0	0	-32.89422281
chr7	45616906	45616906	+	0	0	-42.03666175
chr7	45617044	45617044	-	0	0	-32.65075859
chr7	45617384	45617384	+	0	0	-26.33045719
chr7	45627542	45627542	-	0	0	-41.16233512
chr7	45627567	45627567	-	0	0	-30.23911925
chr7	45632692	45632692	+	0	0	-29.64169086
chr7	45632704	45632704	+	0	0	-28.08052552
chr7	45644169	45644169	+	0	0	-34.06323829
chr7	45644215	45644215	+	0	0	-39.71237802
chr7	45644251	45644251	-	0	0	-32.74901566
chr7	45644273	45644273	-	0	0	-38.43198197
chr7	45644278	45644278	-	0	0	-26.33721507
chr7	45786201	45786201	+	1.34E-07	3.24E-06	-42.8544949
chr7	45847647	45847647	+	0	0	-29.52778363
chr7	45847716	45847716	-	2.76E-08	7.41E-07	-31.21027601
chr7	45917979	45917979	+	2.35E-12	1.04E-10	-27.85336357
chr7	45929056	45929056	+	0	0	-31.00378788
chr7	45929057	45929057	-	0	0	-28.54855502

chr7	45929077	45929077	+	0	0	-26.31653615
chr7	45929218	45929218	-	0	0	-29.20104017
chr7	46030239	46030239	+	0	0	-33.35609244
chr7	46030255	46030255	+	0	0	-25.13989895
chr7	46030268	46030268	+	5.55E-16	3.46E-14	-25.07109468
chr7	46030386	46030386	-	1.33E-15	8.06E-14	-25.44430425
chr7	46138563	46138563	-	1.51E-07	3.60E-06	-46.76573427
chr7	46552322	46552322	+	0	0	-30.87115724
chr7	46552327	46552327	+	0	0	-32.38547631
chr7	46559569	46559569	+	0.00054968	0.0053854	43.61851332
chr7	46750599	46750599	+	0	0	-26.46209386
chr7	48897621	48897621	+	0	0	-38.10799292
chr7	48897674	48897674	-	0	0	-34.46686976
chr7	49303559	49303559	-	0	0	-41.30899588
chr7	49303577	49303577	-	0	0	-39.03550236
chr7	49348407	49348407	-	2.22E-09	6.98E-08	-26.84638264
chr7	49348436	49348436	+	1.17E-13	5.92E-12	-26.09950094
chr7	49348437	49348437	-	9.68E-11	3.61E-09	-29.92752712
chr7	49437877	49437877	+	0.00049265	0.0049135	-26.82044324
chr7	49504427	49504427	+	1.07E-13	5.43E-12	-25.7913961
chr7	49640102	49640102	+	5.70E-05	0.00077345	-31.07088989
chr7	49640359	49640359	-	3.56E-07	7.96E-06	-31.64853165
chr7	49696595	49696595	-	1.01E-05	0.00016632	-36.4638448
chr7	49786821	49786821	-	0.00028979	0.00314406	-25.2892337
chr7	50451627	50451627	-	8.62E-07	1.79E-05	-34.88210818
chr7	52835876	52835876	+	0.00064208	0.0061283	-33.53174603
chr7	56294310	56294310	+	6.43E-06	0.00011132	25.53418803
chr7	63940172	63940172	-	7.46E-08	1.87E-06	-27.93394988
chr7	64502889	64502889	+	2.75E-05	0.00040758	-34.28571429
chr7	65470126	65470126	-	1.30E-08	3.67E-07	-27.49987291
chr7	65577398	65577398	-	1.54E-06	3.06E-05	-36.22828784
chr7	65820043	65820043	+	4.76E-05	0.00066132	-26.33016969
chr7	66247427	66247427	+	1.28E-13	6.44E-12	-37.7076553
chr7	66248079	66248079	-	0.00015022	0.00179219	-27.15454983
chr7	67421900	67421900	+	0	0	-36.65295731
chr7	67443449	67443449	+	0	0	-34.35013263
chr7	67443471	67443471	+	0	0	-32.77010708
chr7	67443495	67443495	-	0	0	-38.59061487
chr7	67451725	67451725	-	0	0	-29.26535415
chr7	67451755	67451755	-	0	0	-27.92587555
chr7	67564434	67564434	+	3.67E-05	0.00052568	-27.24505327



chr7	67710352	67710352	+	0	0	-25.15602237
chr7	67710394	67710394	+	0	0	-25.25503946
chr7	67710537	67710537	-	0	0	-25.5452729
chr7	67961411	67961411	-	7.08E-05	0.00093497	-27.82407407
chr7	67964952	67964952	-	0	0	-27.53865907
chr7	67970892	67970892	+	8.44E-09	2.45E-07	-46.90958165
chr7	67970900	67970900	+	1.39E-05	0.00022191	-38.3265857
chr7	68004394	68004394	+	3.32E-06	6.14E-05	-29.23985463
chr7	68264124	68264124	-	3.39E-06	6.25E-05	-27.85031847
chr7	68264144	68264144	+	0	0	-25.54396167
chr7	68264161	68264161	+	0	0	-27.74868106
chr7	68264162	68264162	-	0	0	-25.28696357
chr7	68264170	68264170	-	0	0	-27.16652136
chr7	70361617	70361617	+	7.70E-05	0.00100558	32
chr7	71351513	71351513	-	1.72E-12	7.76E-11	-28.2367909
chr7	71351524	71351524	-	6.66E-16	4.13E-14	-32.56264981
chr7	71380672	71380672	+	3.15E-10	1.11E-08	-25.31380753
chr7	71383670	71383670	+	5.23E-07	1.13E-05	-25.3883211
chr7	73624854	73624854	+	0.00029929	0.00323099	-35.1255887
chr7	75309148	75309148	-	0	0	-29.61751089
chr7	75611839	75611839	+	0	0	-29.14303192
chr7	78672246	78672246	-	0.0003149	0.00337326	-26.25
chr7	79397472	79397472	+	0	0	-28.70147223
chr7	79464870	79464870	-	0	0	-34.71321118
chr7	79464877	79464877	+	0	0	-42.73573728
chr7	79464878	79464878	-	0	0	-39.26053725
chr7	79464896	79464896	+	0	0	-48.34520469
chr7	79464897	79464897	-	0	0	-46.47453938
chr7	79464916	79464916	-	0	0	-27.29724982
chr7	79515744	79515744	+	3.45E-08	9.14E-07	-28.30169078
chr7	79515751	79515751	+	3.25E-10	1.14E-08	-31.78640186
chr7	79515752	79515752	-	1.20E-12	5.50E-11	-33.51340809
chr7	79515788	79515788	-	0	0	-28.31784807
chr7	79515804	79515804	+	0	0	-36.23634688
chr7	79515805	79515805	-	0	0	-29.22277722
chr7	79526079	79526079	+	0	0	-30.80276747
chr7	79549941	79549941	-	0.00021196	0.00240834	-37.5
chr7	79578286	79578286	-	3.27E-09	1.01E-07	-30.92866892
chr7	79578295	79578295	-	6.27E-08	1.59E-06	-30.81745109
chr7	79578466	79578466	+	1.35E-07	3.25E-06	-27.4204848
chr7	79593455	79593455	-	3.29E-06	6.08E-05	-32.32998885

chr7	79710721	79710721	+	0	0	-30.09510282
chr7	79793589	79793589	-	1.33E-15	8.06E-14	-33.7164751
chr7	79793624	79793624	-	4.36E-09	1.32E-07	-25.89776088
chr7	79818480	79818480	-	6.94E-12	2.93E-10	-26.3908008
chr7	79820387	79820387	+	0	0	-35.10957936
chr7	79820397	79820397	+	0	0	-26.76645389
chr7	79820424	79820424	+	0	0	-37.48849406
chr7	79820425	79820425	-	0	0	-43.84298611
chr7	79820444	79820444	-	0	0	-25.28111603
chr7	79820465	79820465	-	0	0	-33.36336175
chr7	79858540	79858540	-	0	0	-27.66103359
chr7	80015574	80015574	-	1.24E-08	3.52E-07	-26.94688824
chr7	80049002	80049002	-	6.69E-08	1.69E-06	-33.84480786
chr7	80057848	80057848	-	0	0	-27.04300894
chr7	80057893	80057893	+	8.54E-10	2.84E-08	-25.3743389
chr7	80068603	80068603	+	0	0	-27.89266659
chr7	80295546	80295546	-	2.43E-05	0.00036525	-31.69129721
chr7	80390937	80390937	+	0	0	-26.21722846
chr7	80390938	80390938	-	0	0	-25.98313165
chr7	80390949	80390949	+	0	0	-25.37451244
chr7	80390950	80390950	-	0	0	-27.71504332
chr7	80438969	80438969	+	4.56E-05	0.00063694	-34.2780027
chr7	80438977	80438977	+	1.03E-05	0.00016974	-47.77327935
chr7	80438997	80438997	+	1.67E-05	0.00026233	-48.04318489
chr7	80555724	80555724	+	4.58E-08	1.19E-06	-26.9840021
chr7	80587522	80587522	+	0.00020167	0.00230791	-27.59864975
chr7	80587533	80587533	+	3.22E-06	5.97E-05	-34.15201956
chr7	80651955	80651955	+	1.59E-07	3.77E-06	-25.92866188
chr7	80820048	80820048	-	3.88E-05	0.00055215	-40.45416316
chr7	80845941	80845941	-	0	0	-39.48041169
chr7	80846238	80846238	+	1.67E-15	9.99E-14	-29.89848789
chr7	80846239	80846239	-	0	0	-30.58153046
chr7	80876084	80876084	-	0	0	-30.48785347
chr7	80876111	80876111	-	8.57E-07	1.79E-05	-34.81481481
chr7	80876154	80876154	-	2.35E-07	5.43E-06	-39.00775194
chr7	80876299	80876299	-	0	0	-26.81130595
chr7	81057501	81057501	+	0	0	-54.94817456
chr7	81057528	81057528	+	0	0	-43.14531549
chr7	81057529	81057529	-	0	0	-50.43673012
chr7	81057562	81057562	-	0	0	-25.44556419
chr7	81057578	81057578	+	0	0	-51.93365609

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chr7	81057580	81057580	+	0	0	-56.41260419
chr7	81057581	81057581	-	0	0	-54.73326569
chr7	81057582	81057582	+	0	0	-64.16057021
chr7	81057583	81057583	-	0	0	-52.28493262
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chr7	81057602	81057602	+	0	0	-60.64312736
chr7	81057603	81057603	-	0	0	-55.73337249
chr7	81057623	81057623	+	0	0	-57.4655898
chr7	81057624	81057624	-	0	0	-50.16290903
chr7	81057637	81057637	+	0	0	-58.95672731
chr7	81057638	81057638	-	0	0	-59.10755967
chr7	81057639	81057639	+	0	0	-36.05314594
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chr7	81057676	81057676	-	0	0	-56.32755676
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chr7	81057713	81057713	-	0	0	-47.61933824
chr7	81057725	81057725	+	0	0	-51.63911033
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chr7	81057755	81057755	+	0	0	-49.40911561
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chr7	81057780	81057780	-	0	0	-41.09246288
chr7	81057829	81057829	+	0	0	-37.35703704
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chr7	81058912	81058912	-	0	0	-28.46209526
chr7	81058926	81058926	+	0	0	-34.14049509
chr7	81058927	81058927	-	0	0	-31.90705979
chr7	81058951	81058951	-	0	0	-33.78378378

chr7	81614440	81614440	+	0.00033507	0.00355483	-27.97744891
chr7	81858545	81858545	-	0	0	-29.88240845
chr7	81858581	81858581	-	0	0	-28.89750926
chr7	82012703	82012703	-	0	0	-27.94879625
chr7	82012705	82012705	+	0	0	-27.58657979
chr7	82012706	82012706	-	0	0	-28.11923432
chr7	82012709	82012709	+	0	0	-33.61866973
chr7	82012710	82012710	-	0	0	-30.94339623
chr7	82012742	82012742	-	1.27E-14	7.01E-13	-25.85435507
chr7	82082981	82082981	+	4.29E-14	2.26E-12	-28.72041096
chr7	82120034	82120034	-	2.35E-07	5.42E-06	-25.4344976
chr7	82174401	82174401	+	0	0	-25.14044156
chr7	82842257	82842257	+	1.11E-16	7.26E-15	-25.9864744
chr7	82868956	82868956	-	0.0005937	0.00574171	-26.76767677
chr7	82868972	82868972	+	8.39E-05	0.00108231	-25.60846561
chr7	82869007	82869007	+	1.21E-05	0.00019583	-26.97642164
chr7	82869139	82869139	-	1.27E-11	5.24E-10	-32.50983478
chr7	82869148	82869148	-	6.73E-08	1.70E-06	-26.28899682
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chr7	82869268	82869268	-	0	0	-33.46785989
chr7	82869732	82869732	+	0	0	-30.30721613
chr7	82869788	82869788	-	0	0	-26.94907508
chr7	82869791	82869791	-	0	0	-30.44574425
chr7	82869800	82869800	+	0	0	-30.79535601
chr7	82869815	82869815	+	0	0	-31.61720782
chr7	82869817	82869817	+	0	0	-28.05887609
chr7	82869827	82869827	+	0	0	-25.59015624
chr7	82869845	82869845	+	0	0	-31.15521451
chr7	82869846	82869846	-	0	0	-36.24554542
chr7	82869852	82869852	-	0	0	-27.60608555
chr7	82869872	82869872	-	0	0	-25.51680414
chr7	82869875	82869875	-	0	0	-25.91863517
chr7	82869877	82869877	-	0	0	-30.34967988
chr7	82869881	82869881	-	0	0	-26.65262248
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chr7	83745911	83745911	-	0.00016977	0.0019912	-40.61784897
chr7	83882937	83882937	-	0	0	-32.94444232
chr7	83882969	83882969	-	1.67E-15	9.99E-14	-30.60011884
chr7	83882971	83882971	-	7.00E-13	3.28E-11	-27.97474271
chr7	83882973	83882973	-	0	0	-40.13019391
chr7	83882987	83882987	-	7.77E-16	4.79E-14	-26.42975207
chr7	83883006	83883006	+	0	0	-31.91026764
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chr7	83883026	83883026	+	0	0	-28.2056611
chr7	83883027	83883027	-	0	0	-28.74582015
chr7	89677563	89677563	+	0	0	-33.09480606
chr7	89677564	89677564	-	0	0	-29.42642618
chr7	89677596	89677596	-	0	0	-30.52702214
chr7	89903672	89903672	-	0.00101839	0.00896407	-43.86206897
chr7	92393167	92393167	-	0	0	-25.30656863
chr7	92393196	92393196	-	0	0	-30.94091679
chr7	96204802	96204802	+	6.30E-05	0.00084424	-28.43137255
chr7	96754508	96754508	-	3.08E-08	8.22E-07	-31.35186961
chr7	96817186	96817186	+	7.58E-11	2.86E-09	-32.57696553
chr7	97329528	97329528	-	4.61E-10	1.58E-08	-31.53439153
chr7	98087969	98087969	-	0.00101644	0.00894972	-26.92307692
chr7	98109275	98109275	-	1.95E-08	5.37E-07	-31.25531714
chr7	98111350	98111350	+	0	0	-25.06383499
chr7	98341994	98341994	-	6.42E-11	2.44E-09	-31.28632145
chr7	98354582	98354582	+	0	0	-32.90246599
chr7	98354708	98354708	-	0	0	-40.19291332
chr7	98354721	98354721	-	0	0	-33.66512108
chr7	98483060	98483060	+	0	0	-27.04429504
chr7	98483555	98483555	+	0	0	-25.40558153
chr7	98486562	98486562	-	0	0	-26.18370818
chr7	98499938	98499938	-	1.84E-07	4.34E-06	-26.33406799
chr7	98572346	98572346	+	0.0001503	0.00179293	-26.8442623
chr7	98572540	98572540	-	1.82E-11	7.37E-10	-38.30227743
chr7	98572542	98572542	-	1.09E-14	6.06E-13	-40.21428571
chr7	98572590	98572590	-	2.85E-11	1.13E-09	-34.35734463
chr7	98573571	98573571	-	0	0	-28.12099154
chr7	98692956	98692956	-	0	0	-40.39501591
chr7	98839896	98839896	+	0	0	-26.01727289
chr7	98857165	98857165	-	3.01E-08	8.04E-07	-28.5326004
chr7	98870933	98870933	+	0	0	-38.79150217
chr7	98871005	98871005	-	0	0	-32.42119727

chr7	98871035	98871035	-	0	0	-31.96877497
chr7	98892585	98892585	+	0	0	-36.88147217
chr7	99061980	99061980	+	0	0	-32.43094902
chr7	99062005	99062005	+	0	0	-33.87406245
chr7	99062006	99062006	-	0	0	-26.86955313
chr7	99062022	99062022	-	0	0	-27.48760201
chr7	99074130	99074130	+	0	0	-28.62999115
chr7	99074176	99074176	+	0	0	-28.05795112
chr7	99155831	99155831	-	1.68E-07	3.99E-06	-30.67692308
chr7	99156114	99156114	+	0	0	-26.91651233
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chr7	99156136	99156136	+	0	0	-40.73377309
chr7	99156137	99156137	-	0	0	-32.666098
chr7	99329094	99329094	+	6.73E-11	2.55E-09	-47.76119403
chr7	99351625	99351625	-	0	0	-32.25957049
chr7	99351927	99351927	+	1.80E-11	7.28E-10	-30.27102006
chr7	99351931	99351931	+	3.57E-10	1.24E-08	-32.74410774
chr7	99351932	99351932	-	4.50E-12	1.94E-10	-40.97792374
chr7	99351955	99351955	+	0	0	-34.03072743
chr7	99351956	99351956	-	1.90E-08	5.24E-07	-35.78673924
chr7	99352020	99352020	-	0	0	-30.31769769
chr7	99352046	99352046	-	0	0	-33.33046962
chr7	99355674	99355674	-	5.47E-08	1.40E-06	-30.51807601
chr7	99355715	99355715	+	0.00038812	0.00402176	-31.77419355
chr7	99387658	99387658	+	2.14E-08	5.86E-07	-30.21477976
chr7	99387659	99387659	-	5.47E-13	2.59E-11	-31.87930393
chr7	99387827	99387827	-	0	0	-32.5248132
chr7	99458531	99458531	-	2.55E-15	1.51E-13	-39.31623932
chr7	99510327	99510327	-	0	0	-29.08047398
chr7	99548217	99548217	+	0	0	-26.90691158
chr7	99548368	99548368	-	5.82E-13	2.75E-11	-42.24242424
chr7	99563460	99563460	+	5.56E-14	2.90E-12	-27.57938358
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chr7	100658364	100658364	+	0	0	-25.41324222
chr7	100658423	100658423	-	0	0	-25.66269411
chr7	100679067	100679067	+	5.16E-05	0.00070857	-40
chr7	100894230	100894230	+	0	0	-25.38519906
chr7	100916881	100916881	-	0	0	-27.70542215
chr7	100927715	100927715	+	0	0	-30.01293347
chr7	100927876	100927876	-	7.77E-16	4.79E-14	-25.36426012
chr7	100930880	100930880	+	1.84E-05	0.00028535	-26.0002306

chr7	100943953	100943953	+	0	0	-26.84273076
chr7	100961420	100961420	-	0	0	-26.89121105
chr7	100964059	100964059	+	0	0	-36.40831985
chr7	100964163	100964163	+	1.47E-05	0.00023396	-35.19736842
chr7	100964164	100964164	-	3.46E-12	1.51E-10	-28.52041261
chr7	100974077	100974077	+	8.01E-09	2.33E-07	-30.92899914
chr7	101003708	101003708	-	5.82E-12	2.48E-10	-36.78015398
chr7	101003746	101003746	-	4.10E-14	2.16E-12	-37.97269542
chr7	101061345	101061345	+	6.36E-07	1.36E-05	-34.98470948
chr7	101061357	101061357	+	7.54E-05	0.000987	-28.30188679
chr7	101061373	101061373	+	3.30E-05	0.00047852	-29.58401408
chr7	101061381	101061381	+	0.000234	0.00262014	-26.61085743
chr7	101061391	101061391	+	6.40E-05	0.00085578	-26.41699133
chr7	101063576	101063576	+	3.33E-16	2.11E-14	-27.97791964
chr7	101354381	101354381	-	6.85E-10	2.30E-08	-42.24089636
chr7	101354410	101354410	+	0	0	-29.69485808
chr7	101354411	101354411	-	3.83E-09	1.17E-07	-39.28571429
chr7	101461936	101461936	+	1.67E-15	9.99E-14	-34.19240606
chr7	101461940	101461940	+	0	0	-36.18349715
chr7	101461956	101461956	+	1.11E-16	7.26E-15	-31.03291476
chr7	101461960	101461960	+	0	0	-38.96986166
chr7	101462075	101462075	-	0	0	-46.52534554
chr7	101465593	101465593	+	0	0	-41.58893331
chr7	101465594	101465594	-	0	0	-47.19220775
chr7	101465599	101465599	+	0	0	-39.66611505
chr7	101465600	101465600	-	0	0	-41.55141779
chr7	101465635	101465635	-	0	0	-34.16136881
chr7	101624612	101624612	+	1.14E-13	5.79E-12	-27.06140351
chr7	101838720	101838720	+	3.50E-09	1.07E-07	-31.66320975
chr7	102102845	102102845	+	3.97E-06	7.21E-05	-40.95238095
chr7	102106941	102106941	+	3.83E-10	1.33E-08	-27.08186226
chr7	102106957	102106957	+	5.77E-15	3.30E-13	-35.12043512
chr7	105685777	105685777	-	0	0	-25.15961004
chr7	105685786	105685786	-	0	0	-25.67777981
chr7	105762144	105762144	-	2.08E-06	4.02E-05	-27.80973558
chr7	105777804	105777804	+	0	0	-26.55295833
chr7	105777851	105777851	+	5.55E-16	3.46E-14	-26.06516291
chr7	105787215	105787215	+	0	0	-28.9452176
chr7	105787216	105787216	-	0	0	-28.53507822
chr7	109241821	109241821	-	1.41E-05	0.00022512	-27.89096126
chr7	109493801	109493801	-	1.44E-14	7.95E-13	-35.81187843

chr7	109493823	109493823	+	0	0	-28.15517968
chr7	109493824	109493824	-	1.96E-09	6.21E-08	-28.03267372
chr7	109493869	109493869	+	0	0	-32.34072513
chr7	109507449	109507449	-	0	0	-27.6002456
chr7	110003159	110003159	+	0	0	-26.1134151
chr7	110003200	110003200	+	0	0	-28.76663674
chr7	110003201	110003201	-	0	0	-30.6665617
chr7	110003213	110003213	+	0	0	-25.10387253
chr7	110003214	110003214	-	0	0	-28.42380574
chr7	110003238	110003238	-	5.00E-15	2.88E-13	-25.54985977
chr7	110003249	110003249	+	0	0	-33.87604167
chr7	110003250	110003250	-	0	0	-27.88719185
chr7	110003266	110003266	+	0	0	-34.68234981
chr7	110003271	110003271	+	0	0	-29.00688377
chr7	110003276	110003276	+	0	0	-32.40312156
chr7	110003288	110003288	+	0	0	-31.2379868
chr7	110003294	110003294	+	0	0	-32.18033031
chr7	110003295	110003295	-	0	0	-37.7207957
chr7	110003306	110003306	-	0	0	-32.23004188
chr7	110003340	110003340	-	0	0	-28.26688395
chr7	110297189	110297189	+	0	0	-31.21467589
chr7	110297190	110297190	-	9.42E-08	2.33E-06	-26.54320988
chr7	110297216	110297216	+	0	0	-41.35305878
chr7	110297336	110297336	-	0	0	-39.16031004
chr7	110297356	110297356	+	0	0	-33.89406497
chr7	110297397	110297397	-	1.11E-16	7.26E-15	-26.11616931
chr7	110297399	110297399	+	0	0	-32.39873052
chr7	110297416	110297416	+	0	0	-38.20036071
chr7	110768017	110768017	+	0	0	-30.65613537
chr7	110768020	110768020	+	0	0	-25.98664393
chr7	110768155	110768155	+	5.68E-10	1.93E-08	-32.0910578
chr7	111016829	111016829	+	6.28E-07	1.34E-05	-29.11507098
chr7	111016867	111016867	+	3.57E-08	9.45E-07	-42.74891775
chr7	112158016	112158016	+	9.77E-15	5.47E-13	-26.70609528
chr7	112159103	112159103	-	0	0	-31.96884205
chr7	112226653	112226653	-	1.11E-16	7.26E-15	-26.31024228
chr7	112502294	112502294	+	0	0	-27.40023119
chr7	112985482	112985482	-	0	0	-31.72700362
chr7	113066635	113066635	-	0	0	-27.05626236
chr7	114004428	114004428	+	6.65E-14	3.45E-12	-25.03913043
chr7	115233747	115233747	+	0	0	-40.75963252



chr7	115233913	115233913	-	2.05E-10	7.35E-09	-25.10487916
chr7	115450752	115450752	-	0	0	-28.21186743
chr7	115453587	115453587	+	0	0	-26.9602627
chr7	115453594	115453594	+	0	0	-29.93473567
chr7	115453619	115453619	+	0	0	-26.45400812
chr7	115453627	115453627	-	0	0	-26.14026182
chr7	115453653	115453653	-	0	0	-26.25646941
chr7	115893959	115893959	+	0	0	-37.45577701
chr7	115893960	115893960	-	0	0	-32.39322112
chr7	115893967	115893967	+	0	0	-37.45726704
chr7	115893968	115893968	-	0	0	-33.13365957
chr7	115893983	115893983	-	0	0	-31.19642666
chr7	116030702	116030702	+	3.33E-16	2.11E-14	-30.63987145
chr7	116030911	116030911	-	0	0	-39.49608611
chr7	116030923	116030923	-	0	0	-39.42070355
chr7	116030937	116030937	-	0	0	-57.11009174
chr7	116031161	116031161	-	9.44E-06	0.00015726	-40
chr7	116031179	116031179	-	9.78E-05	0.00123721	-26.26086957
chr7	116225959	116225959	-	1.55E-09	4.99E-08	-33.6576467
chr7	116241196	116241196	-	0	0	-34.94385232
chr7	116241254	116241254	+	0	0	-26.79425837
chr7	117421066	117421066	-	0	0	-29.41632579
chr7	117553283	117553283	+	0	0	-26.26884946
chr7	118490902	118490902	+	1.14E-08	3.24E-07	-30.73220339
chr7	118490925	118490925	+	1.48E-06	2.94E-05	-26.12483834
chr7	118490926	118490926	-	1.04E-06	2.12E-05	-25.6894307
chr7	118490931	118490931	+	1.11E-16	7.26E-15	-40.33433742
chr7	118490932	118490932	-	2.78E-12	1.23E-10	-36.6674624
chr7	118490961	118490961	+	0	0	-37.55200173
chr7	118490962	118490962	-	1.15E-08	3.27E-07	-28.2462517
chr7	118490996	118490996	+	4.24E-11	1.65E-09	-28.54236725
chr7	118490999	118490999	+	0	0	-52.70611168
chr7	118491006	118491006	+	1.44E-15	8.70E-14	-32.80933285
chr7	118595597	118595597	+	0	0	-32.00123237
chr7	118849069	118849069	-	2.56E-06	4.85E-05	-27.07749767
chr7	118849075	118849075	-	1.33E-05	0.00021365	-25.88427724
chr7	119023461	119023461	-	0.00029857	0.0032246	-35.1010101
chr7	119023466	119023466	-	0.00013047	0.0015868	-37.17105263
chr7	121074472	121074472	-	3.33E-16	2.11E-14	-41.39097744
chr7	122290232	122290232	+	0	0	-29.11753428
chr7	122290233	122290233	-	0	0	-29.13768746

chr7	122290239	122290239	+	0	0	-28.29868249
chr7	122290240	122290240	-	0	0	-29.19108327
chr7	122290253	122290253	+	0	0	-29.28404662
chr7	122820834	122820834	-	1.60E-06	3.15E-05	-31.26489615
chr7	123046817	123046817	-	7.58E-05	0.00099149	-30.14048531
chr7	123117043	123117043	-	0	0	-25.94218465
chr7	124993649	124993649	+	7.91E-07	1.66E-05	-28.26086957
chr7	125471052	125471052	-	0.0002479	0.00275267	-40
chr7	126273869	126273869	+	0	0	-36.17117117
chr7	126586987	126586987	-	1.82E-05	0.00028184	-35.40229885
chr7	126701647	126701647	+	0.00011246	0.00139475	-26.23626374
chr7	126701673	126701673	+	2.27E-06	4.34E-05	-43.12428078
chr7	126763174	126763174	+	4.30E-12	1.86E-10	-32.90182005
chr7	126763175	126763175	-	0	0	-38.64084247
chr7	126763215	126763215	+	3.33E-16	2.11E-14	-38.57368006
chr7	126781466	126781466	-	1.78E-15	1.06E-13	-27.48808523
chr7	126804414	126804414	-	0	0	-27.81912289
chr7	126808165	126808165	-	0.00050962	0.00505502	-36.42533937
chr7	126830060	126830060	-	3.39E-05	0.00049032	-31.95238095
chr7	127121146	127121146	-	2.63E-10	9.32E-09	-34.68224702
chr7	127121178	127121178	+	0	0	-26.263232
chr7	127121188	127121188	+	0	0	-30.69334153
chr7	127121208	127121208	+	0	0	-33.60881543
chr7	127121298	127121298	-	0	0	-42.20404102
chr7	127215007	127215007	-	0	0	-29.64016376
chr7	127363881	127363881	-	0	0	-25.41116901
chr7	127363905	127363905	+	0	0	-31.78694158
chr7	127363935	127363935	+	0	0	-34.94363249
chr7	127542669	127542669	+	0.00064583	0.00615808	26.92307692
chr7	127691786	127691786	-	8.77E-15	4.93E-13	-25.49019608
chr7	127821583	127821583	-	3.91E-12	1.70E-10	-30.13415893
chr7	127932986	127932986	-	2.59E-08	7.00E-07	-28.83760684
chr7	127933456	127933456	+	2.46E-05	0.00036915	-28.96916705
chr7	127944688	127944688	-	9.71E-12	4.05E-10	-31.95622435
chr7	127944694	127944694	-	2.10E-09	6.63E-08	-29.70588235
chr7	127944704	127944704	-	1.21E-10	4.46E-09	-27.7124183
chr7	127944725	127944725	-	2.76E-13	1.35E-11	-32.52688172
chr7	127944728	127944728	+	0	0	-25.78146705
chr7	127944754	127944754	+	0	0	-30.68117494
chr7	127944764	127944764	+	0	0	-33.22798577
chr7	127944765	127944765	-	0	0	-39.53895371

chr7	127944784	127944784	-	0	0	-38.98426864
chr7	127944811	127944811	+	0	0	-28.61655459
chr7	127944812	127944812	-	0	0	-25.32979866
chr7	127944836	127944836	+	0	0	-31.78665861
chr7	127944844	127944844	+	0	0	-37.21542199
chr7	127944861	127944861	+	0	0	-29.76260582
chr7	127944902	127944902	-	0	0	-31.95577441
chr7	128004248	128004248	+	3.44E-05	0.00049622	-28.10659187
chr7	128004546	128004546	+	0	0	-26.96997911
chr7	128004552	128004552	-	0	0	-27.59493671
chr7	128004561	128004561	-	0	0	-27.40268945
chr7	128004601	128004601	+	1.96E-08	5.40E-07	-35.35117057
chr7	128004623	128004623	+	5.02E-08	1.30E-06	-28.51280047
chr7	128004627	128004627	+	4.32E-08	1.13E-06	-32.65585304
chr7	128004884	128004884	+	0	0	-35.62425826
chr7	128010138	128010138	+	0	0	-34.65909522
chr7	128010146	128010146	+	0	0	-32.73812558
chr7	128010148	128010148	+	0	0	-28.49780261
chr7	128010210	128010210	-	0	0	-36.18810739
chr7	128010229	128010229	-	0	0	-25.81392323
chr7	128379627	128379627	+	4.74E-06	8.45E-05	-27.46153846
chr7	128379651	128379651	-	6.59E-08	1.67E-06	-26.29784009
chr7	128379656	128379656	-	2.24E-11	8.95E-10	-35.32154186
chr7	128412121	128412121	+	0	0	-26.99937913
chr7	128412131	128412131	+	0	0	-25.17393321
chr7	128412136	128412136	+	0	0	-26.50281198
chr7	128419891	128419891	+	0	0	-31.96267405
chr7	129774693	129774693	+	2.22E-09	6.99E-08	-27.24596391
chr7	130261108	130261108	+	1.15E-06	2.34E-05	-29.08748005
chr7	130369453	130369453	+	2.47E-13	1.21E-11	-28.88075511
chr7	130369476	130369476	+	0	0	-34.29234292
chr7	130835061	130835061	+	0	0	-28.22045967
chr7	130835188	130835188	-	0	0	-37.30569948
chr7	132318365	132318365	+	0	0	-25.44016928
chr7	132459944	132459944	-	6.31E-07	1.35E-05	-28.49509847
chr7	132658328	132658328	+	0	0	-32.74777209
chr7	132658400	132658400	-	0	0	-25.3984754
chr7	132717722	132717722	-	0	0	-32.87584459
chr7	132717761	132717761	-	0	0	-31.08360312
chr7	132754827	132754827	-	0	0	-30.45524718
chr7	133112525	133112525	+	5.93E-13	2.80E-11	-44.375

chr7	133124776	133124776	-	0	0	-46.18734548
chr7	133124778	133124778	-	0	0	-38.61301192
chr7	133124789	133124789	-	0	0	-48.55288602
chr7	133124798	133124798	-	0	0	-28.08264918
chr7	133700193	133700193	+	4.24E-13	2.03E-11	-25.03640492
chr7	133828764	133828764	-	3.94E-05	0.00055938	-27.08333333
chr7	135055115	135055115	-	6.12E-12	2.60E-10	-28.47092662
chr7	135516743	135516743	-	0	0	-26.9790225
chr7	135516770	135516770	-	6.66E-16	4.13E-14	-25.62360863
chr7	135609564	135609564	+	0	0	-46.34558738
chr7	136022906	136022906	+	5.31E-14	2.78E-12	-30.64435564
chr7	136061058	136061058	-	0	0	-32.41605011
chr7	136588666	136588666	+	0	0	-31.57122993
chr7	136588667	136588667	-	1.49E-13	7.48E-12	-31.14702029
chr7	136825882	136825882	+	3.16E-06	5.86E-05	-26.66666667
chr7	136827154	136827154	-	0	0	-25.20090526
chr7	137322394	137322394	+	0	0	-26.473325
chr7	137974190	137974190	-	0.0007849	0.00723521	-30.36053131
chr7	138040858	138040858	-	0.00053215	0.0052417	30
chr7	139234290	139234290	-	0	0	-26.04388715
chr7	139247500	139247500	+	1.22E-15	7.41E-14	-29.19201317
chr7	139247523	139247523	+	0	0	-44.2002109
chr7	139247524	139247524	-	0	0	-44.62017458
chr7	139247531	139247531	-	3.33E-16	2.11E-14	-35.9596194
chr7	139247549	139247549	+	0	0	-39.40540422
chr7	139247550	139247550	-	0	0	-45.17767573
chr7	139247557	139247557	+	0	0	-40.66990816
chr7	139247558	139247558	-	0	0	-43.00414569
chr7	139247561	139247561	+	0	0	-47.38648006
chr7	139247562	139247562	-	0	0	-42.80211208
chr7	139247564	139247564	+	0.00013941	0.0016803	-30.62435501
chr7	139247568	139247568	+	5.03E-06	8.92E-05	-40.28169014
chr7	139247569	139247569	-	4.90E-05	0.0006783	-51.04651163
chr7	139247571	139247571	+	1.49E-05	0.00023693	-38.39009288
chr7	139247572	139247572	-	2.37E-07	5.47E-06	-63.64468864
chr7	139247604	139247604	+	2.83E-07	6.45E-06	-45.66807855
chr7	139247605	139247605	-	1.17E-11	4.85E-10	-66.37931034
chr7	139247611	139247611	-	1.67E-05	0.00026154	-39.86415883
chr7	139296904	139296904	-	1.07E-07	2.61E-06	-37.38692169
chr7	139296908	139296908	-	1.24E-05	0.00020024	-33.17831517
chr7	139364199	139364199	+	0	0	-26.93708253

chr7	139364330	139364330	-	0	0	-32.85965334
chr7	139364332	139364332	-	0	0	-42.70143246
chr7	139364338	139364338	+	3.00E-08	8.02E-07	-26.17647059
chr7	139364339	139364339	-	0	0	-34.79986197
chr7	139441272	139441272	-	0.00060762	0.00585368	-26.17680827
chr7	139945462	139945462	+	0	0	-33.70314154
chr7	139945672	139945672	+	0	0	-38.23789783
chr7	139945697	139945697	+	0	0	-39.34127191
chr7	139945698	139945698	-	0	0	-37.70852138
chr7	139945999	139945999	-	0.00027134	0.0029738	-28.95167895
chr7	139946018	139946018	-	0.00040636	0.00417917	-28.47058824
chr7	140921886	140921886	+	0	0	-25.15214724
chr7	140956572	140956572	-	0	0	-26.64072892
chr7	141092188	141092188	-	0.0005971	0.00576881	-34.92239468
chr7	141221452	141221452	+	0	0	-32.98783213
chr7	141221453	141221453	-	0	0	-31.37774413
chr7	141339222	141339222	-	0	0	-61.26900198
chr7	141339234	141339234	+	0	0	-30.13764873
chr7	141339271	141339271	+	0	0	-32.68413467
chr7	141339280	141339280	+	0	0	-40.39570327
chr7	141339347	141339347	-	0	0	-26.95423433
chr7	141339351	141339351	-	0	0	-28.24438114
chr7	141339365	141339365	+	0	0	-25.10215841
chr7	141339373	141339373	+	0	0	-32.75008135
chr7	141339392	141339392	+	0	0	-41.17621363
chr7	141339393	141339393	-	0	0	-46.62448228
chr7	141339411	141339411	+	0	0	-30.20289499
chr7	141339412	141339412	-	0	0	-34.87374694
chr7	141339428	141339428	-	0	0	-48.10074965
chr7	141339439	141339439	-	0	0	-40.92375648
chr7	141429255	141429255	+	1.73E-09	5.51E-08	-39.54263566
chr7	141429280	141429280	+	1.94E-11	7.81E-10	-43.14319492
chr7	141429290	141429290	+	2.17E-06	4.18E-05	-30.9982878
chr7	141429296	141429296	+	7.86E-10	2.63E-08	-39.6919692
chr7	141429428	141429428	+	0	0	-26.77947968
chr7	141429432	141429432	+	0	0	-44.81890486
chr7	141429461	141429461	+	0	0	-30.46998861
chr7	141429462	141429462	-	0	0	-30.60382068
chr7	141429473	141429473	+	0	0	-39.01316873
chr7	141429474	141429474	-	0	0	-38.10305484
chr7	141429488	141429488	-	0	0	-40.76671473

chr7	141429577	141429577	-	0	0	-27.68971963
chr7	141454449	141454449	-	9.26E-05	0.00117967	-33.09090909
chr7	141465229	141465229	+	0	0	-33.60791873
chr7	141465234	141465234	+	0	0	-32.31421356
chr7	141465235	141465235	-	0	0	-38.26964682
chr7	141465246	141465246	+	0	0	-34.95494823
chr7	141465247	141465247	-	0	0	-36.04861639
chr7	141465248	141465248	+	0	0	-42.69410276
chr7	141465249	141465249	-	0	0	-41.68983087
chr7	141465274	141465274	-	0	0	-25.95466492
chr7	141482351	141482351	-	0	0	-26.06909552
chr7	141482352	141482352	+	0	0	-28.36683091
chr7	141482353	141482353	-	0	0	-32.22101842
chr7	141482368	141482368	+	0	0	-25.79903747
chr7	141482369	141482369	-	0	0	-31.48613307
chr7	141482417	141482417	+	2.88E-06	5.40E-05	-25.03865581
chr7	141482427	141482427	+	3.19E-08	8.49E-07	-26.81818182
chr7	141482546	141482546	-	2.63E-07	6.03E-06	-34.61746175
chr7	141482597	141482597	+	0	0	-38.53462447
chr7	142082864	142082864	-	6.10E-06	0.00010611	-26.81721948
chr7	142372564	142372564	-	0	0	-25.94478634
chr7	142461891	142461891	-	0	0	-39.58984099
chr7	142461898	142461898	-	0	0	-29.40565352
chr7	142499566	142499566	+	0	0	-25.75845685
chr7	142505202	142505202	-	0	0	-29.59921734
chr7	142542917	142542917	+	0	0	-39.34645613
chr7	142543061	142543061	-	0	0	-32.79593018
chr7	142571641	142571641	+	2.78E-15	1.63E-13	-25.31652361
chr7	142609408	142609408	-	0.00015682	0.00186003	-25.51127637
chr7	142665138	142665138	-	8.51E-05	0.00109621	-30.16260163
chr7	143082135	143082135	+	6.48E-06	0.00011214	-28.69415808
chr7	143154450	143154450	-	0.00035347	0.0037177	-33.91465677
chr7	143154469	143154469	-	0.00096357	0.00856573	-30.66666667
chr7	143154789	143154789	+	0	0	-51.43188854
chr7	143154956	143154956	-	0	0	-25.75615051
chr7	143159330	143159330	+	0	0	-37.16478549
chr7	143366622	143366622	-	1.29E-07	3.12E-06	-27.7129771
chr7	143370523	143370523	-	0	0	-29.52743551
chr7	143373301	143373301	-	0	0	-26.9874161
chr7	143408699	143408699	+	1.11E-16	7.26E-15	-36.94982394
chr7	143437790	143437790	+	0	0	-35.00766504

chr7	143437791	143437791	-	1.17E-09	3.81E-08	-40.55429864
chr7	143437812	143437812	+	0	0	-30.83620772
chr7	143437814	143437814	+	0	0	-30.98945949
chr7	143437815	143437815	-	0	0	-31.9145375
chr7	143437822	143437822	+	0	0	-33.59301172
chr7	143437823	143437823	-	0	0	-32.93367734
chr7	143437835	143437835	+	0	0	-35.50263207
chr7	143437836	143437836	-	0	0	-35.59647794
chr7	143437852	143437852	-	1.08E-07	2.64E-06	-51.70940171
chr7	143437867	143437867	-	0.00029053	0.00315057	-27.66884532
chr7	143438452	143438452	-	0	0	-28.43025796
chr7	143438471	143438471	-	0	0	-35.68242688
chr7	143446322	143446322	-	7.77E-15	4.39E-13	-46.42857143
chr7	144470153	144470153	-	0	0	-27.29956528
chr7	144592036	144592036	+	3.28E-08	8.71E-07	-30.90579405
chr7	144677925	144677925	+	1.91E-11	7.72E-10	-25.26041667
chr7	144839856	144839856	+	0	0	-30.2217886
chr7	144839860	144839860	+	0	0	-32.37519361
chr7	144839861	144839861	-	0	0	-25.71098395
chr7	144932567	144932567	-	0	0	-30.68046572
chr7	144932591	144932591	-	0	0	-27.52086077
chr7	144932599	144932599	-	0	0	-27.02589808
chr7	144934016	144934016	+	0	0	-32.86717466
chr7	144934017	144934017	-	0	0	-38.7867705
chr7	144934049	144934049	+	0	0	-42.30970179
chr7	144934056	144934056	+	2.98E-14	1.59E-12	-28.04646292
chr7	144960649	144960649	-	0	0	-25.11394892
chr7	145206057	145206057	-	7.77E-16	4.79E-14	-29.70011078
chr7	145206119	145206119	+	3.92E-09	1.19E-07	-38.45162569
chr7	145206571	145206571	+	1.11E-16	7.26E-15	-35.35664069
chr8	3393140	3393140	-	0	0	-25.16311377
chr8	4205985	4205985	+	0	0	-50.91987922
chr8	4205994	4205994	+	0	0	-46.00188781
chr8	4206028	4206028	+	0	0	-48.48152578
chr8	4206185	4206185	+	1.11E-16	7.26E-15	-25.63170949
chr8	4206186	4206186	-	7.33E-07	1.55E-05	-30.40365878
chr8	4206206	4206206	+	0	0	-53.54679335
chr8	4206207	4206207	-	0	0	-57.52564103
chr8	4206218	4206218	-	0	0	-44.35067127
chr8	4206226	4206226	+	0	0	-38.63939471
chr8	4206244	4206244	+	0	0	-47.3699506

chr8	4206245	4206245	-	0	0	-48.13206326
chr8	4206269	4206269	+	0	0	-46.98949586
chr8	4206270	4206270	-	0	0	-48.375505
chr8	4206279	4206279	-	0	0	-49.73428667
chr8	4206290	4206290	-	0	0	-43.34299976
chr8	4249361	4249361	+	7.26E-08	1.83E-06	-28.9039039
chr8	4249593	4249593	+	0	0	-25.78252017
chr8	4249622	4249622	+	1.38E-06	2.76E-05	-48.92026578
chr8	8489829	8489829	+	0	0	-43.05207712
chr8	8489847	8489847	+	0	0	-35.31240522
chr8	8489848	8489848	-	0	0	-37.38538501
chr8	8830867	8830867	-	0	0	-29.19663163
chr8	8992045	8992045	+	0	0	-48.46659034
chr8	8992063	8992063	+	0	0	-52.22486525
chr8	8992129	8992129	-	0	0	-33.43441815
chr8	10718391	10718391	+	3.42E-05	0.00049335	-46.04462475
chr8	10854305	10854305	-	0	0	-33.4965725
chr8	10854395	10854395	-	2.07E-06	4.00E-05	-26.79738562
chr8	10854400	10854400	-	5.20E-06	9.19E-05	-25.01298701
chr8	10899994	10899994	-	1.11E-16	7.26E-15	-26.84326711
chr8	10923863	10923863	+	0	0	-27.97143495
chr8	10960597	10960597	-	0	0	-41.55326917
chr8	10961856	10961856	+	1.11E-16	7.26E-15	-26.4822504
chr8	10961877	10961877	+	0	0	-39.65066517
chr8	10961878	10961878	-	1.44E-15	8.70E-14	-36.15565702
chr8	10961880	10961880	+	0	0	-36.62305214
chr8	10961881	10961881	-	2.67E-12	1.18E-10	-31.52255639
chr8	10961891	10961891	-	0	0	-45.3946219
chr8	11005396	11005396	+	0	0	-28.36761171
chr8	11279574	11279574	-	0	0	-32.936786
chr8	11308944	11308944	+	2.83E-10	9.99E-09	-26.41494069
chr8	11394994	11394994	+	0	0	-34.43026927
chr8	11395038	11395038	-	0	0	-35.66031672
chr8	11431706	11431706	+	2.63E-05	0.00039206	-43.75340971
chr8	11479445	11479445	-	2.44E-06	4.64E-05	-25.34722222
chr8	12677491	12677491	+	5.06E-08	1.31E-06	-31.42307692
chr8	12757900	12757900	-	0	0	-25.46295266
chr8	12926192	12926192	+	0	0	-55.9860895
chr8	12926202	12926202	+	0	0	-51.04591837
chr8	12926408	12926408	-	1.11E-05	0.00018125	-26.64229534
chr8	12931774	12931774	+	0	0	-28.9806846



chr8	12931801	12931801	+	1.11E-16	7.26E-15	-28.59412573
chr8	12931802	12931802	-	0	0	-31.76755259
chr8	12931811	12931811	-	7.77E-16	4.79E-14	-26.24233129
chr8	12936011	12936011	+	0.00076815	0.00710737	-28.93145161
chr8	12948566	12948566	-	0	0	-25.85234867
chr8	13195557	13195557	-	0.00024467	0.00272164	-39.50546291
chr8	13199778	13199778	+	2.24E-10	8.01E-09	-27.15924852
chr8	13493224	13493224	+	8.63E-13	4.01E-11	-30.26105874
chr8	13493239	13493239	+	2.33E-15	1.38E-13	-32.5772682
chr8	13519727	13519727	+	0	0	-27.41813087
chr8	13705982	13705982	+	0	0	-25.39298767
chr8	13743175	13743175	-	8.48E-05	0.00109275	-30.43478261
chr8	13748132	13748132	+	2.55E-14	1.38E-12	-37.60602389
chr8	14474767	14474767	-	0.00030975	0.0033263	26.45021645
chr8	15014295	15014295	+	0	0	-29.00848765
chr8	15029128	15029128	-	4.59E-07	1.00E-05	-28.04951238
chr8	15036528	15036528	+	0	0	-25.1372973
chr8	17535307	17535307	+	0.00070865	0.00664827	-25.51834131
chr8	19542083	19542083	+	0.00013999	0.00168639	29.42942943
chr8	20968835	20968835	+	2.86E-07	6.51E-06	45.37480064
chr8	22447207	22447207	-	2.46E-10	8.76E-09	-32.22776074
chr8	22617306	22617306	-	1.89E-13	9.36E-12	-33.76123235
chr8	22617310	22617310	-	8.40E-10	2.80E-08	-26.67309547
chr8	22713782	22713782	+	1.33E-11	5.45E-10	-27.38738739
chr8	22713797	22713797	+	1.11E-14	6.18E-13	-29.16145181
chr8	22713994	22713994	-	9.20E-06	0.00015362	-25.48717949
chr8	22714005	22714005	-	7.92E-07	1.66E-05	-27.71308017
chr8	23035004	23035004	+	8.88E-16	5.45E-14	-30.77969527
chr8	23035042	23035042	+	0	0	-32.35997714
chr8	23399436	23399436	-	9.97E-10	3.29E-08	-30.26470424
chr8	23688713	23688713	+	4.44E-16	2.79E-14	-26.16242637
chr8	24676792	24676792	+	0.00010354	0.0012997	-30.11734029
chr8	25037157	25037157	-	2.50E-10	8.87E-09	-25.87245868
chr8	25043530	25043530	+	1.87E-08	5.15E-07	-25.68645293
chr8	25098297	25098297	+	0	0	-25.50162714
chr8	25103940	25103940	+	0	0	-35.7488484
chr8	25103967	25103967	+	0	0	-34.70967131
chr8	25103968	25103968	-	0	0	-31.84126178
chr8	25104002	25104002	-	0	0	-27.01546001
chr8	25368693	25368693	+	0	0	-43.23436922
chr8	25368699	25368699	+	0	0	-28.1459797

chr8	25368878	25368878	+	0	0	-43.22053126
chr8	25368879	25368879	-	0	0	-48.53611053
chr8	25368961	25368961	-	4.98E-12	2.14E-10	-35.47494947
chr8	25369011	25369011	-	0	0	-52.92849443
chr8	25501835	25501835	-	3.37E-11	1.32E-09	-30.2615193
chr8	25501837	25501837	+	0	0	-30.04734848
chr8	25501838	25501838	-	1.08E-12	4.99E-11	-31.82926829
chr8	25501845	25501845	+	0	0	-30.98444894
chr8	25501950	25501950	-	0	0	-30.1238534
chr8	25514676	25514676	+	0	0	-35.85032569
chr8	25514708	25514708	+	0	0	-34.14106246
chr8	25514709	25514709	-	0	0	-44.45533578
chr8	25514807	25514807	-	0	0	-25.50376487
chr8	25514845	25514845	+	0	0	-27.72221285
chr8	25514846	25514846	-	0	0	-28.47002249
chr8	26103474	26103474	+	0	0	-26.90548765
chr8	26273836	26273836	-	2.05E-08	5.61E-07	-40.88491296
chr8	26507792	26507792	+	3.94E-06	7.15E-05	-26.15705931
chr8	26656879	26656879	+	3.58E-05	0.00051418	-25.47699214
chr8	26673393	26673393	-	0	0	-26.2965086
chr8	26771248	26771248	+	3.40E-06	6.28E-05	-30.89339339
chr8	26960256	26960256	-	0	0	-33.63195835
chr8	26961636	26961636	+	0	0	-26.33716445
chr8	26973674	26973674	-	0	0	-32.61228545
chr8	26979285	26979285	-	0	0	-39.76236875
chr8	26979291	26979291	-	0	0	-34.40353757
chr8	26979294	26979294	-	0	0	-28.3436277
chr8	26979301	26979301	+	0	0	-31.19569425
chr8	26979311	26979311	+	0	0	-28.55178029
chr8	26979362	26979362	+	3.66E-15	2.14E-13	-28.87644111
chr8	26979406	26979406	+	0	0	-47.55566045
chr8	26979488	26979488	-	0	0	-53.29168581
chr8	26979495	26979495	-	0	0	-35.78208129
chr8	26979498	26979498	-	0	0	-41.32485427
chr8	26979522	26979522	-	0	0	-34.55136293
chr8	26979524	26979524	-	0	0	-36.38578381
chr8	26979528	26979528	-	0	0	-38.87010579
chr8	26979533	26979533	-	0	0	-39.63242923
chr8	26979536	26979536	+	0	0	-47.86509453
chr8	26979537	26979537	-	0	0	-42.67430855
chr8	26979577	26979577	+	0	0	-31.15878602

chr8	26979578	26979578	-	0	0	-30.25799346
chr8	26979598	26979598	+	0	0	-43.38748549
chr8	26979599	26979599	-	0	0	-43.42195668
chr8	26979601	26979601	+	0	0	-38.20913438
chr8	26979602	26979602	-	0	0	-41.9759844
chr8	26979614	26979614	+	0	0	-45.5696549
chr8	26979615	26979615	-	0	0	-46.34096034
chr8	26979617	26979617	+	0	0	-47.66581734
chr8	26979618	26979618	-	0	0	-39.91649026
chr8	26979626	26979626	+	0	0	-40.8811442
chr8	26979627	26979627	-	0	0	-38.48128642
chr8	26979634	26979634	+	0	0	-46.06818182
chr8	26979635	26979635	-	0	0	-42.9251037
chr8	26979674	26979674	+	0	0	-53.01298198
chr8	26979679	26979679	+	0	0	-45.17877292
chr8	26979766	26979766	-	0	0	-46.18564044
chr8	26979784	26979784	+	0	0	-51.75179401
chr8	26979785	26979785	-	0	0	-45.99115158
chr8	26979788	26979788	+	0	0	-39.51082085
chr8	26979789	26979789	-	0	0	-37.60064412
chr8	26979806	26979806	+	0	0	-45.12608443
chr8	26979807	26979807	-	0	0	-38.53640526
chr8	26979815	26979815	+	0	0	-49.77930144
chr8	26979816	26979816	-	0	0	-45.87431694
chr8	26979820	26979820	+	0	0	-42.38590951
chr8	26979823	26979823	+	0	0	-42.24917828
chr8	26979839	26979839	+	0	0	-31.00173161
chr8	26979848	26979848	+	0	0	-28.96592826
chr8	26979891	26979891	-	0	0	-43.78845057
chr8	26979908	26979908	+	0	0	-45.6267034
chr8	26979909	26979909	-	0	0	-30.49802882
chr8	26979913	26979913	+	0	0	-42.60717344
chr8	26979924	26979924	+	0	0	-27.84372513
chr8	26980007	26980007	-	0	0	-25.42560798
chr8	26980220	26980220	-	0	0	-36.89205219
chr8	26981348	26981348	+	0	0	-29.32022364
chr8	26981349	26981349	-	0	0	-36.67387237
chr8	27091498	27091498	-	0	0	-31.28329016
chr8	27160178	27160178	-	0	0	-30.53232538
chr8	27252175	27252175	-	0	0	-34.1854197
chr8	27273294	27273294	+	1.88E-11	7.61E-10	-26.09395109

chr8	31169434	31169434	+	8.89E-07	1.85E-05	-27.45106862
chr8	31380886	31380886	-	1.86E-09	5.92E-08	-26.66666667
chr8	33386585	33386585	+	0	0	-27.96463404
chr8	33386591	33386591	+	0	0	-27.21564035
chr8	33386592	33386592	-	0	0	-29.76180252
chr8	33386790	33386790	-	0	0	-25.36206383
chr8	33607193	33607193	+	0	0	-38.95625201
chr8	33607224	33607224	+	0	0	-31.56288342
chr8	33607225	33607225	-	5.55E-15	3.18E-13	-28.51173674
chr8	33607231	33607231	-	0	0	-32.4940239
chr8	33607234	33607234	+	1.39E-10	5.11E-09	-46.46464646
chr8	33607238	33607238	+	3.93E-09	1.19E-07	-46.2594697
chr8	33607242	33607242	+	5.45E-06	9.60E-05	-33.86994949
chr8	33805555	33805555	+	1.73E-09	5.53E-08	-25.30819754
chr8	33805556	33805556	-	0	0	-26.28565602
chr8	33805857	33805857	+	0.00071987	0.00673533	-27.87025181
chr8	33806551	33806551	-	1.73E-05	0.00026962	-38.59543818
chr8	33806560	33806560	-	2.45E-07	5.65E-06	-35.83433373
chr8	33885595	33885595	-	0	0	-29.32031107
chr8	33885629	33885629	+	0	0	-38.58647263
chr8	33914198	33914198	+	5.19E-09	1.55E-07	-29.20650592
chr8	33914199	33914199	-	0	0	-28.73309089
chr8	33914221	33914221	+	2.14E-08	5.84E-07	-25.95874039
chr8	33914222	33914222	-	0	0	-34.6248366
chr8	33914229	33914229	+	2.47E-09	7.73E-08	-32.13448922
chr8	33914230	33914230	-	2.57E-12	1.14E-10	-27.6980711
chr8	33914730	33914730	+	4.80E-10	1.65E-08	-29.79282622
chr8	33914771	33914771	+	0	0	-42.23065706
chr8	33914772	33914772	-	0	0	-36.07053037
chr8	33914801	33914801	-	0	0	-30.66691319
chr8	33916737	33916737	+	5.32E-08	1.37E-06	-33.26741573
chr8	33916769	33916769	+	5.83E-09	1.73E-07	-27.91111111
chr8	33916968	33916968	-	6.28E-05	0.00084231	-29.77006858
chr8	33917213	33917213	-	6.46E-06	0.00011181	-28.43676355
chr8	33917218	33917218	-	1.18E-08	3.36E-07	-32.18325792
chr8	34075037	34075037	-	1.53E-11	6.24E-10	-28.24074074
chr8	34076063	34076063	-	0	0	-25.58120564
chr8	34076285	34076285	-	2.82E-06	5.30E-05	-30.57280883
chr8	34472566	34472566	+	0.00014174	0.00170461	-32.87981859
chr8	34486197	34486197	-	2.84E-14	1.53E-12	-27.48015873
chr8	34676686	34676686	-	4.21E-09	1.27E-07	-30.19899103

chr8	34676696	34676696	+	6.95E-10	2.34E-08	-27.09458331
chr8	34676867	34676867	-	0	0	-28.60803608
chr8	34680025	34680025	+	0	0	-39.21978613
chr8	34680043	34680043	+	0	0	-35.24652645
chr8	34680044	34680044	-	0	0	-30.11204482
chr8	34680046	34680046	+	0	0	-33.15243125
chr8	34680047	34680047	-	0	0	-27.71659485
chr8	34680072	34680072	-	0	0	-31.55184812
chr8	34680078	34680078	+	7.25E-06	0.00012397	-29.12543728
chr8	34680094	34680094	+	7.33E-05	0.00096324	-27.47626187
chr8	34680096	34680096	+	3.43E-08	9.09E-07	-39.00928793
chr8	34703547	34703547	+	8.39E-08	2.09E-06	-40.20002986
chr8	34810085	34810085	+	0	0	-30.44932505
chr8	35357072	35357072	-	0	0	-28.44394985
chr8	35385090	35385090	+	7.73E-05	0.00100791	-30.73245362
chr8	35513128	35513128	-	0.00032606	0.00347362	-27.69272827
chr8	35588772	35588772	+	0	0	-29.92784211
chr8	35589274	35589274	-	0.00019629	0.00225497	-38.31734961
chr8	35589308	35589308	+	0	0	-25.486763
chr8	35589318	35589318	+	0	0	-26.0225111
chr8	36101613	36101613	+	0	0	-25.93333665
chr8	36121832	36121832	+	0	0	-42.67588664
chr8	36121862	36121862	+	0	0	-33.49449138
chr8	36121864	36121864	+	0	0	-42.66459484
chr8	36121881	36121881	+	0	0	-44.79009363
chr8	36122054	36122054	-	2.41E-13	1.18E-11	-39.07842268
chr8	46497090	46497090	-	0.00039746	0.00410297	-34.19715447
chr8	46737652	46737652	+	7.97E-08	1.99E-06	-31.70068027
chr8	46756259	46756259	+	9.99E-07	2.06E-05	-32.97764228
chr8	47008219	47008219	+	7.08E-10	2.38E-08	-49.22863924
chr8	47008345	47008345	-	0	0	-40.64652888
chr8	47008363	47008363	-	1.46E-11	5.96E-10	-29.94805881
chr8	47008375	47008375	-	2.10E-08	5.76E-07	-25.9038259
chr8	47135002	47135002	+	0	0	-33.18685312
chr8	47234703	47234703	-	2.45E-07	5.65E-06	-50.75060533
chr8	47321629	47321629	+	0	0	-27.22015646
chr8	47408768	47408768	+	0	0	-27.11459013
chr8	47408978	47408978	+	0	0	-36.66796419
chr8	47409088	47409088	-	0	0	-26.30129529
chr8	47415136	47415136	-	1.42E-05	0.00022696	-47.85714286
chr8	48560579	48560579	-	5.01E-05	0.00069085	29.62962963

chr8	48729128	48729128	+	4.41E-05	0.00061859	-28.03544495
chr8	50574641	50574641	+	4.11E-05	0.00058126	-30.42986425
chr8	57326149	57326149	+	0	0	-39.04439401
chr8	57326161	57326161	+	2.22E-16	1.43E-14	-27.57822391
chr8	57353348	57353348	-	4.51E-06	8.09E-05	-34.64285714
chr8	57600086	57600086	-	3.14E-08	8.38E-07	-43.53846154
chr8	57600100	57600100	-	3.74E-10	1.30E-08	-43.52173913
chr8	57600105	57600105	-	2.05E-07	4.79E-06	-35.73232323
chr8	57600114	57600114	+	0	0	-33.94591852
chr8	57600118	57600118	+	0	0	-35.73712939
chr8	57600125	57600125	+	0	0	-31.75662498
chr8	57600261	57600261	-	0	0	-33.64718233
chr8	57600270	57600270	-	0	0	-28.26609371
chr8	61226174	61226174	+	1.26E-06	2.54E-05	-31.74530463
chr8	61283786	61283786	-	0	0	-28.92382767
chr8	61283802	61283802	-	0	0	-25.40475819
chr8	61585101	61585101	-	0	0	-26.94091535
chr8	61590110	61590110	+	5.74E-07	1.24E-05	-27.82440714
chr8	64362416	64362416	+	0	0	-35.2575123
chr8	64362422	64362422	+	0	0	-32.20775131
chr8	64362445	64362445	+	0	0	-30.43961578
chr8	64921982	64921982	-	5.61E-07	1.21E-05	-32.27856481
chr8	64942558	64942558	+	1.11E-16	7.26E-15	-25.06045488
chr8	64942590	64942590	+	1.67E-15	9.99E-14	-26.0242416
chr8	67974575	67974575	+	0	0	-30.75828275
chr8	67974596	67974596	+	0	0	-25.33473132
chr8	67974684	67974684	-	0	0	-33.4288188
chr8	67974694	67974694	-	0	0	-31.38522378
chr8	68276928	68276928	+	1.31E-11	5.37E-10	-25.99925009
chr8	68368503	68368503	+	8.55E-15	4.81E-13	-33.79765215
chr8	69122838	69122838	+	0	0	-30.51291376
chr8	69122881	69122881	+	0	0	-34.65044309
chr8	69122882	69122882	-	0	0	-31.28176558
chr8	69880848	69880848	-	0.00047258	0.00474437	26.31118881
chr8	69883096	69883096	+	0	0	-27.52
chr8	69884378	69884378	-	0.00066949	0.00634502	-26.36363636
chr8	70079477	70079477	-	1.47E-06	2.93E-05	-25.00992808
chr8	70112851	70112851	-	0.00019223	0.00221505	27.55731922
chr8	70150473	70150473	+	0	0	-31.11325114
chr8	70150481	70150481	+	0	0	-31.95661243
chr8	70150482	70150482	-	0	0	-34.20872596

chr8	70150490	70150490	+	0	0	-26.18163878
chr8	70150491	70150491	-	0	0	-29.29289555
chr8	70165822	70165822	+	0.00012153	0.001492	-35.66997519
chr8	70166181	70166181	+	0	0	-25.79120712
chr8	70166182	70166182	-	0	0	-25.80283139
chr8	70166191	70166191	+	0	0	-25.39836469
chr8	70316311	70316311	+	5.83E-13	2.75E-11	-26.9966318
chr8	70330919	70330919	-	0.00110516	0.00958095	-25.36585366
chr8	70332180	70332180	+	0	0	-37.08989805
chr8	70332189	70332189	+	0	0	-53.14685315
chr8	70332190	70332190	-	0	0	-50.21472027
chr8	70332208	70332208	-	0	0	-51.2865807
chr8	70332214	70332214	-	0	0	-35.43523436
chr8	70332217	70332217	-	0	0	-50.05911017
chr8	70332225	70332225	-	0	0	-48.97668255
chr8	70337119	70337119	-	2.54E-05	0.00037981	-32.08807521
chr8	70487366	70487366	+	6.54E-13	3.08E-11	-33.56203958
chr8	70487376	70487376	+	2.60E-11	1.03E-09	-41.49287322
chr8	70487418	70487418	-	0	0	-26.11742278
chr8	70487423	70487423	-	0	0	-27.20635187
chr8	70487443	70487443	+	1.11E-12	5.09E-11	-26.98393795
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chr8	70487447	70487447	+	0	0	-34.56554195
chr8	70487448	70487448	-	0	0	-29.9744898
chr8	70487476	70487476	-	4.69E-13	2.24E-11	-30.88930348
chr8	70488072	70488072	+	0	0	-25.49261867
chr8	70488073	70488073	-	0	0	-27.11989002
chr8	70488074	70488074	+	0	0	-30.90644336
chr8	70488075	70488075	-	0	0	-32.85971416
chr8	70505894	70505894	-	0	0	-26.51635323
chr8	70505908	70505908	-	0	0	-29.47887758
chr8	70593811	70593811	+	2.41E-06	4.59E-05	-29.45121951
chr8	70596852	70596852	-	0	0	-27.96373664
chr8	70597880	70597880	+	0	0	-30.68487181
chr8	70598454	70598454	+	0	0	-46.5116731
chr8	70598474	70598474	+	0	0	-45.17640877
chr8	70598475	70598475	-	0	0	-26.50033003
chr8	70598489	70598489	+	0	0	-49.05405405
chr8	70598490	70598490	-	0	0	-33.00990099
chr8	70598495	70598495	+	0	0	-47.88323347
chr8	70598502	70598502	+	0	0	-46.033759

chr8	70598514	70598514	+	0	0	-43.51873191
chr8	70598524	70598524	+	0	0	-50.31385603
chr8	70598548	70598548	+	0	0	-51.29035668
chr8	70598549	70598549	-	0	0	-53.10608415
chr8	70598554	70598554	+	0	0	-54.43098491
chr8	70598555	70598555	-	0	0	-56.26933354
chr8	70598571	70598571	-	0	0	-50.04981703
chr8	70598597	70598597	+	0	0	-45.01023245
chr8	70598598	70598598	-	0	0	-50.8443221
chr8	70598608	70598608	+	0	0	-46.62508663
chr8	70598609	70598609	-	0	0	-50.06177415
chr8	70598612	70598612	+	0	0	-42.88429027
chr8	70598613	70598613	-	0	0	-49.15797317
chr8	70598621	70598621	+	0	0	-47.3787341
chr8	70598622	70598622	-	0	0	-49.54166667
chr8	70598635	70598635	+	0	0	-47.15439883
chr8	70598636	70598636	-	0	0	-47.49634894
chr8	70598644	70598644	+	0	0	-46.29545357
chr8	70598645	70598645	-	0	0	-49.92122622
chr8	70598649	70598649	+	0	0	-52.09849874
chr8	70598650	70598650	-	0	0	-50.21478782
chr8	70598653	70598653	+	0	0	-42.71418795
chr8	70598654	70598654	-	0	0	-42.89023521
chr8	70598660	70598660	+	0	0	-40.02246939
chr8	70598661	70598661	-	0	0	-37.22913538
chr8	70598671	70598671	+	0	0	-34.51910408
chr8	70598672	70598672	-	0	0	-27.48384439
chr8	70598688	70598688	+	2.95E-14	1.58E-12	-30.46991656
chr8	70598689	70598689	-	0	0	-34.50899032
chr8	70598694	70598694	-	1.22E-15	7.41E-14	-29.92900226
chr8	70598701	70598701	+	2.00E-14	1.09E-12	-25.21210407
chr8	70598797	70598797	-	0	0	-27.23573826
chr8	70598825	70598825	-	3.00E-15	1.76E-13	-29.43979933
chr8	70617975	70617975	+	0	0	-33.45601251
chr8	70629537	70629537	+	0.00071086	0.00666518	-27.48251748
chr8	70629548	70629548	+	1.06E-05	0.00017424	-36.60839161
chr8	70629549	70629549	-	8.88E-08	2.20E-06	-37.60801257
chr8	70691721	70691721	-	0	0	-36.62815017
chr8	70691734	70691734	-	0	0	-26.96596115
chr8	70692370	70692370	-	0	0	-26.62941432
chr8	70694075	70694075	-	1.59E-05	0.00025004	-28.30409357



chr8	70722720	70722720	+	4.07E-07	9.00E-06	-37.23484848
chr8	70745301	70745301	+	2.39E-11	9.54E-10	-28.74606438
chr8	70745319	70745319	+	9.61E-13	4.44E-11	-32.06322688
chr8	70753647	70753647	+	1.49E-11	6.07E-10	-29.1310663
chr8	70796822	70796822	-	0	0	-25.60334528
chr8	70803747	70803747	+	9.55E-14	4.87E-12	-31.42562584
chr8	70816875	70816875	-	9.45E-08	2.33E-06	-40.75581395
chr8	70816888	70816888	-	0.00014207	0.001708	-28.36206897
chr8	70816894	70816894	+	0	0	-39.85493884
chr8	70816895	70816895	-	1.09E-07	2.66E-06	-40.08136925
chr8	70816904	70816904	+	0	0	-40.24767114
chr8	70816905	70816905	-	0	0	-36.76333225
chr8	70816909	70816909	+	0	0	-35.196425
chr8	70816910	70816910	-	0	0	-45.47872913
chr8	70816914	70816914	+	0	0	-39.83318505
chr8	70816915	70816915	-	0	0	-41.70816194
chr8	70816930	70816930	+	0	0	-41.93362159
chr8	70816938	70816938	+	0	0	-35.91744513
chr8	70816939	70816939	-	0	0	-34.07865791
chr8	70816945	70816945	+	0	0	-37.40392036
chr8	70816946	70816946	-	0	0	-36.09717505
chr8	70816956	70816956	+	0	0	-31.00046653
chr8	70816957	70816957	-	0	0	-31.11253086
chr8	70816959	70816959	+	0	0	-29.15438283
chr8	70816960	70816960	-	0	0	-27.72727928
chr8	70820414	70820414	+	0	0	-43.23611051
chr8	70820420	70820420	+	0	0	-36.06642615
chr8	70820546	70820546	+	0	0	-37.47132395
chr8	70820547	70820547	-	0	0	-26.67374772
chr8	70820563	70820563	+	0	0	-40.23812287
chr8	70820564	70820564	-	0	0	-37.57487556
chr8	70820580	70820580	+	0	0	-38.84339066
chr8	70820581	70820581	-	0	0	-30.37689682
chr8	70820615	70820615	+	0	0	-32.1931664
chr8	70820809	70820809	-	2.45E-10	8.72E-09	-28.20454024
chr8	70821037	70821037	-	3.33E-16	2.11E-14	-36.38517164
chr8	70869338	70869338	+	0.00011171	0.00138687	-36.52715323
chr8	70869358	70869358	+	1.14E-06	2.33E-05	-45.25862069
chr8	70869366	70869366	+	0.00042087	0.00430385	-33.49152542
chr8	70893069	70893069	-	0.00012481	0.00152661	-25.971815
chr8	70893139	70893139	-	0	0	-32.74314538

chr8	70893176	70893176	+	1.05E-08	3.02E-07	-28.27996118
chr8	70896372	70896372	+	0.0002087	0.00237613	-44.19729207
chr8	71289466	71289466	+	0.00057359	0.00558077	-35.38812785
chr8	71376513	71376513	-	0	0	-25.23207609
chr8	71481084	71481084	+	0	0	-29.83425782
chr8	71525537	71525537	-	0	0	-45.7
chr8	71525542	71525542	-	0	0	-46.65518231
chr8	71525573	71525573	-	0	0	-45.96092155
chr8	71525581	71525581	+	0	0	-57.13329237
chr8	71525582	71525582	-	0	0	-45.83848507
chr8	71525586	71525586	+	0	0	-54.30827068
chr8	71525589	71525589	+	0	0	-36.4904816
chr8	71525595	71525595	+	0	0	-50.06602139
chr8	71525628	71525628	+	0	0	-48.95632627
chr8	71525630	71525630	+	0	0	-26.93613048
chr8	71525650	71525650	-	0	0	-43.10704058
chr8	71525658	71525658	-	0	0	-50.82889809
chr8	71525675	71525675	-	0	0	-25.65926617
chr8	71525684	71525684	-	0	0	-26.6083137
chr8	71525689	71525689	-	0	0	-38.49797663
chr8	71526289	71526289	+	1.71E-10	6.18E-09	-31.33570768
chr8	71596325	71596325	-	2.19E-06	4.21E-05	-28.82262997
chr8	71660416	71660416	+	0	0	-25.08456361
chr8	71689982	71689982	+	0	0	-47.23213274
chr8	71690106	71690106	-	0	0	-36.98233826
chr8	71690135	71690135	-	0	0	-46.0331299
chr8	71700477	71700477	-	0	0	-31.67765071
chr8	71700521	71700521	+	0	0	-33.57782814
chr8	71700522	71700522	-	0	0	-25.88252799
chr8	71700530	71700530	+	0	0	-31.09762108
chr8	71700554	71700554	+	0	0	-26.70256573
chr8	71700567	71700567	+	0	0	-37.76973155
chr8	71700568	71700568	-	0	0	-37.26977958
chr8	71700611	71700611	+	0	0	-35.62163314
chr8	71700635	71700635	+	0	0	-42.35923579
chr8	71700737	71700737	-	0	0	-50.005215
chr8	71700768	71700768	+	3.75E-05	0.00053564	-25.79899884
chr8	71709784	71709784	-	7.91E-13	3.69E-11	-34.54426942
chr8	71709806	71709806	-	8.84E-09	2.56E-07	-27.3698702
chr8	71709817	71709817	-	1.72E-08	4.77E-07	-26.23784262
chr8	71709821	71709821	-	1.89E-15	1.13E-13	-35.93411744

chr8	71742098	71742098	-	1.10E-07	2.68E-06	-25.37037037
chr8	72134878	72134878	+	0.00029477	0.00318929	-25.28237952
chr8	72271269	72271269	+	0	0	-54.93258118
chr8	72271308	72271308	+	0	0	-45.21084648
chr8	72271376	72271376	-	0	0	-50.14182463
chr8	72320223	72320223	-	3.41E-08	9.04E-07	-31.74641148
chr8	72320231	72320231	-	9.09E-09	2.63E-07	-30.97819612
chr8	72320249	72320249	-	2.41E-09	7.55E-08	-35.05717256
chr8	72320677	72320677	+	0	0	-27.02234813
chr8	72741636	72741636	-	8.72E-13	4.05E-11	-29.06483202
chr8	73352316	73352316	-	3.40E-06	6.27E-05	-26.70807453
chr8	73667690	73667690	+	0	0	-28.40519778
chr8	75223582	75223582	-	0.00063844	0.00609932	-26.36363636
chr8	77609908	77609908	-	1.31E-06	2.64E-05	-27.81271053
chr8	78097113	78097113	+	2.03E-10	7.28E-09	-53.76940133
chr8	78097114	78097114	-	0	0	-25.4345182
chr8	78097124	78097124	+	3.29E-05	0.00047697	-35.56818182
chr8	78097375	78097375	-	0.00026284	0.00289438	-25.95427964
chr8	78097401	78097401	-	0.00014702	0.00175956	-25.91431557
chr8	79382872	79382872	-	0	0	-25.8426312
chr8	79382910	79382910	+	0	0	-33.69754841
chr8	79382984	79382984	-	0	0	-39.66160702
chr8	80055895	80055895	-	4.79E-06	8.54E-05	-37.26415094
chr8	80314480	80314480	+	0	0	-36.86114841
chr8	80314481	80314481	-	0	0	-29.86604361
chr8	80921794	80921794	-	1.11E-16	7.26E-15	-27.17775083
chr8	83390560	83390560	-	9.96E-10	3.29E-08	-25.69751866
chr8	83570884	83570884	-	0	0	-27.24068389
chr8	83574777	83574777	+	0.00017798	0.00207378	-28.35526316
chr8	83660942	83660942	+	1.11E-15	6.76E-14	-25.959761
chr8	83661028	83661028	-	0	0	-30.25364224
chr8	83661062	83661062	+	0	0	-26.36640515
chr8	83661166	83661166	+	8.42E-13	3.91E-11	-32.13804714
chr8	83661358	83661358	-	0	0	-38.62217575
chr8	83661372	83661372	-	0	0	-45.74060244
chr8	83661388	83661388	-	4.44E-16	2.79E-14	-33.17454387
chr8	83661397	83661397	-	2.18E-10	7.81E-09	-26.47949527
chr8	83669233	83669233	+	7.81E-10	2.61E-08	-67.11229947
chr8	83721823	83721823	+	0	0	-32.51805913
chr8	83721866	83721866	+	0	0	-30.52280218
chr8	83741628	83741628	+	0	0	-31.71450873

chr8	83741706	83741706	+	1.14E-13	5.77E-12	-29.18440676
chr8	83901509	83901509	-	0	0	-26.76143943
chr8	83901809	83901809	+	2.66E-07	6.09E-06	-44.36821041
chr8	83916199	83916199	+	0	0	-32.9529031
chr8	83916272	83916272	-	0	0	-31.6966456
chr8	84012846	84012846	-	0	0	-34.28118623
chr8	84012972	84012972	+	0	0	-26.76251717
chr8	84012985	84012985	+	0	0	-36.48381085
chr8	84013055	84013055	-	0	0	-35.98204286
chr8	84013073	84013073	-	0	0	-29.90452972
chr8	84021087	84021087	+	0	0	-28.07817957
chr8	84021206	84021206	-	0	0	-35.30287329
chr8	84021210	84021210	-	0	0	-29.82849155
chr8	84021252	84021252	+	0	0	-28.98385773
chr8	84021253	84021253	-	0	0	-34.93886744
chr8	84021255	84021255	+	0	0	-40.95820143
chr8	84021256	84021256	-	0	0	-41.02094154
chr8	84021263	84021263	+	0	0	-34.3891758
chr8	84021264	84021264	-	0	0	-38.75391575
chr8	84021291	84021291	+	0	0	-41.60756501
chr8	84021292	84021292	-	0	0	-38.04535574
chr8	84021296	84021296	+	0	0	-41.78076651
chr8	84021297	84021297	-	0	0	-43.73133742
chr8	84021305	84021305	+	0	0	-33.19986543
chr8	84021306	84021306	-	0	0	-33.1952976
chr8	84021343	84021343	+	0	0	-35.2447409
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chr8	84021371	84021371	+	0	0	-28.27545362
chr8	84021385	84021385	+	0	0	-35.94395872
chr8	84021417	84021417	+	0	0	-33.35383387
chr8	84021516	84021516	+	6.06E-13	2.86E-11	-29.60192455
chr8	84021528	84021528	+	0	0	-36.13039648
chr8	84021587	84021587	-	0	0	-29.51109372
chr8	84044799	84044799	+	0	0	-40.59843474
chr8	84044802	84044802	+	0	0	-52.11567732
chr8	84044808	84044808	+	0	0	-50.40286506
chr8	84044834	84044834	+	0	0	-38.89995874
chr8	84044835	84044835	-	0	0	-41.02855478
chr8	84044838	84044838	+	0	0	-27.31016204
chr8	84044839	84044839	-	0	0	-32.13164058
chr8	84044851	84044851	-	0	0	-26.22216893

chr8	84044855	84044855	-	0	0	-27.78976161
chr8	84044870	84044870	-	0	0	-35.13592751
chr8	84044880	84044880	-	0	0	-30.04517432
chr8	84105426	84105426	-	0	0	-27.44689427
chr8	84180144	84180144	+	0	0	-32.04013701
chr8	84180145	84180145	-	2.60E-12	1.15E-10	-27.33521059
chr8	84180182	84180182	-	0	0	-39.78362989
chr8	84659571	84659571	+	0.00010397	0.00130438	-43.05555556
chr8	84707982	84707982	+	0	0	-41.68628261
chr8	84708072	84708072	+	0	0	-34.80667706
chr8	84708176	84708176	-	1.83E-06	3.58E-05	-53.61111111
chr8	84708182	84708182	+	0	0	-29.5678942
chr8	84708183	84708183	-	8.34E-06	0.00014066	-48.27272727
chr8	84708213	84708213	+	0	0	-30.75793008
chr8	84708254	84708254	-	0	0	-43.74385063
chr8	84708289	84708289	-	0	0	-53.78268889
chr8	84713804	84713804	-	2.75E-13	1.34E-11	-31.49056604
chr8	84721648	84721648	+	0	0	-35.21981939
chr8	84721661	84721661	+	0	0	-40.7272706
chr8	84721666	84721666	+	0	0	-48.5818199
chr8	84722060	84722060	+	0	0	-39.59607649
chr8	84722061	84722061	-	2.55E-06	4.83E-05	-39.26406926
chr8	84722070	84722070	+	0	0	-29.9382083
chr8	84736150	84736150	+	0	0	-31.65482381
chr8	84736153	84736153	+	0	0	-37.8440448
chr8	84736195	84736195	-	0	0	-44.52744765
chr8	84742583	84742583	+	1.29E-10	4.75E-09	-25.90830778
chr8	84745442	84745442	-	0	0	-25.00984802
chr8	84745458	84745458	+	0	0	-31.37446286
chr8	84745484	84745484	+	0	0	-34.2260769
chr8	84745659	84745659	-	0	0	-34.96712282
chr8	84779521	84779521	+	2.22E-05	0.00033763	-35.38722442
chr8	84779966	84779966	-	0	0	-29.4454372
chr8	84783090	84783090	-	0	0	-30.52899993
chr8	84784318	84784318	+	0	0	-31.99035813
chr8	84784345	84784345	+	0	0	-42.32343419
chr8	84784346	84784346	-	0	0	-48.51994049
chr8	84784359	84784359	-	0	0	-25.85830515
chr8	84784406	84784406	+	5.90E-05	0.00079812	-35.12931034
chr8	84784421	84784421	+	1.19E-05	0.00019358	-40.07936508
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chr8	84784436	84784436	+	2.89E-07	6.58E-06	-47.5
chr8	84784441	84784441	+	3.68E-06	6.73E-05	-30.9375
chr8	84784480	84784480	+	0	0	-30.47544192
chr8	84784484	84784484	+	0	0	-26.03896104
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chr8	84784808	84784808	-	0	0	-35.88533156
chr8	84784825	84784825	+	0	0	-49.81132075
chr8	84784826	84784826	-	7.15E-08	1.80E-06	-33.79637619
chr8	84784834	84784834	+	3.77E-15	2.20E-13	-31.48550725
chr8	84784848	84784848	+	0	0	-35.09749304
chr8	84784854	84784854	+	0	0	-34.10026188
chr8	84784877	84784877	+	0	0	-40.30566208
chr8	84784986	84784986	-	0	0	-35.72027431
chr8	84785015	84785015	-	0	0	-35.41865045
chr8	84785020	84785020	+	0	0	-27.86383239
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chr8	84785031	84785031	+	0	0	-48.84406365
chr8	84785032	84785032	-	0	0	-52.76598075
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chr8	84785523	84785523	+	0	0	-50.24461738
chr8	84785556	84785556	-	0	0	-56.07051827
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chr8	84786713	84786713	-	0	0	-61.40189956
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chr8	84912432	84912432	-	1.54E-13	7.72E-12	-25.02670856
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chr8	84912574	84912574	+	0	0	-25.21462706
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chr8	84912578	84912578	+	0	0	-27.25769394
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chr8	84912705	84912705	-	0	0	-44.99178982
chr8	84912708	84912708	-	0	0	-40.24751858
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chr8	84912723	84912723	-	0	0	-25.18776022
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chr8	84984813	84984813	+	0	0	-46.84368542
chr8	84984821	84984821	+	0	0	-42.17778036
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chr8	86809408	86809408	+	1.48E-14	8.13E-13	-29.49561404
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chr8	87471851	87471851	+	0.00011423	0.00141348	-27.55102041
chr8	87661906	87661906	-	6.16E-06	0.00010705	-29.40489173
chr8	87661940	87661940	-	7.66E-09	2.24E-07	-37.72551546
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chr8	88273022	88273022	-	2.18E-11	8.75E-10	-25.18161063
chr8	88275196	88275196	-	0.0004718	0.00473793	-26.78082192
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chr8	88431471	88431471	-	4.70E-05	0.00065342	-37.75388292
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chr8	88627252	88627252	+	0	0	-34.51117724
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chr8	88627332	88627332	-	0	0	-29.82395493
chr8	88627360	88627360	-	0	0	-25.92703349
chr8	88627378	88627378	-	0	0	-26.61713175
chr8	88627381	88627381	+	0	0	-34.53246545
chr8	88627382	88627382	-	0	0	-29.7687868
chr8	88627385	88627385	+	0	0	-38.94037197
chr8	88627389	88627389	+	0	0	-44.37204522
chr8	88627395	88627395	+	0	0	-32.27488883
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chr8	88627425	88627425	+	0	0	-43.96967913
chr8	88627431	88627431	+	0	0	-34.0969051
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chr8	88627555	88627555	+	0	0	-36.16678112
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chr8	88627786	88627786	-	0	0	-36.39422659
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chr8	88627816	88627816	-	0	0	-31.67591712
chr8	90348864	90348864	+	0	0	-31.09718042
chr8	90348865	90348865	-	0	0	-28.98492389
chr8	90827985	90827985	+	1.79E-08	4.96E-07	-36.94117647
chr8	90828015	90828015	+	3.12E-09	9.62E-08	-26.45098039
chr8	90907574	90907574	+	5.90E-06	0.00010313	-26.32676582
chr8	90907602	90907602	+	2.57E-11	1.02E-09	-39.76466796
chr8	91176446	91176446	-	0	0	-26.46150387
chr8	91359525	91359525	+	0.00033283	0.00353439	-26.25994695
chr8	91525162	91525162	+	9.56E-10	3.16E-08	-42.43498818
chr8	91747780	91747780	+	9.63E-06	0.00016001	-31.8677792
chr8	91747783	91747783	+	3.27E-08	8.70E-07	-35.04909724
chr8	92066690	92066690	+	0	0	-38.91415831
chr8	92066816	92066816	-	0	0	-34.77152603
chr8	92075186	92075186	+	1.13E-13	5.72E-12	-32.5
chr8	92114053	92114053	+	5.11E-09	1.53E-07	-35.05918796
chr8	92114080	92114080	+	1.70E-09	5.42E-08	-35.10359869
chr8	92114085	92114085	+	2.48E-11	9.89E-10	-40.35433071
chr8	92133967	92133967	+	4.70E-13	2.24E-11	-29.04392247
chr8	92205510	92205510	+	7.90E-11	2.98E-09	28.69757174
chr8	92232146	92232146	-	0.00085986	0.00780151	-27.56410256
chr8	92232164	92232164	-	0.000105	0.00131534	-25.98389982
chr8	92384796	92384796	+	5.25E-08	1.35E-06	-36.11111111
chr8	93917910	93917910	+	0	0	-25.17833431
chr8	94324337	94324337	-	2.51E-14	1.35E-12	-32.74254773
chr8	94780997	94780997	-	5.66E-08	1.45E-06	-32.00421941
chr8	94875612	94875612	+	0	0	-28.52944463
chr8	94899165	94899165	+	4.33E-07	9.52E-06	-33.32746479
chr8	94922523	94922523	-	0	0	-25.10413348
chr8	94922564	94922564	-	0	0	-28.18323908
chr8	94996201	94996201	+	0	0	-31.3193802
chr8	94996214	94996214	+	0	0	-30.26482563
chr8	94996215	94996215	-	1.44E-13	7.23E-12	-26.12322159

chr8	95143238	95143238	+	0	0	-36.45516811
chr8	95143374	95143374	-	0	0	-33.06193542
chr8	95391580	95391580	+	0	0	-26.98749399
chr8	95391711	95391711	-	0	0	-33.88860544
chr8	104106702	104106702	-	7.88E-05	0.00102596	-34.74576271
chr8	104110823	104110823	-	0	0	-31.48176113
chr8	104422540	104422540	-	1.33E-12	6.05E-11	-29.49332172
chr8	104422550	104422550	-	1.98E-10	7.11E-09	-25.93344752
chr8	105142890	105142890	+	3.08E-09	9.52E-08	-38.0952381
chr8	105152488	105152488	+	2.13E-12	9.53E-11	-49.15216421
chr8	105152514	105152514	+	1.22E-06	2.46E-05	-34.5751634
chr8	105255390	105255390	-	0.00011158	0.00138537	-33.60227812
chr8	105259003	105259003	+	2.76E-13	1.34E-11	-42.6149881
chr8	105259009	105259009	+	6.61E-09	1.95E-07	-31.27478192
chr8	105259047	105259047	+	0	0	-69.15146709
chr8	105259250	105259250	-	0	0	-66.21396896
chr8	105259254	105259254	-	0	0	-73.95584386
chr8	105259256	105259256	-	0	0	-71.39963996
chr8	105259262	105259262	-	0	0	-70.59405941
chr8	105259289	105259289	+	0	0	-65.37726908
chr8	105259290	105259290	-	0	0	-82.77716186
chr8	105259330	105259330	+	0	0	-30.72810343
chr8	105259331	105259331	-	0	0	-29.38477073
chr8	105259345	105259345	+	0	0	-43.18753707
chr8	105259355	105259355	+	0	0	-40.50296171
chr8	105259474	105259474	-	0	0	-36.67682136
chr8	105268746	105268746	+	0	0	-26.55229893
chr8	105268783	105268783	-	0	0	-26.36131661
chr8	105268787	105268787	-	0	0	-25.27536911
chr8	105268791	105268791	-	0	0	-29.41656527
chr8	105270995	105270995	+	0	0	-37.24490171
chr8	105270996	105270996	-	0	0	-38.10109261
chr8	105271005	105271005	+	0	0	-46.7663872
chr8	105271006	105271006	-	0	0	-42.75342244
chr8	105271026	105271026	-	0	0	-28.40025533
chr8	105272385	105272385	+	6.66E-15	3.79E-13	-26.57939189
chr8	105285757	105285757	-	4.63E-10	1.59E-08	-25.77787381
chr8	105338497	105338497	+	5.50E-06	9.67E-05	-30.58419244
chr8	105346765	105346765	+	4.40E-12	1.90E-10	-28.12103259
chr8	105355348	105355348	-	1.65E-07	3.92E-06	-36.83823529
chr8	105355354	105355354	-	9.92E-06	0.00016429	-26.82076683

chr8	105375028	105375028	+	0	0	-25.24839861
chr8	105378807	105378807	+	7.03E-12	2.97E-10	-25.80203379
chr8	105517563	105517563	-	0	0	-28.72998041
chr8	105594120	105594120	+	0	0	-39.14067328
chr8	105594129	105594129	+	0	0	-33.45904404
chr8	105594130	105594130	-	0	0	-38.96071309
chr8	105594146	105594146	+	0	0	-32.29172887
chr8	105594147	105594147	-	0	0	-34.12765281
chr8	105594152	105594152	+	0	0	-44.49893948
chr8	105594153	105594153	-	0	0	-47.09976175
chr8	105594178	105594178	-	0	0	-42.73034124
chr8	105614450	105614450	-	1.13E-12	5.19E-11	-31.59611845
chr8	105614453	105614453	-	3.10E-09	9.56E-08	-28.72707614
chr8	105693861	105693861	-	3.22E-15	1.89E-13	-47.54558205
chr8	105693873	105693873	-	9.20E-10	3.05E-08	-27.8128065
chr8	105693880	105693880	-	6.12E-11	2.34E-09	-26.6595975
chr8	105693883	105693883	-	1.43E-14	7.90E-13	-36.26488095
chr8	105693898	105693898	-	4.75E-13	2.26E-11	-26.02339181
chr8	105693902	105693902	-	0	0	-34.26604757
chr8	105693905	105693905	-	0	0	-37.77018176
chr8	105693910	105693910	+	0	0	-33.09001309
chr8	105693911	105693911	-	0	0	-39.96319839
chr8	105693922	105693922	+	0	0	-29.59977496
chr8	105693925	105693925	-	0	0	-37.6819319
chr8	105693934	105693934	-	0	0	-27.13493094
chr8	105693944	105693944	+	0	0	-27.65450041
chr8	105693945	105693945	-	0	0	-31.79188522
chr8	105693973	105693973	+	0	0	-31.14453961
chr8	105693974	105693974	-	0	0	-38.94178809
chr8	105693979	105693979	+	0	0	-31.93102798
chr8	105694094	105694094	+	0	0	-28.72021763
chr8	105694095	105694095	-	0	0	-26.15476388
chr8	105694132	105694132	+	3.21E-13	1.56E-11	-26.27903722
chr8	105727965	105727965	+	0	0	-28.89951544
chr8	105728001	105728001	-	0	0	-25.68836203
chr8	105728051	105728051	+	0	0	-34.87889329
chr8	105728160	105728160	-	1.48E-06	2.95E-05	-25.20965476
chr8	106280995	106280995	+	1.65E-08	4.58E-07	-28.50283719
chr8	106611160	106611160	+	0	0	-27.47647115
chr8	106611195	106611195	+	0	0	-27.93207639
chr8	106839205	106839205	+	0	0	-44.48996463

chr8	106839225	106839225	+	0	0	-30.18155137
chr8	106839357	106839357	-	0	0	-43.82134729
chr8	107109289	107109289	+	1.58E-07	3.75E-06	-43.19042871
chr8	107115079	107115079	-	0	0	-37.96395028
chr8	107115111	107115111	+	1.54E-06	3.05E-05	-25.18124507
chr8	107119035	107119035	-	0	0	-27.29941984
chr8	107226528	107226528	+	2.00E-07	4.67E-06	-33.67117117
chr8	107556513	107556513	+	1.66E-09	5.31E-08	-37.82862707
chr8	107556795	107556795	+	0	0	-26.98802843
chr8	108068456	108068456	+	2.80E-05	0.00041433	-34.00467542
chr8	108647045	108647045	+	4.27E-05	0.0006012	-32.61455526
chr8	108695406	108695406	-	0	0	-45.74553732
chr8	108695425	108695425	+	0	0	-43.8061674
chr8	108695466	108695466	+	0	0	-42.30769231
chr8	108695467	108695467	-	0	0	-42.2438777
chr8	108695505	108695505	-	0	0	-34.76485518
chr8	108713740	108713740	+	0	0	-29.69556642
chr8	108713803	108713803	-	0	0	-40.51500519
chr8	108713805	108713805	-	0	0	-42.12634656
chr8	108713811	108713811	+	0	0	-36.96375133
chr8	108713812	108713812	-	0	0	-38.74378604
chr8	108713930	108713930	+	0	0	-29.11152672
chr8	108713931	108713931	-	1.30E-09	4.22E-08	-35.65519958
chr8	108713969	108713969	+	0	0	-42.68959991
chr8	108714025	108714025	-	0	0	-33.43976379
chr8	108714036	108714036	-	0	0	-41.21697652
chr8	108714063	108714063	-	0	0	-31.88609546
chr8	108714073	108714073	-	0	0	-33.74239574
chr8	108726810	108726810	+	4.44E-16	2.79E-14	-29.99789817
chr8	108893850	108893850	+	0.00018707	0.00216441	-32.25806452
chr8	108900591	108900591	-	0	0	-25.18326168
chr8	108900929	108900929	+	0	0	-37.22269886
chr8	108900938	108900938	+	0	0	-30.85483871
chr8	108900940	108900940	+	0	0	-40.48786442
chr8	108900951	108900951	+	0	0	-27.3942953
chr8	108900952	108900952	-	0	0	-37.15052801
chr8	108900978	108900978	+	0	0	-38.72649457
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chr8	108900997	108900997	+	0	0	-40.64415911
chr8	108900998	108900998	-	0	0	-44.78291317
chr8	108901030	108901030	+	0	0	-29.42603382

chr8	108901299	108901299	-	2.22E-15	1.32E-13	-26.62835249
chr8	108901324	108901324	+	8.99E-06	0.00015042	-33.52303523
chr8	109961561	109961561	+	0.00037059	0.00386983	34.44444444
chr8	110727080	110727080	-	0.00055293	0.00541155	-28.27004219
chr8	110927129	110927129	+	8.18E-09	2.38E-07	-25.48716363
chr8	111090743	111090743	+	2.77E-05	0.00041009	25.80297689
chr8	111625081	111625081	-	1.44E-13	7.23E-12	-26.10167051
chr8	111626779	111626779	-	2.91E-13	1.42E-11	-25.16422764
chr8	111735368	111735368	+	0	0	-28.49687466
chr8	111794995	111794995	+	0	0	-25.49843241
chr8	114707704	114707704	+	0	0	-25.91365018
chr8	114707714	114707714	+	0	0	-26.74449676
chr8	114819210	114819210	+	1.13E-05	0.00018524	-29.00337705
chr8	114941628	114941628	-	0	0	-25.48571102
chr8	114941660	114941660	-	0	0	-30.15662839
chr8	115010778	115010778	-	0	0	-30.30819293
chr8	115151786	115151786	+	1.69E-09	5.42E-08	-25.28624415
chr8	115227304	115227304	+	0	0	-26.60108025
chr8	115304904	115304904	+	0	0	-45.45326651
chr8	115304932	115304932	+	0	0	-39.43199612
chr8	115304977	115304977	-	0	0	-26.65576379
chr8	115305009	115305009	-	0	0	-32.74533765
chr8	115305016	115305016	-	0	0	-35.62818771
chr8	115305021	115305021	-	0	0	-34.17636194
chr8	115305052	115305052	-	5.38E-08	1.38E-06	-30.13605442
chr8	115474380	115474380	+	0	0	-30.12075067
chr8	115474438	115474438	-	0	0	-33.36307517
chr8	115474441	115474441	-	0	0	-25.13837145
chr8	115536893	115536893	+	0	0	-32.44947297
chr8	115536909	115536909	+	0	0	-27.01966694
chr8	115536946	115536946	-	0	0	-40.19227485
chr8	115536966	115536966	-	0	0	-40.17427542
chr8	115632856	115632856	-	0	0	-27.133838
chr8	117137553	117137553	-	1.27E-11	5.21E-10	-42.69972452
chr8	117267566	117267566	+	2.29E-11	9.16E-10	-25.02790936
chr8	117278356	117278356	-	0	0	-27.27865721
chr8	117280710	117280710	-	0	0	-26.60332864
chr8	117280714	117280714	-	0	0	-25.72441091
chr8	117300908	117300908	-	0	0	-41.63356504
chr8	117339880	117339880	-	0	0	-47.41240334
chr8	117339900	117339900	-	0	0	-39.68843148

chr8	117345105	117345105	-	0	0	-25.05285789
chr8	117370554	117370554	-	0	0	-26.62845667
chr8	117370581	117370581	-	0	0	-27.71876548
chr8	117377240	117377240	+	0.00072542	0.00677792	-29.22705314
chr8	117469993	117469993	+	0	0	-34.63617511
chr8	117470100	117470100	-	0	0	-31.36992565
chr8	117538545	117538545	+	4.33E-06	7.80E-05	-25.51222736
chr8	117700938	117700938	+	1.79E-06	3.51E-05	-33.00865801
chr8	117700944	117700944	-	0.00023085	0.00258995	-28.40607668
chr8	118718580	118718580	-	0.00026217	0.00288802	29.4017094
chr8	119404075	119404075	+	0	0	-42.58274232
chr8	119465240	119465240	+	0.00010908	0.00135871	-27.27075421
chr8	119465433	119465433	+	0.00016953	0.0019889	-30.76923077
chr8	119502644	119502644	-	0.00062565	0.00599687	-35.0132626
chr8	119503621	119503621	+	1.05E-05	0.00017243	-25.74002574
chr8	119661250	119661250	+	0	0	-30.09407687
chr8	119661251	119661251	-	0	0	-31.58534736
chr8	119661374	119661374	+	1.21E-09	3.93E-08	-25.28460838
chr8	119806710	119806710	-	0	0	-37.03310977
chr8	119862977	119862977	-	1.81E-10	6.53E-09	-31.54778555
chr8	120036313	120036313	+	0	0	-32.13160767
chr8	120036322	120036322	+	0	0	-30.98865178
chr8	120105043	120105043	+	0	0	-35.42282452
chr8	120105090	120105090	+	0	0	-40.09413778
chr8	120105155	120105155	-	0	0	-42.73344948
chr8	120150273	120150273	-	7.54E-09	2.20E-07	-25.37168714
chr8	120178413	120178413	+	5.22E-15	3.00E-13	-30.9860347
chr8	120208003	120208003	+	6.08E-08	1.55E-06	-29.47214076
chr8	120208006	120208006	+	8.51E-08	2.12E-06	-32.78867102
chr8	120208180	120208180	-	0	0	-27.93636184
chr8	120208197	120208197	-	0	0	-27.54314179
chr8	120211171	120211171	-	4.69E-06	8.38E-05	-30.35005413
chr8	120217169	120217169	-	4.28E-13	2.05E-11	-29.36789539
chr8	120242757	120242757	+	0	0	-27.02963659
chr8	120261372	120261372	+	0	0	-29.86021194
chr8	120261375	120261375	+	0	0	-28.01902556
chr8	120261395	120261395	+	0	0	-44.66239498
chr8	120261397	120261397	+	0	0	-43.25660399
chr8	120261430	120261430	-	0	0	-31.07947592
chr8	120261464	120261464	-	0	0	-33.13255207
chr8	120275660	120275660	+	1.25E-05	0.00020229	-34.84848485

chr8	120275661	120275661	-	0.00083963	0.00764885	-30.47765794
chr8	120277886	120277886	+	4.44E-07	9.75E-06	-26.28463522
chr8	120278075	120278075	-	2.64E-05	0.00039347	-38.99521531
chr8	120278110	120278110	-	3.70E-05	0.00052863	-29.3062201
chr8	120292450	120292450	+	0.00011907	0.00146575	-29.71509972
chr8	120292462	120292462	+	0.00025986	0.00286608	-28.05176132
chr8	120295574	120295574	-	0	0	-27.97957096
chr8	120307670	120307670	+	0	0	-27.54972376
chr8	120331556	120331556	-	0.00083749	0.0076326	-27.84461153
chr8	120331811	120331811	+	0	0	-33.99930228
chr8	120346619	120346619	+	1.84E-10	6.64E-09	-38.38202247
chr8	120398173	120398173	+	7.90E-07	1.66E-05	-28.76712329
chr8	120407587	120407587	+	1.03E-09	3.38E-08	-41.65790027
chr8	120407809	120407809	-	8.89E-08	2.21E-06	-31.51645979
chr8	120407818	120407818	-	1.19E-10	4.38E-09	-38.17492191
chr8	120407821	120407821	-	1.56E-08	4.36E-07	-28.86130599
chr8	120426944	120426944	+	0	0	-29.89716705
chr8	120450186	120450186	+	0	0	-26.81297085
chr8	120450213	120450213	+	0	0	-25.91542601
chr8	120471371	120471371	+	0	0	-37.06189286
chr8	120471406	120471406	+	0	0	-35.36036036
chr8	120471407	120471407	-	0	0	-34.28289125
chr8	120471438	120471438	-	0	0	-26.19369203
chr8	120478668	120478668	+	0	0	-28.15991488
chr8	120478669	120478669	-	0	0	-26.78808611
chr8	120481317	120481317	+	7.82E-06	0.00013269	-26.43678161
chr8	120481334	120481334	+	1.92E-06	3.73E-05	-29.3133583
chr8	120481717	120481717	+	0	0	-31.50159796
chr8	120481718	120481718	-	5.45E-09	1.63E-07	-44.3221831
chr8	120486526	120486526	+	0	0	-33.4754608
chr8	120486544	120486544	+	0	0	-31.39165744
chr8	120486563	120486563	+	1.51E-14	8.30E-13	-26.58972904
chr8	120500439	120500439	+	0	0	-25.29761905
chr8	120500440	120500440	-	0	0	-28.61478813
chr8	120501079	120501079	+	2.22E-16	1.43E-14	-25.69398191
chr8	120504507	120504507	+	9.45E-05	0.00120128	-29.08113392
chr8	120516689	120516689	+	0	0	-25.74082264
chr8	120518221	120518221	+	0	0	-27.79693487
chr8	120533266	120533266	+	0.00013565	0.0016409	-25.24893314
chr8	120533273	120533273	+	6.39E-07	1.36E-05	-30.15647226
chr8	120533281	120533281	+	2.13E-08	5.84E-07	-36.79468943



chr8	120563449	120563449	+	0	0	-26.76916764
chr8	120563465	120563465	+	0	0	-30.80814855
chr8	120567040	120567040	+	2.90E-09	8.98E-08	-26.16741182
chr8	120567066	120567066	-	0	0	-26.7039076
chr8	120567388	120567388	+	0.00116335	0.00998865	-30.85714286
chr8	120598567	120598567	+	0	0	-34.23022687
chr8	120598568	120598568	-	0	0	-31.41564733
chr8	120598574	120598574	+	0	0	-35.79301547
chr8	120598575	120598575	-	0	0	-33.35210295
chr8	120732001	120732001	+	5.67E-11	2.17E-09	-31.12745098
chr8	120750774	120750774	+	0	0	-26.25507012
chr8	120750775	120750775	-	0	0	-28.11367538
chr8	120807016	120807016	+	0	0	-26.14799915
chr8	121074128	121074128	+	2.05E-07	4.78E-06	-29.27296561
chr8	121175154	121175154	+	0.00061124	0.00588221	-29.13636364
chr8	121175384	121175384	+	2.07E-05	0.00031641	-25.25994575
chr8	121220224	121220224	-	0	0	-27.75651386
chr8	121220261	121220261	+	0	0	-27.75373683
chr8	121220368	121220368	-	6.94E-10	2.33E-08	-27.78664731
chr8	121282034	121282034	-	7.08E-08	1.79E-06	-36.92810458
chr8	121300517	121300517	+	0	0	-35.17512077
chr8	121372223	121372223	+	0.00013209	0.00160393	-31.92989525
chr8	121372255	121372255	+	1.84E-08	5.09E-07	-43.55358582
chr8	121372505	121372505	-	1.01E-06	2.07E-05	-25.65409446
chr8	121372600	121372600	-	0	0	-27.69916453
chr8	121374582	121374582	+	0	0	-27.38206859
chr8	121377929	121377929	-	0	0	-34.20864821
chr8	121396409	121396409	+	7.22E-08	1.82E-06	-43.59301056
chr8	121397449	121397449	-	0	0	-25.4420591
chr8	121550504	121550504	+	6.89E-05	0.00091297	-30.23255814
chr8	122163429	122163429	-	5.73E-06	0.00010033	-33.40195574
chr8	122234268	122234268	+	0	0	-25.68152815
chr8	122242210	122242210	-	0.000487	0.00486619	29.62962963
chr8	122269173	122269173	-	0	0	-40.64327485
chr8	122269195	122269195	-	0	0	-40.44840698
chr8	122269197	122269197	-	7.55E-15	4.27E-13	-30.03824654
chr8	122269200	122269200	-	0	0	-38.55726621
chr8	122269220	122269220	-	0	0	-35.13911097
chr8	122277339	122277339	+	0	0	-25.99109352
chr8	122285959	122285959	-	5.86E-09	1.74E-07	-25.44090056
chr8	122286358	122286358	+	0	0	-32.29166667

chr8	122287085	122287085	-	1.54E-11	6.29E-10	-25.03304693
chr8	122287090	122287090	-	1.48E-14	8.13E-13	-25.43859649
chr8	122496896	122496896	+	2.55E-15	1.51E-13	-31.36228519
chr8	122523122	122523122	-	2.09E-12	9.34E-11	-26.00382567
chr8	122523441	122523441	+	0	0	-27.75577077
chr8	122547254	122547254	+	0	0	-25.5610814
chr8	122547327	122547327	-	0	0	-33.51723029
chr8	122547329	122547329	-	0	0	-36.01487371
chr8	122547335	122547335	+	0	0	-25.53389891
chr8	122547336	122547336	-	0	0	-36.70869513
chr8	122548546	122548546	-	0	0	-35.52545523
chr8	122549874	122549874	+	7.09E-10	2.38E-08	-28.11107379
chr8	122549875	122549875	-	7.24E-06	0.00012381	-39.85815603
chr8	122550032	122550032	-	0	0	-26.41002245
chr8	122574988	122574988	+	0	0	-28.82431314
chr8	122575396	122575396	-	1.51E-05	0.00023901	-35.04901961
chr8	122575445	122575445	-	2.96E-05	0.00043543	-32.91139241
chr8	122664571	122664571	+	0.00042363	0.00432758	-30.10244287
chr8	122672021	122672021	+	3.42E-05	0.00049324	-28.42105263
chr8	122674024	122674024	+	0	0	-33.72598312
chr8	122674054	122674054	+	0	0	-39.51284498
chr8	122674068	122674068	+	0	0	-40.18663302
chr8	122674113	122674113	-	0	0	-38.31885027
chr8	122674146	122674146	+	0	0	-35.47767366
chr8	122674147	122674147	-	0	0	-33.80690352
chr8	122674174	122674174	+	0	0	-42.47858103
chr8	122674175	122674175	-	0	0	-41.51361034
chr8	122674190	122674190	+	0	0	-37.29688119
chr8	122674191	122674191	-	0	0	-41.06232002
chr8	122674195	122674195	+	0	0	-41.87197236
chr8	122674196	122674196	-	0	0	-37.52830026
chr8	122674198	122674198	-	0	0	-43.37186243
chr8	122674204	122674204	-	0	0	-35.26883922
chr8	122676256	122676256	+	0	0	-33.11843636
chr8	122676257	122676257	-	0	0	-40.43810834
chr8	122676291	122676291	+	0	0	-47.48326228
chr8	122676292	122676292	-	0	0	-40.93518338
chr8	122676310	122676310	-	0	0	-35.18930935
chr8	122676327	122676327	-	0	0	-30.34695921
chr8	122677358	122677358	+	3.83E-06	6.98E-05	-27.65353458
chr8	122677525	122677525	-	2.60E-08	7.03E-07	-30.79279279

chr8	122679751	122679751	-	2.60E-06	4.92E-05	-62.22222222
chr8	122691303	122691303	+	5.74E-08	1.47E-06	-26.24319162
chr8	122709752	122709752	-	0	0	-34.31250583
chr8	123116621	123116621	+	0	0	-26.56349206
chr8	123116622	123116622	-	0	0	-30.14739621
chr8	123116643	123116643	-	0	0	-27.87452374
chr8	123116800	123116800	-	4.60E-13	2.20E-11	-50.60296846
chr8	123116808	123116808	-	4.30E-07	9.48E-06	-35.68181818
chr8	123135549	123135549	+	8.88E-16	5.45E-14	-27.70500434
chr8	123333394	123333394	-	0	0	-25.82321761
chr8	124099626	124099626	+	5.41E-11	2.08E-09	-25.32979429
chr8	124314227	124314227	+	0	0	-37.45158209
chr8	124314232	124314232	+	0	0	-39.4809612
chr8	124314233	124314233	-	0	0	-33.1854865
chr8	124314237	124314237	+	0	0	-28.17015557
chr8	124314281	124314281	-	0	0	-29.96159792
chr8	124318793	124318793	-	0	0	-25.22156085
chr8	124677636	124677636	+	9.19E-09	2.65E-07	-26.1870155
chr8	125065659	125065659	-	7.13E-05	0.00094002	-37.5
chr8	125198684	125198684	+	0	0	-37.37056497
chr8	125198685	125198685	-	5.98E-08	1.53E-06	-40.2734108
chr8	125198733	125198733	+	0	0	-33.96678651
chr8	125198734	125198734	-	0	0	-33.93424328
chr8	125198766	125198766	+	0	0	-27.80260708
chr8	125282717	125282717	+	0.00025426	0.00281306	-33.06571514
chr8	125282734	125282734	+	2.50E-08	6.78E-07	-47.61904762
chr8	125282741	125282741	+	2.07E-10	7.42E-09	-51.40350877
chr8	125282951	125282951	-	0.00076706	0.0070995	-32.42790074
chr8	125282992	125282992	-	1.10E-05	0.00018073	-37.57042254
chr8	125337692	125337692	+	0	0	-29.29053395
chr8	125337718	125337718	+	0	0	-35.51255391
chr8	125337719	125337719	-	0	0	-28.30086185
chr8	125337750	125337750	-	0	0	-33.67221147
chr8	125716827	125716827	+	0	0	-30.46934866
chr8	125716828	125716828	-	0	0	-36.68548779
chr8	125716844	125716844	+	0	0	-25.86478132
chr8	125724258	125724258	+	3.33E-16	2.11E-14	-32.73598551
chr8	126616037	126616037	-	8.13E-06	0.00013738	-25.7086999
chr8	126661622	126661622	+	0	0	-27.34481466
chr8	126735975	126735975	-	4.78E-09	1.44E-07	-29.53438587
chr8	126736009	126736009	+	0	0	-29.39987607

chr8	126736010	126736010	-	0	0	-25.61426351
chr8	126736014	126736014	+	1.52E-12	6.90E-11	-28.86964108
chr8	126736054	126736054	+	1.51E-13	7.58E-12	-30.08332265
chr8	126788855	126788855	-	0	0	-26.70115034
chr8	126789206	126789206	+	0	0	-31.10919297
chr8	127593098	127593098	+	0	0	-25.44217101
chr8	128595487	128595487	+	8.38E-06	0.00014116	-26.78571429
chr9	3026927	3026927	-	6.14E-07	1.31E-05	-52.53353204
chr9	3032045	3032045	-	1.18E-08	3.34E-07	-54.05105438
chr9	14001709	14001709	-	0	0	-26.12818173
chr9	14246481	14246481	-	1.11E-15	6.76E-14	-25.04648729
chr9	14382128	14382128	-	1.62E-06	3.20E-05	-31.37073453
chr9	14751277	14751277	-	3.12E-07	7.05E-06	-25.17039258
chr9	14751307	14751307	-	3.03E-14	1.62E-12	-34.84051263
chr9	14860939	14860939	-	7.10E-05	0.00093745	28.09116809
chr9	15526898	15526898	+	0.00043924	0.00446079	-25.96837945
chr9	15526899	15526899	-	0	0	-26.76622721
chr9	15535708	15535708	+	0	0	-27.41365935
chr9	18009900	18009900	+	0	0	-27.92986533
chr9	18779735	18779735	-	0.00014054	0.00169212	-35.80891208
chr9	20642017	20642017	+	0	0	-47.09458492
chr9	20642018	20642018	-	0	0	-48.47895132
chr9	20642024	20642024	+	0	0	-38.93650839
chr9	20642025	20642025	-	0	0	-44.72940679
chr9	20642033	20642033	+	0	0	-54.76110255
chr9	20642034	20642034	-	0	0	-57.70145909
chr9	20642044	20642044	+	0	0	-51.89397501
chr9	20642045	20642045	-	0	0	-45.9651248
chr9	20642049	20642049	+	0	0	-54.69416641
chr9	20642050	20642050	-	0	0	-47.31851453
chr9	20642143	20642143	+	1.11E-16	7.26E-15	-27.49603007
chr9	20642149	20642149	+	0	0	-43.90507012
chr9	20642150	20642150	-	3.55E-15	2.07E-13	-35.77410752
chr9	20642193	20642193	+	6.86E-11	2.60E-09	-37.32954545
chr9	20642194	20642194	-	0	0	-30.31252899
chr9	20642213	20642213	+	4.12E-09	1.25E-07	-30.84415584
chr9	20642214	20642214	-	0	0	-35.83364354
chr9	20902048	20902048	+	3.06E-11	1.21E-09	-27.13331309
chr9	20972243	20972243	+	0	0	-31.10279551
chr9	21038702	21038702	+	0	0	-34.00312224
chr9	21038717	21038717	+	0	0	-34.22726801

chr9	21038729	21038729	+	0	0	-32.7096598
chr9	21038744	21038744	+	0	0	-27.63090544
chr9	21038778	21038778	-	0	0	-39.27048843
chr9	21038784	21038784	-	0	0	-27.38171436
chr9	21038799	21038799	-	0	0	-36.91400842
chr9	21038805	21038805	-	0	0	-33.4191752
chr9	21125904	21125904	+	0	0	-25.57261703
chr9	21248832	21248832	-	7.33E-15	4.15E-13	-27.87798544
chr9	21312136	21312136	+	0	0	-26.95495892
chr9	21312164	21312164	+	0	0	-28.94321767
chr9	21312165	21312165	-	0	0	-27.56105226
chr9	21332374	21332374	-	0.00057154	0.00556373	-26.86567164
chr9	21730119	21730119	-	5.11E-05	0.00070277	-29.11764706
chr9	21858229	21858229	+	0	0	-25.72480088
chr9	21858279	21858279	+	0	0	-34.48416752
chr9	21963552	21963552	+	6.00E-15	3.43E-13	-26.6226247
chr9	21963553	21963553	-	0	0	-32.4329881
chr9	21963746	21963746	-	1.44E-06	2.86E-05	-38.30321285
chr9	21963772	21963772	-	6.55E-10	2.21E-08	-44.48843839
chr9	21991347	21991347	+	1.11E-15	6.76E-14	-27.56876887
chr9	21991568	21991568	+	0	0	-29.6440451
chr9	21991749	21991749	-	2.78E-14	1.49E-12	-26.82100508
chr9	21991760	21991760	-	0	0	-32.35148515
chr9	22056017	22056017	-	6.27E-11	2.39E-09	-33.64337568
chr9	22132427	22132427	+	0	0	-44.87005336
chr9	22132428	22132428	-	0	0	-43.5381107
chr9	22132438	22132438	-	0	0	-49.03998869
chr9	22132442	22132442	-	0	0	-42.15567867
chr9	22132461	22132461	-	0	0	-30.12402427
chr9	22132468	22132468	-	0	0	-26.3172043
chr9	22157798	22157798	-	0	0	-30.91988232
chr9	23204646	23204646	+	0	0	-30.59264014
chr9	23204742	23204742	-	0	0	-32.80694267
chr9	23247363	23247363	-	1.85E-05	0.00028704	-28.57142857
chr9	23529335	23529335	-	0.00027931	0.0030485	-43.72759857
chr9	24451384	24451384	+	4.44E-16	2.79E-14	-28.27711494
chr9	24451397	24451397	+	0	0	-29.81961337
chr9	29818030	29818030	+	3.93E-07	8.72E-06	-48.37351703
chr9	31090205	31090205	-	0	0	-25.63291139
chr9	32028252	32028252	+	0	0	-26.37055429
chr9	32136958	32136958	+	0.00015517	0.00184294	-25.17482517

chr9	32550798	32550798	+	0	0	-32.6587996
chr9	32699771	32699771	+	3.02E-12	1.33E-10	-27.63943889
chr9	32710308	32710308	-	3.73E-05	0.00053298	-25.64162663
chr9	33276696	33276696	+	0.00018921	0.00218559	36.73020528
chr9	34878012	34878012	+	1.46E-05	0.00023227	53.07971014
chr9	34903503	34903503	+	3.15E-06	5.85E-05	-25.24717514
chr9	35025366	35025366	+	1.07E-07	2.63E-06	-28.93518519
chr9	35025367	35025367	-	0	0	-26.9103149
chr9	35340814	35340814	+	5.26E-12	2.25E-10	-29.12313433
chr9	35444811	35444811	-	0	0	-29.54558715
chr9	37053694	37053694	-	0	0	-26.28862695
chr9	37429475	37429475	+	1.55E-05	0.0002448	-37.11538462
chr9	37429661	37429661	-	2.91E-10	1.03E-08	-35.88709677
chr9	37429668	37429668	-	5.16E-13	2.45E-11	-35.9248314
chr9	37429670	37429670	-	2.32E-13	1.14E-11	-42.12783172
chr9	37429706	37429706	+	1.84E-08	5.09E-07	-30.69453762
chr9	37429736	37429736	-	9.86E-08	2.42E-06	-28.33333333
chr9	37454241	37454241	-	0	0	-25.80931042
chr9	37531576	37531576	+	0	0	-26.82540747
chr9	37531577	37531577	-	0	0	-25.82891011
chr9	40240908	40240908	+	0	0	-33.22614317
chr9	40240917	40240917	+	0	0	-34.31257344
chr9	40376322	40376322	+	0	0	-41.54755893
chr9	40376362	40376362	-	4.48E-09	1.35E-07	-45.99078341
chr9	40391110	40391110	+	0	0	-25.94105777
chr9	40391123	40391123	+	0	0	-31.02483451
chr9	40391232	40391232	-	0	0	-26.41304348
chr9	40391275	40391275	+	4.87E-08	1.26E-06	-25.21280603
chr9	40391495	40391495	+	2.38E-14	1.28E-12	-32.04041082
chr9	40391622	40391622	-	9.83E-14	5.01E-12	-27.35956119
chr9	40391629	40391629	-	3.44E-15	2.01E-13	-29.04464106
chr9	40391636	40391636	-	1.23E-14	6.83E-13	-28.33893598
chr9	40391648	40391648	-	5.30E-12	2.27E-10	-25.54865983
chr9	40391657	40391657	-	1.67E-15	9.99E-14	-29.3265558
chr9	40391661	40391661	-	0	0	-30.9741035
chr9	40391695	40391695	-	1.11E-16	7.26E-15	-25.27419443
chr9	40391698	40391698	-	0	0	-28.43907035
chr9	40391715	40391715	+	0	0	-33.45641438
chr9	40391889	40391889	-	0	0	-38.03837953
chr9	40392557	40392557	+	0	0	-39.39543695
chr9	40392793	40392793	-	0	0	-34.49051923

chr9	40628807	40628807	+	0	0	-26.16724739
chr9	40628817	40628817	+	0	0	-27.25260667
chr9	40859461	40859461	-	1.53E-10	5.57E-09	-25.91012577
chr9	40859468	40859468	-	4.43E-12	1.91E-10	-27.90283401
chr9	41069735	41069735	+	0	0	-32.51816504
chr9	41069838	41069838	-	2.82E-07	6.42E-06	-29.81137233
chr9	41157996	41157996	+	0	0	-33.55453747
chr9	41461684	41461684	+	4.11E-07	9.08E-06	-26.91836735
chr9	42002566	42002566	+	2.93E-07	6.65E-06	-27.89855072
chr9	42208682	42208682	-	1.77E-06	3.46E-05	-31.38736264
chr9	42778235	42778235	+	0.00064186	0.00612671	-25.27472527
chr9	42778593	42778593	-	6.34E-06	0.00010997	-32.33024691
chr9	42853104	42853104	-	0.00015111	0.001801	-35.11029412
chr9	42882421	42882421	+	0	0	-38.0480167
chr9	42882428	42882428	+	0	0	-31.84543191
chr9	42898143	42898143	+	2.08E-08	5.69E-07	-25.18055556
chr9	42898144	42898144	-	0	0	-30.80869873
chr9	42898179	42898179	+	0	0	-38.61502347
chr9	42898297	42898297	-	0	0	-41.07678729
chr9	42898303	42898303	-	0	0	-39.24569018
chr9	42898336	42898336	-	0	0	-40.65804935
chr9	42907195	42907195	-	2.65E-10	9.36E-09	-25.79591837
chr9	43238858	43238858	+	0.00024976	0.00277008	-33.74422188
chr9	43239042	43239042	-	1.74E-07	4.12E-06	-36.30613536
chr9	43286878	43286878	+	0	0	-26.24482489
chr9	43286879	43286879	-	4.44E-15	2.57E-13	-31.29961776
chr9	43286934	43286934	-	0	0	-27.75765991
chr9	43745946	43745946	+	0	0	-37.38775806
chr9	43746091	43746091	-	0	0	-34.62465638
chr9	43747147	43747147	+	0	0	-25.68032852
chr9	43747178	43747178	+	0	0	-32.45671824
chr9	43747179	43747179	-	0	0	-33.04954594
chr9	43990200	43990200	+	0	0	-33.25778778
chr9	43990217	43990217	+	0	0	-31.45007167
chr9	43990227	43990227	+	0	0	-30.73979325
chr9	44044486	44044486	+	0	0	-41.0235238
chr9	44044638	44044638	-	0	0	-29.96323529
chr9	44085444	44085444	+	3.89E-14	2.06E-12	-33.037553
chr9	44131283	44131283	+	4.36E-05	0.00061215	-32.50355619
chr9	44268378	44268378	-	4.14E-05	0.00058518	-27.21238938
chr9	44311150	44311150	+	0	0	-25.92595278

chr9	44327853	44327853	-	2.48E-07	5.71E-06	-32.02787714
chr9	44485673	44485673	+	0	0	-26.64025165
chr9	44486391	44486391	+	0	0	-32.01463754
chr9	44489968	44489968	+	0	0	-31.10129053
chr9	44505966	44505966	-	0	0	-29.05559442
chr9	44505997	44505997	+	0	0	-27.82142562
chr9	44506051	44506051	-	0	0	-28.92009494
chr9	44506077	44506077	+	0	0	-38.74058022
chr9	44506078	44506078	-	3.07E-05	0.00044922	-28.74039541
chr9	44506086	44506086	+	0	0	-37.61086632
chr9	44723362	44723362	+	0	0	-33.68416493
chr9	44723525	44723525	-	0	0	-33.14143218
chr9	44798747	44798747	+	0	0	-26.06613245
chr9	45136891	45136891	-	0	0	-27.98313349
chr9	45138027	45138027	+	0	0	-28.98754811
chr9	45370942	45370942	-	5.71E-11	2.19E-09	-28.5879108
chr9	45370959	45370959	+	0	0	-35.07138423
chr9	45405834	45405834	-	3.92E-12	1.70E-10	-26.27564983
chr9	45407830	45407830	-	0.00049949	0.00497048	-30.52325581
chr9	45447806	45447806	+	0	0	-28.50250049
chr9	45447807	45447807	-	0	0	-28.07809451
chr9	45447910	45447910	-	0	0	-32.85232558
chr9	45555284	45555284	+	0	0	-27.04697007
chr9	45555318	45555318	+	0	0	-25.06944975
chr9	45555328	45555328	-	0	0	-37.62189029
chr9	45935930	45935930	+	0	0	-39.52505965
chr9	45935963	45935963	-	0	0	-37.94018618
chr9	45935969	45935969	-	0	0	-43.11600574
chr9	45936014	45936014	+	0	0	-40.13317072
chr9	45936077	45936077	-	0	0	-39.72068565
chr9	45936086	45936086	+	0	0	-38.9379688
chr9	45936087	45936087	-	0	0	-35.89237675
chr9	45936119	45936119	+	0	0	-32.09889594
chr9	45936120	45936120	-	0	0	-29.48780931
chr9	45936131	45936131	+	0	0	-37.38104791
chr9	45936132	45936132	-	0	0	-28.27747082
chr9	45936136	45936136	+	0	0	-38.66178052
chr9	45936137	45936137	-	0	0	-29.28718325
chr9	45936149	45936149	-	0	0	-34.1154246
chr9	45936152	45936152	+	0	0	-30.57954088
chr9	45936201	45936201	-	0	0	-34.86338811



chr9	45994243	45994243	-	2.44E-05	0.00036714	-26.65804783
chr9	46015978	46015978	+	3.39E-07	7.61E-06	-29.68709257
chr9	46083931	46083931	+	1.64E-11	6.66E-10	-47.25643897
chr9	46328731	46328731	+	1.11E-07	2.70E-06	-27.93103448
chr9	46328742	46328742	+	5.37E-12	2.30E-10	-36.31891493
chr9	46328753	46328753	+	2.22E-16	1.43E-14	-37.78418075
chr9	46329921	46329921	-	2.13E-06	4.10E-05	-26.12676056
chr9	46334776	46334776	-	0	0	-25.2552757
chr9	47363224	47363224	+	0.00061461	0.00590935	-25.33333333
chr9	48647921	48647921	+	0	0	-25.35513312
chr9	48647987	48647987	-	0	0	-26.59631421
chr9	48674531	48674531	+	0	0	-27.95839736
chr9	48674538	48674538	+	0	0	-32.55220623
chr9	48674572	48674572	+	0	0	-27.17435807
chr9	48674641	48674641	-	0	0	-31.63854243
chr9	48674646	48674646	-	0	0	-26.23595454
chr9	48675251	48675251	+	2.50E-08	6.76E-07	-25.29926649
chr9	48675485	48675485	-	3.24E-10	1.13E-08	-37.96156086
chr9	48728355	48728355	+	0	0	-28.54902846
chr9	48728395	48728395	+	0	0	-33.22294312
chr9	48728551	48728551	-	0	0	-44.21659634
chr9	48823134	48823134	+	0.00042894	0.00437257	-28.0952381
chr9	48823145	48823145	+	0	0	-36.75131622
chr9	48823151	48823151	+	0	0	-36.20581722
chr9	48823164	48823164	+	0	0	-33.27729735
chr9	48860195	48860195	+	1.71E-09	5.46E-08	-29.97896213
chr9	48860398	48860398	+	0	0	-27.22752035
chr9	48860399	48860399	-	0	0	-30.9092721
chr9	50333806	50333806	+	1.73E-05	0.00026939	-27.35799107
chr9	50442807	50442807	+	8.14E-12	3.42E-10	-28.50020094
chr9	50478986	50478986	-	1.15E-06	2.34E-05	-38.4045584
chr9	50486752	50486752	+	3.95E-13	1.90E-11	-26.20570764
chr9	50746068	50746068	+	1.11E-16	7.26E-15	-33.52232459
chr9	50884425	50884425	-	1.90E-05	0.00029316	-27.65538946
chr9	50970550	50970550	+	4.55E-06	8.15E-05	-26.62856017
chr9	51279414	51279414	-	0	0	-30.38026089
chr9	51279422	51279422	-	0	0	-31.5292507
chr9	51279428	51279428	-	0	0	-33.61259138
chr9	51279430	51279430	-	0	0	-32.28153141
chr9	51293420	51293420	+	4.69E-10	1.61E-08	-25.19653457
chr9	52093456	52093456	+	9.40E-08	2.32E-06	-26.54220779

chr9	52680063	52680063	-	9.78E-06	0.00016214	-29.26977688
chr9	54503040	54503040	+	1.60E-06	3.16E-05	-27.35022496
chr9	54503084	54503084	+	5.11E-10	1.75E-08	-44.16729655
chr9	54970475	54970475	-	0	0	-28.36999065
chr9	55044464	55044464	-	0	0	-31.0619443
chr9	55369547	55369547	-	0.00092734	0.00830111	-30.43478261
chr9	55430028	55430028	+	0.00015456	0.00183658	-30.11413521
chr9	55430213	55430213	+	0	0	-28.95622896
chr9	55430214	55430214	-	2.44E-10	8.68E-09	-41.87850467
chr9	55430285	55430285	-	0	0	-31.78266896
chr9	56118826	56118826	-	5.49E-09	1.64E-07	-40.29289912
chr9	56141908	56141908	+	0	0	-26.92457857
chr9	56498071	56498071	+	6.65E-07	1.41E-05	-35.92544051
chr9	56564372	56564372	+	0	0	-25.67067085
chr9	56592910	56592910	-	0	0	-25.52536509
chr9	56865157	56865157	-	0	0	-32.11729599
chr9	56882301	56882301	+	4.77E-15	2.75E-13	-28.90695715
chr9	56897761	56897761	-	0	0	-47.66230424
chr9	56897794	56897794	-	0	0	-44.13351905
chr9	56897809	56897809	-	0	0	-40.84971985
chr9	57278851	57278851	+	4.37E-06	7.86E-05	-32.94736842
chr9	57278893	57278893	+	5.16E-05	0.00070938	-28.99896801
chr9	57342908	57342908	+	9.82E-05	0.00124101	-33.61702128
chr9	57420458	57420458	-	9.21E-15	5.17E-13	-32.07425102
chr9	57631858	57631858	+	4.22E-09	1.28E-07	-29.45057322
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chr9	57798988	57798988	-	0	0	-28.25603409
chr9	57799026	57799026	-	0	0	-31.46648673
chr9	57799082	57799082	-	0	0	-35.22657223
chr9	57901248	57901248	-	1.47E-10	5.35E-09	-25.5491162
chr9	57950070	57950070	+	0	0	-30.7865822
chr9	57950079	57950079	+	0	0	-28.15502463
chr9	57950080	57950080	-	1.50E-14	8.25E-13	-28.20368915
chr9	57997713	57997713	+	0	0	-35.78842199
chr9	58112978	58112978	+	8.88E-16	5.45E-14	-35.78313253
chr9	58128712	58128712	+	4.19E-07	9.24E-06	-29.57080734
chr9	58311885	58311885	+	0	0	-28.9458838
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chr9	58311897	58311897	-	0	0	-25.58953123
chr9	58311908	58311908	+	0	0	-25.40419128
chr9	58311909	58311909	-	0	0	-31.69677962

chr9	58311921	58311921	-	0	0	-32.82387215
chr9	58311951	58311951	+	0	0	-37.14285714
chr9	58311952	58311952	-	0	0	-34.22493007
chr9	58312020	58312020	+	0	0	-30.7139859
chr9	58312157	58312157	+	0	0	-25.04995645
chr9	58477870	58477870	+	2.19E-08	5.98E-07	-31.53396311
chr9	58490156	58490156	+	0	0	-25.24514668
chr9	58490168	58490168	+	0	0	-31.55191257
chr9	58490180	58490180	+	0	0	-39.06497399
chr9	58490194	58490194	+	0	0	-33.47439938
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chr9	58490221	58490221	-	0	0	-34.52978056
chr9	58490227	58490227	-	0	0	-27.14849646
chr9	58490247	58490247	-	0	0	-26.78510444
chr9	58490257	58490257	-	0	0	-44.12156954
chr9	58554254	58554254	-	1.02E-07	2.49E-06	-27.31891764
chr9	59680713	59680713	-	0	0	-28.1190629
chr9	59680724	59680724	-	0	0	-27.99266706
chr9	60602241	60602241	-	0	0	-25.15671642
chr9	60740748	60740748	-	0	0	-27.61424175
chr9	60743110	60743110	-	2.73E-07	6.23E-06	-27.17391304
chr9	60743132	60743132	-	4.91E-07	1.07E-05	-32.2327044
chr9	60940424	60940424	+	0	0	-27.86553508
chr9	60940476	60940476	-	0	0	-27.51140904
chr9	60990160	60990160	-	0	0	-28.33170842
chr9	60990172	60990172	-	0	0	-26.90796604
chr9	61000897	61000897	+	0	0	-26.44153675
chr9	61016516	61016516	-	0.00048635	0.00486053	-26.63719259
chr9	61064885	61064885	+	2.12E-09	6.70E-08	-33.78834978
chr9	61064904	61064904	+	8.79E-14	4.51E-12	-38.33938294
chr9	61366247	61366247	-	2.42E-05	0.00036435	-34.04876374
chr9	61368656	61368656	-	0	0	-35.43542293
chr9	61393362	61393362	+	0	0	-25.97188402
chr9	61509885	61509885	+	4.69E-07	1.03E-05	-26.14474146
chr9	61510083	61510083	+	0	0	-31.32435231
chr9	61510111	61510111	+	0	0	-32.8208273
chr9	61510113	61510113	+	9.27E-14	4.74E-12	-25.95691808
chr9	61533477	61533477	+	1.56E-11	6.36E-10	-36.74544633
chr9	61596802	61596802	+	3.83E-11	1.50E-09	-26.08749382
chr9	61877813	61877813	+	0	0	-36.99312515
chr9	61877872	61877872	-	0	0	-31.06325766

chr9	61877892	61877892	-	0	0	-47.13823291
chr9	61877909	61877909	-	0	0	-48.27993175
chr9	61886108	61886108	-	0	0	-25.06365917
chr9	62018689	62018689	+	2.42E-11	9.65E-10	-27.58755625
chr9	62018806	62018806	+	0	0	-28.68463139
chr9	62349645	62349645	+	6.57E-11	2.50E-09	-26.43057223
chr9	62364244	62364244	+	0.00085611	0.00777342	-25.62804284
chr9	62368063	62368063	+	0	0	-26.32960622
chr9	62368249	62368249	-	7.45E-11	2.81E-09	-29.93013765
chr9	62521518	62521518	+	1.13E-09	3.69E-08	-25.82951945
chr9	62522463	62522463	+	0	0	-35.21294407
chr9	62523024	62523024	-	1.89E-08	5.21E-07	-27.21464465
chr9	62614123	62614123	-	5.34E-13	2.53E-11	-27.94507724
chr9	62767420	62767420	+	3.78E-05	0.0005392	-34.28872497
chr9	63131736	63131736	-	0	0	-26.71325284
chr9	63187520	63187520	+	5.26E-08	1.35E-06	-34.94265631
chr9	63200781	63200781	+	0	0	-30.44719041
chr9	63241880	63241880	+	9.21E-08	2.28E-06	-28.9719209
chr9	63723543	63723543	+	0	0	-29.99256116
chr9	63723544	63723544	-	0	0	-25.60720491
chr9	63723546	63723546	+	0	0	-25.59457058
chr9	63723576	63723576	+	0	0	-55.1300501
chr9	63723590	63723590	+	0	0	-35.53424625
chr9	63726264	63726264	-	1.55E-06	3.06E-05	-27.13326071
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chr9	63803499	63803499	+	0	0	-34.18327321
chr9	63803500	63803500	-	0	0	-30.56670036
chr9	63803517	63803517	-	0	0	-34.99467376
chr9	63877033	63877033	+	0	0	-25.08145998
chr9	63927720	63927720	+	0	0	-36.38756108
chr9	63927721	63927721	-	0	0	-33.16949291
chr9	63927768	63927768	+	2.22E-16	1.43E-14	-31.22681084
chr9	63957845	63957845	-	0	0	-26.64172814
chr9	63959476	63959476	+	1.33E-08	3.74E-07	-31.24161074
chr9	63965788	63965788	+	5.56E-06	9.77E-05	-26.08636487
chr9	63965996	63965996	-	0	0	-35.41915726
chr9	63970435	63970435	+	0	0	-34.3437333
chr9	63970459	63970459	+	0	0	-32.5555671
chr9	63970460	63970460	-	2.22E-16	1.43E-14	-25.0499232
chr9	63970495	63970495	-	0	0	-28.19993637
chr9	63970499	63970499	+	4.31E-14	2.27E-12	-35.21790342

chr9	63970500	63970500	-	0	0	-31.46451033
chr9	63970505	63970505	+	0	0	-47.62974099
chr9	63973698	63973698	+	0	0	-27.21203659
chr9	63973699	63973699	-	0	0	-26.45125331
chr9	63973732	63973732	+	0	0	-32.10824646
chr9	63973733	63973733	-	0	0	-25.63785444
chr9	63973896	63973896	-	9.35E-10	3.10E-08	-38.2740448
chr9	63980651	63980651	-	0	0	-32.47390459
chr9	63998142	63998142	-	0.00021398	0.00242758	-27.16836735
chr9	64017453	64017453	-	0	0	-27.89257146
chr9	64045428	64045428	-	0	0	-35.47107083
chr9	64045715	64045715	-	1.17E-11	4.83E-10	-26.53773838
chr9	64048638	64048638	-	0	0	-26.81047304
chr9	64049725	64049725	+	2.07E-07	4.83E-06	-32.12341198
chr9	64066940	64066940	+	0	0	-26.8499729
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chr9	64067023	64067023	-	9.08E-07	1.88E-05	-29.36078007
chr9	64085099	64085099	-	0	0	-29.56420216
chr9	64085250	64085250	-	3.11E-08	8.30E-07	-26.08997937
chr9	64457687	64457687	-	1.88E-07	4.41E-06	-28.32722833
chr9	64617566	64617566	-	0.00011835	0.00145793	-54.61538462
chr9	64918723	64918723	-	8.38E-10	2.79E-08	-35.97296395
chr9	64918745	64918745	-	3.10E-08	8.27E-07	-36.10619469
chr9	64960410	64960410	+	0	0	-27.0907126
chr9	65102867	65102867	+	0	0	-26.08448672
chr9	65102875	65102875	+	0	0	-33.41766424
chr9	65102876	65102876	-	0	0	-37.16165158
chr9	65102885	65102885	+	2.77E-07	6.32E-06	-30.45839958
chr9	65102886	65102886	-	0	0	-30.68094828
chr9	65102902	65102902	+	0	0	-45.71428571
chr9	65102904	65102904	+	1.62E-08	4.52E-07	-37.64090177
chr9	65102907	65102907	+	7.49E-10	2.51E-08	-40.23809524
chr9	65103067	65103067	-	1.78E-12	8.02E-11	-26.04038855
chr9	65520205	65520205	+	0	0	-30.47545651
chr9	65520219	65520219	+	0	0	-39.32812084
chr9	65520235	65520235	+	0	0	-39.33744373
chr9	65520244	65520244	+	0	0	-29.92331102
chr9	65520329	65520329	-	0	0	-37.65215861
chr9	65520337	65520337	-	0	0	-34.66829294
chr9	65529823	65529823	+	0	0	-30.13942687
chr9	65529908	65529908	-	6.03E-10	2.04E-08	-29.71729126

chr9	65533256	65533256	+	3.75E-07	8.36E-06	-45.59748428
chr9	65546313	65546313	-	1.09E-09	3.59E-08	-33.12101911
chr9	65631230	65631230	-	0	0	-26.78560245
chr9	66078615	66078615	+	6.33E-15	3.61E-13	-27.55278643
chr9	66078616	66078616	-	0	0	-27.54299331
chr9	66088637	66088637	+	1.88E-06	3.67E-05	-25.5952381
chr9	66218525	66218525	+	0.00103792	0.00910491	-26.61370407
chr9	66514375	66514375	+	0	0	-30.35600472
chr9	66514400	66514400	+	0	0	-30.95172683
chr9	66514454	66514454	-	0	0	-28.10308946
chr9	66856004	66856004	+	0	0	-33.26979833
chr9	66856041	66856041	+	0	0	-47.16999098
chr9	66856042	66856042	-	0	0	-41.3377353
chr9	66856048	66856048	+	0	0	-34.64153324
chr9	66856049	66856049	-	0	0	-39.13459312
chr9	67870232	67870232	+	8.20E-08	2.05E-06	-42.39744535
chr9	69111890	69111890	+	0.00012302	0.00150785	-25.02913753
chr9	69259600	69259600	+	0	0	-27.38278065
chr9	69259611	69259611	+	0	0	-25.91852898
chr9	69259612	69259612	-	0	0	-25.67913424
chr9	69714245	69714245	+	0.00099943	0.00882686	-25.80901857
chr9	69714247	69714247	+	6.97E-05	0.00092219	-33.46590909
chr9	69714261	69714261	+	1.81E-05	0.00028132	-38.3497807
chr9	70112193	70112193	-	0.00020718	0.00236128	-34.60011344
chr9	70208829	70208829	-	2.96E-07	6.71E-06	-29.81084733
chr9	70208834	70208834	-	4.90E-13	2.33E-11	-42.07225167
chr9	70208838	70208838	-	6.90E-09	2.03E-07	-33.90984811
chr9	70832391	70832391	+	0	0	-31.82283345
chr9	71400312	71400312	+	6.74E-11	2.56E-09	-26.47665402
chr9	71400313	71400313	-	6.34E-10	2.14E-08	-27.46283926
chr9	72155268	72155268	+	7.72E-12	3.25E-10	-44.31724422
chr9	72812809	72812809	-	1.88E-08	5.18E-07	-43.26530612
chr9	72812815	72812815	-	6.27E-10	2.12E-08	-41.93733832
chr9	72812859	72812859	-	1.73E-10	6.26E-09	-36.97538768
chr9	73026382	73026382	+	0	0	-26.13431613
chr9	73026383	73026383	-	0	0	-30.35769135
chr9	73026397	73026397	+	0	0	-27.86960409
chr9	73026419	73026419	+	0	0	-42.11696269
chr9	73026452	73026452	-	1.93E-08	5.32E-07	-26.39840183
chr9	73055397	73055397	+	0	0	-28.51840304
chr9	73094634	73094634	-	0	0	-42.39245958

chr9	73094665	73094665	-	1.93E-08	5.30E-07	-26.42149929
chr9	73968961	73968961	-	2.60E-12	1.15E-10	-35.53254438
chr9	73969043	73969043	-	0	0	-25.51429628
chr9	74985664	74985664	-	1.89E-15	1.13E-13	-27.07732845
chr9	75070803	75070803	+	5.55E-16	3.46E-14	-27.25653207
chr9	75261325	75261325	-	1.68E-06	3.30E-05	-27.09533787
chr9	75363868	75363868	-	0	0	-27.31469269
chr9	78428911	78428911	+	9.53E-07	1.97E-05	-29.66101695
chr9	78846219	78846219	+	5.72E-06	0.00010017	-25.9840294
chr9	79821135	79821135	+	1.18E-08	3.34E-07	-27.75159997
chr9	88361710	88361710	-	2.58E-05	0.00038557	-30.41144902
chr9	92808900	92808900	-	6.30E-05	0.00084469	-29.88372093
chr9	95328317	95328317	+	6.64E-07	1.41E-05	-32.4639841
chr9	96288043	96288043	+	0.00023539	0.00263363	-30.76923077
chr9	96437422	96437422	+	0	0	-51.96296912
chr9	96437441	96437441	+	0	0	-52.22280203
chr9	96437511	96437511	-	0	0	-30.31403039
chr9	96527247	96527247	-	0	0	-25.58624283
chr9	96527271	96527271	-	0	0	-30.568316
chr9	96527280	96527280	-	0	0	-28.02761391
chr9	96633181	96633181	-	3.53E-05	0.00050778	-28.42714786
chr9	96705188	96705188	-	1.51E-06	3.01E-05	-28.69198312
chr9	96801567	96801567	-	8.21E-06	0.00013856	-39.40700809
chr9	96827100	96827100	+	5.93E-05	0.00080069	-35.60606061
chr9	96979631	96979631	+	0	0	-32.17418003
chr9	96979632	96979632	-	0	0	-26.83176313
chr9	98318572	98318572	-	0	0	-31.43855405
chr9	98318583	98318583	-	0	0	-31.40269766
chr9	98498242	98498242	+	0	0	-34.15459181
chr9	98498243	98498243	-	0	0	-32.2155803
chr9	102326934	102326934	+	5.78E-06	0.00010124	-25.14485344
chr9	102409570	102409570	-	0.00032675	0.00347966	31.45896657
chr9	102624784	102624784	-	0.00031302	0.00335639	-40.35476718
chr9	102643050	102643050	+	2.07E-07	4.83E-06	-50.16118633
chr9	102709880	102709880	+	0	0	-25.54679952
chr9	102709895	102709895	+	0	0	-34.35575114
chr9	102709939	102709939	-	0	0	-33.01620305
chr9	102710007	102710007	+	0	0	-29.65083632
chr9	102710008	102710008	-	0	0	-28.20981503
chr9	102710087	102710087	-	0	0	-31.85833753
chr9	102756459	102756459	+	7.01E-05	0.0009263	-38.64642631

chr9	102893501	102893501	+	4.09E-13	1.96E-11	-30.62169312
chr9	103057082	103057082	-	6.67E-09	1.96E-07	-26.07396704
chr9	103286972	103286972	-	6.12E-07	1.31E-05	-29.9249531
chr9	104088618	104088618	-	8.63E-14	4.42E-12	-31.62708293
chr9	106299291	106299291	-	3.31E-05	0.00047961	-43
chr9	106330813	106330813	+	2.16E-11	8.67E-10	-27.55505364
chr9	106330828	106330828	+	0	0	-42.70967122
chr9	106346366	106346366	+	0	0	-27.66389322
chr9	106353909	106353909	-	6.54E-07	1.39E-05	-26.49873142
chr9	106455409	106455409	+	2.10E-13	1.04E-11	-49.79919679
chr9	106455447	106455447	+	0	0	-54.7976564
chr9	106455448	106455448	-	0	0	-50.3262609
chr9	106455476	106455476	+	0	0	-51.76636194
chr9	106455568	106455568	-	0	0	-38.39887479
chr9	106455581	106455581	-	0	0	-40.05840822
chr9	106469634	106469634	+	4.77E-11	1.84E-09	-25.99401749
chr9	106647981	106647981	+	2.28E-06	4.36E-05	-26.55819084
chr9	106885504	106885504	-	0	0	-28.84575729
chr9	106885524	106885524	-	0	0	-29.52094149
chr9	106885532	106885532	+	6.03E-11	2.30E-09	-35.85406302
chr9	106885782	106885782	-	0.00035173	0.00370242	-28.98601399
chr9	106887697	106887697	+	1.04E-09	3.42E-08	-26.38803277
chr9	107308290	107308290	+	5.41E-12	2.31E-10	-29.15049067
chr9	107308483	107308483	-	2.63E-06	4.96E-05	-25.0035791
chr9	107334683	107334683	+	8.67E-07	1.80E-05	-30.55171547
chr9	107451622	107451622	-	0.00013363	0.00162007	-33.00248139
chr9	107479345	107479345	+	9.68E-06	0.00016082	-40.20979021
chr9	107479346	107479346	-	0	0	-28.43588474
chr9	107479523	107479523	-	2.25E-05	0.00034182	-52.97766749
chr9	107479566	107479566	-	2.62E-06	4.95E-05	-58.87096774
chr9	107512245	107512245	-	7.04E-05	0.00092983	40
chr9	107527208	107527208	+	0	0	-34.87869955
chr9	107527233	107527233	-	0	0	-31.5642572
chr9	107527236	107527236	-	0	0	-45.61483508
chr9	107527252	107527252	-	0	0	-32.19017337
chr9	107527255	107527255	-	0	0	-26.99629
chr9	107527281	107527281	-	0	0	-25.59373142
chr9	107550703	107550703	-	7.08E-07	1.50E-05	-26.6773376
chr9	107606822	107606822	-	1.43E-12	6.49E-11	-34.3537415
chr9	107628592	107628592	+	0	0	-33.63973411
chr9	107629001	107629001	-	0	0	-41.09626198



chr9	107630198	107630198	+	0	0	-36.68640679
chr9	107630273	107630273	-	0	0	-28.44495302
chr9	107630277	107630277	-	0	0	-41.18795646
chr9	107657635	107657635	+	1.80E-11	7.29E-10	-30.28858723
chr9	107668304	107668304	-	0	0	-28.6596017
chr9	107668329	107668329	-	0	0	-27.98469992
chr9	107677420	107677420	+	7.84E-09	2.29E-07	29.08045977
chr9	107723540	107723540	-	0	0	-31.02747828
chr9	107723777	107723777	-	4.08E-06	7.39E-05	-29.39615129
chr9	107735571	107735571	-	0	0	-25.18382282
chr9	107900215	107900215	+	0.00022104	0.00249526	-26.2295082
chr9	107901178	107901178	+	0	0	-26.09342228
chr9	107901179	107901179	-	0	0	-26.49652849
chr9	107901280	107901280	-	0	0	-27.46825442
chr9	107923242	107923242	+	1.33E-09	4.30E-08	-30.55116363
chr9	107923247	107923247	+	4.94E-13	2.35E-11	-33.83796141
chr9	108093991	108093991	-	9.54E-11	3.56E-09	-30.23495189
chr9	108106266	108106266	+	2.21E-09	6.97E-08	-28.75816993
chr9	108110360	108110360	-	0	0	-26.17599351
chr9	108115299	108115299	-	7.28E-08	1.83E-06	-39.79427188
chr9	108120032	108120032	-	0	0	-28.35222397
chr9	108160269	108160269	+	0	0	-32.77468801
chr9	108160281	108160281	+	0	0	-34.92696583
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chr9	108160409	108160409	-	0	0	-25.42721519
chr9	108197722	108197722	-	2.83E-12	1.25E-10	-35.55053492
chr9	108297257	108297257	+	3.82E-08	1.00E-06	-25.62436764
chr9	108574018	108574018	+	0	0	-30.22586697
chr9	108587789	108587789	-	5.06E-06	8.98E-05	-30.34177215
chr9	108596829	108596829	-	0	0	-27.69540219
chr9	108662857	108662857	-	4.28E-13	2.05E-11	-25.93389058
chr9	108988206	108988206	-	0	0	-32.98661996
chr9	108988212	108988212	-	2.22E-16	1.43E-14	-32.07688529
chr9	109100287	109100287	-	0	0	-31.61277036
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chr9	110625092	110625092	+	0	0	-34.39984806
chr9	110625109	110625109	+	0	0	-37.56288213
chr9	110625129	110625129	+	3.28E-14	1.75E-12	-30.16049599
chr9	110625136	110625136	+	0	0	-40.80601761
chr9	110625256	110625256	-	6.28E-08	1.60E-06	-29.58350515
chr9	110625302	110625302	-	1.58E-12	7.13E-11	-43.12479635

chr9	110625346	110625346	+	7.12E-12	3.01E-10	-27.43048804
chr9	110635578	110635578	-	2.18E-05	0.00033234	-40.29322548
chr9	110643749	110643749	+	5.54E-11	2.12E-09	-30.94213589
chr9	110666559	110666559	+	0	0	-25.38994165
chr9	110666560	110666560	-	0	0	-29.13430879
chr9	110684608	110684608	+	0	0	-26.01340307
chr9	110684690	110684690	-	0	0	-31.48592684
chr9	110726002	110726002	-	4.88E-06	8.68E-05	-26.99360341
chr9	110726012	110726012	-	5.33E-05	0.00073008	-26.00170503
chr9	110726027	110726027	+	0.00011027	0.00137136	-26.02712603
chr9	110857705	110857705	+	8.52E-07	1.78E-05	-54.54545455
chr9	110857727	110857727	+	0.00017752	0.00206921	-47.13804714
chr9	110858251	110858251	+	1.53E-10	5.59E-09	-30.91369601
chr9	110864425	110864425	+	1.11E-16	7.26E-15	-25.13818888
chr9	110873769	110873769	+	0	0	-28.00966686
chr9	110873844	110873844	-	0	0	-25.84138842
chr9	110873854	110873854	-	0	0	-30.5153521
chr9	110873864	110873864	-	0	0	-29.74492546
chr9	110873869	110873869	-	0	0	-26.39311308
chr9	110873886	110873886	-	0	0	-27.32022688
chr9	110873900	110873900	-	0.00013133	0.00159587	-32
chr9	110873906	110873906	+	0	0	-30.10692783
chr9	110873907	110873907	-	6.11E-06	0.00010631	-38.68686869
chr9	110873911	110873911	-	9.30E-05	0.00118409	-33.05555556
chr9	110874045	110874045	-	0	0	-26.67495672
chr9	110879557	110879557	+	0	0	-28.48112418
chr9	110890249	110890249	+	0	0	-33.65979193
chr9	110890341	110890341	-	0	0	-25.31718761
chr9	110893696	110893696	+	2.42E-12	1.07E-10	-55.25541126
chr9	110893724	110893724	+	2.35E-10	8.37E-09	-48.87763713
chr9	110946608	110946608	+	1.11E-16	7.26E-15	-33.72175141
chr9	111055662	111055662	-	1.10E-11	4.55E-10	-28.70072614
chr9	111055682	111055682	-	2.84E-14	1.53E-12	-28.48051501
chr9	111088632	111088632	-	0	0	-27.2015022
chr9	111311383	111311383	-	0.00045902	0.00462971	28.07692308
chr9	112187803	112187803	-	0	0	-28.29056291
chr9	112187806	112187806	-	0	0	-39.96986179
chr9	112187812	112187812	-	0	0	-40.03615702
chr9	114526268	114526268	-	0.00107626	0.00937679	-32.50469043
chr9	114559743	114559743	+	1.76E-05	0.00027383	-38.92570631
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chr9	114740594	114740594	-	0	0	-41.0434604
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chr9	114758208	114758208	-	1.12E-09	3.67E-08	-25.16761217
chr9	114795627	114795627	-	0	0	-28.12951155
chr9	115038294	115038294	+	0	0	-45.54973822
chr9	115038298	115038298	+	6.28E-14	3.27E-12	-27.38238526
chr9	115088821	115088821	+	0	0	-31.8118996
chr9	115306533	115306533	-	0	0	-31.14825823
chr9	115314900	115314900	-	0	0	-32.53083422
chr9	115543859	115543859	-	0	0	-31.97848987
chr9	115914148	115914148	+	4.55E-07	9.98E-06	-34.27848101
chr9	115914342	115914342	-	0	0	-31.34058664
chr9	116170107	116170107	+	1.54E-14	8.48E-13	-33.65934066
chr9	116228588	116228588	-	1.10E-08	3.13E-07	-44.54660748
chr9	116228638	116228638	-	9.75E-05	0.00123423	-29.85098288
chr9	116402067	116402067	-	0.00079992	0.00734907	-28.66666667
chr9	116762486	116762486	-	3.66E-15	2.14E-13	-27.87708375
chr9	118458182	118458182	-	1.57E-10	5.72E-09	-32.01318578
chr9	118458201	118458201	-	6.76E-14	3.50E-12	-42.62017138
chr9	118468314	118468314	+	0.00013647	0.00164946	-29.35635793
chr9	118468315	118468315	-	0	0	-46.38608659
chr9	118468350	118468350	+	2.95E-07	6.70E-06	-35.34539474
chr9	118468557	118468557	-	1.89E-06	3.68E-05	-26.71568627
chr9	118468573	118468573	+	0	0	-28.4930432
chr9	118468591	118468591	+	0	0	-30.4552809
chr9	118468592	118468592	-	0	0	-32.81790815
chr9	118468596	118468596	+	0	0	-36.05547712
chr9	118468597	118468597	-	0	0	-35.07983919
chr9	118479691	118479691	-	0	0	-47.42401361
chr9	118480426	118480426	+	8.96E-12	3.75E-10	-45.93241552
chr9	118498072	118498072	+	2.37E-10	8.45E-09	-27.99032496
chr9	118622648	118622648	+	4.27E-11	1.66E-09	-36.85893391
chr9	118689056	118689056	+	0	0	-26.14743924
chr9	118927988	118927988	-	9.75E-08	2.40E-06	-38.80385488
chr9	119146607	119146607	+	0	0	25.77875137
chr9	119418197	119418197	+	0	0	-28.71718708
chr9	119477732	119477732	-	0	0	-26.05534591
chr9	119963074	119963074	-	1.67E-15	9.99E-14	-32.35960145
chr9	119963082	119963082	+	2.22E-16	1.43E-14	-30.3572327
chr9	119963083	119963083	-	2.56E-11	1.02E-09	-31.8965733
chr9	119963123	119963123	+	0	0	-31.79328711

chr9	119963308	119963308	-	1.49E-07	3.56E-06	-28.04103373
chr9	119984865	119984865	+	1.11E-15	6.76E-14	-28.33547583
chr9	120010912	120010912	+	6.48E-08	1.65E-06	-29.53981502
chr9	120024388	120024388	+	0.00064003	0.00611219	-44.69496021
chr9	120569505	120569505	+	7.69E-06	0.00013063	-26.69753086
chr9	120603218	120603218	-	0.00037165	0.00387922	-32.78985507
chr9	120619271	120619271	+	1.12E-12	5.15E-11	-25.00442087
chr9	120619640	120619640	-	1.64E-11	6.65E-10	-26.14823307
chr9	120814853	120814853	-	0	0	-37.11004057
chr9	120814878	120814878	-	0	0	-33.11967546
chr9	121330725	121330725	+	3.06E-07	6.93E-06	-25.43072191
chr9	121361678	121361678	+	0	0	-25.22849631
chr9	121372117	121372117	-	5.33E-15	3.06E-13	-32.01715946
chr9	121372127	121372127	-	6.15E-10	2.08E-08	-25.14529124
chr9	121372460	121372460	+	0	0	-28.09894032
chr9	121890851	121890851	+	4.44E-16	2.79E-14	-26.99488106
chr9	122199302	122199302	-	0	0	-27.21163221
chr9	123157023	123157023	+	0	0	-29.13521616
chr9	123157171	123157171	-	1.81E-14	9.88E-13	-26.41350361
chr9	123259444	123259444	+	1.16E-11	4.79E-10	-25.0074664
chr9	123478146	123478146	-	0	0	-29.93244817
chr9	124126054	124126054	-	0	0	-27.74004926
chrX	7573547	7573547	-	8.04E-09	2.34E-07	-25.74955335
chrX	7573550	7573550	-	6.17E-10	2.09E-08	-26.59574468
chrX	7639333	7639333	-	0	0	-27.62418674
chrX	7734079	7734079	-	1.20E-10	4.42E-09	-38.42494715
chrX	7734096	7734096	-	6.63E-07	1.41E-05	-33.54237436
chrX	7765200	7765200	+	1.85E-12	8.33E-11	-26.35999842
chrX	7765249	7765249	+	5.93E-13	2.80E-11	-28.32756212
chrX	7765290	7765290	-	2.08E-09	6.59E-08	-39.30262591
chrX	7765306	7765306	+	0	0	-30.24344569
chrX	7765307	7765307	-	1.06E-06	2.16E-05	-30.53375196
chrX	7765323	7765323	+	0	0	-32.87844079
chrX	7765464	7765464	+	2.34E-11	9.33E-10	-64.15711948
chrX	7765525	7765525	-	0	0	-37.16395853
chrX	7823045	7823045	-	7.34E-14	3.79E-12	-38.73062421
chrX	7923251	7923251	-	9.33E-13	4.32E-11	-25.22841144
chrX	7928510	7928510	-	2.60E-08	7.02E-07	-36.25840179
chrX	8219771	8219771	+	1.37E-07	3.29E-06	-26.23138603
chrX	8219905	8219905	+	1.52E-06	3.02E-05	-42.35109718
chrX	8219906	8219906	-	0	0	-30.49414979

chrX	8220096	8220096	-	1.22E-12	5.59E-11	-27.6884609
chrX	8892038	8892038	-	1.82E-11	7.35E-10	-60.47420532
chrX	8991494	8991494	+	1.27E-05	0.00020505	-28.13457695
chrX	9200166	9200166	+	5.07E-06	8.99E-05	-38.46153846
chrX	9200209	9200209	+	0.00027738	0.00303035	-29.14979757
chrX	9247278	9247278	+	1.22E-15	7.41E-14	-27.73011719
chrX	10992104	10992104	-	1.16E-05	0.00018927	-30.61062649
chrX	11140307	11140307	-	1.31E-09	4.24E-08	-37.69664786
chrX	11492177	11492177	-	1.04E-06	2.13E-05	-34.69764012
chrX	11492342	11492342	-	0	0	-26.86341406
chrX	11492347	11492347	+	8.07E-08	2.02E-06	-31.67115903
chrX	11492348	11492348	-	3.61E-09	1.11E-07	-35.53180832
chrX	11492361	11492361	+	2.47E-05	0.00037012	-25.11258024
chrX	11492362	11492362	-	2.10E-07	4.90E-06	-31.33984726
chrX	11492366	11492366	+	9.72E-08	2.39E-06	-28.94341997
chrX	11492367	11492367	-	2.22E-08	6.05E-07	-30.21929825
chrX	11492373	11492373	-	1.31E-07	3.17E-06	-28.63738739
chrX	11550636	11550636	-	6.92E-06	0.00011889	-26.71990172
chrX	11632335	11632335	-	6.81E-08	1.72E-06	-25.09572901
chrX	11708268	11708268	+	3.28E-06	6.06E-05	-31.9047619
chrX	11735267	11735267	+	0	0	-30.56688508
chrX	11826929	11826929	+	0	0	-26.67909868
chrX	11826947	11826947	+	0	0	-35.51708541
chrX	11826948	11826948	-	0	0	-28.73896767
chrX	11826981	11826981	-	0	0	-30.00549576
chrX	11826995	11826995	+	0	0	-36.70952163
chrX	11826996	11826996	-	0	0	-33.68122665
chrX	11827000	11827000	+	0	0	-32.31354603
chrX	11827094	11827094	-	4.46E-14	2.35E-12	-28.47604085
chrX	11827105	11827105	-	0	0	-39.07600157
chrX	11887784	11887784	+	1.91E-08	5.26E-07	-31.67791273
chrX	11998495	11998495	+	3.33E-16	2.11E-14	-26.55288146
chrX	11998501	11998501	+	0	0	-29.18161723
chrX	11998503	11998503	+	0	0	-31.685053
chrX	11998504	11998504	-	0	0	-25.29245815
chrX	11998513	11998513	+	0	0	-30.75502871
chrX	12000346	12000346	+	2.16E-05	0.00032853	38.51976451
chrX	12008005	12008005	+	3.72E-05	0.00053155	-38.1127451
chrX	12137978	12137978	-	1.04E-11	4.32E-10	-26.54778149
chrX	12138223	12138223	-	2.65E-08	7.14E-07	31.59890957
chrX	12140040	12140040	+	0	0	-25.89649157

chrX	12152544	12152544	+	0	0	-35.01517376
chrX	12152545	12152545	-	0	0	-42.31580623
chrX	12152572	12152572	-	0	0	-46.76603074
chrX	12152582	12152582	+	0	0	-44.20372198
chrX	12152596	12152596	+	0	0	-43.28427914
chrX	12152597	12152597	-	0	0	-38.9301571
chrX	12152607	12152607	+	0	0	-41.37942066
chrX	12152608	12152608	-	0	0	-38.16548026
chrX	12152615	12152615	+	0	0	-46.33535081
chrX	12152616	12152616	-	0	0	-36.74848935
chrX	12152629	12152629	-	0	0	-27.87340208
chrX	12154910	12154910	+	0	0	-30.68931649
chrX	12154964	12154964	+	0	0	-32.85543608
chrX	12155008	12155008	+	0	0	-25.09943711
chrX	12155009	12155009	-	0	0	-26.6786633
chrX	12155308	12155308	-	0	0	-25.89110287
chrX	12260210	12260210	+	8.33E-09	2.42E-07	-25.46045316
chrX	12286794	12286794	+	6.28E-05	0.00084247	-37.61904762
chrX	12466639	12466639	-	0	0	-29.99649578
chrX	12466808	12466808	-	1.93E-08	5.33E-07	-32.7972028
chrX	12467495	12467495	+	0.00023047	0.00258647	-27.33990148
chrX	12467550	12467550	-	6.31E-09	1.86E-07	-47.96633941
chrX	12587823	12587823	-	8.36E-09	2.43E-07	-27.22561786
chrX	13047634	13047634	+	0	0	-29.88577023
chrX	13047683	13047683	-	4.63E-13	2.21E-11	-27.26561889
chrX	13345272	13345272	+	8.29E-12	3.48E-10	-54.38233264
chrX	13345277	13345277	+	5.57E-05	0.0007578	-28.70018975
chrX	13486224	13486224	+	1.84E-12	8.28E-11	-27.95068475
chrX	13486330	13486330	-	0	0	-30.09056128
chrX	13486347	13486347	-	0	0	-38.02819059
chrX	13486351	13486351	-	0	0	-30.1152206
chrX	13486377	13486377	+	1.28E-14	7.07E-13	-28.13311688
chrX	13486379	13486379	+	2.96E-14	1.59E-12	-27.48158336
chrX	13486380	13486380	-	1.78E-11	7.20E-10	-25.14872346
chrX	13486447	13486447	+	0	0	-31.62390557
chrX	13486448	13486448	-	0	0	-25.32078436
chrX	13486460	13486460	+	7.99E-15	4.51E-13	-25.2162572
chrX	13486470	13486470	+	0	0	-28.48623155
chrX	13486495	13486495	+	4.44E-16	2.79E-14	-25.55353441
chrX	13486513	13486513	-	0	0	-29.02500674
chrX	13486523	13486523	-	0	0	-25.0420461

chrX	18402480	18402480	-	1.69E-05	0.00026477	-30.86142322
chrX	20414658	20414658	+	8.68E-06	0.00014583	-29.32731747
chrX	20862650	20862650	-	1.55E-07	3.69E-06	-26.08094717
chrX	36808033	36808033	-	4.84E-05	0.00067086	-32.14285714
chrX	36833846	36833846	-	0.00072967	0.0068112	-26.81318681
chrX	36833854	36833854	-	3.49E-06	6.41E-05	-36.996337
chrX	37052581	37052581	-	1.20E-07	2.92E-06	-47.5862069
chrX	37484630	37484630	-	3.98E-06	7.22E-05	-36.37387387
chrX	37832159	37832159	+	0.00016547	0.00194784	-38.11111111
chrX	38485670	38485670	+	0	0	-27.2580275
chrX	38486544	38486544	-	0	0	-27.71485854
chrX	38641523	38641523	-	1.11E-16	7.26E-15	-32.75701982
chrX	43844155	43844155	-	0.00049459	0.00492939	-26.16780045
chrX	48033563	48033563	-	3.81E-05	0.00054298	-30.55068836
chrX	48033682	48033682	-	4.61E-09	1.39E-07	-25.05129142
chrX	48285983	48285983	-	0	0	-25.02699839
chrX	48341467	48341467	+	3.53E-05	0.00050717	-25.97402597
chrX	49288066	49288066	+	0.00069038	0.00650678	-27.92553191
chrX	51018018	51018018	-	0.00019298	0.00222262	-38.23529412
chrX	51018041	51018041	-	2.32E-05	0.00035097	-40.78431373
chrX	51679915	51679915	-	1.25E-14	6.95E-13	-27.69130372
chrX	52164334	52164334	-	0.00014361	0.00172404	-28.57142857
chrX	52793109	52793109	+	7.53E-07	1.59E-05	-35.93711619
chrX	52793140	52793140	-	2.88E-07	6.55E-06	-38.7012987
chrX	53241275	53241275	+	1.76E-12	7.94E-11	-25.6019656
chrX	56607382	56607382	+	2.23E-08	6.08E-07	-34.70407999
chrX	56827618	56827618	-	2.97E-12	1.31E-10	-33.10646934
chrX	58038249	58038249	+	0.00020809	0.00237034	-25.10344828
chrX	60548287	60548287	+	5.35E-05	0.000732	-25.76923077
chrX	60773420	60773420	-	3.79E-05	0.00054059	-31.11111111
chrX	70478853	70478853	+	9.78E-05	0.00123695	-25.14690265
chrX	71816265	71816265	-	2.49E-13	1.22E-11	-36.11243829
chrX	72986737	72986737	+	3.46E-05	0.00049891	-38.15789474
chrX	73064150	73064150	+	0	0	-38.27955425
chrX	73064153	73064153	+	0	0	-38.46073332
chrX	73064233	73064233	-	0	0	-46.03394562
chrX	73064244	73064244	-	0	0	-54.46504689
chrX	73064264	73064264	-	0	0	-47.2047219
chrX	73064269	73064269	-	0	0	-52.04787326
chrX	73064271	73064271	-	0	0	-58.4729064
chrX	73064273	73064273	+	0	0	-57.33452594

chrX	73064274	73064274	-	0	0	-48.1053292
chrX	73064276	73064276	+	7.78E-13	3.63E-11	-36.59648445
chrX	73064292	73064292	+	0	0	-47.15437788
chrX	73570519	73570519	-	0.00102924	0.00904258	-38.14814815
chrX	73594661	73594661	+	0	0	-38.05313557
chrX	73594698	73594698	-	1.89E-15	1.13E-13	-27.67507003
chrX	73639769	73639769	+	7.18E-08	1.81E-06	-27.72326419
chrX	73823831	73823831	+	0	0	-26.35062612
chrX	73823931	73823931	+	0	0	-26.68861545
chrX	73823935	73823935	+	0	0	-29.27953738
chrX	73824245	73824245	-	1.38E-05	0.00022036	-26.23188406
chrX	75156071	75156071	-	3.08E-12	1.35E-10	-26.53508772
chrX	75874103	75874103	+	0	0	-30.10915916
chrX	82438374	82438374	+	3.13E-08	8.36E-07	-31.56722201
chrX	89610983	89610983	+	6.97E-12	2.95E-10	-25.81616458
chrX	93988741	93988741	-	3.49E-11	1.37E-09	-26.45687646
chrX	94547671	94547671	-	0	0	-32.44004919
chrX	94866773	94866773	+	0	0	-25.71468397
chrX	94990276	94990276	-	0.00028807	0.0031283	-26.02445827
chrX	94990554	94990554	-	0.00010622	0.00132809	-26.10755085
chrX	95445082	95445082	-	0.00027305	0.00298937	-25.10928962
chrX	96025764	96025764	+	0	0	-33.05157678
chrX	98151525	98151525	-	1.64E-05	0.00025811	-30.27272727
chrX	98783974	98783974	+	4.09E-10	1.42E-08	-25.49838921
chrX	99218393	99218393	+	0	0	-30.98515644
chrX	99218445	99218445	-	0	0	-30.86561454
chrX	99218473	99218473	-	5.55E-16	3.46E-14	-28.67351331
chrX	99291741	99291741	-	1.06E-05	0.00017373	-25.43824164
chrX	99291778	99291778	+	5.47E-06	9.62E-05	-30.14522351
chrX	99433893	99433893	+	0	0	-26.05330562
chrX	99434059	99434059	+	6.21E-07	1.33E-05	-25.09944198
chrX	99434060	99434060	-	0	0	-25.92256778
chrX	99442844	99442844	-	0	0	-41.13849765
chrX	99442852	99442852	-	0	0	-35.35280971
chrX	99443278	99443278	+	0	0	-31.09332528
chrX	99443282	99443282	+	3.66E-15	2.14E-13	-29.23381651
chrX	99443429	99443429	-	9.10E-15	5.11E-13	-29.38793474
chrX	99594290	99594290	-	0	0	-28.78619253
chrX	99821553	99821553	+	0.00010813	0.00134858	-28.44932845
chrX	99821567	99821567	+	0.00040005	0.0041254	-25.47246495
chrX	100742123	100742123	-	0	0	-32.11003735



chrX	101255613	101255613	-	4.07E-08	1.07E-06	-39.57446809
chrX	101258493	101258493	-	0	0	-28.09864246
chrX	101258499	101258499	-	0	0	-27.7806455
chrX	101258522	101258522	-	0	0	-36.96248323
chrX	101258532	101258532	-	0	0	-35.34686971
chrX	101258663	101258663	-	0	0	-28.32189114
chrX	101319991	101319991	+	0	0	-32.65904342
chrX	101319992	101319992	-	7.24E-09	2.12E-07	-44.64902186
chrX	101320047	101320047	-	0	0	-35.29106916
chrX	101383757	101383757	+	1.75E-07	4.14E-06	-25.05211047
chrX	101383833	101383833	-	0	0	-27.28316354
chrX	101479307	101479307	+	4.54E-10	1.56E-08	-31.82539683
chrX	101553830	101553830	-	1.78E-05	0.00027632	-30.3030303
chrX	101697748	101697748	-	8.06E-05	0.00104573	-29.08604113
chrX	101697751	101697751	-	1.22E-05	0.00019738	-25.18037518
chrX	101850472	101850472	-	0	0	-30.73891626
chrX	102254622	102254622	+	1.04E-06	2.14E-05	-29.09663866
chrX	103630989	103630989	-	3.84E-05	0.00054635	28.00838574
chrX	103694772	103694772	-	0	0	-40.64193548
chrX	103819479	103819479	-	1.11E-16	7.26E-15	-25.40818355
chrX	105393584	105393584	-	0	0	-25.878757
chrX	117083307	117083307	+	1.01E-05	0.0001671	32.80799112
chrX	133686875	133686875	+	3.24E-06	6.00E-05	-37.75510204
chrX	133686895	133686895	+	4.09E-08	1.07E-06	-32.96703297
chrX	133914398	133914398	-	0	0	-29.35774719
chrX	134890929	134890929	-	4.44E-12	1.92E-10	-35.78215623
chrX	142305779	142305779	-	0	0	-28.21790026
chrX	142305803	142305803	+	0	0	-25.03405548
chrX	142633223	142633223	+	4.18E-05	0.0005902	-35.13513514
chrX	142633224	142633224	-	0	0	-41.67634005
chrX	142633234	142633234	+	3.63E-05	0.0005208	-40.19607843
chrX	142633235	142633235	-	0	0	-38.84434488
chrX	142633239	142633239	-	0	0	-39.86289362
chrX	142633242	142633242	-	0	0	-39.28431603
chrX	142633246	142633246	-	0	0	-48.45601844
chrX	142633250	142633250	-	0	0	-39.19175269
chrX	142633254	142633254	-	0	0	-37.73997191
chrX	142633258	142633258	-	0	0	-40.44997294
chrX	142633266	142633266	-	0	0	-39.35515034
chrX	142678865	142678865	-	0.00040121	0.00413516	-25.94562648
chrX	142737901	142737901	+	7.97E-06	0.00013501	-48.11379097

chrX	143518491	143518491	+	0.00042249	0.00431792	-26.43162393
chrX	143518522	143518522	+	0.00042249	0.00431792	-26.43162393
chrX	151017441	151017441	+	2.00E-05	0.00030792	-25.71428571
chrX	151169874	151169874	+	1.00E-06	2.06E-05	-30.76923077
chrX	151169893	151169893	+	7.57E-06	0.0001289	-31.57894737
chrX	152368647	152368647	+	0	0	-29.76289582
chrX	152368768	152368768	-	0.00030916	0.00332097	-25.91157049
chrX	152368887	152368887	+	1.54E-09	4.94E-08	-35.76097106
chrX	152368909	152368909	+	6.87E-10	2.31E-08	-34.63203463
chrX	152368916	152368916	+	1.07E-10	3.96E-09	-38.2023072
chrX	152369162	152369162	-	5.05E-13	2.40E-11	-33.57864783
chrX	153360050	153360050	-	9.25E-05	0.00117878	-30.40921343
chrX	157613026	157613026	-	0	0	-41.54299309
chrX	157613066	157613066	-	5.04E-11	1.94E-09	-30.36936885
chrX	158968697	158968697	-	0.00019956	0.00228719	27.62457668
chrX	159372672	159372672	-	7.09E-05	0.00093558	-33.70786517
chrX	159372680	159372680	-	1.77E-05	0.00027589	-35.95505618
chrX	159372685	159372685	-	2.28E-05	0.00034542	-35.22727273
chrX	159372687	159372687	-	4.73E-05	0.00065706	-32.95454545
chrX	159372699	159372699	-	3.67E-05	0.00052559	-33.70786517
chrX	159372701	159372701	-	3.67E-05	0.00052559	-33.70786517
chrX	159372704	159372704	-	0.0004111	0.0042199	-25.84269663
chrX	159880390	159880390	+	7.88E-13	3.67E-11	-33.03366128
chrX	161718674	161718674	+	0	0	-30.74111848
chrX	161718809	161718809	-	2.99E-08	8.01E-07	-43.93939394
chrX	161908878	161908878	-	0.00047745	0.00478578	-26.40653358
chrX	162727985	162727985	+	9.22E-10	3.05E-08	-35.18777374
chrX	162728152	162728152	-	2.44E-06	4.64E-05	-29.38596491
chrX	162728173	162728173	-	8.06E-06	0.00013638	-27.34375
chrX	163760809	163760809	-	1.42E-11	5.83E-10	-37.74290966
chrX	163760830	163760830	-	1.53E-09	4.92E-08	-32.52439651
chrX	164258861	164258861	-	0.000328	0.00349077	-28.81012658
chrX	164396270	164396270	-	6.60E-08	1.67E-06	-25.93220339
chrX	167207865	167207865	+	0.000187	0.00216364	-30.95238095
chrX	167207869	167207869	+	0.00068394	0.00645758	-26.19047619
chrX	167212414	167212414	-	4.44E-16	2.79E-14	-32.18814779
chrX	167277049	167277049	-	0.0011489	0.00988755	-27.71929825
chrX	169774148	169774148	+	3.66E-10	1.27E-08	-25.69588551
chrX	169981042	169981042	+	0.00011794	0.00145349	-31.91489362
chrX	169994137	169994137	-	0.00090584	0.00814358	31.5433975
chrX	169994339	169994339	-	4.03E-07	8.91E-06	-61.663286

chrX	170677019	170677019	-	3.47E-07	7.77E-06	-46.01626016
chrX	170677174	170677174	-	1.19E-05	0.00019278	-27.05548326
chrY	1941192	1941192	-	0.00020479	0.002338	-28.37837838
chrY	1941210	1941210	-	3.01E-06	5.61E-05	-29.65568308
chrY	2412589	2412589	-	0.00013527	0.00163679	-25.33738192
chrY	5323908	5323908	+	9.65E-08	2.38E-06	30.64516129
chrY	10643912	10643912	-	0.00096399	0.00856898	-26.56565657
chrY	90740540	90740540	+	9.28E-05	0.00118243	-43.12169312

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cells from *Dnmt3a(mut)*

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nearest gene	promoter
Npbwr1	y
Sgk3	n
Mcm2dc2	y
Mcm2dc2	y
Cspp1	y
Cspp1	y
Ncoa2	n
Ncoa2	n
Crisp4	n
Il17a	n
Mcm3	n
Paqr8	n
Tram2	n
Ogfrl1	n
Dst	n
Bend6	n
Dst	n
Bend6	n
Dst	n
Bend6	n
Ccdc115	n
Prss40	y
Fam168b	n
Arhgef4	n
Ugg1	n
Hs6st1	n
Ugg1	n
Arid5a	n
Arid5a	n
Arid5a	n
Arid5a	n
Neur13	n
Neur13	n
Arid5a	n
Neur13	n

Neurl3	n
Kansl3	n
Kansl3	n
Kansl3	n
Cnnm4	n
Cnnm3	n
Fam178b	n
4933424G06Rik	n
Zap70	y
Tmem131	n
Mgat4a	n
Unc50	n
Aff3	n
Nms	y
Nms	y
Nms	y
Aff3	y
Aff3	y
Nms	y
Aff3	y
Nms	y
Nms	y
Aff3	y
Nms	y
Aff3	y
Nms	y
Aff3	y
Aff3	y
Mir6349	n
Npas2	n
Npas2	n
Mir6349	n
Npas2	n
Mir6349	n
Mir6349	n
Npas2	n
Tbc1d8	n
Tbc1d8	n
Npas2	n

Tbc1d8	n
Tbc1d8	n
Tbc1d8	n
Rfx8	n
Cnot11	y
Rfx8	y
Rfx8	y
Rfx8	y
Rfx8	y
Rfx8	n
Map4k4	n
Map4k4	n
Il1r1	n
Il1rl2	y
Il1rl2	y
Il1rl2	y
Gm16894	y
Il1rl2	y
Gm16894	y
Gm16894	y
Gm16894	y
Slc9a2	y
Slc9a2	y
Slc9a2	y
Slc9a2	y
Slc9a2	n
Mfsd9	n
Fhl2	y
Uxs1	n
Hecw2	n
Mir7681	n
Coq10b	n
Coq10b	n
Ankrd44	n
Ankrd44	n
Mars2	y
Mars2	y
Mars2	y
Mars2	y
Boll	n
9130024F11Rik	n



Ccnyl1	n
Ccnyl1	n
Fzd5	n
Ccnyl1	n
Fzd5	n
Fzd5	y
Fzd5	y
Fzd5	y
Ccnyl1	y
Ccnyl1	y
Fzd5	y
Fzd5	y
Ccnyl1	y
Ccnyl1	y
Ccnyl1	n
Plekhm3	n
Pikfyve	n
Spag16	n
Spag16	n
Ikzf2	n
4933417E11Rik	n
Tmem169	n
Mreg	n
Tmem169	n
4-Mar	n
Tnp1	n
Rufy4	n
Tns1	n
Tns1	n
Tns1	n
Tns1	n
Tns1	n
Rufy4	n
Tns1	n
Mir1928	n
Gpbar1	n
Aamp	n
Gpbar1	n
Aamp	n
Rnf25	n
Prkag3	n



Prkag3	n
Prkag3	n
Wnt6	n
Prkag3	n
Wnt10a	y
Wnt10a	y
Wnt10a	y
Wnt10a	y
Prkag3	y
Wnt10a	n
Fam134a	n
Fam134a	n
Fam134a	n
Fam134a	n
Stk16	y
A630095N17Rik	y
A630095N17Rik	y
Stk16	y
Stk16	y
Stk16	y
Stk16	y
A630095N17Rik	y
Ptprn	n
Gm15179	n
Gm15179	n
Gm15179	n
Des	n
Des	n
Gm15179	n
Gm15179	y
Speg	y
Gm15179	y
Speg	y
Speg	n
Speg	n
Epha4	n
Sgpp2	n
Sgpp2	n
Sgpp2	n
Sgpp2	n
Sgpp2	n

Mrpl44	y
Mrpl44	y
Mrpl44	y
Cul3	n
Agfg1	n
Slc19a3	n
Slc19a3	n
Gm7609	n
Ncl	n
Ncl	y
Ncl	y
Ncl	n
B3gnt7	n
B3gnt7	n
B3gnt7	n
B3gnt7	n
Ncl	n
B3gnt7	n
Nmur1	n
Nmur1	n
Ptma	n
Nppc	n
Prss56	y
Ngef	n
Ngef	n
Dgkd	y
Usp40	n
Mroh2a	n
Mroh2a	n
2410088K16Rik	n
2410088K16Rik	n
Arl4c	n
2410088K16Rik	n
Sh3bp4	n
C030007H22Rik	n
Sh3bp4	n
Sh3bp4	n
Sh3bp4	n
Agap1	n
Agap1	n
Agap1	n



Agap1	y
Agap1	n
Agap1	n
Agap1	n
Gbx2	n
Agap1	n
Gbx2	n
Agap1	n
Gbx2	n
Ackr3	y
Ackr3	y
Ackr3	y
Iqca	y
Ackr3	y
Rab17	n
Rab17	n
Rab17	y
Lrrfip1	n
Rab17	n
Rab17	n
Rab17	n
Rab17	n
Rab17	n
Rab17	n
Traf3ip1	n
Per2	n
Traf3ip1	n
Per2	n
Per2	n
Gpr35	y
2310007B03Rik	n
2310007B03Rik	n
Sned1	n
Pign	n
Zcchc2	n
Gm20753	y
Serpinb5	n
Serpinb3c	n
Nifk	n
Clasp1	n
2900060B14Rik	n

Mir6346	n
Gli2	n
Gli2	n
Gli2	n
Mir6346	n
Gli2	n
Mir6346	n
Mir6346	n
Gli2	n
Tmem185b	n
3110009E18Rik	n
3110009E18Rik	n
Marco	n
Celrr	n
Mgat5	n
Ubxn4	n
Dars	n
Dars	n
Dars	n
Dars	n
Ubxn4	n
Dars	n
Ubxn4	n
Dars	n
Dars	n
C4bp	y
Il19	n
Faim3	n
Mapkapk2	n
Mapkapk2	n
Mapkapk2	n
Rassf5	n
Eif2d	y
Eif2d	y
Srgap2	y
Srgap2	n
Lemd1	n
Lemd1	n
Cdk18	y
Lemd1	y
Lemd1	n

Cdk18	n
Tmcc2	n
Klhdc8a	n
Tmcc2	n
Nuak2	n
Tmcc2	y
Mdm4	n
Pik3c2b	n
Pik3c2b	n
Mdm4	n
Mdm4	n
Mdm4	n
Gm19461	n
Plekha6	n
Gm19461	n
Plekha6	n
Plekha6	n
Gm19461	n
Etnk2	n
Etnk2	n
Etnk2	n
Sox13	n
Fmod	n
Atp2b4	n
Fmod	n
Fmod	n
Optc	n
Optc	n
Optc	n
Fmod	n
Optc	n
Optc	n
Fmod	n
Fmod	n
Fmod	n
Fmod	n
Btg2	n
Fmod	n
Btg2	n
Btg2	n
Mybph	y

Ppfia4	n
Adipor1	n
Tmem183a	n
Ppp1r12b	n
Lgr6	n
Lgr6	n
Ptpn7	n
Ptprv	n
Ptprv	n
Arl8a	n
Gpr37l1	n
Lmod1	n
Csrp1	y
Csrp1	y
Nav1	y
Nav1	y
Csrp1	y
Nav1	y
Csrp1	y
Csrp1	y
Nav1	y
Nav1	y
Csrp1	y
Nav1	n
Csrp1	n
Nav1	n
Nav1	n
Csrp1	n
Csrp1	n
Csrp1	n
Csrp1	n
Nav1	n
Nav1	n
Nav1	n
Nav1	n
Csrp1	n
Pkp1	n
Kif21b	y
Kif21b	n
Gm15850	n
Gm15850	n

Kif21b	n
5730559C18Rik	n
Kif21b	n
Kif21b	n
Kif21b	y
5730559C18Rik	y
9230116N13Rik	n
Gm16880	n
Gm16880	n
Gm16880	n
Gm16880	n
Gm16880	n
Nr5a2	n
Nr5a2	n
Nr5a2	n
Nr5a2	n
Nek7	n
B3galt2	n
Ptgs2	n
C730036E19Rik	n
Hmcn1	n
Swt1	n
Fam129a	y
Rnf2	n
Edem3	n
Colgalt2	n
Colgalt2	n
Apobec4	n
Lamc2	n
Nmnat2	n
Lamc2	n
Lamc2	n
Lamc1	n
Rgs8	n
Rgs8	n
Teddm2	n
Stx6	n
Ier5	n
Xpr1	n
Xpr1	n
Qsox1	n



Tdrd5	y
Nphs2	y
Nphs2	y
Nphs2	n
2810025M15Rik	n
Rasal2	n
BC026585	n
Rasal2	n
4930562F07Rik	n
Rabgap1l	y
Klhl20	y
Klhl20	y
Klhl20	y
2810442N19Rik	n
2810442N19Rik	n
Dnm3	n
Selp	n
Gm16548	n
4930568G15Rik	n
Gpr161	n
Tbx19	n
Adcy10	n
Adcy10	n
Adcy10	n
Mpzl1	n
Adcy10	n
Rcsd1	n
Creg1	n
Creg1	n
Gpa33	n
Tada1	n
Uck2	n
Mir6347	y
Lrrc52	n
Pbx1	n
Mir6348	n
Pbx1	n
Mir6348	n
Olfml2b	n
Fcgr4	n
Cfap126	n

Sdhc	n
Sdhc	n
Nr1i3	n
Pcp4l1	n
Nr1i3	n
Pcp4l1	n
Pcp4l1	n
Fcer1g	n
Ndufs2	y
Ndufs2	y
Adamts4	y
Ndufs2	y
Adamts4	y
Ndufs2	y
Ppox	y
Ppox	y
Ppox	y
Klhdc9	y
Klhdc9	y
Klhdc9	n
Vangl2	n
Dcaf8	n
Dcaf8	n
Atp1a4	n
Atp1a4	n
Dcaf8	n
Atp1a4	n
Pigm	n
Pigm	n
Pigm	n
Kcnj9	n
Cfap45	n
Cfap45	n
4933439K11Rik	n
Cfap45	n
Cfap45	n
4933439K11Rik	n
Cfap45	n
Vsig8	n
4933439K11Rik	n
Vsig8	n

Slamf8	y
Aim2	y
Akt3	n
Akt3	n
Akt3	n
Zbtb18	n
1700016C15Rik	n
Gm5069	n
Itpkb	n
Gm5069	n
Itpkb	n
Gm5069	n
Itpkb	n
Gm5069	n
Itpkb	n
Itpkb	n
Itpkb	n
Itpkb	n
Itpkb	n
Lin9	y
Lin9	y
Mixl1	y
H3f3a	n
Ephx1	y
Ccdc121	n
Cnih3	n
Srp9	n
Srp9	n
Vmn1r1	n
Trp53bp2	n
Capn2	n
Capn8	n
Capn8	n
Susd4	y
Ccdc185	y
Susd4	n
Tlr5	n
Disp1	n
Tlr5	n
Aida	n
Hhipl2	n

Dusp10	n
Dusp10	n
1700056E22Rik	n
1700112H15Rik	n
Hlx	n
4930488B22Rik	n
Hlx	n
Hlx	n
Hlx	n
4930488B22Rik	n
4930488B22Rik	n
4930488B22Rik	n
4930488B22Rik	n
Hlx	n
4930488B22Rik	n
Hlx	n
Hlx	n
4930488B22Rik	n
Hlx	n
4930488B22Rik	n
Hlx	n
Hlx	n
4930488B22Rik	y
4930488B22Rik	y
4930488B22Rik	y
Hlx	y
4930488B22Rik	y
Hlx	y
Hlx	y
4930488B22Rik	y
4930488B22Rik	n
4930488B22Rik	n
Hlx	n
4930488B22Rik	n
4930488B22Rik	n
Hlx	n
2-Mar	n
4930488B22Rik	n
4930488B22Rik	n
C130074G19Rik	n
C130074G19Rik	n

Lyplal1	n
Tgfb2	n
Esrrg	n
9330162B11Rik	n
Smyd2	n
Smyd2	n
Nenf	n
Nenf	n
Tmem206	n
Dtl	n
Dtl	n
Dtl	n
Kcnh1	n
1700065J18Rik	n
Hhat	n
Sertad4	n
1700065J18Rik	n
Sertad4	n
1700065J18Rik	n
Lamb3	y
Zbtb2	n
Zbtb2	n
Akap12	y
Akap12	y
Akap12	y
Zbtb2	y
Zbtb2	y
1700052N19Rik	y
Esr1	n
Esr1	n
Oprm1	n
Oprm1	n
Lrp11	n
Zc3h12d	n
Zc3h12d	n
Zc3h12d	n
Tab2	n
Sf3b5	n
Utrn	n
Utrn	n
Utrn	n

Utrn	n
Plagl1	n
Zc2hc1b	n
Zc2hc1b	n
Zc2hc1b	n
Zc2hc1b	n
Zc2hc1b	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Plagl1	n
Plagl1	n
Plagl1	n
Plagl1	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Zc2hc1b	n
Zc2hc1b	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Plagl1	n
Zc2hc1b	n
Zc2hc1b	n
Pex3	n
Aig1	n
Aig1	n
Aig1	n
Aig1	n
Hivep2	n

Gpr126	n
Hivep2	n
Gpr126	n
1700016L04Rik	y
Gpr126	y
Cited2	n
Gm20125	n
Cited2	n
Reps1	n
Ect2l	n
Nhsl1	n
Nhsl1	n
4930444F02Rik	y
Tnfaip3	n
Olig3	n
Olig3	n
Tnfaip3	n
Olig3	n
Tnfaip3	n
Tnfaip3	n
Il20ra	n
Slc35d3	n
Il20ra	n
Slc35d3	n
Il20ra	n
Slc35d3	n
Il20ra	n
Il20ra	n
Slc35d3	n
Slc35d3	n
Map3k5	n
Mtfr2	n
Mtfr2	n
Ahi1	n
4930455C13Rik	n
4930444G20Rik	n
4930444G20Rik	y
4930444G20Rik	y
4930444G20Rik	n
E030030I06Rik	n
E030030I06Rik	n

E030030I06Rik	n
Slc18b1	n
Eya4	y
Eya4	y
Enpp1	y
Enpp1	n
Hey2	n
Rnf217	n
Fam229b	n
Tube1	n
Wisp3	n
E130307A14Rik	n
E130307A14Rik	n
Fyn	n
Fyn	n
E130307A14Rik	n
2010001E11Rik	y
2010001E11Rik	y
Cdk19	n
Cdk19	n
Amd1	n
Mettl24	n
5730435O14Rik	n
5730435O14Rik	n
Ccdc162	n
Ccdc162	n
Scml4	n
Sobp	n
Sobp	n
Sobp	n
Sobp	n
1700021F05Rik	n
1700027J07Rik	n
1700027J07Rik	n
Speer5-ps1	n
Aim1	n
Speer5-ps1	n
Atg5	n
Atg5	n
Prdm1	y
Atg5	y



Prdm1	y
Atg5	y
Prdm1	y
Atg5	y
Prdm1	y
Atg5	y
Prep	n
Lin28b	n
Lin28b	n
Ascc3	n
Rfx6	n
Gopc	n
Tbc1d32	n
Msl3l2	n
Tbc1d32	n
Msl3l2	n
Msl3l2	n
Msl3l2	n
Msl3l2	n
Msl3l2	n
Msl3l2	n
Tbc1d32	n
Tbc1d32	n
Tbc1d32	n
Gcc2	y
BB019430	n
Pla2g12b	n
Mcu	n
Ddit4	n
Micu1	n
Ddit4	n
Ddit4	n
Ddit4	n
Ddit4	n
Ddit4	n
Ddit4	n
Dnajb12	n
Dnajb12	n
Dnajb12	n
Spock2	n
Spock2	n
Spock2	n

Chst3	n
Chst3	n
Cdh23	y
Cdh23	n
Cdh23	n
Cdh23	n
Cdh23	n
Cdh23	n
Cdh23	n
Gm17455	n
Gm17455	n
Gm17455	n
Gm17455	n
Cdh23	n
Cdh23	n
Mir6408	n
Mir6408	n
Cdh23	n
Mir6408	n
Mir6408	n
Cdh23	n
Slc29a3	n
Unc5b	n
Mir6408	n
Mir6408	n
Unc5b	n
Unc5b	n
Mir6408	n
Sgpl1	n
Sgpl1	n
Tbata	n
Pald1	n
Eif4ebp2	n
Aifm2	n
H2afy2	n
H2afy2	y
Col13a1	n
Col13a1	n
Mir5108	n
Mir5108	n
Col13a1	n

Mir5108	n
Mir5108	n
Col13a1	n
Col13a1	n
Neurog3	n
Neurog3	n
Col13a1	n
Tspan15	n
Tspan15	n
Tspan15	n
Tacr2	n
Tspan15	n
Hk1	n
Mir7215	n
Stox1	n
Tet1	n
Tet1	n
Slc25a16	n
Tet1	n
Slc25a16	n
Tet1	n
Sirt1	n
Sirt1	n
Sirt1	n
Gm31763	n
Jmjd1c	n
Ado	n
Egr2	n
Ado	n
Ado	y
Ado	y
Egr2	n
Tmem26	n
Tmem26	n
1700040L02Rik	n
Tmem26	n
1700040L02Rik	n
1700040L02Rik	n
Rhobtb1	n
Ank3	y
Phyhipl	n

Slc16a9	n
Slc16a9	n
Slc16a9	n
Phyhipl	n
Phyhipl	n
Phyhipl	n
Phyhipl	n
1700049L16Rik	n
Pcdh15	n
Rsph14	n
Adora2a	n
Gucd1	n
Upb1	n
Lrrc75b	y
Ggt1	y
Lrrc75b	y
Ggt1	y
Ggt1	y
Ggt1	y
Derl3	n
Chchd10	y
Chchd10	y
Chchd10	y
Chchd10	y
Gm867	n
Col18a1	n
Slc19a1	n
Slc19a1	n
Col18a1	n
Slc19a1	n
Pofut2	n
Gm10941	n
Pofut2	n
Gm17769	n
Pttg1ip	n
Ube2g2	n
Dnmt3l	y
Aire	y
Cstb	n
Agpat3	n
Cstb	n

Mir6410	n
Mir6410	n
Bc1	n
Hcn2	n
Bc1	n
Bc1	n
Bc1	n
Bc1	n
Bc1	n
Hcn2	n
Hcn2	n
Fstl3	y
Palm	n
Bc1	n
Bc1	n
Palm	n
Bc1	n
Ptbp1	n
E130317F20Rik	n
Bc1	n
Bc1	y
Kiss1r	n
Kiss1r	n
Kiss1r	n
Bc1	n
Kiss1r	n
Bc1	n
Bc1	n
Kiss1r	n
Kiss1r	n
Kiss1r	n
Bc1	n
Kiss1r	n
Kiss1r	n
Bc1	n
Bc1	n
Bc1	n
Kiss1r	n
Kiss1r	n
Bc1	n
Kiss1r	n

Bc1	n
Bc1	n
Bc1	n
Bc1	n
Kiss1r	n
Bc1	n
Kiss1r	n
Bc1	n
Kiss1r	n
Bc1	n
Kiss1r	n
Bc1	n
Kiss1r	n
Bc1	n
Bc1	n
Bc1	n
Arid3a	n
Arid3a	n
Bc1	n
Cnn2	y
Hmha1	y
Hmha1	y
Hmha1	y
Bc1	y
Bc1	n
Dos	n
Dos	n
Dos	n
Dos	n
Dos	n
Stk11	n
Stk11	n
Stk11	n
Stk11	n
Stk11	n
Stk11	n
Stk11	n
Stk11	n
Stk11	y
Cirbp	n
Bc1	n

Bc1	n
Bc1	n
Mum1	n
Bc1	n
Bc1	n
Mum1	n
Dazap1	n
Rps15	y
Bc1	n
Pcsk4	n
Reep6	n
Reep6	n
Reep6	n
Reep6	n
Plk5	y
Plk5	y
Onecut3	n
Tcf3	n
Onecut3	n
Csnk1g2	y
Csnk1g2	y
Amh	n
Jsrp1	n
Sppl2b	y
Sppl2b	y
Tmprss9	n
Tmprss9	n
Tmprss9	n
Tmprss9	n
Tmprss9	n
Timm13	n
Timm13	n
Gadd45b	n
Gadd45b	n
Gng7	n
Gng7	n
Gng7	n
Gng7	y
Thop1	n
Mir5615-2	y
Zbtb7a	n

Zbtb7a	n
Eef2	y
Eef2	y
Mrpl54	y
Pip5k1c	y
Pip5k1c	y
Pip5k1c	y
Tjp3	y
Tjp3	y
Pip5k1c	n
Tjp3	n
Pip5k1c	n
Pip5k1c	n
Tbxa2r	y
Gipc3	y
Hmg20b	n
Hmg20b	y
Hmg20b	y
4930404N11Rik	y
Fzr1	y
Dohh	y
Fzr1	y
Dohh	y
Smim24	n
Nfic	n
Smim24	n
Smim24	n
Smim24	n
Smim24	n
Smim24	n
Smim24	n
Nfic	n
Nfic	n
Nfic	n
Smim24	n
Smim24	n
Smim24	n
Smim24	n
Nfic	n
Nfic	n
Nfic	n



Smim24	n
Smim24	n
Smim24	n
Smim24	n
Nfic	n
Smim24	n
Smim24	n
Smim24	n
Smim24	n
Nfic	n
Gna15	n
Aes	n
Aes	n
Aes	n
Aes	n
Tle2	n
Tle2	n
Tle2	n
Tle2	n
Tle6	n
Tle2	n
Tle6	n
BC025920	y
Hcfc2	n
Nfyb	n
Txnrd1	n
Slc41a2	n
Chst11	n
Slc41a2	n
Chst11	n
Chst11	n
Chst11	n
Slc41a2	n
Slc41a2	n
Slc41a2	n
Slc41a2	n
4930463O16Rik	n
4930463O16Rik	n
Nuak1	n
Nuak1	n
Nuak1	n

4930463O16Rik	n
4930463O16Rik	n
4930463O16Rik	n
4930463O16Rik	n
4930463O16Rik	n
4930463O16Rik	n
4930463O16Rik	n
Nuak1	n
Nuak1	y
4930463O16Rik	y
Ckap4	y
Polr3b	n
Rfx4	n
C330046G13Rik	n
Ric8b	n
Ric8b	n
Fhl4	n
Syn3	n
Nt5dc3	y
Nt5dc3	n
Nt5dc3	n
Nt5dc3	n
Dram1	n
Dram1	n
Chpt1	n
Uhrf1bp1l	y
Uhrf1bp1l	n
Apaf1	n
Apaf1	n
Apaf1	n
lkbip	n
lkbip	n
lkbip	n
lkbip	n
Cdk17	n
Elk3	n
Cdk17	n
Cdk17	n
Cdk17	n
Cdk17	n
Cdk17	n

Mir7688	n
Mir7688	n
Mir7688	n
Amdhd1	n
Amdhd1	n
Usp44	n
Metap2	n
Metap2	y
Usp44	y
Metap2	y
Usp44	y
Metap2	y
Usp44	y
Metap2	y
Metap2	y
Ndufa12	n
Tmcc3	y
Mir7211	n
Tmcc3	n
Plxnc1	y
Cep83	n
2310039L15Rik	n
2310039L15Rik	n
2310039L15Rik	n
Cradd	n
Cradd	n
Cradd	n
Cradd	n
Cradd	n
Socs2	n
Nudt4	n
Nudt4	n
4930459C07Rik	n
Nudt4	n
Ccer1	y
Gm18409	n
Dusp6	n
Dusp6	n
Gm18409	n
Gm18409	n
Dusp6	n

Dusp6	n
Dusp6	n
Gm18409	n
Alx1	n
Lrriq1	n
Mir6411	n
Tmtc2	n
Myf6	n
Lin7a	y
Otogl	n
Syt1	n
Pawr	n
Syt1	n
1700020G17Rik	n
1700020G17Rik	n
9230102K24Rik	n
1700020G17Rik	n
1700020G17Rik	n
4933440J02Rik	n
Atxn7l3b	n
Atxn7l3b	n
Ptpr	n
Ptprb	n
Ptprb	n
Kcnmb4	n
Kcnmb4	n
4933412E12Rik	n
4933412E12Rik	n
4933412E12Rik	n
1700030O20Rik	n
Cct2	y
Lrrc10	n
Lrrc10	n
9530003J23Rik	n
Cpm	n
Cpsf6	n
Cpsf6	n
Cpsf6	n
Mdm2	n
Mdm2	n
Mdm2	n

Rap1b	n
Rap1b	n
Rap1b	n
4933411E08Rik	n
Il22	n
Ifng	n
Tmevpg1	n
Ifng	n
Tmevpg1	n
1700064J06Rik	n
1700064J06Rik	n
1700064J06Rik	n
Cand1	n
Cand1	n
Cand1	n
1700064J06Rik	n
Cand1	n
Llph	n
Irak3	n
Hmga2	n
Hmga2	n
4921513I03Rik	n
Msrb3	n
Msrb3	n
4921513I03Rik	n
4921513I03Rik	n
4921513I03Rik	n
Msrb3	n
4921513I03Rik	n
Msrb3	n
Msrb3	n
Msrb3	n
Msrb3	n
4921513I03Rik	n
Tbc1d30	n
Rassf3	n
Gns	n
Gns	n
Rassf3	y
Rassf3	n
Rassf3	n

Tbk1	n
Tbk1	n
Tbk1	n
Xpot	n
Gm4489	n
Gm4489	n
Tmem5	n
A130077B15Rik	n
Ppm1h	n
Ppm1h	n
Mirlet7i	n
Ppm1h	n
Usp15	n
Usp15	n
Lrig3	n
Ctdsp2	n
Xrcc6bp1	n
Ctdsp2	n
Ctdsp2	n
LOC100504608	n
Agap2	y
Agap2	y
Tspan31	y
Tspan31	y
Tspan31	y
Agap2	y
Agap2	y
Agap2	y
Agap2	y
Tspan31	y
Tspan31	y
Agap2	y
Tspan31	y
Agap2	n
Tspan31	n
Tspan31	n
Tspan31	n
Agap2	n
Os9	n
Slc26a10	y
Arhgef25	n

Arhgef25	n
Arhgef25	n
Arhgap9	y
Gli1	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Gli1	n
Arhgap9	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Gli1	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Arhgap9	n
Gli1	n
Gli1	n
Gli1	n
Gli1	n
Shmt2	n
Ndufa4l2	n
Nxph4	n
Stat6	n
Lrp1	n
Stat6	n
Lrp1	n

Stat6	n
Stat6	n
Lrp1	y
Lrp1	y
Nab2	n
Stat6	n
Stat6	n
Zbtb39	n
Gpr182	n
Gpr182	n
Zbtb39	y
Gpr182	y
Zbtb39	y
Rbms2	n
Smarcc2	y
Smarcc2	n
Ikzf4	y
Ikzf4	y
Wibg	n
Dgka	n
Olf784	n
Eif4enif1	y
Eif4enif1	y
Sfi1	y
Limk2	n
8430429K09Rik	y
Inpp5j	n
Tug1	n
Slc35e4	n
Dusp18	y
Ccdc157	y
Ccdc157	n
Hormad2	y
Lif	n
Hormad2	n
Hormad2	n
Hormad2	n
Hormad2	y
Ascc2	n
Ap1b1	y
Ap1b1	y



Ap1b1	y
Ap1b1	y
Ap1b1	y
Ap1b1	n
Ap1b1	n
Nefh	n
Ap1b1	n
Nefh	n
Nefh	n
Rasl10a	y
Rasl10a	y
Gas2l1	y
Rasl10a	y
Gas2l1	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Rasl10a	y
Gas2l1	y
Gas2l1	y
Gas2l1	y
Znrf3	n
Ankrd36	y
Pold2	y
Ykt6	n
Ykt6	n
Camk2b	n
Zmiz2	n
Nacad	n
Wap	n
Gm11992	n
Gm11992	n
Tns3	n
Zpbp	n
Figl1	n

lkzf1	y
1700042O10Rik	n
1700042O10Rik	n
1700042O10Rik	n
Cobl	n
1700042O10Rik	n
Etaa1	n
Meis1	n
Meis1	n
Meis1	n
Spred2	n
Spred2	n
Meis1	n
Spred2	n
Actr2	n
Actr2	n
Spred2	n
Spred2	n
Spred2	n
Slc1a4	n
Sertad2	n
Sertad2	n
Sertad2	n
Ugp2	n
Otx1	y
Wdpcp	n
Ehbp1	n
Ehbp1	n
Wdpcp	n
Ehbp1	n
Wdpcp	n
Wdpcp	n
Ehbp1	n
Ehbp1	n
Ehbp1	n
Tmem17	n
Tmem17	n
Papolg	n
Bcl11a	n
Bcl11a	n
Bcl11a	n

Papolg	n
Papolg	n
5730522E02Rik	n
Cpeb4	n
4930524B15Rik	y
4930524B15Rik	y
Il9r	n
Il9r	n
Il9r	n
Snrnp25	y
Il9r	y
Nprl3	y
Nprl3	y
Stk10	y
Stk10	n
Kcnmb1	n
Kcnip1	n
Kcnmb1	y
Foxi1	n
Tenm2	n
Atp10b	n
Ccnjl	n
Ccnjl	n
Ccnjl	n
Fabp6	n
Fabp6	n
Pwwp2a	n
Adra1b	n
Ublcp1	y
Ebf1	n
Ebf1	n
Ebf1	n
Gm12159	n
Clint1	n
Thg1l	y
Thg1l	y
Sox30	y
Adam19	n
Adam19	n
Sgcd	n
Trim41	n

Trim7	n
Trim7	n
Irgm1	n
Trim7	n
Trim7	n
Trim7	n
Irgm1	n
Cnot6	n
Gfpt2	y
Gfpt2	y
Gfpt2	y
Gfpt2	y
Gfpt2	y
Cnot6	y
Cnot6	y
Cnot6	y
Gfpt2	y
Cnot6	y
Gfpt2	y
Cnot6	y
Gfpt2	y
Mir804	n
Adamts2	n
BC049762	n
Col23a1	n
Hnrnpab	n
Rmnd5b	n
Rmnd5b	n
D930048N14Rik	n
D930048N14Rik	n
D930048N14Rik	n
N4bp3	n
D930048N14Rik	n
N4bp3	n
N4bp3	n
N4bp3	n
Jade2	n
Sar1b	n
Sar1b	n
Jade2	n
Cdkl3	y

Cdkl3		n
Tcf7		y
Tcf7		y
Skp1a		y
Tcf7		n
Tcf7		n
Tcf7		n
Tcf7		n
Vdac1		n
Tcf7		n
Vdac1		n
Uqcrq		n
Gdf9		n
Uqcrq		n
Gdf9		n
Uqcrq		n
Gdf9		n
Shroom1		n
Shroom1		n
Sowaha		n
Sowaha		n
Shroom1		y
	8-Sep	y
	8-Sep	y
Kif3a		n
Kif3a		n
Il13		n
Il5		n
Irf1		n
P4ha2		n
P4ha2		n
Lym7os		n
Slc36a1		n
Slc36a1		n
Slc36a1os		n
Fat2		n
Fam114a2		n
Mfap3		n
Galnt10		n
Fam114a2		n



Larp1	n
Hand1	n
Trim11	n
Trim11	n
Gjc2	n
Wnt3a	n
Wnt3a	n
Wnt9a	n
Wnt3a	n
Wnt3a	n
Wnt9a	n
4933439C10Rik	y
4933439C10Rik	y
4933439C10Rik	y
Cops3	n
Med9	n
Med9os	n
Med9os	n
Srebf1	y
Srebf1	y
Rai1	n
Rai1	n
Srebf1	n
Tom1l2	n
Lrrc48	n
Myo15	n
Flii	n
Flii	n
Flii	n
Map2k3os	y
Usp22	n
Tnfrsf13b	n
Tnfrsf13b	n
Tnfrsf13b	n
Tnfrsf13b	n
Tnfrsf13b	n
Usp22	n
Usp22	n
Tnfrsf13b	n
Tnfrsf13b	n
Usp22	n

Usp22	n
Tnfrsf13b	n
Mapk7	y
Mapk7	y
Mapk7	y
B9d1	y
Slc5a10	n
Slc5a10	n
Grap	n
Fam83g	y
Fam83g	y
Slc5a10	y
Slc5a10	y
Fam83g	y
Fam83g	y
Fam83g	y
Fam83g	y
Fam83g	y
Slc5a10	y
Fam83g	y
Akap10	n
Trpv2	n
Lrrc75a	n
Pmp22	n
Mir6354	n
Mir6354	n
Pmp22	n
Pmp22	n
Mir6354	n
Mir6354	n
Hs3st3b1	n
Zkscan6	n
Glp2r	n
Glp2r	n
Gas7	n
Gas7	n
Glp2r	n
Glp2r	n
Stx8	n
Stx8	n
Stx8	n



Ntn1	n
Ntn1	n
Ntn1	n
Stx8	n
Stx8	n
Ntn1	n
Stx8	n
Ntn1	n
Ntn1	n
Ntn1	n
Stx8	n
Stx8	n
Ccdc42	n
Ntn1	n
Slc25a35	n
Slc25a35	y
Slc25a35	y
Slc25a35	y
Arhgef15	y
Slc25a35	y
Arhgef15	y
Arhgef15	y
Pfas	n
2310047M10Rik	y
2310047M10Rik	y
Hes7	y
Hes7	y
Alox8	y
Alox8	y
Alox8	y
Alox8	y
Alox12b	y
Kcnab3	y
Kcnab3	y
Cntrob	y
Naa38	y
Naa38	y
Naa38	y
Tmem88	y
Naa38	y
Kdm6b	n

Dnah2	n
Naa38	n
Naa38	n
Dnah2	n
Efnb3	n
Sat2	y
Fxr2	n
Mpdu1	y
Mpdu1	y
Mpdu1	y
Sox15	y
Mpdu1	y
Sox15	y
Sox15	y
Sox15	y
Sox15	y
Mpdu1	y
Mpdu1	y
Mpdu1	y
Mpdu1	y
Mpdu1	y
Sox15	y
Mir1934	y
Zbtb4	y
Zbtb4	n
Chrn1	n
Chrn1	n
Zbtb4	n
Fgf11	y
Tmem102	y
Tmem102	y
Plscr3	y
Plscr3	y
Plscr3	y
Tnk1	y
Plscr3	y
Tnk1	y
Ctdnep1	y
Dlg4	n
Acadvl	n
Acadvl	n

Acadvl	n
Dlg4	n
Dlg4	n
Slc16a13	n
Slc16a13	y
Mir497	n
Mir497	n
Bcl6b	n
Mir497	n
Bcl6b	n
Mir497	n
Mir497	n
Mir497	n
Bcl6b	n
Mir497	n
Bcl6b	n
Bcl6b	n
Bcl6b	n
Bcl6b	n
Mir497	n
Mir497	n
Bcl6b	n
Bcl6b	n
Mir497	y
Mir497	n
Cxcl16	n
Zmynd15	n
Zmynd15	n
Zmynd15	n
Zmynd15	n
Cxcl16	n
Zmynd15	n
Zmynd15	n
Zmynd15	n
Cxcl16	n
Cxcl16	n
Cxcl16	n
Zmynd15	n
Cxcl16	n
Zmynd15	n
Cxcl16	n

Zmynd15	n
Zmynd15	n
Zmynd15	n
Zmynd15	n
Cxcl16	n
Zmynd15	n
Cxcl16	n
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Gltpd2	y
Gltpd2	y
Gltpd2	y
Gltpd2	y
Gltpd2	y
Vmo1	y
Vmo1	y
Vmo1	y
Vmo1	y
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Gltpd2	y
Vmo1	y
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Vmo1	y
Gltpd2	y
Vmo1	y
Chrne	n
Chrne	n
Eno3	y

Fam64a	n
Fam64a	n
Smtnl2	y
Ube2g1	n
Ube2g1	n
Ube2g1	n
Spns3	n
Atp2a3	n
Cyb5d2	n
Camkk1	n
Mnt	n
Sgsm2	n
Hic1	n
Smg6	n
Rtn4rl1	n
Rtn4rl1	n
Rtn4rl1	n
Rpa1	n
Rtn4rl1	n
Rpa1	n
Rpa1	n
Rpa1	n
Prpf8	y
Scarf1	y
Wdr81	y
Slc43a2	n
Gm12338	y
Myo1c	y
Myo1c	y
Gm12338	y
Doc2b	n
Doc2b	y
Ywhae	y
Doc2b	y
Ywhae	y
Ywhae	y
Doc2b	y
Ywhae	n
Fam101b	y
Nxn	n
Rnmtl1	n

Timm22	n
Timm22	n
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Abr	n
Gosr1	n
Tusc5	n
Ankrd13b	y
Coro6	n
Trp53i13	y
Cryba1	n
Pipox	n
Myo18a	n
Pipox	n
Myo18a	y
Myo18a	y
Sez6	n
Slc13a2	n
Slc13a2	n
Slc13a2os	n
Ift20	y
Lym9	n

Fam58b	y
Lgals9	n
Wsb1	n
Rab11fip4os2	n
Rab11fip4	n
Mir193a	n
Rab11fip4os2	n
Mir193a	n
Mir193a	n
Rab11fip4os2	n
Mir365-2	n
Mir365-2	n
Utp6	n
Utp6	n
Myo1d	y
Myo1d	y
Tmem98	n
4930507D10Rik	n
4930507D10Rik	n
Tmem98	n
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Asic2	n
Tmem132e	n
Gm11426	n
Gm11426	n
Lig3	n
Rffl	n
Rffl	n
Unc45b	n
Unc45b	n
Unc45b	n
Unc45b	n
Slfn5os	n
Unc45b	n
Unc45b	n
Slfn5os	n
Unc45b	n
Slfn5os	n
Unc45b	n
Unc45b	n
Unc45b	n

Slfn5	n
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Slfn9	n
Slfn5	n
Slfn9	n
Slfn9	y
1700020L24Rik	y
1700020L24Rik	y
Taf15	y
Lhx1	n
4930502E09Rik	n
Bcas3	n
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2610027K06Rik	n
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Bcas3	n
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2610027K06Rik	n
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2610027K06Rik	n
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2610027K06Rik	n
2610027K06Rik	y
Tbx4	n
Tbx4	n
Tbx4	n
Ypel2	y
Ppm1e	n
Tex14	n



Tex14	n
Mir142b	n
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Bzap1	n
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Cuedc1	n
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Dynll2	n
Dynll2	n
Msi2	y
Cuedc1	y
Cuedc1	y
Msi2	y
Msi2	y
Mrps23	n
Mrps23	n
Msi2	n

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Mrps23	n
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C030037D09Rik	n
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4930556N13Rik	n
Pctp	n
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Mmd	n

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Wfikkn2	n
Spag9	n
Spag9	n
Wfikkn2	n
Wfikkn2	y
Ankrd40	n
Cacna1g	n
Cacna1g	n
Cacna1g	n
Ankrd40	n
Cacna1g	n
Cacna1g	n
Cacna1g	n
Ankrd40	n
Chad	y
Epn3	y
Epn3	y
Mycbpap	y
Chad	n
Acsf2	y
Chad	n
Chad	n
Acsf2	n
Col1a1	y
Sgca	n
Sgca	n
Sgca	n
Ppp1r9b	n
Sgca	n
Pdk2	y
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Pdk2	n
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Dlx3	y
Itga3	n
Dlx3	n
Dlx4	n
A730090H04Rik	n
Tac4	n
Tac4	n
Kat7	n
Nxph3	n
Phb	n
Ngfr	n
Ngfr	n
Ngfr	n
Ngfr	n
Zfp652os	n
Phb	n
Zfp652os	n

Zfp652os	n
Zfp652	y
Phospho1	y
Gip	n
Gip	n
Gip	n
Igf2bp1	n
Gip	n
Calcoco2	n
Calcoco2	n
Calcoco2	n
Mir196a-1	n
Calcoco2	n
Hoxb8	n
Hoxb7	n
Hoxb7	n
Gm11529	n
Gm11529	n
Hoxb7	n
Hoxb7	n
Gm11529	n
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Gm11529	y
Hoxb4	n
Gm11529	n
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Gm11529	n
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Gm11529	n
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Gm11529	y
Hoxb1	y
Hoxb1	y
Gm11529	y
Hoxb1	y
Gm11529	y
Hoxb1	n
Hoxb1	n
Hoxb1	n
Gm11529	n
Snx11	n
Skap1	n
Snx11	n
Skap1	n
Cbx1	y
Copz2	n
Prr15l	y
Pnp0	y
Prr15l	n
Prr15l	n
Pnp0	n
D030028A08Rik	n
Sp2	n
Sp6	n
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Sp6	n
Osbp17	n
Osbp17	n
Tbx21	n
Tbkbp1	n
Osbp17	n
Osbp17	n
Osbp17	n
Tbkbp1	n
Gpr179	n
Gpr179	n
4933428G20Rik	n
Srcin1	n
2410003L11Rik	n
2410003L11Rik	n
E130012A19Rik	n
2410003L11Rik	n
E130012A19Rik	n
2410003L11Rik	n
E130012A19Rik	n
2410003L11Rik	n
2410003L11Rik	n



E130012A19Rik	n
E130012A19Rik	n
2410003L11Rik	n
E130012A19Rik	n
2410003L11Rik	y
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E130012A19Rik	y
E130012A19Rik	y
2410003L11Rik	y
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E130012A19Rik	y
2410003L11Rik	y
2410003L11Rik	y
E130012A19Rik	y
E130012A19Rik	y
E130012A19Rik	y
E130012A19Rik	y
Psmb3	y
Pip4k2b	n
Pip4k2b	n
Rpl19	n
Rpl19	n
Cacnb1	n
Rpl19	n
Cacnb1	n
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Rpl19	n
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Cacnb1	n
Rpl19	y

Rpl19	y
Cacnb1	y
Cacnb1	y
Ppp1r1b	n
1700003D09Rik	y
1700003D09Rik	y
Ppp1r1b	y
1700003D09Rik	y
Ppp1r1b	y
1700003D09Rik	y
Pgap3	y
Grb7	y
Grb7	y
Grb7	y
Gm12	y
Nr1d1	n
Thra	n
Thra	n
Thra	n
Thra	n
Thra	n
Thra	n
Nr1d1	n
Nr1d1	n
Nr1d1	n
Gm12359	n
Rapgef1	y
Rapgef1	n
Gjd3	n
Rara	y
Rara	y
Rara	y
Rara	y
Rara	y
Gjd3	y
Rara	y
Gjd3	n
Rara	y
Rara	y
Igfbp4	n
Igfbp4	n

Igfbp4	n
Ccr7	n
Krt28	n
Krtap31-2	n
Krtap31-2	n
Krtap31-2	n
Gast	y
Fkbp10	n
Jup	n
Fkbp10	n
Acly	n
Ttc25	n
Ttc25	n
Zfp385c	n
Zfp385c	n
Zfp385c	n
Nkiras2	n
Hspb9	n
Hspb9	n
Hspb9	n
Dhx58	n
Stat5b	n
Atp6v0a1	n
Fam134c	n
Tubg2	n
Plekh3	n
Ezh1	y
Wnk4	n
Coa3	n
Coa3	n
Nbr1	n
Arl4d	n
Arl4d	n
Etv4	n
Arl4d	n
Arl4d	n
Etv4	n
Etv4	n
Meox1	n
4930417O22Rik	n
Meox1	n

Meox1	n
4930417O22Rik	n
Meox1	n
Sost	n
Sost	n
4930417O22Rik	n
Cd300lg	n
Cd300lg	n
Cd300lg	n
Hdac5	n
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BC030867	n
Hdac5	n
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BC030867	n
BC030867	n
Hdac5	n
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BC030867	n
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BC030867	n
BC030867	n
BC030867	n
Hdac5	n
Tmub2	n
Ubtf	y
Rundc3a	n
Slc25a39	n
Slc25a39	n
Rundc3a	n
Slc25a39	n
Rundc3a	n
Slc25a39	n
Slc25a39	n
Slc25a39	n
Slc25a39	n
Rundc3a	n
Rundc3a	n
Rundc3a	n
Slc25a39	n

Fam171a2	n
Fam171a2	n
Grn	n
Grn	n
Grn	n
Grn	n
Fam171a2	n
Itga2b	n
Grn	n
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Itga2b	n
Gm11627	n
Gm11627	n
Fzd2	n
Fzd2	n
2810433D01Rik	n
Fzd2	n
2810433D01Rik	n
Adam11	n
Gjc1	n
Gjc1	n
Gjc1	n
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Gjc1	n
Nmt1	n
Nmt1	n
Fmnl1	n
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1700023F06Rik	n
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Fmnl1	n
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1700023F06Rik	n
Wnt9b	y

Nsf	y
Mapt	n
Kansl1	n
Kansl1	n
Itgb3	n
Gm11665	n
1700052K11Rik	n
Tlk2	n
Mrc2	y
Mrc2	y
10-Mar	y
10-Mar	y
Mrc2	n
Mrc2	n
10-Mar	n
Mrc2	n
Mrc2	n
10-Mar	n
Scn4a	n
Icam2	n
2310007L24Rik	n
2310007L24Rik	n
2310007L24Rik	n
Icam2	n
2310007L24Rik	n
2310007L24Rik	n
Icam2	n
Snord104	n
Milr1	n
Milr1	n
Milr1	n
Pecam1	n
Pecam1	n
Milr1	n
Polg2	n
1810010H24Rik	y
1810010H24Rik	y
1810010H24Rik	y
Bptf	y
Bptf	y
Bptf	y

Psm12	n
Psm12	n
Helz	y
Pitpnc1	y
Helz	y
Cacng1	n
Cacng1	n
Helz	n
Prkca	n
Prkca	y
Arsg	y
Wipi1	n
Map2k6	n
Sox9	n
Sox9	n
BC006965	n
BC006965	n
BC006965	n
2610035D17Rik	n
Sox9	n
Sstr2	n
Sstr2	n
Slc39a11	n
Fam104a	y
Fam104a	n
Fam104a	n
Fam104a	n
D11Wsu47e	n
Cpsf4l	n
Cpsf4l	n
D11Wsu47e	y
Cpsf4l	y
Cpsf4l	y
Cpsf4l	y
D11Wsu47e	n
D11Wsu47e	n
D11Wsu47e	n
Sdk2	n
D11Wsu47e	n
D11Wsu47e	n
Sdk2	n

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D11Wsu47e	n
1700092K14Rik	n
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Mir466n	n
1700092K14Rik	n
Rpl38	n
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Mir466n	n
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Mir466n	y
Rpl38	y
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Rpl38	y
Rpl38	y
Mir466n	y
Kif19a	n
Btbd17	n
Btbd17	n
Kif19a	n
Gprc5c	n
Btbd17	n
Cd300lb	n
Cd300lb	n
Rab37	n
Rab37	n
Rab37	n



Cd300lf	n
Slc9a3r1	n
Nat9	n
Grin2c	n
Grin2c	n
Hid1	n
4933422H20Rik	n
2310067B10Rik	y
2310067B10Rik	y
2310067B10Rik	y
2310067B10Rik	n
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Caskin2	n
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2310067B10Rik	n
Tsen54	n
Tsen54	n
Tsen54	n
Tsen54	n
Caskin2	n
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Tsen54	n
Tsen54	y
Smim5	n
Recql5	n
Smim5	n
Itgb4	y
Galk1	y
Itgb4	n
Itgb4	n
Itgb4	n
Itgb4	n

Galk1	n
Unk	n
Trim47	n
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Trim47	y
Unk	y
Unk	y
Unk	y
Unk	n
Trim65	n
Cdk3-ps	n
Cdk3-ps	n
Cdk3-ps	n
Cdk3-ps	n
Cdk3-ps	n
Evpl	n
Cdk3-ps	n
Evpl	n
Galr2	y
Ubal2	n
Qrich2	n
Prpsap1	n

Prpsap1	n
Prpsap1	n
Prpsap1	n
Ube2o	n
Ube2o	n
Sphk1	y
Aanat	n
Ube2o	n
Cygb	n
Gm11744	n
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Gm11744	n
Cygb	n
Cygb	y
Cygb	y
1810032O08Rik	n
St6galnac2	n
St6galnac2	y
St6galnac2	y
1810032O08Rik	y
1810032O08Rik	y
St6galnac2	y
BC018473	n
Mettl23	n
Mxra7	n
Mxra7	n
Mettl23	n
Mettl23	y
Mettl23	y
Mettl23	y
Mxra7	y
Mettl23	y
Mgat5b	n
Mgat5b	n
Srsf2	n
Mgat5b	n
2810008D09Rik	n
2810008D09Rik	n
2810008D09Rik	n
2810008D09Rik	n

Srsf2		n
2810008D09Rik		n
Srsf2		n
Srsf2		n
Sec14I1		n
Sec14I1		n
Srsf2		n
Srsf2		y
Srsf2		n
Srsf2		n
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	9-Sep	n
	9-Sep	n
	9-Sep	n
	9-Sep	n
Srsf2		n
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Srsf2		y
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	9-Sep	n
Tmc6		n
	9-Sep	n
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Tmc6		n



Cbx2	n
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Cbx4	n
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Cbx4	n
Cbx2	n
Ccdc40	n
Tbc1d16	n
Tbc1d16	n
Tbc1d16	n
Eif4a3	y
Slc26a11	n
Slc26a11	n
Gm11762	n
Mir5098	y
Rptoros	y
Aatk	n
Aatk	n
Mir3065	n
Mir3065	n
Mir3065	n
Aatk	n
Mir3065	y
Mir3065	y
Aatk	y
Aatk	y
Mir3065	y
Bahcc1	n
2810410L24Rik	n
Bahcc1	n
Bahcc1	n
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Bahcc1	n
Bahcc1	n



Bahcc1	n
2810410L24Rik	n
2810410L24Rik	n
Actg1	n
Bahcc1	n
Actg1	n
Actg1	n
0610009L18Rik	n
Actg1	n
Gcgr	n
Fam195b	n
Aspscr1	y
Aspscr1	y
Aspscr1	n
Gps1	n
Csnk1d	y
Csnk1d	y
Slc16a3	n
Slc16a3	n
Slc16a3	n
Slc16a3	n
Slc16a3	n
B3gnt1	y
Ptchd3	y
Ptchd3	y
Kif3c	y
1110002L01Rik	y
1110002L01Rik	y
Dtnb	n
Dtnb	n
1110002L01Rik	n
1110002L01Rik	n
Dnmt3a	n
Dnmt3a	n
Dnmt3aos	n
Dnmt3aos	n
Dnmt3aos	n
Efr3b	n
Efr3b	n
Adcy3	y
Cenpo	y



Adcy3	y
Cenpo	y
Adcy3	n
Adcy3	n
Fam228a	n
Atad2b	y
Hs1bp3	n
Hs1bp3	n
Hs1bp3	n
Gdf7	n
Gdf7	n
Hs1bp3	n
Rhob	n
Rhob	n
Rhob	y
Rhob	y
Rhob	y
Sdc1	n
Sdc1	n
Slc7a15	n
Slc7a15	n
Slc7a15	n
Slc7a15	n
Lptm4a	n
Lptm4a	n
Lptm4a	n
Lptm4a	n
Lptm4a	n
1700022H16Rik	y
Msgn1	n
Fam49a	n
4921511I17Rik	n
4921511I17Rik	n
Fam49a	n
Fam49a	n
Mycn	n
Fam49a	n
Fam49a	n
Fam49a	n
Fam49a	n
Fam49a	n

Fam49a	n
Mycn	n
Mycn	n
Fam49a	n
Fam49a	n
Fam49a	n
Mycn	n
Mycn	n
Fam49a	n
Nbas	n
Mycn	n
Mycn	n
Nbas	n
Mycn	n
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Mycn	n
Mycn	n
Mycn	n
Nbas	n
Mycn	n
Nbas	n
Nbas	n
Nbas	n
Nbas	n
Fam84a	n
Trib2	n
Ntsr2	n
E2f6	n
Pq1c3	n
Atp6v1c2	n
Atp6v1c2	n
Hpcal1	n
Atp6v1c2	n
Hpcal1	n
Atp6v1c2	n
5730507C01Rik	n
5730507C01Rik	n
5730507C01Rik	n
Asap2	n
Itgb1bp1	n

Itgb1bp1	n
Asap2	n
Asap2	n
Asap2	n
Itgb1bp1	n
Itgb1bp1	n
Rrm2	n
Mboat2	n
Kidins220	n
Id2	n
Gm17746	n
Id2	n
Id2	n
Gm17746	n
Id2	n
Id2	n
Id2	n
4930480M12Rik	n
4930480M12Rik	n
4930480M12Rik	n
Rnaseh1	n
Rnaseh1	n
Rnaseh1	n
Rnaseh1	n
Rnaseh1	n
Colec11	n
Tssc1	n
Pik3cg	n
4933406C10Rik	n
Sypl	n
Sypl	n
Sypl	n
Cdhr3	n
Atxn7l1	n
F730043M19Rik	n
F730043M19Rik	y
Twist1	n
Twist1	n
Snx13	n
Lrrn3	n
Lrrn3	n

Nrcam	y
Nrcam	y
Nrcam	y
3110039M20Rik	n
Nubpl	n
Gpr33	n
1700031P21Rik	n
Akap6	n
Akap6	n
Egln3	n
Nfkbia	n
Nfkbia	y
Nfkbia	y
Mir1198	y
Nfkbia	y
Nfkbia	y
Pax9	n
Clec14a	y
Lrr1	n
5830428M24Rik	n
5830428M24Rik	n
5830428M24Rik	n
5830428M24Rik	n
F730035M05Rik	n
3110056K07Rik	n
3110056K07Rik	n
3110056K07Rik	n
Timm9	y
Timm9	y
Timm9	n
Timm9	n
L3hypdh	n
L3hypdh	n
L3hypdh	n
L3hypdh	n
Ppm1a	n
Slc38a6	n
D830013O20Rik	n
D830013O20Rik	n
Slc38a6	n
Slc38a6	n

D830013O20Rik	n
D830013O20Rik	n
2210039B01Rik	n
2210039B01Rik	n
Tmem30b	n
Tmem30b	y
Tmem30b	y
Tmem30b	y
Tmem30b	n
Tmem30b	n
Syne2	n
Syne2	n
Sgpp1	n
Sgpp1	n
Esr2	n
Esr2	n
Tex21	n
Tex21	n
Tex21	n
Zbtb25	y
Mir5135	n
Mir5135	n
Plekhg3	n
Plekhg3	n
AI463170	n
AI463170	n
AI463170	n
Plekhg3	n
AI463170	n
Plekhg3	n
AI463170	n
Plekhg3	n
AI463170	n
Plekhg3	n
AI463170	n
AI463170	n
Sptb	n
Churc1	n
Fntb	n
Max	n
Fntb	n

Fut8	n
Mpp5	n
Rad51b	n
Zfp36l1	n
Zfp36l1	n
Zfp36l1	n
Zfp36l1	n
Zfp36l1	n
Rad51b	n
Zfp36l1	n
Rad51b	n
Zfp36l1	n
Rad51b	n
Exd2	n
Srsf5	n
Smoc1	n
Smoc1	y
Smoc1	y
Cox16	y
Map3k9	n
Pcnx	n
Pcnx	y
Rgs6	n
Acot1	n
Pnma1	y
Elmsan1	n
Elmsan1	n
Elmsan1	n
Elmsan1	n
Ptgr2	n
Vrtn	n
Syndig1l	n
Dlst	n
Dlst	n
Dlst	n
Rps6kl1	n
Dlst	n
Rps6kl1	n
Rps6kl1	n
Eif2b2	n
Zc2hc1c	y

Tmed10	n
Tmed10	n
Fos	n
Tmed10	y
Tmed10	y
Tmed10	y
Ttll5	n
Tgfb3	n
Angel1	n
Lrrc74a	n
Lrrc74a	n
Lrrc74a	n
Angel1	n
Lrrc74a	n
Irf2bpl	n
Cipc	n
Irf2bpl	n
Cipc	n
Irf2bpl	n
Irf2bpl	n
Cipc	n
Cipc	n
Cipc	n
Cipc	n
Cipc	n
Cipc	n
Irf2bpl	n
Irf2bpl	n
Cipc	n
Cipc	n
Cipc	n
Cipc	n
Cipc	n
Cipc	n
Irf2bpl	n
Cipc	n
Irf2bpl	n
Cipc	n
Irf2bpl	n
Cipc	n
Cipc	n

Cipc	n
Irf2bpl	n
Cipc	n
Zdhhc22	y
Ston2	n
Ston2	n
1700019M22Rik	y
1700019M22Rik	n
Gpr65	n
Ptpn21	n
Ttc8	n
Ttc8	n
Ttc8	n
Foxn3	n
Ttc8	n
Foxn3	n
Foxn3	n
Foxn3	n
Tdp1	n
Efcab11	n
Efcab11	n
Efcab11	n
Calm1	n
Gm10432	n
Ttc7b	n
Gm10432	n
Ttc7b	n
Gm10432	n
Ttc7b	n
Gpr68	n
9030617O03Rik	y
9030617O03Rik	y
Gpr68	y
9030617O03Rik	n
9030617O03Rik	n
9030617O03Rik	n
Ccdc88c	n
Ccdc88c	n
Ccdc88c	n
D130020L05Rik	n
Rin3	y



Rin3	n
Rin3	n
Rin3	n
Rin3	n
Lgmn	n
Lgmn	n
Lgmn	n
Itpk1	n
Itpk1	n
Itpk1	n
Itpk1	n
Tmem251	n
Tmem251	n
Itpk1	n
Prima1	y
Asb2	n
Asb2	y
Fam181a	y
Otub2	n
Dicer1	n
Clmn	n
Clmn	n
Glrx5	n
Tunar	n
Atg2b	y
Vrk1	n
Vrk1	n
Vrk1	n
Atg2b	n
4933406K04Rik	n
Ccnk	n
Ccnk	n
Ccdc85c	n
Ccdc85c	n
Ccnk	n
Ccdc85c	n
Ccnk	n
Ccnk	n
Ccdc85c	n
Ccdc85c	n
Hhip1	n

Ccdc85c	n
Ccdc85c	y
Hhip1	n
Ccdc85c	n
Ccdc85c	n
Hhip1	n
Hhip1	n
Ccdc85c	n
Hhip1	n
Ccdc85c	n
Ccdc85c	n
Ccdc85c	n
Ccdc85c	n
Cyp46a1	n
Slc25a29	y
Slc25a29	y
Wdr25	n
Begain	n
Begain	n
Mir3544	n
Mir3544	y
Mir3544	y
Mir3544	n
Meg3	n
Meg3	n
Rian	n
3110009F21Rik	n
Hsp90aa1	n
Rcor1	n
Rcor1	n
Ankrd9	n
Rcor1	n
Cdc42bpb	n
Amn	n
Amn	n
Cdc42bpb	n
A230065H16Rik	y
A230065H16Rik	n
Cdc42bpb	n
A230065H16Rik	n
Cdc42bpb	n

Tnfaip2	n
Tnfaip2	n
Tnfaip2	n
Tnfaip2	n
Tnfaip2	n
Tnfaip2	n
Tnfaip2	n
Tnfaip2	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Gm266	n
Tnfaip2	n
Gm266	n
Tnfaip2	n
Ckb	n
Trmt61a	y
Trmt61a	y
Ckb	y
Ckb	y
Trmt61a	y
Ckb	y
Ckb	y
Trmt61a	y
Ckb	y
Trmt61a	y
Ckb	y
Trmt61a	y
Ckb	y
Trmt61a	y
Trmt61a	y
Ckb	y
Trmt61a	n
Trmt61a	n
Trmt61a	n
Bag5	n

Bag5	n
Bag5	n
Tdrd9	n
Tdrd9	n
Kif26a	y
Kif26a	n
Mir3073b	n
A730018C14Rik	n
A530016L24Rik	n
Tmem179	n
Tmem179	n
Inf2	n
Inf2	n
Tmem179	n
Tmem179	n
Inf2	n
Inf2	n
Siva1	n
Zbtb42	n
Zbtb42	n
Akt1	n
Cep170b	y
Akt1	y
BC022687	n
BC022687	n
Gpr132	n
Gpr132	n
Gpr132	n
Gpr132	n
BC022687	n
Btbd6	y
Btbd6	y
Jag2	y
Btbd6	y
Jag2	y
Btbd6	n
Btbd6	n
Nudt14	n
Btbd6	n
Nudt14	n
Nudt14	n

Nudt14	n
Btbd6	n
Nudt14	n
Brf1	n
Brf1	n
Brf1	n
Brf1	n
Brf1	n
Tmem121	n
Brf1	n
Brf1	n
Gm10421	n
Dnah11	n
Rapgef5	n
Rapgef5	n
Rapgef5	n
Rapgef5	n
Rapgef5	n
Dnah11	n
Cdca7l	n
Cdca7l	n
Cdca7l	y
Sp8	n
D230030E09Rik	n
D230030E09Rik	n
D230030E09Rik	n
Sp8	n
Fam208b	n
Klf6	n
Wdr37	n
Dip2c	n
Chrm3	n
Dip2c	y
Ryr2	n
Actn2	n
4933412O06Rik	n
Gli3	n
Mir466i	n
Mir466i	n
Pou6f2	n
Sfrp4	n

Stard3nl	n
Nme8	y
Nme8	y
Nme8	y
Aoah	n
Olfr1368	n
Olfr1368	n
Hist1h2bq	n
Zfp184	n
Mir1983	n
Pom121l2	y
Pom121l2	y
Prss16	y
Hist1h2bk	n
Cmah	n
Cmah	n
Gpld1	n
Aldh5a1	n
Aldh5a1	n
A330102l10Rik	n
A330102l10Rik	n
A330102l10Rik	n
A330102l10Rik	n
Exoc2	n
Exoc2	n
Gmds	n
Gmds	n
Gmds	n
Foxc1	n
Gmds	n
Foxc1	n
Gmds	n
Gmds	n
Gmds	n
Foxc1	n
Gmds	n
Gmds	n
Gmds	n
Foxc1	n
Foxc1	n
Mylk4	n

4930447K03Rik	n
Psmg4	n
Slc22a23	n
Psmg4	n
Gm15908	y
Gm15908	y
Pxdc1	y
Pxdc1	y
Pxdc1	y
Pxdc1	n
Ppp1r3g	y
Fars2	n
F13a1	n
Ly86	n
F13a1	n
F13a1	n
F13a1	n
Ssr1	n
Rreb1	n
Ssr1	n
Cage1	n
Bmp6	n
Tfap2a	n
Tfap2a	n
Tfap2a	y
Gm26688	n
Gm26688	n
Tfap2a	n
Tfap2a	n
Tfap2a	n
Tfap2a	n
Gcnt2	n
Tmem170b	n
Tbc1d7	n
Tbc1d7	n
Tbc1d7	n
Tbc1d7	n
Gfod1	n
Gfod1	n
Gfod1	n
Nol7	n

Nol7	n
Rnf182	n
Mcur1	n
Mcur1	n
Cd83	n
A330076C08Rik	n
Gm5083	n
Gm5083	n
Gm5083	n
Gm5083	n
A330076C08Rik	n
A330076C08Rik	n
Gm5083	n
A330076C08Rik	n
1700029N11Rik	n
A330076C08Rik	n
A330076C08Rik	n
1700029N11Rik	n
Dtnbp1	n
Jarid2	n
Dtnbp1	n
Jarid2	y
Mylip	n
Atxn1	n
Atxn1	n
Atxn1	n
Atxn1	n
Atxn1	n
Cap2	y
Cap2	y
Nup153	n
C78339	n
Kdm1b	n
Kdm1b	n
Nhlrc1	n
A930002C04Rik	n
A930002C04Rik	n
Rnf144b	n
Rnf144b	n
A930002C04Rik	n
4931429P17Rik	n



Phf2	n
Phf2	n
Phf2	n
Ninj1	y
Wnk2	y
Fgd3	n
Bicd2	n
Fgd3	n
lars	n
lars	n
Cenpp	n
9430083A17Rik	n
Shc3	n
Sema4d	n
Sema4d	n
Gadd45g	n
Gadd45g	n
Sema4d	n
Gadd45g	n
Sema4d	n
Gadd45g	n
Sema4d	n
Sema4d	n
Sema4d	n
Sema4d	n
Gadd45g	n
Gadd45g	n
4921525O09Rik	n
4921525O09Rik	n
Sema4d	n
4921525O09Rik	n
Syk	n
Gm2848	n
Gm2848	n
Syk	n
Nfil3	n
Ror2	n
Ror2	n
Gm2762	n
Ror2	n
Gm2762	n

Gm2762	n
Ror2	n
Gm2762	n
Ror2	n
Ror2	n
Gm2762	n
Ror2	n
Gm2762	n
Drd1	n
Hrh2	n
Drd1	n
Hrh2	n
Thoc3	n
Nop16	y
Unc5a	n
Unc5a	n
Fgfr4	n
Uimc1	n
Uimc1	n
Nsd1	y
Rab24	y
Rab24	y
Rab24	y
Rab24	y
Nsd1	y
Rab24	y
Nsd1	y
Nsd1	y
Nsd1	y
Rab24	y
Pfn3	y
Dbn1	y
Dok3	n
Prr7	n
Tmed9	y
Tmed9	y
Tmed9	y
Catsper3	n
Pitx1	n
H2afy	n
H2afy	n

Catsper3	n
H2afy	n
H2afy	n
H2afy	n
Catsper3	n
H2afy	n
H2afy	n
Catsper3	n
Catsper3	n
H2afy	n
H2afy	n
H2afy	n
H2afy	n
H2afy	n
H2afy	n
H2afy	n
Gm10782	n
Tifab	n
Gm10782	n
Slc25a48	y
Lect2	y
Smad5	y
Smad5	y
Trpc7	y
Trpc7	n
Spock1	n
Spock1	n
Spock1	n
1700066J03Rik	n
1700066J03Rik	n
Klhl3	n
1700066J03Rik	n
Hnrnpa0	n
Agtpbp1	n
Agtpbp1	n
Spata31d1d	n
Spata31d1d	n
Spata31d1d	n
4930528D03Rik	n
Gas1	n
Gas1	n

Gas1	n
BC051665	n
BC051665	n
Cts3	n
Cts3	n
Fbp2	y
2010111I01Rik	y
Fbp1	y
2010111I01Rik	n
Fbp1	n
2010111I01Rik	n
2010111I01Rik	n
Gm16907	n
Gm16907	n
2010111I01Rik	n
Ptch1	n
Ercc6l2	n
Habp4	n
Habp4	n
Hsd17b3	n
Habp4	n
Hsd17b3	n
Zfp367	y
Zfp367	y
Habp4	y
Zfp367	y
Habp4	y
Habp4	y
Zfp367	y
2410141K09Rik	n
BC048507	n
4930525G20Rik	n
1700001L19Rik	n
Nsun2	n
Nsun2	n
Nsun2	n
Nsun2	n
Nsun2	n
Ube2ql1	n
Ube2ql1	n
4930520P13Rik	n

1700100L14Rik	n
8030423J24Rik	n
Mir466f-4	n
Irx2	n
Irx4	n
Lpcat1	n
Zfp825	n
Zfp825	n
Ell2	n
Mctp1	n
Ankrd32	n
9330111N05Rik	n
Mir3961	n
Arsb	n
AW495222	n
AW495222	n
AW495222	n
AW495222	n
Arsb	n
Lhfpl2	n
Lhfpl2	n
Scamp1	n
Ap3b1	n
Gm9776	n
Ap3b1	n
Gm9776	n
Ap3b1	n
Gm9776	n
Gm9776	n
Tbca	n
Pde8b	n
Zbed3	n
F2r	n
F2rl2	n
F2rl2	n
F2r	y
F2r	y
F2rl2	n
F2rl2	n
F2rl2	n
F2rl2	n

Sv2c	n
Sv2c	n
Gcnt4	y
1700029F12Rik	n
Fam169a	n
Fam169a	y
Enc1	n
Enc1	n
Enc1	n
Hexb	n
Hexb	n
Enc1	n
Hexb	n
Hexb	n
Hexb	n
Hexb	n
Hexb	n
Lincenc1	n
Hexb	n
Lincenc1	n
Lincenc1	n
Lincenc1	n
Hexb	n
Hexb	n
Arhgef28	n
Arhgef28	n
2310005E17Rik	n
Foxd1	n
Tmem171	n
Zfp366	n
Taf9	y
Taf9	n
Taf9	n
Marveld2	n
5930438M14Rik	n
4933416M06Rik	y
Pik3r1	n
4933416M06Rik	n
Pik3r1	n
Pik3r1	n
Mast4	n

Nln	y
Trim23	n
Cwc27	n
Htr1a	n
1700006H21Rik	n
1700006H21Rik	n
Ercc8	n
Ndufaf2	n
Ndufaf2	n
Ndufaf2	n
Ndufaf2	n
Rab3c	n
Pde4d	n
Pde4d	n
Actbl2	n
Actbl2	n
3110015C05Rik	n
Mier3	n
Gpbp1	n
Gm15326	n
Map3k1	n
Map3k1	n
Ankrd55	n
Il6st	n
Il6st	n
Il31ra	n
Ddx4	n
Gpx8	y
Esm1	n
Esm1	n
Snx18	n
Arl15	n
Arl15	n
Arl15	y
Snx18	y
Snx18	y
Hspb3	y
Hspb3	y
Arl15	n
Itga2	n
Itga2	n

Gm6416	y
Parp8	n
Parp8	n
Emb	y
Emb	y
Parp8	y
Emb	y
Emb	y
Hcn1	n
4933413L06Rik	n
Hcn1	n
4933413L06Rik	n
Hcn1	n
Hcn1	n
Hcn1	n
4933413L06Rik	n
4933413L06Rik	n
Nim1k	n
Hmgcs1	n
Hmgcs1	n
Hmgcs1	n
Gm3500	n
Flnb	n
Dnase1l3	y
Acox2	n
Fhit	n
Mnd1-ps	n
Ptprg	n
Thoc7	n
Atxn7	n
Atxn7	n
Thoc7	n
Il3ra	y
Olf720	y
Olf720	y
Slc4a7	n
Slc4a7	n
Nkiras1	n
Ube2e2	n
Ube2e2	n
2700060E02Rik	n



Nid2	y
2700060E02Rik	y
Nid2	y
D14Ertd670e	y
Gng2	y
D14Ertd670e	y
D14Ertd670e	y
Nudt13	n
1810062O18Rik	n
Synpo2l	n
Synpo2l	n
Zswim8	n
Camk2g	n
Zswim8	n
Camk2g	n
Zswim8	n
Camk2g	n
Camk2g	n
Ap3m1	n
Kat6b	n
Dupd1	n
Dupd1	n
Dupd1	n
Vdac2	n
Vdac2	n
Comtd1	n
Comtd1	n
Zfp503	n
1700112E06Rik	n
1700112E06Rik	y
1700112E06Rik	y
Zfp503	y
Zfp503	y
Zfp503	y
Zfp503	y
Zfp503	y
1700112E06Rik	y
Zfp503	y
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Zfp503	y
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1700112E06Rik	y
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Zfp503	y
1700112E06Rik	y
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1700112E06Rik	y
Zfp503	y
Zfp503	y
1700112E06Rik	y
Zfp503	y
Zfp503	n
Zfp503	n
Zfp503	n
4930405A10Rik	n
Polr3a	n
Zmiz1	n
Zmiz1	n
4930572O13Rik	n
4930572O13Rik	n
Zmiz1	n
Zmiz1	n
Zmiz1	n
4930572O13Rik	n
Zmiz1	n
4930572O13Rik	n
4930572O13Rik	n
4930572O13Rik	n
Zmiz1	n

4930572O13Rik	n
Zmiz1	n
4930572O13Rik	n
4930572O13Rik	n
Zmiz1	n
4930572O13Rik	n
Ppifos	n
Zmiz1	n
Ppifos	n
Zmiz1	n
Ppifos	n
Ppifos	n
Ppifos	n
Ppifos	n
Zmiz1	n
Ppifos	n
Zmiz1	n
Ppifos	n
Ppifos	n
Ppif	n
Ppif	n
Zcchc24	n
Anxa11	n
Il17rd	n
Il17rd	n
Il17rd	n
Il17rd	n
Il17rd	n
App1	n
Arhgef3	n
Cacna1d	n
Cacna1d	n
Cacna1d	y
Tkt	n
Prkcd	n
Nt5dc2	n
Bap1	n
Dnah1	y
Capn7	n
Sh3bp5	n
Capn7	n

Sh3bp5	n
Colq	n
Btd	n
Dph3	n
Dph3	n
Prrxl1	n
3425401B19Rik	n
Wdfy4	n
Arhgap22	n
Mapk8	n
Syt15	n
Syt15	y
Syt15	y
Gprin2	y
Gm3219	n
Mmrn2	y
Opn4	n
Wapal	n
Wapal	n
Opn4	n
Wapal	n
Opn4	n
Wapal	n
Opn4	n
Wapal	n
Wapal	n
Tspan14	n
Dydc1	n
Fam213a	n
Fam213a	n
Mbl1	n
Ptgdr	n
Styx	n
Gm1821	n
Gm15217	n
Bmp4	y
Rubie	n
Samd4	y
Gm10371	n
Lgals3	n
Dlgap5	n

Dlgap5	n
Dlgap5	n
Ktn1	n
Atg14	n
Apex1	n
Apex1	n
Klhl33	n
Apex1	n
Klhl33	n
Rnase9	y
Slc39a2	y
Tppp2	n
Rnase13	n
Rnase13	n
Rnase13	n
Gm16617	n
Arhgef40	n
Arhgef40	n
Zfp219	n
Arhgef40	n
Zfp219	n
Hnrnpc	n
Rpgrip1	n
Chd8	n
Sall2	y
Tox4	y
Sall2	y
Tox4	y
Tox4	y
Tox4	y
Abhd4	n
Dad1	n
Abhd4	n
Dad1	n
Dad1	n
Dad1	n
Dad1	n
Dad1	n
Dad1	n
Slc7a7	y
Mrpl52	y



Zfhx2	n
Thtpa	y
Thtpa	n
Thtpa	y
Jph4	y
Jph4	n
Thtpa	n
Jph4	n
Thtpa	n
Jph4	n
Thtpa	n
Jph4	n
Jph4	n
Jph4	n
Jph4	n
Thtpa	y
Thtpa	y
Jph4	y
Thtpa	n
Jph4	n
Nop9	n
Ltb4r2	y
Ltb4r2	y
Cideb	y
Cideb	y
Ltb4r1	y
Adcy4	y
Adcy4	y
Ripk3	y
Nfatc4	y
Ripk3	y
Ripk3	y
Ripk3	y
Nfatc4	y
Nfatc4	y
Nfatc4	y
Nfatc4	y
Ripk3	n
Ripk3	n
Ripk3	n

Ripk3	n
Nfatc4	n
Ripk3	n
Nfatc4	n
Ripk3	n
Ripk3	n
Ripk3	n
Ripk3	n
Gm16973	n
Gjb6	n
Cryl1	n
Cryl1	n
N6amt2	n
N6amt2	n
Il17d	n
Il17d	n
Lats2	y
Lats2	y
Sap18	y
Atp8a2	n
Atp8a2	n
Spata13	n
Sgcg	n
Ebpl	n
Ebpl	n
Dleu2	n
Dleu2	n
Dleu2	n
Kcng	n
Dleu2	n
Kcng	n
Kcng	n
Kcng	n
Kcng	n
Kcng	n
Kcng	n
Kcng	n
Dleu2	n
Dleu2	n
Kcng	n
Dleu2	n
Kcng	n



Kcnrg	n
Kcnrg	n
Dleu2	n
Dleu2	n
Dleu2	n
Gucy1b2	n
Defb30	n
Ctsb	y
Fam167a	n
Pinx1	n
4930578I06Rik	n
Sox7	n
4930578I06Rik	y
Sox7	n
Sox7	n
Sox7	n
Sox7	n
Sox7	n
Rp111	n
Prss55	n
Prss51	n
Prss55	n
Prss55	n
Prss51	n
Prss52	n
Prss52	n
Prss52	n
Msra	n
Prss52	n
Prss52	n
Prss52	n
Prss52	n
Prss52	n
Msra	n
Msra	n
Zfp395	n
Zfp395	n
Scara5	n
Clu	y
Clu	y
Clu	n

Bnip3l	y
Ebf2	n
Ebf2	n
Gm6878	n
4930438E09Rik	n
Kctd9	n
Nefl	y
Nefl	y
Nefm	n
Nefm	n
Stc1	n
Nkx2-6	n
Pebp4	n
Rhobtb2	y
Pebp4	n
Pebp4	n
Pebp4	n
Pebp4	n
Rhobtb2	n
Pebp4	n
Pebp4	n
Pebp4	n
Pebp4	n
Ccar2	n
Ccar2	n
Pebp4	n
Pebp4	n
Pebp4	n
Ccar2	n
Ccar2	n
Pebp4	n
Pebp4	n
Ccar2	n
Bin3	y
Bin3	y
Bin3	y
Nudt18	n
Nudt18	n
Nudt18	n
Nudt18	n
Dmtn	y

Nudt18	y
Nudt18	y
Dmtn	y
Dmtn	y
Nudt18	y
Fgf17	y
Nudt18	y
Fgf17	y
Fgf17	y
Nudt18	y
Nudt18	y
Nudt18	n
Dok2	n
Xpo7	n
Xpo7	n
2410012E07Rik	n
4930434J06Rik	n
4930434J06Rik	n
Gm9199	n
Gm9199	n
Rcbtb2	n
Med4	n
Tpt1	n
Gm4285	n
Nufip1	n
Gpalpp1	n
Gpalpp1	n
Nufip1	n
Tsc22d1	n
4930444M15Rik	y
4930444M15Rik	y
4930444M15Rik	y
4930444M15Rik	n
4930444M15Rik	n
Serp2	n
Serp2	n
Serp2	n
Serp2	n
1700108F19Rik	n
Enox1	n
Gm6994	n

Gm6994	n
Tnfsf11	n
Dgkh	n
Dgkh	y
Vwa8	y
Dgkh	y
Vwa8	y
Dgkh	y
Dgkh	y
Vwa8	n
Vwa8	n
Elf1	n
9630013A20Rik	n
Diap3	n
Pcdh9	n
Uchl3	n
Irg1	n
Slain1	n
Slain1os	n
Slain1os	n
Ednrb	n
Ednrb	n
5430440P10Rik	n
4930449E01Rik	n
4930449E01Rik	n
Mir6390	n
Mir6390	n
Trim52	n
Spry2	n
Trim52	n
Trim52	n
Sox21	n
Sox21	n
Cldn10	n
Cldn10	n
Dzip1	n
Dnajc3	y
Dzip1	y
Dnajc3	y
Dzip1	y
Oxgr1	n



Clybl	n
Clybl	n
Zic2	n
Zic2	n
Zic2	n
Zic2	n
Zic2	n
Zic5	n
Egflam	n
2410089E03Rik	n
Skp2	n
Prlr	n
Dnajc21	n
Rxfp3	y
Rxfp3	y
Golph3	n
Golph3	n
Pdzd2	n
Pdzd2	n
Pdzd2	n
Pdzd2	n
Gm5468	n
Myo10	n
Basp1	y
Myo10	n
Myo10	n
Otulin	y
Otulin	y
Ank	n
Trio	n
Trio	n
Ank	n
Dnah5	n
Trio	n
Dnah5	n
Trio	n
Ankrd33b	n
Ankrd33b	n
Ankrd33b	n
Ankrd33b	n
Ankrd33b	y

Ankrd33b	y
Matn2	n
Rnf19a	n
Spag1	n
Spag1	n
Ankrd46	n
Snx31	y
Pabpc1	n
Grhl2	n
Grhl2	n
Grhl2	n
Grhl2	n
Grhl2	n
Ywhaz	n
Grhl2	n
Ywhaz	n
Grhl2	n
Grhl2	y
Ncald	y
Ncald	y
Ncald	y
Grhl2	n
Grhl2	n
Ncald	n
Ncald	n
Odf1	y
Ubr5	y
Odf1	y
Ubr5	y
Ubr5	y
Odf1	n
Odf1	n
Odf1	n
Klf10	n
Odf1	n
Odf1	n
Azin1	n
Atp6v1c1	n
Dpys	n
Trhr	y
Tmem74	y

4930523O13Rik	n
Eif3h	n
Gm9920	n
Gm9920	n
Deptor	n
Deptor	n
Gm9920	n
Gm9920	n
Gm9920	n
Zhx2	n
Ndufb9	n
Mtss1	n
Mtss1	n
Mtss1	n
Ndufb9	y
Mtss1	y
Mtss1	y
Mtss1	y
Sqle	n
Gm19510	n
Trib1	n
Gm19510	n
Trib1	n
Gm19510	n
Trib1	n
Gm19510	n
Trib1	n
Gm19510	n
Trib1	n
Gm19510	n
Trib1	n
Gm19510	n
Trib1	n
Trib1	n
9930014A18Rik	n
Fam84b	n
Fam84b	n
Fam84b	n
Pvt1	n
Pvt1	n
Pvt1	n
1700065I16Rik	n
1700065I16Rik	n



1700065I16Rik	n
1700065I16Rik	n
Gsdmc	n
1700065I16Rik	n
Gsdmc	n
Gsdmcl-ps	n
Asap1	n
Wisp1	y
Wisp1	n
Wisp1	y
St3gal1	n
Wisp1	n
St3gal1	n
St3gal1	n
Gm19782	n
Chrac1	n
Chrac1	y
Dennd3	n
Dennd3	n
Dennd3	n
Ptk2	n
Ptk2	n
Dennd3	n
Dennd3	n
Ptp4a3	n
Gpr20	n
Ptp4a3	n
Ptp4a3	n
Ptp4a3	n
Mroh4	y
Arc	n
4933427E11Rik	n
Lynx1	n
Top1mt	n
Top1mt	n
Top1mt	n
Top1mt	n
Rhpn1	n
Top1mt	n
Rhpn1	n
Rhpn1	n

Rhpn1	n
Mafa	n
Gsdmd	n
Gsdmd	n
Zc3h3	n
Zc3h3	n
Tigd5	y
Tigd5	y
Tigd5	y
Eef1d	y
Eef1d	y
Mapk15	y
Mapk15	n
Mapk15	n
Mapk15	y
Mapk15	y
Mapk15	y
Nrbp2	y
Plec	y
Plec	y
Grina	y
Plec	y
Grina	y
Plec	y
Grina	y
Plec	y
Grina	y
Grina	y
Plec	y
Plec	y
Plec	y
Grina	y
Grina	y
Parp10	n
Spatc1	y
Mroh1	n
Bop1	y
Scx	n
Scx	n
Bop1	n
Bop1	n

Scrt1	n
Adck5	y
Kifc2	n
Foxh1	n
Kifc2	n
Foxh1	n
Kifc2	n
Kifc2	n
Foxh1	n
Foxh1	n
Kifc2	n
Kifc2	n
Kifc2	n
Foxh1	n
Foxh1	n
Foxh1	n
Kifc2	n
Kifc2	n
Kifc2	n
Foxh1	n
Foxh1	n
Foxh1	n
Foxh1	n
Kifc2	n
Foxh1	n
Kifc2	n
Kifc2	n
Kifc2	n
Arhgap39	y
Rbfox2	n
Apol10a	n
Apol10a	n
Apol10a	n
Apol10a	n
Apol9b	n
Myh9	n
Apol9b	n
Apol9b	n
Apol9b	n
Txn2	n
Txn2	n

Ncf4	n
Ncf4	n
Ncf4	n
Ncf4	n
Mpst	n
Tst	n
Tst	n
Tst	n
Tst	n
Tst	n
Tst	n
Tst	n
Mpst	n
Mpst	n
Mpst	n
Mpst	n
Tst	n
Mpst	n
Kctd17	n
Kctd17	n
Tmprss6	n
Kctd17	n
Tmprss6	n
Tmprss6	n
Tmprss6	n
Cyth4	n
Elfn2	n
Cyth4	n
Elfn2	n
Elfn2	n
Elfn2	n
Elfn2	n
Elfn2	n
Elfn2	n
Cyth4	n
Cyth4	n
Cyth4	n
Elfn2	n
Card10	y
Card10	y

Card10	y
Cdc42ep1	y
Cdc42ep1	y
Card10	y
Cdc42ep1	y
Card10	y
Lgals2	n
Cdc42ep1	n
Cdc42ep1	n
Cdc42ep1	n
Cdc42ep1	n
Cdc42ep1	y
Lgals2	y
Cdc42ep1	n
Cdc42ep1	n
Cdc42ep1	n
Cdc42ep1	n
Lgals2	n
Gga1	n
Gga1	n
Lgals2	n
Lgals2	n
Gga1	n
Pdpx	n
Pdpx	n
Gm10865	n
Triobp	n
Triobp	n
H1f0	n
Ankrd54	n
Maff	n
Kdelr3	y
Sun2	n
Sun2	n
Nptxr	n
Apobec3	y
Cbx7	y
Apobec3	n
Cbx7	n
Cbx7	n
Syng1	n

Syng1	n
Pdgfb	n
Syng1	n
Pdgfb	n
Syng1	n
Pdgfb	n
Syng1	n
Rpl3	n
Syng1	n
Syng1	n
Syng1	n
Rpl3	n
Syng1	n
Syng1	n
Syng1	n
Syng1	n
Rpl3	n
Syng1	n
Rpl3	n
Rpl3	n
Rpl3	n
Syng1	n
Syng1	y
Rpl3	y
Rpl3	y
Rpl3	y
Syng1	y
Rpl3	y
Rpl3	y
Rps19bp1	n
Enthd1	n
Enthd1	n
Cacna1i	n
Enthd1	n
A430088P11Rik	n
Fam83f	y
Mkl1	n
4930483J18Rik	n
4930483J18Rik	n
Mkl1	n

Mkl1	n
Mkl1	n
4930483J18Rik	y
Chadl	n
Csdc2	n
Csdc2	y
Pmm1	n
Shisa8	n
Srebf2	n
Shisa8	n
Gm20324	y
Tcf20	n
Gm20324	n
Tcf20	n
Tcf20	n
Tcf20	n
Tcf20	n
Gm20324	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Gm20324	n
Mir3080	n
Nfam1	n
Nfam1	n
Gm20324	n
Gm20324	n

Serhl	n
Serhl	n
Rrp7a	n
A4galt	y
Bik	n
Bik	n
Bik	y
Ttll1	y
Ttll1	y
Ttll1	y
Ttll1	y
Tspo	y
Pnpla5	n
Parvb	n
Pnpla5	n
Parvb	n
Pnpla5	n
Parvb	n
Pnpla5	n
Pnpla5	n
Pnpla5	n
Parvb	n
Pnpla5	n
1810041L15Rik	n
1810041L15Rik	n
Parvg	n
Parvg	n
1810041L15Rik	n
1810041L15Rik	n
Prr5	n
Prr5	n
Arhgap8	y
Gm20556	y
Arhgap8	n
Arhgap8	n
Arhgap8	n
Arhgap8	n
Arhgap8	n
Phf21b	n
Phf21b	n
Arhgap8	n



Phf21b	n
Arhgap8	n
Phf21b	n
Arhgap8	n
Phf21b	n
Arhgap8	n
Arhgap8	n
Arhgap8	n
Smc1b	n
Ribc2	n
Atxn10	y
AU022754	n
AU022754	n
AU022754	n
AU022754	n
Wnt7b	n
Wnt7b	n
Wnt7b	n
AU022754	n
AU022754	n
AU022754	n
Cdpf1	n
Celsr1	n
Celsr1	n
Trmu	n
Trmu	n
Celsr1	n
Celsr1	n
Celsr1	n
Celsr1	n
Gramd4	n
Gramd4	n
Gramd4	n
Gramd4	n
Gramd4	n
Cerk	n
Creld2	n
Panx2	y
Panx2	y
1810021B22Rik	n
1810021B22Rik	n

Panx2	n
Panx2	n
1810021B22Rik	n
1810021B22Rik	n
Panx2	n
Panx2	n
Panx2	n
Panx2	n
1810021B22Rik	n
1810021B22Rik	n
1810021B22Rik	n
1810021B22Rik	n
1810021B22Rik	n
Hdac10	y
Plxnb2	y
Adm2	y
Adm2	y
Adm2	y
Sbf1	y
Sbf1	y
Sbf1	y
Adm2	y
Sbf1	y
Sbf1	y
Sbf1	y
Ncaph2	y
Tymp	y
Tymp	y
Syce3	n
Mapk8ip2	y
Arsa	n
Arsa	n
Acr	n
Acr	n
Pphln1	n
D630010B17Rik	n
Tmem117	n
Tmem117	n
Tmem117	n
Dbx2	y
Dbx2	y

Ano6	n
2610037D02Rik	n
Gm4371	n
2610037D02Rik	n
Arid2	n
Slc38a2	n
Slc38a2	y
Slc38a4	n
Amigo2	n
Amigo2	n
Pced1b	n
Pced1b	n
Amigo2	n
Amigo2	n
Amigo2	n
Pced1b	n
Pced1b	n
Amigo2	n
Pced1b	n
Pced1b	n
Amigo2	n
Amigo2	n
Slc48a1	n
Slc48a1	n
Rapgef3	n
Slc48a1	y
Rapgef3	y
Slc48a1	n
Slc48a1	y
Hdac7	y
Hdac7	y
Hdac7	n
Slc48a1	y
Hdac7	n
Hdac7	n
Hdac7	n
Hdac7	y
Tmem106c	n
Tmem106c	n
Pfkm	y
Cacnb3	y

Cacnb3	y
Ddx23	y
Wnt1	n
Wnt1	n
Wnt10b	y
Wnt10b	y
Wnt1	y
Wnt10b	y
Wnt1	n
Wnt1	n
Wnt10b	n
Wnt10b	n
Wnt10b	n
Wnt10b	n
Wnt10b	n
Wnt10b	n
Wnt10b	n
Wnt10b	n
Ddn	n
Ddn	y
Wnt1	y
Dhh	n
Dhh	n
4930578M01Rik	n
Dhh	y
4930578M01Rik	n
Tuba1c	n
Tuba1c	n
C1ql4	n
Prph	y
C1ql4	n
C1ql4	n
Dnajc22	n
Dnajc22	n
Spats2	y
Prpf40b	n
Fmnl3	n
Fmnl3	n
Fmnl3	n
Fmnl3	y
Nckap5l	n
Faim2	n

Aqp2	y
Racgap1	y
Racgap1	n
Cers5	n
Smarcd1	n
Cers5	n
Cers5	n
Larp4	n
Lima1	n
Lima1	n
Tmprss12	n
Slc11a2	y
Dazap2	n
Dazap2	n
Cela1	n
Cela1	n
Cela1	n
Cela1	n
Galnt6	y
Slc4a8	y
Figl2	n
Figl2	n
Scn8a	n
Figl2	n
Scn8a	n
Scn8a	n
Scn8a	n
Figl2	n
Figl2	n
Figl2	n
Acvrl1	n
Acvrl1	n
Acvrl1	n
A330009N23Rik	n
Acvr1b	n
A330009N23Rik	y
6030408B16Rik	n
6030408B16Rik	n
Krt80	n
Krt80	n
Krt80	n

Krt80	n
Krt85	n
Krt74	n
Krt18	n
Krt18	n
Krt18	y
Krt8	y
Krt8	y
Krt8	y
Krt18	y
Spryd3	n
Spryd3	n
Spryd3	n
Tenc1	n
Tenc1	n
Spryd3	n
Spryd3	n
Tenc1	n
Tenc1	n
Igfbp6	y
Igfbp6	y
Igfbp6	y
Igfbp6	y
Spryd3	y
Spryd3	y
Spryd3	y
Spryd3	y
Igfbp6	y
Spryd3	y
Spryd3	y
Igfbp6	y
Spryd3	y
Igfbp6	y
Soat2	n
Rarg	n
Rarg	y
Rarg	y
Mfsd5	y
Rarg	y
Sp7	n
Myg1	y

Myg1	y
Myg1	n
Sp7	n
Sp7	n
Sp7	n
Map3k12	n
Tarbp2	n
Tarbp2	n
Tarbp2	n
Hotair	y
Hotair	y
Hoxc4	y
Hoxc4	n
Hoxc4	n
Smug1	n
Hnrnpa1	n
Hnrnpa1	n
Copz1	y
Copz1	y
Copz1	y
Copz1	y
Copz1	y
Copz1	y
Copz1	y
Gpr84	y
Gpr84	y
Gpr84	y
Copz1	y
Zfp385a	n
Zfp385a	n
Zfp385a	n
Zfp385a	n
Copz1	n
Zfp385a	n
Copz1	n
Zfp385a	n
Copz1	n
Zfp385a	n
Copz1	n
Copz1	y
Pde1b	n

Pde1b	n
Zfp263	n
Zfp263	n
Glis2	y
Glis2	y
Adcy9	y
Glis2	y
Pam16	y
Glis2	n
Pam16	n
Dnaja3	n
Hmox2	y
Ubn1	n
1810013L24Rik	y
1810013L24Rik	n
Emp2	n
Tnp2	y
Rmi2	y
Rmi2	y
Rmi2	y
Rmi2	y
Rmi2	y
Prm1	y
Prm1	y
Prm1	y
Prm1	n
Prm1	n
Rmi2	n
Gm4262	n
Gm4262	n
Litaf	n
Snx29	n
Mir1945	n
Snx29	n
Snx29	n
Cpped1	n
Cpped1	n
Mir193b	n
Mir193b	n
Mir193b	n
Mir6365	n



Mir193b	n
Pdxdc1	n
Pdxdc1	n
Pdxdc1	n
Ntan1	n
Ppm1f	n
Ppil2	n
Ydjc	y
Ydjc	y
Ccdc116	y
Ydjc	y
Ccdc116	y
Ydjc	y
Ccdc116	y
Ydjc	y
Ydjc	y
Ydjc	y
Ube2l3	y
Ube2l3	y
Hic2	y
Hic2	y
Ube2l3	y
Hic2	n
Pi4ka	n
Aifm3	y
Thap7	n
Lrrc74b	y
P2rx6	y
P2rx6	y
P2rx6	y
Scarf2	n
Tssk2	y
Mir6366	n
Rtn4r	n
Mir6366	n
Zdhhc8	y
Arvcf	y
Arvcf	n
Arvcf	n
Comt	n
Gnb1l	n



Clcn2	n
Clcn2	n
Teddm3	n
Ephb3	n
Gm16863	n
Ephb3	n
Gm16863	n
Ephb3	n
Ephb3	n
Gm16863	n
Gm16863	n
Vps8	n
Vps8	n
Gm16863	n
Vps8	n
Vps8	n
2510009E07Rik	n
Tmem41a	n
Senp2	n
Etv5	y
Dgkg	n
Dgkg	n
Dgkg	n
Crygs	n
Rfc4	n
Lpp	n
Lpp	n
Lpp	n
1110054M08Rik	y
Lpp	y
Lpp	y
1110054M08Rik	y
Lpp	y
1110054M08Rik	y
1110054M08Rik	n
Atp13a4	n
Opa1	n
4632428C04Rik	n
Gm1968	n
4632428C04Rik	n
4632428C04Rik	n

Gm1968	n
4632428C04Rik	n
Gm1968	n
Gm1968	n
Gm1968	n
Gm1968	n
4632428C04Rik	n
4632428C04Rik	n
9030404E10Rik	n
4632428C04Rik	n
9030404E10Rik	n
4632428C04Rik	n
9030404E10Rik	n
9030404E10Rik	n
9030404E10Rik	n
Hes1	n
9030404E10Rik	n
9030404E10Rik	n
9030404E10Rik	n
Hes1	n
Hes1	n
9030404E10Rik	n
Hes1	n
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9030404E10Rik	n
Hes1	n
Hes1	n
Hes1	n
Hes1	n
Hes1	n
9030404E10Rik	n
9030404E10Rik	n
9030404E10Rik	n
9030404E10Rik	n
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9030404E10Rik	n
9030404E10Rik	n
Hes1	n
9030404E10Rik	n
9030404E10Rik	n
Hes1	n
9030404E10Rik	n
9030404E10Rik	n
Hes1	n
Hes1	n
Cpn2	n
Cpn2	n
Hes1	n
Cpn2	n
Cpn2	n
Cpn2	n
Hes1	n
Lrrc15	n
Fam43a	n
Fam43a	n
Mir1195	n
Mir1195	n
Fam43a	n
Fam43a	n
Fam43a	n
Fam43a	n
Fam43a	n
Fam43a	n
Bdh1	n
Bdh1	n
Apod	n
Bdh1	n
Bdh1	n
Apod	n
Dlg1	n
Dlg1	n
Apod	n
Pigz	n
0610012G03Rik	n
Pigz	n
Bex6	n

Nrros	n
Muc4	n
Lmln	y
Lmln	y
Iqcg	y
Snx4	n
Slc12a8	n
Slc12a8	n
Slc12a8	n
Itgb5	n
Itgb5	n
Umps	n
Ropn1	n
Mylk	n
Mylk	n
Adcy5	y
Sema5b	n
Sema5b	n
Pdia5	n
Sema5b	n
Sema5b	n
Sema5b	n
Hspbap1	n
Hspbap1	n
Hspbap1	y
Slc15a2	n
Slc15a2	n
Ildr1	n
Hgd	n
Ndufb4	n
Lrrc58	n
Cox17	n
Cd80	y
Cd80	y
Pla1a	y
Timmdc1	y
Tmem39a	n
Arhgap31	n
Tmem39a	n
Gap43	n
Tigit	n

2610015P09Rik	n
Naa50	n
Naa50	n
Atp6v1a	n
Boc	n
Cfap44	n
Cfap44	n
Cfap44	n
BC027231	n
Gtpbp8	n
Gcsam	n
Retnlb	n
Retnlb	n
Retnlb	n
Gm4827	n
Ccdc54	n
Mir6363	n
Cmss1	n
Pros1	n
Epha3	n
Robo1	n
4930578N18Rik	n
Nrip1	n
Ncam2	n
Jam2	n
Bach1	n
Bach1	n
Grik1	n
Gm10789	y
Tiam1	y
Gm10789	n
Tiam1	n
Tiam1	n
Tiam1	y
Tiam1	y
Sod1	n
Scaf4	n
Scaf4	n
Scaf4	n
Hunk	n
Hunk	n

Mis18a	n
Mis18a	n
Mrap	n
Mrap	n
Mrap	n
1110004E09Rik	n
4930404I05Rik	y
Olig2	n
4932438H23Rik	n
4932438H23Rik	n
Olig1	y
Olig1	n
Olig1	n
4932438H23Rik	n
Olig1	n
Olig1	n
4932438H23Rik	n
Olig1	n
Olig1	n
4932438H23Rik	n
Olig1	n
Olig1	n
4932438H23Rik	n
Olig1	n
4932438H23Rik	n
Tmem50b	n
Atp5o	n
Slc5a3	n
Mrps6	n
Smim11	y
2410124H12Rik	n
2410124H12Rik	n
Rcan1	n
Rcan1	n
2410124H12Rik	n
2410124H12Rik	n
Rcan1	n
Clic6	y
Runx1	y
Clic6	y
Runx1	y



Clic6	y
Clic6	y
Clic6	y
Clic6	y
Clic6	y
Clic6	y
Runx1	y
Runx1	y
Clic6	y
Runx1	y
Clic6	y
Runx1	y
Runx1	y
Clic6	y
Runx1	y
Runx1	y
Runx1	y
Clic6	n
Runx1	n
Runx1	n
Runx1	n
Runx1	n
Mir802	n
Mir802	n
Runx1	n
Mir802	n
Runx1	n
Runx1	n
Runx1	n
Runx1	n
1700029J03Rik	n
Cbr1	n
Cbr1	n
Cldn14	n
Cldn14	n
Kcnj6	n
Erg	y
Kcnj15	n
Erg	n
Ets2	n
Ets2	n

Erg	n
Ets2	n
Wrb	n
Sh3bgr	y
Mx2	y
Scaf8	n
Scaf8	n
Tiam2	n
Tfb1m	n
4930548J01Rik	n
Arid1b	n
Tmem242	n
Tmem242	n
Sytl3	n
Rnaset2b	n
Rnaset2b	n
Rnaset2b	n
Rnaset2b	n
Rnaset2b	n
Mir692-1	n
Rnaset2b	n
Rnaset2b	n
Mir692-1	n
Mir692-1	n
Mir692-1	n
Ttll2	n
Fndc1	n
Tagap	n
Fndc1	n
Fndc1	n
Tagap	n
T2	n
T2	n
T2	n
Gm16702	n
Gm16702	n
Gm16702	y
B930003M22Rik	n
A230009B12Rik	n
Park2	n
Pacrg	n

D17Ertd648e	n
Park2	n
D17Ertd648e	n
D17Ertd648e	n
Map3k4	n
Slc22a3	y
C030013G03Rik	y
C030013G03Rik	y
Slc22a3	y
C030013G03Rik	y
Slc22a3	y
C030013G03Rik	y
Slc22a3	y
Airn	n
Tcp10c	n
Smok4a	n
Mllt4	n
Mllt4	n
Ermard	n
Ermard	n
Dll1	n
Mir125a	y
Spaca6	n
6330415G19Rik	n
6330415G19Rik	n
Zfp213	n
Zfp213	n
Zfp213	n
Zfp213	n
Kremen2	n
9530082P21Rik	y
Kremen2	y
9530082P21Rik	y
9530082P21Rik	y
Prss27	n
Ntn3	y
Abca3	y
Rab26	n
Pkd1	n
Rab26	n
Pkd1	n



Dusp1	n
Dusp1	n
Dusp1	n
Dusp1	n
Neurl1b	n
Dusp1	n
Neurl1b	n
Dusp1	n
Neurl1b	n
Dusp1	n
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Neurl1b	n
Neurl1b	n
Neurl1b	n
Dusp1	n
Dusp1	n
Dusp1	n
Dusp1	n
Ergic1	n
Cuta	y
Mir3083	n
Mir3083	n
Syngap1	n
Syngap1	n

Syngap1	n
Mir3083	n
Syngap1	n
Mir3083	n
Syngap1	n
Mir3083	n
Syngap1	n
Mir3083	n
Bak1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Ggnbp1	n
Bak1	n
Itpr3	n
Itpr3	n
Bak1	n
Bak1	y
Uqcc2	n
Uqcc2	n
Itpr3	y
Ip6k3	n
Itpr3	n
Lemd2	n
Lemd2	n
Lemd2	n
Mir7216	n
Lemd2	n
Lemd2	n
Mir7218	n
Grm4	y
Hmga1	y
Grm4	y
Hmga1	y

Hmga1	y
Grm4	y
Grm4	y
Grm4	y
Hmga1	y
Hmga1	n
Pacsin1	y
Pacsin1	n
Tcp11	n
Tcp11	n
Anks1	n
Tcp11	n
Anks1	n
Tcp11	n
Anks1	n
Tcp11	n
Anks1	n
Tcp11	n
Anks1	n
Tcp11	n
Anks1	n
Tcp11	n
Anks1	n
Tcp11	n
Scube3	n
Scube3	y
Scube3	n
Scube3	n
Scube3	n
Scube3	n
Mir5098	n
Mir5098	n
Zfp523	n
Zfp523	n
Zfp523	n
Mir5098	n
Def6	n
Mir5098	n
Mir5098	n
Mir5098	n

Rpl10a	y
Tead3	y
Rpl10a	y
Rpl10a	n
Tead3	n
Tead3	n
Tead3	n
Rpl10a	n
Rpl10a	n
Tead3	n
Tead3	n
Rpl10a	y
Tead3	y
Tulp1	y
Tulp1	y
Tulp1	y
Tulp1	y
Rpl10a	n
Tulp1	n
Tulp1	n
Tulp1	n
Tulp1	n
Tulp1	n
Rpl10a	y
Armc12	n
Armc12	n
Fkbp5	n
Armc12	n
Armc12	n
Clps	y
Clps	y
Clps	y
Armc12	y
Pnpla1	n
Pnpla1	n
4930539E08Rik	n
4930539E08Rik	n
4930539E08Rik	n
Kctd20	y
Srsf3	n
Rab44	n



Rab44	n
Rab44	n
Rab44	n
Cpne5	n
Pi16	n
Mtch1	n
Pi16	n
Pi16	n
Mtch1	n
Mtch1	n
Pi16	n
Pi16	n
Pi16	n
Mtch1	n
Pi16	n
Mtch1	n
Mtch1	n
Fgd2	n
Mtch1	n
Fgd2	n
Mtch1	n
Mtch1	n
Mtch1	n
Pim1	n
Pim1	n
Tmem217	n
Tmem217	n
Tmem217	n
Pim1	n
Tmem217	n
Pim1	n
Tmem217	n
Tmem217	n
Tmem217	n
Pim1	n
Pim1	n
Tmem217	n
Tmem217	n
Tmem217	n
Tmem217	n
Tbc1d22b	n

Tbc1d22bos	n
Tbc1d22bos	n
Tbc1d22bos	n
Tbc1d22bos	n
Tbc1d22b	n
Cmtr1	n
Cmtr1	n
Cmtr1	n
Ccdc167	n
Cmtr1	n
Ccdc167	n
Ccdc167	n
Cmtr1	n
Ccdc167	n
Mdga1	n
Mdga1	n
Zfand3	n
Zfand3	n
Mdga1	n
Mdga1	n
Mdga1	n
Zfand3	n
Zfand3	n
Btbd9	n
Zfand3	n
Zfand3	n
Btbd9	n
Btbd9	n
1700097N02Rik	n
Tff3	n
Tff3	n
Slc37a1	y
Slc37a1	n
Pde9a	n
Pde9a	n
Rsph1	n
Pde9a	n
Pknox1	n
U2af1	n
Cryaa	n
Cryaa	y

Cryaa	y
Rrp1b	n
Rrp1b	n
Rrp1b	n
Rrp1b	n
Gm4432	y
Gm4432	y
Notch3	y
Notch3	y
Rasal3	n
Cyp4f39	n
Pglyrp2	n
Cyp4f17	y
Zfp871	n
Zfp472	n
Col11a2	n
Col11a2	n
H2-Oa	n
H2-Oa	n
H2-Oa	n
H2-Oa	n
H2-DMa	n
H2-DMa	n
Brd2	n
H2-DMa	n
Brd2	n
H2-DMa	n
H2-DMa	n
H2-DMa	n
Brd2	n
H2-DMa	n
H2-DMa	n
H2-DMa	n
Brd2	n
H2-DMa	n
Brd2	n
Brd2	n
H2-DMb2	y
Tap1	y
Tap1	y
Notch4	y

Notch4	y
Notch4	y
Rnf5	n
Rnf5	y
Agpat1	n
Ppt2	y
Ppt2	y
Ppt2	y
Ppt2	y
Ppt2	y
Ppt2	y
Prrt1	y
Prrt1	y
Ppt2	y
Prrt1	y
Ppt2	n
Atf6b	n
Atf6b	n
Atf6b	n
C4b	n
C2	y
C2	y
Zbtb12	y
Slc44a4	y
C2	y
C2	y
C2	y
C2	y
C2	y
C2	y
C2	y
Vwa7	y
G6b	y
Atp6v1g2	n
Atp6v1g2	n
Atp6v1g2	n
H2-D1	n
Tcf19	y
Tcf19	y
Tcf19	y
Tcf19	y

Sfta2	n
Ddr1	y
Sfta2	y
Ddr1	y
Sfta2	y
Ddr1	n
ler3	n
ler3	n
2410017117Rik	n
Gm6623	n
Gm6623	n
H2-T3	n
H2-T3	n
Gm6623	n
Rpp21	n
Rpp21	n
Rpp21	n
Rpp21	n
Rpp21	n
Rpp21	n
Gm6623	n
Rpp21	n
Rpp21	n
Gm6623	n
Gm6623	n
Zfp57	y
H2-M5	y
H2-M5	y
Zfp57	y
Zfp57	y
Rn45s	n
Pgk2	n
Pgk2	n
Pgk2	n
Pgk2	n
Pgk2	n
Pgk2	n
Rn45s	n
Rn45s	n
Rn45s	n
Rn45s	n

Rn45s	n
Pgk2	n
Mut	n
Glyat13	n
Mut	n
Glyat13	n
Glyat13	n
E130008D07Rik	n
Tnfrsf21	n
E130008D07Rik	n
E130008D07Rik	n
E130008D07Rik	n
E130008D07Rik	n
Tnfrsf21	n
E130008D07Rik	n
Tnfrsf21	n
E130008D07Rik	n
E130008D07Rik	n
Gpr110	n
Gpr110	n
Gpr110	n
Mep1a	n
Gpr116	n
Pla2g7	n
Pla2g7	n
Enpp5	n
Runx2	n
Runx2	n
Supt3	n
Supt3	n
Supt3	n
Cdc5l	n
Aars2	n
Aars2	n
Slc29a1	n
Slc29a1	n
Slc29a1	n
Slc35b2	y
Gm7325	y
Slc35b2	y
Slc35b2	y

Gm7325	y
Slc35b2	y
Slc35b2	y
Gm7325	y
Gm7325	y
Mrpl14	n
Tmem63b	y
Tmem63b	y
Mrpl14	y
Tmem63b	y
Mrpl14	n
Mrpl14	n
Mrpl14	n
Tmem63b	n
Mrpl14	y
Mrpl14	y
1600014C23Rik	y
Mrpl14	n
1600014C23Rik	n
1600014C23Rik	n
Mrpl14	n
Mrpl14	n
Mrpl14	n
Mrpl14	n
Mrpl14	n
1600014C23Rik	n
Mrpl14	n
1600014C23Rik	n
Mrpl14	n
1600014C23Rik	n
Vegfa	n
Mrpl14	n
Mrpl14	n
Mrpl14	n
Vegfa	n
Mrps18a	n
Mrps18a	n
Vegfa	n
Vegfa	n
Rsph9	n
Slc22a7	y

Slc22a7	y
Crip3	n
Crip3	n
Dnph1	y
Dnph1	n
Cul9	n
Cul9	n
Dnph1	n
Cul9	n
Dnph1	n
Ptk7	n
Ptk7	n
Mrpl2	n
Mrpl2	n
Ptk7	n
Mrpl2	n
Ptk7	n
Mrpl2	n
Mrpl2	n
Ptk7	n
Mrpl2	y
Ptk7	y
Ptk7	y
Cul7	y
Pex6	y
Gnmt	y
Gnmt	y
Pex6	y
Gnmt	y
Gnmt	y
Gnmt	y
Pex6	y
Pex6	y
Gnmt	y
Ubr2	n
Ubr2	n
Taf8	n
Taf8	n
Taf8	n
AI661453	n
AI661453	n



Al661453	n
Taf8	n
Taf8	n
Taf8	n
Al661453	n
Al661453	n
Al661453	n
Taf8	n
Al661453	n
Taf8	n
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Al661453	n
Taf8	n
Taf8	n
Al661453	n
Usp49	n
Usp49	n
Frs3os	n
Frs3os	n
Frs3	n
Frs3os	n

Tfeb	n
Tfeb	n
Tfeb	n
Tfeb	n
Foxp4	n
Foxp4	n
Tfeb	n
Foxp4	n
Foxp4	n
Foxp4	n
1700067P10Rik	n
Foxp4	n
Foxp4	n
1700122O11Rik	n
A730006G06Rik	n
Unc5cl	n
Unc5cl	n
1700008K24Rik	n
Kif6	n
Rftn1	n
Btg3	n
Ebi3	n
Gm16712	n
Sh3gl1	n
Hdgfrp2	y
Tnfaip8l1	n
Sema6b	n
Sema6b	n
Tnfaip8l1	n
Sema6b	n
Tnfaip8l1	n
Sema6b	n
Tnfaip8l1	n
Sema6b	n
Tnfaip8l1	n
Sema6b	n
Sema6b	n
D17Wsu104e	y
Arrdc5	y
Kdm4b	n
Kdm4b	n



Tnfsf9	y
Tubb4a	y
Tnfsf9	y
Tnfsf9	y
C3	n
Fbxl17	n
Fbxl17	n
Pja2	n
Dreh	n
Tmem232	n
Ptprm	n
Ptprm	n
Arhgap28	n
Epb4.1l3	y
2410021H03Rik	y
Zbtb14	y
Tgif1	n
Dlgap1	n
Tgif1	n
Dlgap1	n
Emilin2	n
Myom1	n
Myom1	n
Myom1	n
Emilin2	y
Ehd3	n
Galnt14	n
Xdh	y
Ehd3	y
Memo1	n
Memo1	n
Memo1	n
Memo1	n
Ltbp1	n
Fam98a	y
Vit	n
Morn2	n
Tmem178	n
Tmem178	n
Tmem178	n
Tmem178	n

Pkdcc	n
Gm19689	n
Pkdcc	n
Gm19689	n
Pkdcc	n
Pkdcc	y
Gm19689	y
Gm19689	n
Eml4	n
Eml4	n
Cox7a2l	n
Eml4	n
Cox7a2l	n
Eml4	n
Eml4	n
Cox7a2l	n
Eml4	n
Cox7a2l	n
Cox7a2l	n
Eml4	n
Eml4	n
Cox7a2l	n
Eml4	n
Cox7a2l	n
Cox7a2l	n
Cox7a2l	n
Eml4	n
Eml4	n
Cox7a2l	n
Cox7a2l	n
Cox7a2l	n
Cox7a2l	n
Mta3	y
Kcng3	y
Hao	n
Hao	y
Mta3	n
Hao	n
Mta3	n
Hao	n
Mta3	n

Mta3	n
Mta3	n
Mta3	n
Hao	n
Hao	n
4933433H22Rik	n
Hao	n
Zfp36l2	n
Zfp36l2	n
Zfp36l2	n
Slc3a1	n
Six3	y
Six3os1	n
Six3	n
Six2	n
Six2	n
Six2	n
Six3	n
Six2	n
Six2	n
Six3	n
Six2	n
Six2	n
Six2	n
Six2	n
Prkce	n
2010106C02Rik	n
2010106C02Rik	n
Prkce	n
Prkce	n
2010106C02Rik	n
Prkce	n
Prkce	n
2010106C02Rik	n
Epas1	n
Atp6v1e2	n
Epas1	n
Atp6v1e2	n
Epas1	n
Epas1	n
Epas1	n

Epas1	n
Epas1	n
Atp6v1e2	n
Socs5	n
Socs5	n
C330024C12Rik	n
4833418N02Rik	n
4833418N02Rik	n
4833418N02Rik	n
1700011E24Rik	n
1700011E24Rik	n
Calm2	n
Calm2	n
Calm2	n
Calm2	n
Calm2	n
Epcam	n
Calm2	n
Calm2	n
Calm2	n
Calm2	n
Calm2	n
Epcam	n
Epcam	n
Epcam	n
Epcam	n
Epcam	n
Epcam	n
Kcnk12	n
Kcnk12	n
Epcam	n
Epcam	y
Epcam	y
Epcam	y
Msh2	n
Msh2	n
Kcnk12	n
Msh2	n
Kcnk12	n
Msh2	n
Kcnk12	n

Msh6	n
Kcnk12	n
Ston1	y
Lhcgr	y
Gtf2a1l	n
4930480K15Rik	n
Nrxn1	n
4930480K15Rik	n
4930480K15Rik	n
Nrxn1	n
Nrxn1	n
Nrxn1	n
Map3k8	n
Zfp438	n
Zeb1	n
Zeb1	n
Zeb1	n
Gm10125	n
Gjd4	y
Fzd8	y
Fzd8	y
Gjd4	y
Gjd4	y
Gjd4	y
Gjd4	y
Fzd8	y
Gjd4	n
Fzd8	n
Gjd4	n
Gjd4	n
Fzd8	n
Gjd4	n
Fzd8	n
Gjd4	n
Fzd8	n
Gjd4	n
Fzd8	n
Gjd4	n
Usp14	y
Mir1a-2	n
1010001N08Rik	n
1010001N08Rik	n



1010001N08Rik	n
Gata6	n
Gata6	n
Gata6	n
Gata6	n
1010001N08Rik	n
1010001N08Rik	n
Cables1	n
Cables1	n
Tmem241	n
Tmem241	n
Tmem241	n
Osbp1a	n
Osbp1a	n
Osbp1a	n
Hrh4	n
Hrh4	n
Osbp1a	n
Hrh4	n
Hrh4	n
Osbp1a	n
Psm8	n
Psm8	n
Psm8	y
Ss18	y
Psm8	y
Ss18	y
Psm8	y
Ss18	y
Ss18	y
Ss18	y
Taf4b	y
Kctd1	n
Kctd1	n
Ttr	y
B4galt6	y
Trappc8	y
Rnf125	y
Trappc8	y
4930426D05Rik	y
4930426D05Rik	y

Klhl14	y
4930426D05Rik	n
Slc39a6	y
Mocos	n
Pik3c3	n
Gypc	n
Nme5	n
Wnt8a	n
Wnt8a	n
Wnt8a	n
Wnt8a	n
Wnt8a	n
Nme5	n
Wnt8a	n
Wnt8a	n
Nme5	n
Wnt8a	n
Nme5	n
Wnt8a	n
Nme5	n
Wnt8a	n
Egr1	n
Ctnna1	y
Cxxc5	n
Tmem173	n
Tmem173	n
Psd2	n
Psd2	n
Psd2	n
Psd2	n
Nrg2	n
Nrg2	n
Nrg2	n
Nrg2	n
Nrg2	n
Nrg2	n
lgip	n
lgip	n
lgip	n
Hbegf	y
Slc4a9	y

E230025N22Rik	y
E230025N22Rik	y
Cd14	n
Pcdha4-g	y
Pcdha4-g	y
Pcdha4-g	y
Pcdha4-g	y
Pcdhgb7	y
Diap1	n
Diap1	n
Pcdhgb7	n
Pcdhga11	n
Pcdhga11	n
Diap1	n
Pcdhga11	n
Diap1	n
Pcdhga11	n
Diap1	n
Pcdhga11	n
Diap1	n
Pcdhga11	n
Pcdhga11	n
Rnf14	y
Spry4	n
Spry4	n
Spry4	n
Ndfip1	n
Ndfip1	n
Ndfip1	n
Spry4	n
Ndfip1	n
Spry4	n
Ndfip1	n
Spry4	n
Ndfip1	n
Ndfip1	n
Spry4	n
Ndfip1	n
Spry4	n
Ndfip1	n
Spry4	n

Ndfip1	n
Ndfip1	n
Spry4	n
Spry4	y
Spry4	y
Gm5820	n
Gm5820	n
Fgf1	n
Arhgap26	n
Lars	n
Ppp2r2b	n
Gm94	n
Ythdc2	n
Eif1a	y
Trim36	y
Trim36	y
Ticam2	y
9130209A04Rik	n
9130209A04Rik	n
9130209A04Rik	n
Sema6a	n
Gm5095	n
Sema6a	n
Gm5095	n
1700044K03Rik	n
1700044K03Rik	n
Dtwd2	n
Dtwd2	n
Sncaip	n
Sncaip	n
Sncaip	n
Snx24	n
Ppic	n
Ppic	n
9330117O12Rik	n
Zfp608	n
9330117O12Rik	n
Zfp608	n
Zfp608	n
Zfp608	n
Zfp608	n



Slc6a7	n
Slc6a7	y
Pdgfrb	y
Pdgfrb	y
Cdx1	y
Cdx1	y
Pdgfrb	y
Cdx1	y
Pdgfrb	y
Cdx1	y
Pdgfrb	y
Cdx1	y
Pdgfrb	y
Cdx1	y
Cdx1	y
Pdgfrb	y
Cdx1	y
Pdgfrb	y
Cdx1	y
Pdgfrb	y
Pdgfrb	y
Cdx1	y
Cdx1	y
Pdgfrb	y
Cdx1	n
Cdx1	n
Cdx1	y
Pdgfrb	n
Pdgfrb	n
Pdgfrb	n
Pdgfrb	n
Pdgfrb	n
Cdx1	n
Pdgfrb	n
Pde6a	n
A530050N04Rik	n
Gm20748	n
1500015A07Rik	n
Afap1l1	n
1500015A07Rik	n
Afap1l1	n

Sh3tc2	n
Onecut2	n
Onecut2	n
Fech	n
Onecut2	n
Onecut2	n
Atp8b1	n
Nedd4l	n
Atp8b1	n
Nedd4l	n
Atp8b1	n
Nedd4l	n
Atp8b1	n
Atp8b1	n
Nedd4l	n
Mir466p	n
Mir466p	n
Mir466p	n
Mir466p	n
Mir466p	n
Oacyl	n
Mir466p	n
Rax	y
Ccbe1	n
Pmaip1	n
Pmaip1	n
Pmaip1	n
Ccbe1	n
Gm9926	n
Impa2	n
Cidea	n
Tubb6	y
Afg3l2	y
Ldlrad4	n
Tcf4	n
Tcf4	n
Mir145b	n
Tcf4	n
Tcf4	n
Rab27b	n
Tcf4	n

Tcf4	n
Tcf4	n
Tcf4	n
Rab27b	n
4930503L19Rik	y
Smad4	n
Smad4	y
Mro	n
Elac1	n
Mapk4	n
D730045A05Rik	n
Rpl17	n
9030625G05Rik	n
2010010A06Rik	n
Dym	n
2010010A06Rik	n
2010010A06Rik	n
2010010A06Rik	n
2010010A06Rik	n
Dym	n
Dym	n
2010010A06Rik	n
Dym	n
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Dym	n
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Dym	n
Dym	n
Dym	n
Dym	n
2010010A06Rik	n
2010010A06Rik	n
Dym	n
2010010A06Rik	n
Dym	n
Dym	n
Smad7	n
Smad7	n
2010010A06Rik	n
Smad7	n
2010010A06Rik	n



Smad7	n
Smad7	n
2010010A06Rik	n
Smad7	n
Smad7	n
Ctif	n
Ctif	n
Smad7	n
Ctif	n
Smad7	n
Smad7	n
Ctif	n
Ctif	n
Ctif	n
Gm10532	n
Gm10532	n
Ctif	n
Zbtb7c	n
2900057B20Rik	n
Zbtb7c	n
Zbtb7c	n
2900057B20Rik	n
2900057B20Rik	n
Zbtb7c	n
Zbtb7c	n
Zbtb7c	n
2900057B20Rik	n
2900057B20Rik	n
Katnal2	n
St8sia5	y
4930465K10Rik	n
Rnf165	n
4930465K10Rik	n
4930465K10Rik	n
Haus1	y
Haus1	y
Epg5	n
Slc14a2	n
Pard6g	n
Adnp2	n
Adnp2	n

Nfatc1	n
Nfatc1	n
Pqlc1	n
Nfatc1	n
Nfatc1	n
Pqlc1	n
Pqlc1	n
Pqlc1	n
Sall3	n
Sall3	n
Mbp	n
Mbp	n
Mir5127	n
Mbp	n
Mbp	n
Mbp	y
Galr1	y
Mbp	y
Mbp	y
Zfp236	n
Zfp236	n
Zfp236	n
Mbp	n
Mir5112	n
Mir5112	n
2210420H20Rik	n
4930445N18Rik	n
2210420H20Rik	n
4930445N18Rik	n
4930445N18Rik	n
Zfp516	y
Zfp516	n
4930592I03Rik	n
4921531P14Rik	n
Zfp516	n
Zfp516	n
Zfp516	n
Zfp516	n
Zadh2	n
Zadh2	y
Zadh2	y

Zadh2	y
Tshz1	y
Tshz1	y
Zfp407	n
Zadh2	n
Fam69c	n
Fam69c	n
Fam69c	n
Socs6	n
Mrpl21	n
Lrp5	y
Lrp5	y
Lrp5	n
Chka	y
Unc93b1	n
Unc93b1	n
Rps6kb2	n
Ptprcap	n
Carns1	n
Ppp1ca	y
Carns1	y
Tbc1d10c	y
Clcf1	n
Rad9a	n
Rad9a	n
Rad9a	n
Ssh3	n
Ssh3	n
Ssh3	n
Pold4	n
Pold4	n
Adrbk1	n
Lrfn4	n
Lrfn4	n
Sptbn2	y
Sptbn2	y
Sptbn2	n
Gm960	n
Gm960	n
Rbm4	n
Rin1	y

Rin1	y
Rin1	n
Tmem151a	n
Tmem151a	n
Rin1	n
Tmem151a	n
Tmem151a	n
Tmem151a	n
Tmem151a	y
Cd248	n
Tmem151a	n
Yif1a	n
Yif1a	n
Tmem151a	n
Yif1a	n
Gal3st3	y
Gal3st3	y
Gal3st3	y
Sf3b2	y
Gal3st3	y
Fibp	n
Ctsw	y
Rela	n
Rela	n
Fam89b	y
Scyl1	n
Ltbp3	n
Ltbp3	n
Scyl1	n
Scyl1	n
Scyl1	n
Scyl1	n
Scyl1	n
Ltbp3	n
Scyl1	n
Scyl1	n
Ltbp3	n
Scyl1	n
Ltbp3	n
Scyl1	n
Ltbp3	n



Ltbp3	n
Scyl1	n
Ltbp3	n
Scyl1	n
Ltbp3	n
Scyl1	n
Scyl1	n
Ltbp3	n
Ltbp3	n
Ltbp3	n
Ltbp3	n
Ltbp3	n
Ltbp3	n
Ltbp3	n
Scyl1	n
Ltbp3	n
Scyl1	n
Scyl1	n
Scyl1	n
Scyl1	n
Ltbp3	n
Malat1	n
Slc25a45	n
Cdc42ep2	n
Cdc42ep2	n
Gm10814	n
Pola2	n
Capn1	y
Gm10814	y
Syvn1	y
Map4k2	n
Ppp2r5b	y
Pygm	y
Pygm	y
Ppp2r5b	y
Slc22a12	n
Rasgrp2	n
Rasgrp2	n
Slc22a12	n
Slc22a12	n
Slc22a12	n



Trmt112	n
Trmt112	n
Trmt112	n
Trmt112	n
Trmt112	n
Trmt112	n
Trmt112	n
Trmt112	n
Rps6ka4	n
Rps6ka4	n
Ccdc88b	y
Trmt112	y
Kcnk4	y
Kcnk4	y
Kcnk4	y
Trmt112	y
Kcnk4	y
Kcnk4	y
Kcnk4	y
Kcnk4	y
Macrod1	n
Stip1	n
Macrod1	n
Macrod1	n
Macrod1	n
Flrt1	n
Flrt1	n
Macrod1	n
Flrt1	n
Flrt1	n
Flrt1	n
Flrt1	n
Macrod1	n
Macrod1	n
Macrod1	n
Flrt1	n
Flrt1	n
Macrod1	n
Macrod1	n
Flrt1	n
Macrod1	n



Macro1	n
Macro1	n
Macro1	n
Macro1	n
Macro1	n
Otub1	n
Otub1	n
Otub1	n
Otub1	n
Otub1	n
Otub1	n
Mark2	y
Rtn3	n
Rtn3	n
9830166K06Rik	n
Chrm1	n
9830166K06Rik	n
Ahnak	y
Rom1	y
Asrgl1	n
Ahnak	n
Fth1	n
Fth1	n
Fen1	y
Fads1	y
Myrf	n
Myrf	n
Tmem258	n
Dagla	n
Dagla	n
Dagla	n
Dagla	n
Tmem258	n
Syt7	n
Lrrc10b	n
Lrrc10b	y
Ppp1r32	n
Cd5	n
Vps37c	n
Cd5	n
Cd5	n

Slc15a3	n
Slc15a3	n
Slc15a3	n
Ptgdr2	n
A330040F15Rik	n
Tle4	y
Tle4	y
Tle4	y
Tle4	y
Psat1	y
Mir496b	y
Gna14	y
Prune2	n
Gcnt1	n
Tmc1	n
Gda	n
Klf9	n
Smc5	n
Klf9	n
Smc5	n
Smc5	n
Smc5	n
Klf9	n
Smc5	n
Klf9	n
Smc5	n
Smc5	n
1700028P14Rik	n
Fam189a2	n
Fxn	n
Apba1	n
Dock8	n
Dock8	n
Cbwd1	n
Cbwd1	n
Cbwd1	n
Cbwd1	n
4931403E22Rik	n
Smarca2	y
Gm815	n
Vldlr	n

D19Bwg1357e	n
D19Bwg1357e	n
Vldlr	n
D19Bwg1357e	n
Vldlr	n
Vldlr	n
D19Bwg1357e	n
Ppapdc2	n
A930007119Rik	n
Uhrf2	y
Gldc	y
Gldc	y
Ppp1r2-ps3	n
Ppp1r2-ps3	n
Sgms1	n
Sgms1	n
2700046G09Rik	n
Pten	n
Pank1	y
Exoc6	n
Ide	n
Ide	n
Myof	y
Cyp26c1	y
Myof	y
Cyp26c1	y
Myof	y
Cyp26c1	y
Myof	n
Myof	n
Myof	n
Cyp26c1	n
Cyp26c1	n
Cyp26c1	n
Myof	n
Myof	n
Myof	n
Cyp26c1	n
Myof	n
Cyp26c1	n
Cyp26c1	n

Cyp26c1	n
Myof	n
Cyp26c1	n
Myof	n
Myof	n
Myof	n
Myof	n
Cyp26c1	n
Myof	n
Myof	n
Cyp26a1	y
Myof	n
Myof	n
Cyp26a1	n
Cyp26a1	n
Myof	n
Myof	n
Cyp26a1	n
Myof	n
Myof	n
Myof	n
Cep55	n
Cep55	n
Cep55	n
Myof	n
Cep55	n
Cep55	n
Cep55	n
Myof	n
Cep55	n
Pdlim1	n
Cyp2c50	n
Pdlim1	n
Cyp2c50	n
Pdlim1	n
Pdlim1	n
Entpd1	n
Entpd1	n
Sorbs1	n
Entpd1	n
Sorbs1	n

Aldh18a1	n
Aldh18a1	n
Aldh18a1	n
Entpd1	n
Tctn3	n
Blk	y
E030044B06Rik	n
E030044B06Rik	n
E030044B06Rik	n
E030044B06Rik	n
E030044B06Rik	n
E030044B06Rik	n
Blk	n
E030044B06Rik	n
Zfp518a	n
Blk	n
Zfp518a	n
Blk	n
Blk	y
Lcor	n
Pik3ap1	n
Rrp12	y
Morn4	y
Morn4	y
Pi4k2a	y
Avpi1	y
Sfrp5	n
Pyroxd2	n
R3hcc1l	y
Pyroxd2	y
Pyroxd2	y
Cnm1	n
Hpse2	n
Hpse2	n
Hpse2	y
Cnm1	n
Got1	n
Cnm1	n
Got1	n
Got1	n
Nkx2-3	n

Got1	n
Got1	n
Slc25a28	n
Slc25a28	n
Nkx2-3	n
Nkx2-3	n
Nkx2-3	n
Nkx2-3	n
Nkx2-3	n
Nkx2-3	n
Nkx2-3	n
Slc25a28	n
Gm10768	n
Dnmbp	n
Dnmbp	n
Gm10768	n
Dnmbp	n
Gm10768	n
Gm10768	n
Gm10768	n
Scd2	n
Scd2	n
Pax2	y
Pax2	n
1700039E22Rik	n
4930414N06Rik	n
Fam178a	y
Pdzd7	n
Pdzd7	n
Sfxn3	y
Sfxn3	y
Pdzd7	y
Pdzd7	n
Sfxn3	n
Pdzd7	n
Pdzd7	n
Kazald1	n
Kazald1	n
Pdzd7	n
Pdzd7	n
Lbx1	n

Tlx1	n
Tlx1	n
Tlx1	n
Tlx1	n
Lbx1	n
Tlx1	n
Lbx1	n
Lbx1	n
Btrc	n
Lbx1	n
Poll	n
Dpcd	n
Dpcd	n
Dpcd	y
Dpcd	y
Fgf8	y
Fgf8	y
Fgf8	y
Dpcd	y
Fgf8	y
Dpcd	y
Fgf8	y
Dpcd	y
Kcnip2	n
Hps6	y
Hps6	y
Hps6	y
Hps6	n
Hps6	n
Nfkb2	n
Sufu	n
Sufu	n
Sufu	n
Arl3	n
Arl3	n
Arl3	n
Arl3	n
Arl3	n
Trim8	n
Arl3	n
Trim8	n

Trim8	n
Trim8	n
Trim8	n
Trim8	n
Arl3	n
Arl3	n
Arl3	n
Wbp1l	n
Arl3	n
Arl3	n
Arl3	n
Arl3	n
Wbp1l	n
Wbp1l	y
Cyp17a1	y
Cyp17a1	y
Cyp17a1	y
Wbp1l	y
Cnm2	n
Nt5c2	n
Nt5c2	n
Nt5c2	n
Nt5c2	n
Calhm1	y
Neur1a	n
Neur1a	n
Sh3pxd2a	n
Neur1a	n
Sh3pxd2a	n
Sh3pxd2a	n
Gm19557	n
Gm19557	n
Sh3pxd2a	n
Sh3pxd2a	n
Sh3pxd2a	n
Gm19557	n
Sh3pxd2a	n
Sh3pxd2a	n
Sh3pxd2a	n
Cfap43	n
Gsto1	y



Gsto1	y
Gsto1	y
AA387883	n
Xpnpep1	n
Add3	n
Add3	n
1700001K23Rik	n
1700001K23Rik	n
1700001K23Rik	n
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1700001K23Rik	n
Mxi1	n
Mxi1	n
5830416P10Rik	n
Mxi1	n
5830416P10Rik	n
Mxi1	n
5830416P10Rik	n
5830416P10Rik	n
5830416P10Rik	n
5830416P10Rik	n
5830416P10Rik	n
Dusp5	n
5830416P10Rik	n
Bbip1	n
Bbip1	n
Adra2a	n
Bbip1	n
Tectb	n
Acsl5	n
Vti1a	n
Zdhhc6	n
Vti1a	n
Tcf7l2	n
4930552P12Rik	n
4930552P12Rik	n
4930552P12Rik	n
Tcf7l2	y
Tcf7l2	y
4930552P12Rik	y
Nrap	n

Tcf7l2	n
Habp2	n
Habp2	n
Nrap	n
Adrb1	n
Ccdc186	n
Ablim1	n
Ablim1	n
Ablim1	n
B230217O12Rik	n
B230217O12Rik	n
B230217O12Rik	n
B230217O12Rik	n
Atrnl1	n
Gfra1	n
Gfra1	n
Gfra1	n
Gm10007	n
Mir3086	n
Mir3086	n
Eno4	n
4930506M07Rik	n
Vax1	n
Vax1	y
Grk5	n
Csf2ra	n
Grk5	n
Csf2ra	n
Grk5	n
Grk5	n
Rpp38	n
Frmd4a	n
1700080N15Rik	n
Prpf18	n
Prpf18	n
Phyh	y
Optn	y
Echdc3	n
Echdc3	n
Usp6nl	n
Usp6nl	n

Celf2	n
Usp6nl	n
Celf2	n
Celf2	y
Usp6nl	y
Celf2	n
Gata3	n
4930412O13Rik	n
4930412O13Rik	n
4930412O13Rik	n
9230102O04Rik	n
9230102O04Rik	n
4930412O13Rik	n
4930412O13Rik	n
4930412O13Rik	n
9230102O04Rik	n
4930412O13Rik	n
4930412O13Rik	n
9230102O04Rik	n
Itih5	n
Itih5	n
Itih5	n
E030013I19Rik	n
E030013I19Rik	n
Pter	y
Pter	y
Vim	y
Nebl	n
A930004D18Rik	n
Gm17762	n
Gm17762	n
Gm17762	n
A930004D18Rik	n
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A930004D18Rik	n
Gm17762	n
A930004D18Rik	n
Gm17762	n
A930004D18Rik	n
Gm17762	n
Skida1	n
Skida1	n
Mllt10	n
Mllt10	n

4930426L09Rik	n
Gm3230	n
Arhgap21	y
Pax8	n
Psd4	n
Psd4	n
Pax8	n
Psd4	n
Pax8	n
Pax8	n
Zmynd19	n
Noxa1	y
Entpd8	y
Noxa1	y
Noxa1	y
Noxa1	y
Entpd8	y
Noxa1	y
Noxa1	y
Tor4a	n
Rnf208	y
Ndor1	y
Rnf208	y
Ndor1	y
Uap111	y
Edf1	n
Traf2	n
Traf2	n
Edf1	n
Gm996	n
Gm996	n
Kcnt1	n
Kcnt1	n
Gpsm1	y
Gpsm1	y
Gpsm1	y
Gpsm1	n
4932418E24Rik	y
Notch1	n
Egfl7	n
Egfl7	n

Egfl7	n
Mir126b	n
Mir126b	n
Egfl7	y
Egfl7	y
Mir126b	y
Mir126b	y
Fam69b	n
Adamtsl2	n
Sardh	n
Dbh	n
Dbh	n
Vav2	n
Wdr5	y
Vav2	y
Wdr5	y
Wdr5	n
Brd3	n
Rxra	n
Rxra	n
Rxra	n
Rxra	n
Rxra	n
Rxra	n
Rxra	n
Fcnb	n
Cel	y
Ralgds	n
Tsc1	n
Ak8	n
Ttf1	n
Ttf1	n
Ntng2	n
Setx	n
Ntng2	n
Ntng2	n
Setx	n
Setx	n
Rapgef1	n
Rapgef1	n
Trub2	n
Trub2	n

Urm1	n
Mir219b	n
Mir219b	n
Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219b	n
Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219b	n
Mir219b	n
Mir219a-2	n
Mir219a-2	n
Mir219b	n
Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219a-2	n
Mir219b	n
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Mir219a-2	n
Mir219a-2	n
Mir219a-2	n
Mir219b	n
Mir219a-2	n
Mir219a-2	n
Mir219a-2	n
Mir219a-2	n
Mir219b	n
Mir219b	n
Mir219a-2	n
Mir219a-2	n
Mir219a-2	n
Mir219b	n

Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219a-2	n
Mir219b	n
Mir219a-2	n
Mir219a-2	n
Mir219b	n
Mir219b	n
Mir219b	n
Mir219b	n
Mir219b	n
Crat	n
ler5l	n
Cstad	n
Cstad	n
ler5l	n
Cstad	n
ler5l	n
Cstad	n
Cstad	n
ler5l	n
ler5l	n
ler5l	n
ler5l	n
Cstad	n
1700001O22Rik	n
Cstad	n
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Cstad	n
1700001O22Rik	n
1700001O22Rik	n
1700001O22Rik	n
Mir3089	n
1700001O22Rik	n
1700001O22Rik	n
Mir3089	n
1700001O22Rik	n
1700001O22Rik	n



Mir3089	n
Mir3089	n
Mir3089	n
1700001O22Rik	n
1700001O22Rik	y
Ptges	y
Ptges	y
Ptges	y
Fnbp1	n
Fnbp1	n
Fnbp1	n
Fnbp1	n
Fnbp1	n
Fnbp1	n
Gpr107	n
Ncs1	n
Abl1	n
Abl1	n
Abl1	n
Abl1	y
Abl1	y
Qrfp	y
Abl1	y
Qrfp	y
Qrfp	y
Abl1	y
Qrfp	y
Abl1	y
Qrfp	y
Qrfp	y
Qrfp	y
Abl1	y
Qrfp	y
Abl1	y
Qrfp	y
Lamc3	n
Fam78a	n
Prrc2b	n
Prrc2b	n
Prrc2b	n
Fam78a	n



Angptl2	y
Angptl2	y
Ralgps1	y
Angptl2	y
Ralgps1	y
Angptl2	y
Ralgps1	y
Ralgps1	y
C130021I20Rik	n
C130021I20Rik	n
Lmx1b	n
C130021I20Rik	n
C130021I20Rik	n
C130021I20Rik	y
Mvb12b	n
Nron	n
Nron	n
Nron	n
Mvb12b	n
Mvb12b	n
Nron	n
Nron	n
Nron	n
Mvb12b	n
Nron	n
Nron	n
Nron	n
Mapkap1	n
Gapvd1	n
Mapkap1	n
Mapkap1	n
Mapkap1	n
Mapkap1	n
Mapkap1	n
Gapvd1	n
Cutal	y
Traf1	n
Traf1	n
Cutal	n
Hc	n
Gsn	n

Dab2ip	n
Dab2ip	n
Ggta1	n
Ggta1	n
Ggta1	n
Gm13446	y
Gm13446	n
Dab2ip	y
Dab2ip	n
Ttll11	n
Ttll11	y
Ttll11	y
Dab2ip	n
Ttll11	n
Ttll11	n
Ttll11	n
Ptgs1	n
Rbm18	n
Crb2	n
Crb2	n
Dennd1a	n
Dennd1a	n
Dennd1a	n
Crb2	n
Dennd1a	n
Crb2	n
Dennd1a	n
Crb2	n
Dennd1a	n
Dennd1a	n
Crb2	n
Crb2	n
Crb2	y
Dennd1a	y
Crb2	y
Crb2	y
Dennd1a	y
Crb2	y
Crb2	y
Crb2	y
Crb2	y

Dennd1a	y
Dennd1a	y
Dennd1a	y
Crb2	y
Dennd1a	y
Crb2	y
Crb2	y
Crb2	y
Dennd1a	y
Crb2	y
Crb2	y
Crb2	y
Dennd1a	y
Dennd1a	y
Dennd1a	y
Crb2	y
Dennd1a	y
Crb2	y
Dennd1a	y
Dennd1a	y
Crb2	y
Crb2	y
Dennd1a	n
Dennd1a	n
Dennd1a	n
Dennd1a	n
Nek6	y
Psmb7	y
Psmb7	y
Psmb7	n
Zeb2	n
Zeb2	n
Zeb2os	n
Zeb2	n
Zeb2os	n
Zeb2	n
1700019E08Rik	n
1700019E08Rik	n
Zeb2	n
Kif5c	n
Lypd6b	n

Mmadhc	n
Mmadhc	n
Mmadhc	n
Gm13497	n
Fmnl2	n
Fmnl2	n
Prpf40a	n
4930555B11Rik	n
4930555B11Rik	n
Nr4a2	n
4930555B11Rik	n
Nr4a2	n
4930555B11Rik	n
Upp2	n
Upp2	n
Acvr1	n
Acvr1	n
Acvr1	n
Ccdc148	y
Wdsub1	y
Tanc1	n
Tanc1	n
Wdsub1	n
Wdsub1	n
Tanc1	n
Tanc1	n
Tanc1	n
Gm13580	n
Gm13580	n
Ly75	n
Ly75	n
Pla2r1	y
Gm13580	n
Gm13580	n
Gm13580	n
Gm13580	n
Gm13580	n
Gm13580	n
Rbms1	n
Tank	n
Tank	n

Tank	n
Dpp4	n
Tank	n
Dpp4	n
Tank	n
Dpp4	n
Dpp4	n
Tbr1	n
Tbr1	n
Dpp4	n
Dpp4	n
Dpp4	n
Tbr1	n
Tbr1	n
Dpp4	y
Figl	n
Grb14	n
Csrnp3	n
Csrnp3	n
Gm13629	n
Scn7a	n
4933409G03Rik	n
Stk39	n
4933409G03Rik	n
Stk39	n
Stk39	n
Bbs5	n
Bbs5	n
Lrp2	n
Mettl5	n
Myo3b	n
Hat1	n
Hat1	n
Slc25a12	n
Slc25a12	n
Mir5098	n
Mir5098	n
Mir5098	n
Rapgef4	n
Rapgef4	n
6430710C18Rik	n

6430710C18Rik	n
Cdca7	n
Cdca7	n
Cdca7	n
Sp3os	n
Ola1	n
Sp9	n
Cir1	n
Wipf1	y
Chn1os3	n
Chn1os3	n
Chrna1	n
Chn1os3	n
Chrna1	n
Chn1os3	n
Chrna1	n
Chrna1	n
Chn1os3	n
Hoxd10	y
Hoxd3os1	y
Hoxd3	y
Hoxd3os1	n
Hoxd3	n
Haglr	n
9430019J16Rik	n
Nfe2l2	n
Nfe2l2	n
Agps	n
Agps	n
Agps	n
Nfe2l2	n
Nfe2l2	n
Nfe2l2	n
Agps	n
Nfe2l2	n
Nfe2l2	n
Nfe2l2	n
Nfe2l2	n
Agps	n
Nfe2l2	n
Agps	n



Agps	n
Agps	n
Ttc30a2	n
Gm13944	y
Ccdc141	y
Gm13944	n
Gm13944	n
Gm13944	n
Zfp385b	n
Zfp385b	n
Neurod1	n
Frzb	n
Frzb	n
Zfp804a	n
Zswim2	n
Fam171b	n
Btbd18	n
2700094K13Rik	n
Mir130a	n
Ube2l6	y
Ube2l6	y
Serping1	y
Serping1	y
Serping1	y
Serping1	n
Rtn4rl2	n
Rtn4rl2	n
Tnks1bp1	y
Tnks1bp1	y
Tnks1bp1	y
P2rx3	y
P2rx3	y
Tnks1bp1	y
P2rx3	y
P2rx3	y
P2rx3	y
Olfr1274-ps	n
C1qtnf4	n
Slc39a13	y
Slc39a13	n
Acp2	n

Lrp4	y
Lrp4	y
Lrp4	y
Lrp4	y
1110051M20Rik	y
Dgkz	n
D930015M05Rik	y
Mapk8ip1	y
Prdm11	n
Syt13	n
Syt13	n
4631405J19Rik	n
Prdm11	n
4631405J19Rik	n
4631405J19Rik	n
Trp53i11	n
Prdm11	n
Tspan18	n
Alx4	n
Ext2	n
Ext2	n
Alx4	y
Ext2	y
Ext2	y
Alx4	y
Alx4	y
Ext2	y
Alx4	y
Ext2	y
Ext2	y
Accsl	n
Accsl	n
B230118H07Rik	n
Ldlrad3	n
Ldlrad3	n
Cd44	n
Elf5	n
4930547E08Rik	n
Lmo2	n
D430041D05Rik	n
D430041D05Rik	y



Ccdc32	n
Chst14	n
Ccdc32	n
Rpusd2	n
Ccdc32	n
Rpusd2	n
Ccdc32	n
Vps18	n
Vps18	n
Gm14207	n
Vps18	n
Gm14207	n
Gm14207	n
Dll4	n
Dll4	n
Dll4	n
Dll4	n
Gm14207	n
Gm14207	n
Dll4	y
Dll4	y
Dll4	y
Dll4	y
Dll4	y
Dll4	y
Gm14207	y
Dll4	y
Dll4	y
Dll4	y
Dll4	y
Gm14207	y
Dll4	y
Gm14207	y
Dll4	y
Gm14207	y
Ltk	y
Ltk	y
Tyro3	n
Ehd4	n
Ehd4	n
AV039307	y

Map1a	n
Map1a	n
Pdia3	y
Eli3	y
Serf2	y
Sord	n
Sord	y
Duox1	n
Duox1	y
Eid1	n
Eid1	n
Eid1	n
Secisbp2l	n
Secisbp2l	n
Slc27a2	n
Hdc	y
Hdc	y
Slc27a2	y
Hdc	y
Hdc	y
Slc27a2	n
Hdc	n
Hdc	n
Slc27a2	n
Hdc	n
Dusp2	n
Dusp2	n
Fahd2a	y
Kcnip3	y
Mrps5	y
Mrps5	y
Prom2	y
Mrps5	y
Mrps5	y
Mrps5	y
Prom2	y
Mrps5	y
Mrps5	y
Prom2	y
Mrps5	y
Prom2	y

Mrps5	y
Prom2	y
Mrps5	n
Mrps5	n
Prom2	n
Bcl2l11	n
Gm14005	n
Gm14005	n
Bcl2l11	n
Slc20a1	n
A730036I17Rik	n
Ckap2l	n
F830045P16Rik	n
Sirpa	y
Lzts3	n
Itpa	n
Lzts3	n
Lzts3	n
Lzts3	n
Lzts3	n
Lzts3	n
Lzts3	n
Atrn	y
Adam33	n
Adam33	y
Cdc25b	n
Cenpb	y
Prn	n
Prn	n
Rassf2	n
Cds2	n
Cds2	y
Cds2	y
Slc23a2	y
Prokr2	n
Crls1	y
Lrrn4	y
Fermt1	y
Plcb1	n
Plcb4	n
9630028H03Rik	n
Plcb4	n

9630028H03Rik	n
Plcb4	n
9630028H03Rik	n
Jag1	y
Jag1	y
Btbd3	y
Jag1	y
Btbd3	y
Jag1	y
Jag1	y
Pcsk2	n
Pcsk2	y
Bfsp1	y
Crnkl1	n
Crnkl1	n
Crnkl1	n
Rin2	n
Rin2	n
Rin2	n
Crnkl1	n
Crnkl1	n
Crnkl1	n
Rin2	n
Crnkl1	n
Crnkl1	n
Crnkl1	n
Rin2	n
Crnkl1	n
Rin2	n
Crnkl1	n
Crnkl1	n
Crnkl1	n
Crnkl1	n
Rin2	n
Crnkl1	n
Ralgapa2	n
Ralgapa2	n
A930019D19Rik	n
Ralgapa2	n
Ralgapa2	n
Nkx2-4	n

Nkx2-2os	n
Nkx2-2os	n
Nkx2-2os	n
Nkx2-2os	n
Foxa2	n
A530006G24Rik	y
A530006G24Rik	y
Thbd	y
Sstr4	y
Nxt1	n
Napb	y
Gzf1	y
Napb	y
Napb	y
Mir1953	n
Mir1953	n
Mir1953	n
Mir1953	n
Mir1953	n
Fam110a	n
Fam110a	n
Fam110a	n
Fam110a	n
Fam110a	n
Fam110a	n
Slc52a3	n
Slc52a3	n
Fam110a	n
Slc52a3	y
Slc52a3	y
Slc52a3	y
Slc52a3	y
Slc52a3	y
Slc52a3	y
Fam110a	n
Fam110a	n
Fam110a	n
Fam110a	n
Rbck1	n
Gm14164	y
Nrsn2	y



Gm14164	y
Nrsn2	y
Gm14164	y
Nrsn2	y
Nrsn2	y
Nrsn2	y
Nrsn2	y
Gm14164	y
Sox12	n
Zcchc3	n
6820408C15Rik	y
6820408C15Rik	y
Zcchc3	y
Zcchc3	y
Zcchc3	y
6820408C15Rik	y
Zcchc3	y
6820408C15Rik	y
6820408C15Rik	y
Zcchc3	y
6820408C15Rik	y
Zcchc3	y
6820408C15Rik	y
Zcchc3	y
Zcchc3	y
Defb25	y
Defb25	y
H13	n
Bcl2l1	n
Bcl2l1	n
H13	n
Bcl2l1	n
H13	n
H13	n
H13	n
H13	n
Bcl2l1	n
Bcl2l1	n
Bcl2l1	n
Bcl2l1	n
Bcl2l1	n

H13	n
Bcl2l1	n
H13	n
H13	n
H13	n
H13	n
Bcl2l1	n
H13	n
Bcl2l1	n
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Bcl2l1	n
Bcl2l1	n
Bcl2l1	n
Bcl2l1	n
H13	n
Bcl2l1	n
H13	n
H13	n
Id1	y
Bcl2l1	n
Foxs1	n
Pofut1	n
Kif3b	n
Kif3b	n
Asxl1	n
Nol4l	n
Nol4l	n
Snta1	n
Snta1	n
Snta1	n
Actl10	y
Necab3	y
Actl10	y
Actl10	y
a	n
Trp53inp2	n
Epb4.1l1	n
2900097C17Rik	y
Epb4.1l1	y
Epb4.1l1	n

2900097C17Rik	n
Dlgap4	n
Dlgap4	n
Myl9	y
4930405A21Rik	y
4930405A21Rik	y
Myl9	y
4930405A21Rik	y
Tgif2	n
Tgif2	n
Tgif2	n
5430405H02Rik	n
5430405H02Rik	n
5430405H02Rik	n
5430405H02Rik	n
Tgif2	n
Soga1	n
Tldc2	n
Tldc2	n
Soga1	n
Soga1	y
Soga1	y
Soga1	y
Tldc2	n
Tldc2	n
Ghrh	n
Ghrh	n
Ghrh	n
Src	n
Src	n
Blcap	n
Blcap	n
Nnat	y
Nnat	y
Nnat	y
Nnat	y
Blcap	n
Ctnnbl1	n
Ctnnbl1	n
Tti1	n
Mir7685	y

Mir7685	n
9430008C03Rik	y
9430008C03Rik	n
Arhgap40	n
Arhgap40	n
Gm14204	n
Arhgap40	n
Gm14204	y
Ppp1r16b	n
Fam83d	n
Gm14204	n
Gm14204	n
Gm826	n
Plcg1	n
Plcg1	n
Zhx3	n
Plcg1	n
Zhx3	n
Gtsf1l	y
Tox2	n
Jph2	y
Ada	n
Ywhab	n
Stk4	n
Stk4	y
Stk4	y
Stk4	y
Stk4	y
Stk4	y
Stk4	y
Kcns1	y
Matn4	y
Rbpjl	n
Sdc4	n
Rbpjl	n
Sdc4	n
Rbpjl	n
Rbpjl	n
Sdc4	n
Sdc4	n
Rbpjl	n

Sdc4	n
Wfdc2	y
Wfdc2	y
Spint3	y
Wfdc2	y
Spint3	y
Wfdc2	y
Wfdc2	y
Spint3	y
Wfdc11	n
Cdh22	n
Cd40	n
Cdh22	n
Cd40	n
Cdh22	n
Cd40	n
Cdh22	n
Cdh22	n
Cdh22	n
Cdh22	n
Cdh22	y
Cd40	n
Cdh22	n
Cd40	n
Cdh22	n
Cd40	n
Cdh22	n
Cdh22	n
Cd40	n
Slc35c2	n
Slc35c2	n
Cd40	n
2810408M09Rik	n
2810408M09Rik	n
Eya2	n
Zmynd8	n
Zmynd8	n
Eya2	n
Zmynd8	n
Eya2	y

Eya2	y
Eya2	y
Eya2	y
Eya2	y
Eya2	y
Zmynd8	y
Zmynd8	y
Zmynd8	y
Eya2	n
Eya2	n
Zmynd8	n
Eya2	y
Eya2	y
Zmynd8	y
Ncoa3	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Zmynd8	n
Ncoa3	n
Sulf2	y
Sulf2	n
Sulf2	n
Sulf2	n
Gm11468	n
Gm11468	n
5031425F14Rik	n

Prex1	n
5031425F14Rik	n
Prex1	n
Prex1	n
Mir6364	n
Mir6364	n
Mir6364	n
Prex1	n
Prex1	n
Prex1	n
Prex1	n
Prex1	n
Prex1	n
Prex1	n
Mir6364	n
Prex1	n
Prex1	n
1500012F01Rik	n
1500012F01Rik	y
Kcnb1	y
1500012F01Rik	y
1500012F01Rik	y
Kcnb1	y
Kcnb1	y
1500012F01Rik	y
1500012F01Rik	y
Snai1	y
Spata2	y
Snai1	y
Spata2	y
Spata2	y
Spata2	y
Snai1	y
Spata2	y
Snai1	y
Snai1	y
Snai1	y
Spata2	y
Spata2	y
Spata2	y
Snai1	n

Snai1	n
Snai1	n
Snai1	n
Ube2v1	n
Ube2v1	n
Snai1	n
Snai1	n
Snai1	n
Snai1	n
Snai1	n
Ube2v1	n
Snai1	n
Snai1	n
Ube2v1	n
Snai1	n
Ube2v1	n
Ube2v1	n
Snai1	n
Ube2v1	n
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Snai1	n
Snai1	n
Ube2v1	n
Snai1	n
Ube2v1	n
Snai1	n
Ube2v1	n
Snai1	n
Ube2v1	n
Ube2v1	n
Snai1	n
Cebpb	n
Tmem189	n
Tmem189	n
Cebpb	y
Tmem189	n
Tmem189	n



A530013C23Rik	n
A530013C23Rik	n
Tmem189	n
A530013C23Rik	n
Tmem189	n
A530013C23Rik	n
A530013C23Rik	n
Fam65c	n
Fam65c	n
Fam65c	n
Ptpn1	n
Fam65c	n
Ptpn1	n
Ptpn1	n
Ptpn1	n
Ptpn1	n
E130018N17Rik	n
E130018N17Rik	n
Kcng1	n
Mocs3	y
Mocs3	y
Mocs3	n
Mocs3	n
Kcng1	n
Kcng1	n
Mocs3	n
Mocs3	n
Nfatc2	n
Mocs3	n
Mocs3	n
Nfatc2	n
Mocs3	n
Mocs3	n
Mocs3	n
Nfatc2	n
Nfatc2	n
Atp9a	n
1700017J07Rik	y
1700017J07Rik	n
Tshz2	n
A630075F10Rik	n

Tshz2	n
Zfp217	y
Zfp217	y
Bcas1os2	n
Zfp217	n
Zfp217	n
Bcas1os2	n
Bcas1os2	n
Zfp217	n
Bcas1os2	n
Zfp217	n
Zfp217	n
Zfp217	n
Zfp217	n
Bcas1	n
Bcas1os2	n
Bcas1	n
Bcas1	n
Bcas1os2	n
Bcas1os2	n
Bcas1os2	n
Bcas1	n
Bcas1	n
Bcas1	n
Bcas1os2	n
Bcas1	n
Bcas1	n
Bcas1	n
Bcas1	n
Pfdn4	y
Gm16796	n
Spo11	n
Rbm38	y
Rbm38	n
Rbm38	n
Ctcf1	n
Ctcf1	n
Ctcf1	n
Pck1	n
Pck1	n
Pmepa1	n

Pmepa1	n
Pmepa1	n
Pmepa1	n
Pck1	n
Pck1	n
Pck1	n
Pmepa1	n
Pck1	n
Pck1	n
Pck1	n
Pck1	n
Pck1	n
Pck1	n
Pck1	n
Pck1	n
Pck1	n
Pmepa1	n
Pmepa1	n
Mir6340	n
Gm10714	y
Stx16	y
Gm10714	y
Stx16	y
Gm10714	y
Gm10714	y
Atp5e	n
Slmo2	n
Phactr3	y
Sycp2	y
Mtg2	y
Rps21	y
Rbbp8nl	y
Gata5	n
Gata5os	n
Gm6307	n
B230312C02Rik	n
Slco4a1	n
Slco4a1	n
B230312C02Rik	n
B230312C02Rik	n
B230312C02Rik	n

Tcf15	n
Mir124a-3	n
Arfgap1	y
Rtel1	y
Rtel1	y
Rtel1	n
Zbtb46	y
Tcea2	y
Sox18	y
Tcea2	y
Pex2	y
Pex2	y
Hey1	n
4930539M17Rik	n
Tpd52	n
4930539M17Rik	n
C030034L19Rik	n
Zfp704	n
Car1	y
Mtfr1	n
Mtfr1	n
Pde7a	n
Pde7a	n
Spata16	n
Ect2	n
Ect2	n
Tnfsf10	n
Ect2	n
Tnfsf10	n
Ect2	n
Ect2	n
Ect2	n
Fndc3b	n
Tmem212	y
Mannr	n
Mynn	n
Mynn	n
Mecom	n
Mynn	n
Mecom	n
Mecom	n

Sox2ot	n
Gm6639	n
4932438A13Rik	n
4932438A13Rik	n
Trpc3	n
Trpc3	n
Trpc3	n
Il21	n
Gm5148	n
Gm5148	n
Spry1	n
Spry1	n
Gm5148	n
Spry1	n
Gm5148	n
Gm5148	n
Jade1	n
C430002E04Rik	n
C430002E04Rik	n
C430002E04Rik	n
Jade1	n
C430002E04Rik	n
Jade1	n
C430002E04Rik	n
Jade1	n
Jade1	n
Sclt1	n
Ccrn4l	y
Naa15	y
Setd7	n
Maml3	n
Foxo1	n
Maml3	n
Maml3	n
Maml3	n
Gm2447	n
Gm20750	n
Cog6	n
Tm4sf4	n
Wwtr1	n
1700007F19Rik	n

1700007F19Rik	n
Med12l	n
Med12l	n
Clrn1	n
Med12l	n
Clrn1	n
Med12l	n
Clrn1	n
Med12l	n
Med12l	n
Med12l	n
Arhgef26	y
Dhx36	y
Dhx36	y
Kcnab1	n
Tiparp	n
4931440P22Rik	n
Lekr1	n
Lekr1	n
Ccnl1	n
Ccnl1	n
Ift80	n
Ift80	n
Ift80	y
Smc4	n
Ift80	n
4921511C10Rik	n
Fnip2	n
Etfdh	n
Fam198b	n
Gria2	y
Gm6525	n
Gm6525	n
Gm6525	n
Mnd1	n
Trim2	n
Trim2	n
Trim2	n
Gm6525	n
Trim2	y
Trim2	y

4930565D16Rik	n
Tigd4	n
Fhdc1	n
Fhdc1	y
Fhdc1	y
Arfip1	n
Tmem154	y
Arfip1	y
Dear1	n
Dear1	n
1700036G14Rik	n
Dear1	n
1700036G14Rik	n
Sh3d19	n
Sh3d19	n
Lrba	y
Lrba	y
Kirrel	n
Kirrel	n
Lrrc71	y
Insrr	n
Insrr	n
Insrr	n
Ntrk1	n
Insrr	n
Insrr	n
Ntrk1	n
Insrr	n
Bcan	n
Nes	y
Bcan	y
Nes	y
Bcan	y
Bcan	n
Bcan	n
Bcan	n
Gpatch4	n
Mef2d	n
Mef2d	n
1700113A16Rik	n
Mef2d	n





Mex3a	n
Mir1905	n
Mex3a	n
Mir1905	n
Mex3a	n
Mir1905	n
Mex3a	n
Mex3a	n
Mex3a	n
Mir1905	n
Mir1905	n
Mir1905	n
Mir1905	n
Mex3a	n
Mir1905	n
Mex3a	n
Mex3a	n
Mex3a	n
Mir1905	n
Mir1905	n
Mir1905	n
Mir1905	n
Mir1905	n
Mex3a	n
Mex3a	n
Arhgef2	n
Rxfp4	n
Krtcap2	y
Trim46	y
Krtcap2	y
Trim46	y
Dpm3	y
Dpm3	n
Gm15417	y
Adam15	y
Gm15417	y
Adam15	y
Gm15417	n
Gm15417	n
Zbtb7b	n
Zbtb7b	y

Ube2q1	n
Ube2q1	n
Chrn2	n
Il6ra	y
Il6ra	y
She	n
She	n
She	y
Slc39a1	y
Slc39a1	y
Slc39a1	y
Creb3l4	y
Slc39a1	y
Slc39a1	y
Slc39a1	y
Slc39a1	y
Creb3l4	y
Ilf2	y
Npr1	y
Ilf2	y
Npr1	y
Ilf2	y
Ilf2	y
Ilf2	y
Ilf2	y
Rorc	y
Riad1	n
Zfp687	y
Pi4kb	n
Pi4kb	n
Lysmd1	y
Sema6c	n
Sema6c	n
Sema6c	n
Gabpb2	n
Gabpb2	n
Sema6c	n
Sema6c	n
Gabpb2	n
Gabpb2	n
Gabpb2	n

Gabpb2	n
Gabpb2	n
Sema6c	n
Sema6c	n
Sema6c	n
Sema6c	n
Gabpb2	n
Gabpb2	n
Gabpb2	n
Gabpb2	n
Gabpb2	n
Sema6c	n
Gabpb2	n
Sema6c	n
Mllt11	n
Mllt11	n
Gm128	y
Gm128	y
Gm128	y
Gm128	y
Cdc42se1	y
Gm128	y
Mcl1	n
Mcl1	n
Mcl1	n
Adamtsl4	n
Mcl1	n
Adamtsl4	n
Adamtsl4	n
Adamtsl4	n
Mcl1	n
Adamtsl4	n
Mcl1	n
Hfe2	n
BC107364	n
Hfe2	n
BC107364	n
Gm15441	n
Polr3gl	n
Ankrd34a	n
Ankrd34a	n

Polr3gl	n
Pdzk1	n
Acp6	n
Bcl9	n
Mir378c	n
Mir378c	n
Bcl9	n
Bcl9	n
Bcl9	n
Bcl9	n
Bcl9	n
Chd1l	n
Pde4dip	n
Notch2	n
Notch2	n
Notch2	n
Notch2	n
Pde4dip	n
Hao2	n
Cd101	n
Trim45	n
Igsf3	n
Igsf3	n
Ptgfrn	n
Igsf3	n
Igsf3	n
Igsf3	n
Cd2	n
Cd2	n
Igsf3	n
Igsf3	n
Igsf3	n
Mab21l3	n
Casq2	n
Vangl1	n
Dennd2c	n
Trim33	n
Atg4a	n
Atg4a	n
Syt6	n
Gm15471	n

Phtf1	n
Lrig2	n
Lrig2	n
Lrig2	n
Ppm1j	n
Ppm1j	n
Rhoc	y
Rhoc	y
Mov10	y
Rhoc	y
Mov10	y
Mov10	y
Mov10	y
Mov10	y
Rhoc	n
Rhoc	n
Mov10	n
Mov10	n
Mov10	n
Mov10	n
Rhoc	n
Mov10	n
4930564D02Rik	n
Kcnd3	n
Kcnd3os	n
Kcnd3os	n
Kcnd3os	n
Fam212b	y
Fam212b	y
Fam212b	n
Tmigd3	n
Amigo1	n
Amigo1	n
Cyb561d1	n
Amigo1	n
Cyb561d1	n
Amigo1	n
Cyb561d1	n
Amigo1	n
Amigo1	n
Amigo1	n

Amigo1	n
Cyb561d1	n
Psrc1	n
Psrc1	n
Gpsm2	n
Aknad1	n
Gpsm2	n
Henmt1	n
S1pr1	n
Extl2	n
Extl2	n
Extl2	n
Vcam1	n
Alg14	n
Cnn3	n
Slc44a3	y
Cnn3	y
Slc44a3	y
Cnn3	y
Cnn3	y
F3	y
Arhgap29	n
Abcd3	n
Abcd3	n
Abca4	n
Abcd3	n
Abcd3	n
Abca4	y
Abca4	y
Abcd3	y
Abca4	y
Abca4	y
Abcd3	y
Abcd3	y
Abca4	y
Abcd3	y
Abca4	y
Abca4	y
Abca4	y
Abcd3	y
Abcd3	y



Neurog2	n
Neurog2	n
Neurog2	n
Neurog2	n
Alpk1	n
Alpk1	n
Alpk1	n
Alpk1	n
Alpk1	n
Alpk1	n
D030025E07Rik	n
Gm5712	n
Egf	n
Lrit3	n
Col25a1	n
Col25a1	n
Lef1	n
Lef1	n
Lef1	n
Hadh	n
Hadh	n
Hadh	n
Hadh	n
Lef1	n
Lef1	n
Cyp2u1	y
Tet2	n
Ppa2	n
Tet2	n
Tet2	n
Nfkb1	n
Manba	n
Manba	n
Ppp3ca	n
Gm4861	n
Lamtor3	n
Gm5105	n
Trmt10a	n
Rap1gds1	n
Rap1gds1	n
Stpg2	n



Rap1gds1	n
Stpg2	n
15-Sep	n
15-Sep	n
Hs2st1	n
Hs2st1	n
15-Sep	n
Hs2st1	n
15-Sep	n
Hs2st1	n
Ddah1	n
Cyr61	n
2410004B18Rik	n
2410004B18Rik	n
2410004B18Rik	n
Wdr63	n
Mcoln2	n
Wdr63	n
Gm10636	n
Gm10636	y
Gm10636	y
Gm10636	y
Ssx2ip	y
Gm1653	n
Gm1653	n
Gm1653	n
Gm1653	n
Lphn2	n
Gm1653	n
Lphn2	n
Lphn2	n
Elt1d1	n
Gipc2	y
Fubp1	y
Fubp1	y
Nexn	y
Fubp1	y
St6galnac5	n
Lhx8	n
Slc44a5	n
Negr1	n

Lrrc40	n
Gm20752	n
Lyn	y
Gm11780	n
Car8	n
Chd7	n
Asph	n
Clvs1	n
Clvs1	n
Clvs1	n
Clvs1	n
Asph	n
2610301B20Rik	n
Mir684-2	n
Esrp1	y
Esrp1	y
Cdh17	n
Triqk	n
Fam92a	n
Fam92a	n
Fam92a	n
Triqk	n
Slc26a7	y
Runx1t1	y
Runx1t1	y
Runx1t1	y
Slc26a7	y
Slc7a13	n
Ttpa	y
4930480G23Rik	y
4930480G23Rik	n
Map3k7	n
Bach2os	n
Map3k7	n
Bach2os	n
Ankrd6	n
Ankrd6	n
Lym2	n
Ube2j1	y
4933421O10Rik	y
4933421O10Rik	y

Pm20d2	y
Pnrc1	n
Cga	n
4933428C19Rik	y
Dnaja1	n
Smu1	n
Aqp3	n
Dnaic1	y
Fam219a	y
Dnaic1	y
Dnaic1	y
Fam219a	n
Dnaic1	n
Dnaic1	n
Galt	y
Galt	n
Rpp25l	y
Rpp25l	y
Galt	y
Galt	n
Galt	n
N28178	n
BC049635	n
Dnajb5	n
Vcp	n
Dnajb5	n
Dnajb5	n
Vcp	n
Rusc2	y
Fam166b	y
Fam166b	y
Rusc2	n
Fam166b	n
Fam166b	n
Msmg	y
Spag8	y
Npr2	y
Npr2	y
Npr2	y
Spag8	y
Npr2	y

Spag8	y
Npr2	y
Npr2	y
Npr2	y
Npr2	y
Spag8	y
Npr2	y
Spag8	y
5430416O09Rik	n
Reck	n
Olfr157	n
Olfr157	n
Grhpr	y
Slc25a51	n
Dcaf10	n
Shb	n
Gm829	n
Gm12409	n
Gm829	n
Gm12409	n
Aldh1b1	n
Gm12409	n
Igfbpl1	n
Stra6l	n
Stra6l	n
Igfbpl1	n
Igfbpl1	n
Stra6l	n
Tdrd7	n
Tstd2	n
Tstd2	n
Foxe1	n
Nans	n
Nans	n
Tbc1d2	n
Tbc1d2	n
Nans	n
Nans	n
Nans	n
Nans	n
Nans	n

Tbc1d2	n
Tbc1d2	n
Tbc1d2	n
Nans	n
Gabbr2	n
Gabbr2	n
Gabbr2	n
Galnt12	n
Anks6	n
Galnt12	n
Anks6	n
Col15a1	n
Alg2	n
Alg2	n
Alg2	n
Msantd3	y
Tex10	y
Tmeff1	y
Tex10	y
Tmeff1	y
Tex10	y
Tex10	y
Tex10	y
Zfp189	n
Zfp189	n
Baat	n
Baat	n
Rnf20	y
Actl7a	n
Fam206a	y
Fam206a	y
Fam206a	y
Fam206a	y
Frrs1l	y
Ptpn3	n
Akap2	y
Zkscan16	n
Ptbp3	n
Inip	n
Snx30	n
Rgs3	n

Pole3	n
Pole3	n
Orm2	y
6330416G13Rik	n
Kdm4c	n
Ptprd	n
Lurap1l	n
Mpdz	n
Mpdz	n
Nfib	n
Gm5860	n
Gm5860	n
Nfib	n
Gm5860	n
Zdhhc21	n
Ccdc171	n
Cdkn2a	y
Dmrta1	n
Zfp352	n
Elavl2	n
Jun	n
Jun	n
E130114P18Rik	y
E130114P18Rik	y
Kank4os	n
Kank4	n
Atg4c	n
Itgb3bp	n
Foxd3	y
Ror1	n
Pde4b	n
Pde4b	y
Gm12709	y
Pde4b	y
Gm12709	y
Gm12709	n
Wdr78	n
Prkaa2	n
Ppap2b	y
Ppap2b	y
Prkaa2	n

Usp24	n
Pcsk9	n
Pcsk9	n
Bsnd	n
Acot11	n
Acot11	n
Acot11	n
Acot11	n
Acot11	n
Ssbp3	n
Acot11	n
Acot11	n
Ssbp3	n
Ssbp3	n
Mrpl37	n
Ssbp3	n
Ssbp3	n
Ssbp3	n
Mrpl37	n
Mrpl37	n
Cdcp2	n
Cdcp2	n
Tceanc2	n
Tceanc2	n
Cdcp2	n
Tceanc2	n
Tceanc2	n
Cdcp2	n
Tceanc2	n
Tceanc2	n
Tceanc2	n
Yipf1	n
Dio1	n
Dio1	y
Dmrtb1	n
Slc1a7	n
Podn	y
Slc1a7	y
Zcchc11	y
Gpx7	y
Gpx7	y

Faf1	n
Cdkn2c	n
Cdkn2c	n
Skint6	n
Skint5	y
Skint5	n
Trabd2b	n
Trabd2b	n
Foxd2	n
Foxd2	n
Trabd2b	n
Foxd2	n
Trabd2b	n
Foxd2	n
Trabd2b	n
Foxd2	n
Foxd2	n
Foxd2	n
Trabd2b	n
Foxd2	n
Trabd2b	n
Trabd2b	n
Foxd2	n
Trabd2b	n
Foxd2	n
Trabd2b	n
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Trabd2b	n
Foxd2	n
Foxd2	n
Foxd2	n
Gm12830	n
Foxd2	n
Gm12830	n
Foxd2os	y
Foxd2os	y
Foxd2os	y



Foxd2os	y
Foxd2os	y
Foxd2	y
Foxd2os	y
Foxd2os	y
Foxd2	n
Foxd2	n
Tal1	n
Cyp4x1	n
Mknk1	n
Kcnk	n
Faah	n
Hpdl	y
Mutyh	y
Mutyh	y
Mutyh	y
Hpdl	y
Urod	n
Urod	n
Urod	n
Btbd19	n
Tmem53	n
Rnf220	n
Tmem53	n
Tmem53	n
Rnf220	n
Dmap1	n
Slc6a9	y
Ccdc24	y
Slc6a9	n
Slc6a9	n
B4galt2	y
Slc6a9	n
Ptprf	n
Ptprf	n
Hyi	n
Hyi	y
Hyi	y
Ptprf	y
Hyi	y
Hyi	y

Hyi	n
Med8	n
Med8	n
Szt2	n
2610528J11Rik	n
Tmem125	n
Olfr1338	n
Lao1	n
Lao1	n
Lao1	n
Lao1	n
Lao1	n
Lao1	n
Olfr1328	n
Lao1	n
Slc2a1	n
Slc2a1	n
Slc2a1	n
Zfp691	n
Slc2a1	n
Slc2a1	n
Zfp691	n
Slc2a1	n
Zfp691	n
Zfp691	n
Zfp691	n
Slc2a1	n
Zfp691	n
Slc2a1	n
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Slc2a1	n
Slc2a1	n
Zfp691	n
Zfp691	n
Zfp691	n
Slc2a1	n
Zfp691	n
Slc2a1	n
Zfp691	n
Zfp691	n

Slc2a1	n
Zfp691	n
Slc2a1	n
Zfp691	n
Zfp691	y
Ybx1	y
Foxo6	n
Hivep3	n
Foxo6	n
Foxo6	n
Foxo6	n
Foxo6	n
Foxo6	n
Edn2	n
Edn2	n
Edn2	n
Foxo6	n
Scmh1	n
Cited4	y
Kcnq4	y
Cited4	y
Mir30f	y
Kcnq4	y
Kcnq4	n
Zmpste24	n
Gm12888	n
Gm12888	n
Mfsd2a	n
Mycl	n
Bmp8b	y
Nt5c1a	y
Ppie	y
Nt5c1a	y
Ppie	y
Nt5c1a	y
Ppie	y
Heyl	n
Heyl	n
Heyl	n
Bmp8a	n
Macf1	y

Macf1	y
Macf1	n
Mycbp	n
1700057H15Rik	n
Rragc	n
1700057H15Rik	n
Pou3f1	n
Rspo1	n
Rspo1	n
Cdca8	n
Rspo1	n
Cdca8	n
Cdca8	n
Rspo1	n
Rspo1	n
Zc3h12a	n
Zc3h12a	n
Oscp1	n
Sh3d21	n
Eva1b	y
Eva1b	y
Eva1b	y
Sh3d21	y
Sh3d21	y
Sh3d21	y
Eva1b	y
Eva1b	y
Eva1b	y
Eva1b	y
Eva1b	n
Eva1b	n
Sh3d21	n
Sh3d21	n
Eva1b	n
Sh3d21	n
Eva1b	n
Eva1b	n
Thrap3	n
Trappc3	y
Trappc3	y
Col8a2	y

Col8a2	y
Adprhl2	y
Adprhl2	y
Col8a2	n
Col8a2	n
Adprhl2	n
Tekt2	y
Col8a2	y
Col8a2	y
Tekt2	y
Col8a2	y
Col8a2	y
Tekt2	y
Zmym4	n
Smim12	n
Smim12	n
Gja4	y
Gja4	y
Csmd2	y
Csmd2	n
Zfp362	n
Trim62	n
Zfp362	n
Ak2	n
Ak2	y
Ak2	y
Azin2	y
Azin2	y
Ak2	n
Rnf19b	n
Hpca	n
Hpca	y
Yars	y
Yars	y
C77080	y
C77080	y
C77080	n
Yars	y
C77080	n
C77080	y
Rbbp4	y



Khdrbs1	n
Ptp4a2	n
Ptp4a2	n
Khdrbs1	n
Khdrbs1	n
Khdrbs1	n
Hcrtr1	n
Bai2	n
Hcrtr1	n
Col16a1	n
Col16a1	n
Col16a1	n
Hcrtr1	n
Col16a1	n
Col16a1	n
Col16a1	n
Hcrtr1	n
Tinagl1	n
Pef1	y
Pef1	y
Tinagl1	y
Pef1	y
Tinagl1	y
Pef1	y
Tinagl1	y
Tinagl1	y
Pef1	y
Tinagl1	y
Tinagl1	y
Fabp3	n
A930031H19Rik	n
A930031H19Rik	n
A930031H19Rik	n
A930031H19Rik	n
Lptm5	n
Ptpru	n
Mecr	n
Ptpru	n
Ptpru	n
Mecr	n
Tmem200b	n

Tmem200b	n
Tmem200b	n
Gm12992	n
Gm12992	n
Gm12992	y
Tmem200b	y
Tmem200b	y
Tmem200b	y
Epb4.1	y
Dnajc8	n
Dnajc8	n
Dnajc8	n
Sesn2	n
Sesn2	n
Dnajc8	n
Atpif1	n
Atpif1	n
Atpif1	n
Dnajc8	n
Ptafr	y
Atpif1	y
Xkr8	n
Rpa2	n
Fam76a	n
Fgr	n
Fgr	n
Fam76a	n
Fam76a	n
Fam76a	n
Fam76a	n
Ahdc1	n
Gpr3	n
Wasf2	n
Wasf2	n
Gpr3	n
Gpr3	n
Gpr3	n
Wasf2	n
Wasf2	n
Cd164l2	y
Map3k6	n



Sytl1	n
Sytl1	n
Sytl1	n
Sytl1	n
Sytl1	n
Wdte1	n
Wdte1	n
Slc9a1	n
Trnp1	n
Kdf1	y
Nudc	y
Nudc	y
Kdf1	y
Kdf1	y
Gpn2	n
Gpn2	n
Arid1a	n
Gpn2	n
Gpn2	n
Rps6ka1	n
Rps6ka1	n
Aim1	n
Rps6ka1	n
Aim1	n
Rps6ka1	n
Aim1	n
Cd52	n
Cd52	n
Cd52	n
Cd52	n
Cd52	n
Aim1	n
Cnksr1	y
E130218I03Rik	n
Grrp1	y
Pdik1l	y
1700021N21Rik	n
Stmn1	n
1700021N21Rik	n
Stmn1	n

Stmn1	n
1700021N21Rik	n
Stmn1	n
Stmn1	n
1700021N21Rik	n
1700021N21Rik	n
Stmn1	n
Aunip	n
Man1c1	n
Rhd	y
Rhd	y
Tmem57	n
Tmem50a	n
Runx3	n
Runx3	n
Runx3	n
Clic4	n
Runx3	n
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Clic4	n
Runx3	n
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Clic4	n

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Stpg1	y
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Stpg1	n
Stpg1	n
Stpg1	y
Stpg1	y
Nipal3	y
Stpg1	y
Stpg1	y
Nipal3	y
Nipal3	y
Stpg1	n

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Stpg1	n
Grhl3	n
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Grhl3	n
Stpg1	n
Stpg1	n
Il22ra1	n
Srsf10	n
Pnrc2	n
Id3	n
Rpl11	n
Rpl11	n
Rpl11	n
Id3	n
Id3	n
Rpl11	n
Rpl11	n
Rpl11	n
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Id3	n
Id3	n
Rpl11	n
Rpl11	n
Rpl11	n
E2f2	n
Rpl11	n
Asap3	n
Kdm1a	y
Kdm1a	n
Kdm1a	n
Kdm1a	n
Kdm1a	n
Ephb2	n
Lactbl1	n
Lactbl1	n
Ephb2	n
Lactbl1	n
Lactbl1	n
Ephb2	n

Ephb2	n
Lactbl1	n
Lactbl1	n
Lactbl1	n
Ephb2	n
Ephb2	n
Lactbl1	y
Lactbl1	y
Ephb2	y
Lactbl1	y
Ephb2	y
Lactbl1	y
Ephb2	y
Lactbl1	y
Ephb2	y
Lactbl1	y
Lactbl1	y
Ephb2	y
Ephb2	y
Lactbl1	y
Ephb2	y
Lactbl1	n
C1qb	n
C1qb	n
Lactbl1	n
C1qb	n
Lactbl1	n
Lactbl1	n
C1qb	n
Lactbl1	n
C1qb	n
Lactbl1	n
C1qb	n
C1qb	n
C1qb	y
C1qc	y
Gm13003	n
Gm13003	n
Gm13003	n
Cela3b	y
Cela3b	n

Cela3b	n
Cela3b	n
Hspg2	n
Hspg2	n
Ldlrad2	n
Alpl	n
Alpl	n
Rap1gap	n
Rap1gap	n
Alpl	n
Rap1gap	n
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Rap1gap	n
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Ece1	n
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Alpl	n
Alpl	n
Alpl	n
Ece1	n
Ece1	n
Alpl	n
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Ece1	n
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Alpl	n
Alpl	n
Ece1	n
Ece1	n
Alpl	n
Fam43b	n
Fam43b	n
Mul1	n
Mul1	n
Vwa5b1	n

Vwa5b1	n
Pla2g2a	n
Minos1	n
Minos1	n
Minos1	n
Ubr4	n
Pax7	n
Iffo2	n
Pax7	n
Pax7	n
Pax7	n
Pax7	n
Pax7	n
Klhdc7a	n
Tas1r2	n
Arhgef10l	n
Rcc2	n
Arhgef10l	y
Arhgef10l	y
Rcc2	y
Rcc2	y
Rcc2	y
Rcc2	y
Arhgef10l	y
Padi6	y
Rcc2	n
Rcc2	n
Rcc2	n
Padi4	n
Padi4	n
Rcc2	n
Rcc2	n
Padi4	n
Padi4	n
Rcc2	n
Padi4	n
Gm13032	n
Gm13032	n
Gm13032	n
Gm13032	n
Padi3	n

Gm13032	n
Gm13032	n
Padi1	n
Padi1	n
4930515B02Rik	n
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Padi1	n
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4930515B02Rik	n
Padi1	n
Padi1	n
Padi1	n
Gm13031	n
Sdhb	n
Sdhb	n
Crocc	y
Crocc	y
Crocc	y
Rsg1	n
Rsg1	n
Arhgef19	y
Arhgef19	n
Arhgef19	n
Arhgef19	n
Arhgef19	n
Epha2	n
Clcnka	n



Epha2	n
Epha2	n
Clcnka	n
Clcnka	n
Epha2	n
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Epha2	n
Epha2	n
Clcnka	n
Epha2	n
Epha2	n
Clcnka	n
Clcnka	n
Clcnka	n
Clcnka	y
Hspb7	y
Fblim1	n
B330016D10Rik	n
Fblim1	n
B330016D10Rik	n
Fblim1	n
B330016D10Rik	n
Fblim1	n
AI507597	y
Ctrcos	n
Ctrcos	n
Ctrcos	n
Efhd2	n
Ctrcos	n
Ctrcos	n
Efhd2	n
Ctrcos	n
Fhad1os1	n
Tmem51os1	n
Tmem51os1	n
Tmem51os1	n
Tmem51os1	n
Tmem51	n

Tmem51	n
Tmem51os1	n
Tmem51os1	n
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Tmem51os1	n
Tmem51	n
Tmem51	n
Tmem51	y
Tmem51	y
Tmem51	y
Tmem51	y
Tmem51os1	y
Tmem51	y
Tmem51os1	y
Tmem51	y
Tmem51os1	y
Tmem51	y
Tmem51os1	y
Tmem51	y
Tmem51os1	y
Tmem51os1	y
Tmem51	y
Tmem51os1	y
Tmem51os1	n
Kazn	n
Lrrc38	n
Oog4	y
Pramef12	n
Pramef12	n
Gm13124	n
Gm13124	n
Dhrs3	n
Vps13d	n
Plod1	n
Clcn6	y
Agtrap	n
Mad2l2	n
Mad2l2	n
Draxin	n
Draxin	n

Mad2l2	n
Draxin	n
Draxin	n
Fbxo6	y
Mad2l2	n
Mad2l2	n
Mad2l2	n
Fbxo6	n
Fbxo6	n
Mad2l2	n
Fbxo6	n
Mad2l2	n
Mad2l2	n
Fbxo6	n
Mad2l2	n
Fbxo6	n
Mad2l2	n
Fbxo6	n
Fbxo6	n
Fbxo2	y
Fbxo2	y
Gm572	n
Gm572	n
Casz1	n
Tardbp	n
Tardbp	n
Casz1	n
Tardbp	n
Tardbp	n
Casz1	n
Pex14	n
Casz1	n
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Pex14	n
Casz1	n
Pex14	n
Pex14	n
Pex14	n
Pex14	n
Casz1	n



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Casz1	n

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Pex14	n
Casz1	n
Casz1	n
Casz1	n
Dffa	y
Cort	y
Nmnat1	n
Ctnnbip1	n
Ctnnbip1	n
Clstn1	y
Clstn1	y
Pik3cd	y
Pik3cd	y
Pik3cd	y
Pik3cd	y
Clstn1	n
Clstn1	n
Clstn1	n
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Clstn1	n
Slc25a33	n
Slc25a33	n
Clstn1	n
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Clstn1	n

Mir34a	n
Mir34a	n
H6pd	y
Mir34a	n
H6pd	n
H6pd	n
Mir34a	n
H6pd	n
Mir34a	n
Mir34a	n
Gpr157	n
Slc2a5	n
Car6	n
Slc45a1	n
Errfi1	n
Errfi1	n
1700045H11Rik	n
1700045H11Rik	n
Park7	n
Park7	n
Park7	n
Park7	n
Thap3	n
Thap3	n
Thap3	n
Espn	n
Espn	n
Plekhg5	n
Espn	n
Espn	n
Tnfrsf25	n
Espn	n
Tnfrsf25	n
Espn	n
Tnfrsf25	n
Espn	n
Tnfrsf25	n
Tnfrsf25	n
Tnfrsf25	y
Tnfrsf25	y
Espn	y

Tnfrsf25	y
Tnfrsf25	y
Tnfrsf25	y
Espn	y
Icmt	y
Rnf207	n
Chd5	n
Chd5	n
Nphp4	n
Nphp4	n
Kcnab2	n
Nphp4	n
Nphp4	n
Kcnab2	n
Kcnab2	n
Ajap1	n
Ajap1	n
Lrrc47	n
Smim1	n
Smim1	y
Smim1	y
Megf6	n
Megf6	n
Arhgef16	n
Arhgef16	n
Megf6	y
Prdm16	n
Prdm16	n
Prdm16	n
Prdm16	n
Megf6	n
Megf6	n
Prdm16	n
Megf6	n
Prdm16	n
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Prdm16	n
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Prdm16	n
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Megf6	n
Ttc34	n
Prdm16	n
Ttc34	n
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Ttc34	n
Prdm16	n
Ttc34	y
Prdm16	y
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Prdm16	n
Ttc34	n
Prdm16	n
Prdm16	n
Actrt2	n
Hes5	n
Plch2	n
Plch2	n
Plch2	n
Pank4	n
Plch2	n
Morn1	n
Morn1	n
Rer1	n
Rer1	n
Rer1	n
Ski	n
2610002J02Rik	n

Ski	n
Ski	n
Ski	n
Cfap74	n
Cfap74	n
5830444B04Rik	n
5830444B04Rik	n
5830444B04Rik	n
5830444B04Rik	n
Gm16023	y
Mib2	y
Mib2	y
Mib2	y
Mib2	n
Atad3a	n
Tmem240	n
Atad3a	n
Vwa1	n
Atad3aos	n
Vwa1	n
Atad3aos	n
Vwa1	n
Vwa1	n
Vwa1	n
Vwa1	n
Atad3aos	n
Atad3aos	n
Mxra8	y
Tas1r3	y
Tas1r3	y
Tnfrsf18	n
Tnfrsf18	n
Ttll10	n
Ttll10	n
Ttll10	n
Noc2l	y
Klhl17	y
Klhl17	y
Rbm48	n
Rbm48	n
Rbm48	n

Rbm48	n
Cdk6	n
Rbm48	n
Mterf1b	n
Fzd1	n
Cldn12	n
Cldn12	n
Steap1	y
4921511H03Rik	n
Nos3	n
Nos3	y
Nos3	y
Kcnh2	y
Nos3	y
Kcnh2	y
Kcnh2	y
Asic3	y
Cdk5	y
Cdk5	y
Slc4a2	y
Cdk5	y
Slc4a2	y
Cdk5	y
Cdk5	y
Cdk5	y
Slc4a2	y
Slc4a2	y
Slc4a2	y
Cdk5	y
Slc4a2	y
Cdk5	y
Slc4a2	y
Cdk5	y
Cdk5	y
Cdk5	y
Cdk5	y
Agap3	n
Agap3	n
Agap3	n
Tmub1	n
Tmub1	n

Gbx1	n
Gbx1	n
Gbx1	n
Agap3	n
Gbx1	n
Agap3	n
4931409K22Rik	n
Chpf2	n
Smarcd3	n
Chpf2	n
Chpf2	n
Smarcd3	n
Chpf2	n
Nub1	y
Nub1	n
Nub1	n
Nub1	n
Crygn	n
Nub1	n
Nub1	n
Crygn	y
Crygn	y
Nub1	n
Nub1	n
Nub1	n
Crygn	n
Prkag2os1	n
Prkag2	n
Prkag2	n
1700096K18Rik	n
Gareml	n
Gareml	n
3110082J24Rik	n
3110082J24Rik	n
3110082J24Rik	n
Gareml	n
Gareml	n
Gareml	n
3110082J24Rik	n
Hadha	n
Gareml	n

Cgref1	y
Abhd1	y
Cad	n
Snx17	n
Zfp513	n
Snx17	n
Snx17	n
Ift172	n
Spon2	y
Fam53a	n
Tacc3	n
Tmem129	n
Tmem129	n
Tacc3	n
Tacc3	n
Tmem129	n
Tmem129	n
Tacc3	n
Tmem129	n
Tacc3	n
Tmem129	n
Letm1	n
Fgfr3	n
Letm1	n
Fgfr3	y
Fgfr3	y
Fgfr3	y
Fgfr3	y
Letm1	y
Fgfr3	y
Fgfr3	y
Letm1	y
Zfyve28	n
Add1	n
Msantd1	n
Lrpap1	n
Msantd1	n
Cpz	n
Acox3	n
Acox3	n
Htra3	n

Htra3	n
Acox3	y
Acox3	y
Afap1	y
Afap1	y
Sorcs2	n
Mir7689	n
Msx1	n
4930487D11Rik	y
Hs3st1	n
Cc2d2a	n
Prom1	y
Prom1	y
Cd38	n
Slit2	n
Lgi2	n
5033403H07Rik	n
5033403H07Rik	n
5033403H07Rik	n
Cckar	y
Pcdh7	n
Pcdh7	n
Pcdh7	n
4932441J04Rik	n
Pcdh7	n
4932441J04Rik	n
Pcdh7	n
Arap2	n
0610040J01Rik	n
Rell1	n
Rell1	n
1700027F09Rik	n
1700027F09Rik	n
1700027F09Rik	n
Tbc1d1	n
Klf3	n
Klf3	n
Gm3716	n
Rfc1	n
Ube2k	n
9130230L23Rik	n

Nsun7	n
1700126H18Rik	n
Apbb2	n
Apbb2	n
Apbb2	n
Nsun7	y
Apbb2	y
Nsun7	n
Nsun7	n
Nsun7	n
Apbb2	n
Uchl1	n
Limch1	y
Limch1	n
Limch1	n
Bend4	n
C330024D21Rik	y
Atp8a1	n
Atp8a1	y
Shisa3	n
Shisa3	n
Ociad2	n
Sgcb	n
Dancr	n
Usp46	n
Usp46	n
Usp46	n
Usp46	n
Dancr	n
Dancr	n
Usp46	n
Usp46	n
Scfd2	n
Scfd2	n
Scfd2	n
Scfd2	n
Rasl11b	n
Rasl11b	n
Scfd2	n
Scfd2	n
Rasl11b	n



Scfd2	n
Lnx1	n
Gm6116	n
Gm19583	n
Kdr	n
Kit	n
Kit	n
Kit	n
Kdr	n
Kdr	n
Kdr	n
Srd5a3	n
Kdr	n
Gm7271	y
Aasdh	n
Cep135	n
Hopx	y
Hopx	y
Hopx	y
1700023E05Rik	n
1700023E05Rik	n
1700023E05Rik	n
Hopx	n
Hopx	n
Igfbp7	n
Igfbp7	n
Polr2b	n
Grsf1	n
Ankrd17	n
Rassf6	y
Cxcl3	n
Thap6	n
Rchy1	n
Ppef2	n
Cxcl11	n
Mir6415	n
Scarb2	y
Scarb2	y
Shroom3	y
Ccdc158	n
Shroom3	n

Shroom3	n
Shroom3	y
Mir1961	y
Mir1961	y
Shroom3	n
Sowahb	n
Gm3259	n
Cnot6l	n
Bmp2k	n
Prdm8	n
Prdm8	n
Prdm8	n
Antxr2	n
Prdm8	n
Antxr2	n
Prdm8	n
Antxr2	n
Prdm8	n
Antxr2	n
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Prdm8	n
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Prdm8	n
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Antxr2	n
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Prdm8	n
Prdm8	n
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Prdm8	n
Antxr2	n

Antxr2	n
Prdm8	n
Antxr2	n
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Prdm8	n
1700007G11Rik	n
Prkg2	n
A930011G23Rik	n
Enoph1	n
Tmem150cos	n
Tmem150c	n
Helq	n
Agpat9	n
Cds1	n
Cds1	n
Wdfy3	n
Wdfy3	n
Cds1	n
Arhgap24	n
Mapk10	n
Arhgap24	y
Mapk10	n
Mapk10	n
Mapk10	n
Arhgap24	n
Mapk10	n
Ptpn13	n
Ptpn13	y
Ptpn13	n
Ptpn13	n
4930429D17Rik	n
Ptpn13	n
4930429D17Rik	n
Ptpn13	n
4930429D17Rik	n
Ptpn13	n
4930429D17Rik	n
Ptpn13	n
4930429D17Rik	n

Aff1	n
Aff1	n
Klhl8	n
Klhl8	n
Klhl8	n
Hsd17b11	n
Lrrc8b	n
Gbp11	n
Zfp326	n
Barhl2	n
Zfp644	n
Hfm1	n
Hfm1	n
Hfm1	n
Tgfbr3	n
Rpap2	n
Rpap2	n
Rpap2	n
Gfi1	n
Gfi1	n
Gfi1	n
Gfi1	n
Rpap2	n
Gfi1	n
Rpap2	n
Rpap2	n
Rpap2	n
Rpap2	n
Gfi1	n
Gfi1	n
Gfi1	n
Gfi1	n
Gfi1	n
Rpap2	n
Gfi1	n
Rpap2	n
Gfi1	n
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Gfi1	n
Rpap2	n

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Rpap2	n
Gfi1	n
Rpap2	n
Gfi1	n
Rpap2	n
Gfi1	n
Rpap2	n
Gfi1	n
Rpap2	n
Atp5k	n
Mfsd7a	y
Vmn2r17	n
Plcx1	y
Lrcol1	n



E130006D01Rik	y
E130006D01Rik	y
E130006D01Rik	y
E130006D01Rik	y
E130006D01Rik	y
Mn1	y
E130006D01Rik	y
Mn1	y
Mn1	y
Mn1	y
Mn1	y
E130006D01Rik	y
E130006D01Rik	y
Mn1	y
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E130006D01Rik	y
E130006D01Rik	y
Mn1	y
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Mn1	y
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E130006D01Rik	y
E130006D01Rik	y
E130006D01Rik	y

Mn1	y
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Mn1	y
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Mn1	y
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E130006D01Rik	n
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Mn1	n



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C130026L21Rik	n
E130006D01Rik	n
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C130026L21Rik	n
E130006D01Rik	n
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C130026L21Rik	n
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C130026L21Rik	n
C130026L21Rik	n
E130006D01Rik	n
C130026L21Rik	n
E130006D01Rik	n
E130006D01Rik	n
E130006D01Rik	n
C130026L21Rik	n
C130026L21Rik	n
E130006D01Rik	n
1700028D13Rik	n
Miat	n
Miat	n
1700028D13Rik	n

Cryba4	n
Cryba4	n
Tpst2	n
Hps4	y
Hps4	y
Asphd2	y
Asphd2	y
1700095B10Rik	n
Myo18b	n
Adrbk2	n
Tmem211	n
2900026A02Rik	n
2900026A02Rik	n
Tmem211	n
2900026A02Rik	y
Tmem211	y
2900026A02Rik	y
2900026A02Rik	y
Tmem211	y
2900026A02Rik	y
Tmem211	y
Tmem211	y
Tmem211	y
Tmem211	y
Tmem211	y
Tmem211	n
2900026A02Rik	n
2900026A02Rik	n
Tmem211	n
Mir7230	n
Aym1	n
Aym1	n
Wscd2	n
Wscd2	n
Wscd2	n
Cmklr1	n
Wscd2	n
Cmklr1	n
Wscd2	n
Cmklr1	n
Wscd2	y

Iscu	n
Ssh1	n
Dao	n
Dao	n
Dao	n
Ssh1	n
Ssh1	n
Alkbh2	n
Alkbh2	n
Ung	n
Foxn4	n
Myo1h	n
Myo1h	n
Fam222a	n
Fam222a	n
Trpv4	n
Trpv4	n
Trpv4	n
Trpv4	n
Fam222a	y
Trpv4	y
Fam222a	y
Trpv4	y
Gltf	y
Ankrd13a	n
Spp13	n
Spp13	n
Hnf1a	n
Mlec	y
Mlec	y
Mlec	y
Pop5	n
Cabp1	n
Pop5	n
Cabp1	n
Pop5	y
Cabp1	n
Rnf10	n
Pop5	n
Rnf10	n
Rnf10	n

Pop5	y
Rnf10	y
Rnf10	y
Rnf10	y
Dynll1	y
Msi1	n
Msi1	n
Cox6a1	n
Cox6a1	n
Sirt4	n
Pla2g1b	n
Sirt4	n
Pla2g1b	n
Pla2g1b	n
Pla2g1b	n
Sirt4	n
Sirt4	y
Sirt4	y
Pxn	n
Sirt4	n
Sirt4	n
Sirt4	n
Pxn	n
Pxn	n
Sirt4	n
Sirt4	n
Sirt4	n
Sirt4	n
Pxn	n
Pxn	n
Sirt4	n
Sirt4	n
Sirt4	n
Pxn	n
Pxn	n
Sirt4	n
Cit	n
Cit	n
Cit	n
Prkab1	n
Cit	n

Prkab1	n
Cit	y
Srrm4os	n
Hspb8	n
Srrm4	n
Suds3	y
Taok3	n
Taok3	n
Taok3	n
Pebp1	n
Vsig10	n
Vsig10	n
Rfc5	y
Fbxo21	n
Fbxw8	n
Fbxw8	n
Fbxw8	n
Rnft2	n
2410131K14Rik	n
2410131K14Rik	n
2410131K14Rik	n
Rnft2	n
2410131K14Rik	n
2410131K14Rik	n
Rnft2	n
2410131K14Rik	n
Rnft2	n
Med13l	n
Med13l	n
Med13l	n
Rnft2	n
Med13l	n
Med13l	n
Med13l	n
Rnft2	n
Med13l	n
Rnft2	n
Rnft2	n
Rnft2	n
Med13l	n
Rnft2	n

Rnft2	n
Rnft2	n
Rnft2	n
Med13l	n
Rnft2	n
Med13l	n
Rnft2	n
Rnft2	n
Med13l	n
Rnft2	n
Med13l	n
Rnft2	n
Med13l	n
Med13l	n
Rnft2	n
Med13l	n
Gm7538	n
1700081H04Rik	n
Gm16063	n
Gm16063	n
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Gm16063	n
Gm16063	n
Gm16063	n
Gm16063	n
Gm16063	n
Gm16063	n
AW549542	n
AW549542	n
Gm16063	n
Gm16063	n
Tbx3os2	n
Gm16063	n
Tbx3os2	n
Tbx3os2	n
Tbx3	n
Tbx3	y
Tbx3os2	n
Rbm19	n
Gm10390	n
Rbm19	n
Rbm19	n

Rbm19	n
Rbm19	n
Rbm19	n
Gm10390	n
Gm10390	n
Gm10390	n
Rbm19	n
Rbm19	n
Sds	n
Sds	n
Sds	n
Sdsl	n
Sdsl	n
Sds	y
Sdsl	y
Sds	y
Sdsl	y
Sds	y
Sds	y
lqcd	n
Tpcn1	n
lqcd	n
lqcd	y
Tpcn1	y
lqcd	n
Rita1	n
lqcd	n
lqcd	n
Dtx1	n
Dtx1	n
Naa25	n
Tmem116	n
Erp29	n
Erp29	n
Fam109a	n
Myl2	y
Myl2	n
Ppp1cc	n
Pptc7	n
Rad9b	n
P2rx7	y

Camkk2	n
Camkk2	n
P2rx4	n
Camkk2	n
Camkk2	n
Camkk2	n
Kdm2b	n
A930024E05Rik	n
A930024E05Rik	n
Kdm2b	n
Kdm2b	n
Tmem120b	n
Tmem120b	n
Morn3	n
Morn3	y
Rhof	n
Rhof	y
Setd1b	n
Hpd	n
Il31	n
Lrrc43	y
Lrrc43	n
Clip1	n
Clip1	n
Kntc1	n
Abcb9	n
Arl6ip4	n
Pitpnm2	n
Pitpnm2	n
Pitpnm2	n
Pitpnm2os1	n
Pitpnm2os1	n
Pitpnm2	n
Pitpnm2	n
Pitpnm2os1	n
Pitpnm2os1	n
Pitpnm2	n
Pitpnm2os1	n
Pitpnm2os1	n
Pitpnm2	n
Pitpnm2os1	n
Pitpnm2	n
Pitpnm2os1	n



Pitpnm2	n
Pitpnm2os1	n
Pitpnm2	n
Pitpnm2os1	n
Pitpnm2	n
Rilpl1	n
Rilpl1	y
Rilpl1	y
Tmed2	y
Tctn2	n
Eif2b1	n
Ccdc92	y
Fam101a	n
Ncor2	n
Ncor2	n
Fam101a	n
Ncor2	n
Fam101a	n
Fam101a	n
Fam101a	n
Ncor2	n
Ncor2	n
Fam101a	n
Fam101a	n
Fam101a	n
Fam101a	n
Ncor2	n
Ncor2	n
Ncor2	n
Ncor2	n
Bri3bp	n
Bri3bp	n
Dhx37	n
Bri3bp	n
Dhx37	n
Bri3bp	n
Dhx37	n
Bri3bp	n
Dhx37	n
Dhx37	n
Bri3bp	n

Bri3bp	n
Dhx37	n
Tmem132b	n
Tmem132b	n
Fzd10	n
Piwil1	n
Ran	n
Ran	n
Ran	n
Ran	n
Stx2	n
Ran	n
Stx2	n
Ran	n
Stx2	n
Gpr133	n
Stx2	n
Stx2	n
Stx2	n
Mrps17	y
Chchd2	y
Zbed5	y
Vkorc1l1	n
Gtf2ird2	n
Gtf2ird2	n
Ncf1	n
Gtf2ird2	n
Ncf1	n
Gtf2ird2	n
Gtf2ird2	n
Gtf2ird2	n
Gtf2ird2	n
Gtf2ird2	n
Ncf1	n
Ncf1	n
Gtf2ird2	n
Gtf2ird1	n
Rfc2	n
Rfc2	n
Eln	n
Rfc2	n



Dnajc30	n
Mlxipl	n
Vps37d	n
Fzd9	y
Fzd9	y
Baz1b	n
Baz1b	n
Fzd9	n
Fzd9	n
Baz1b	n
Baz1b	n
Fkbp6	n
Baz1b	n
Fkbp6	n
Baz1b	n
Fkbp6	n
Baz1b	n
Fkbp6	n
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Fkbp6	n
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Baz1b	n
Baz1b	n
Baz1b	n
Fkbp6	n
Fkbp6	n
Fkbp6	n
Fkbp6	n
Pom121	n
Nsun5	n
Nsun5	n
Hip1	n
Tmem120a	n
Por	n

Por	n
Srrm3	n
Ywhag	n
Ywhag	n
Hspb1	n
Zp3	n
Dtx2	n
Dtx2	n
Lrwd1	n
Alkbh4	n
Myl10	n
Cux1	n
Myl10	n
Myl10	n
Cux1	n
Cux1	n
Myl10	n
Cux1	n
Myl10	n
Myl10	n
Cux1	n
Myl10	n
Col26a1	n
Znhit1	y
Znhit1	y
Trim56	n
Ache	n
Ufsp1	y
Ufsp1	y
Slc12a9	y
Slc12a9	y
Slc12a9	n
Slc12a9	n
Slc12a9	n
Ephb4	n
Ephb4	n
Slc12a9	n
Epo	y
Epo	y
Mospd3	n
Mospd3	n

Tfr2	n
Tfr2	n
Tfr2	n
Tfr2	n
Pcolce	n
Tfr2	n
Pcolce	n
Tfr2	n
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Pcolce	n
Lrch4	n
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Lrch4	n
Pcolce	n
Pcolce	n
Lrch4	n
Pcolce	n
Lrch4	n
Pcolce	n
Lrch4	n
Pcolce	n
Lrch4	n
Pcolce	n
Pcolce	n
Fbxo24	n
Lrch4	y
Irs3	y
Lrch4	y
Irs3	y
Irs3	y
Irs3	y
Gm20605	y
Irs3	y
Nyap1	y
6330418K02Rik	y
Gal3st4	y
6330418K02Rik	y
6330418K02Rik	y
Gal3st4	y
Gm5294	y
Pdgfa	y
Pdgfa	y
Gm5294	n

Pdgfa	n
Dnaaf5	n
Dnaaf5	n
Prkar1b	n
Prkar1b	n
Dnaaf5	n
Cyp2w1	n
Cyp2w1	n
Cyp2w1	n
3110082I17Rik	n
3110082I17Rik	n
3110082I17Rik	n
3110082I17Rik	y
C130050O18Rik	n
4930500L23Rik	n
Zfand2a	n
Uncx	n
Micall2	n
Mafk	n
Mafk	n
Mafk	n
Mafk	n
Mafk	n
Psmg3	n
Mad1l1	n
Grifin	n
Grifin	n
Chst12	n
Grifin	n
Grifin	n
Chst12	n
Grifin	n
Grifin	n
Lfng	y
Lfng	y
Ttyh3	y
Ttyh3	y
lqce	y
Amz1	n
Amz1	n
Card11	n

Card11	n
Foxk1	n
Foxk1	n
Radil	n
Radil	n
Foxk1	n
Foxk1	n
Foxk1	n
Radil	n
Radil	n
Radil	n
Papolb	y
Slc29a4	n
Slc29a4	n
Tnrc18	n
Tnrc18	n
Slc29a4	n
Tnrc18	n
Slc29a4	n
Slc29a4	n
Tnrc18	n
Slc29a4	n
Slc29a4	n
Tnrc18	n
Tnrc18	n
Tnrc18	n
Tnrc18	n
Tnrc18	n
Fscn1	n
Actb	n
Actb	n
Fscn1	n
Fscn1	n
Actb	n
Fscn1	n
Rnf216	n
Fscn1	n
Rnf216	n
Fscn1	n
Zfp12	n
Zfp12	n
Grid2ip	y



Daglb	n
Cyth3	n
Cyth3	n
Pms2	n
Ccz1	n
Ccz1	n
Lmtk2	y
Ocm	y
Baiap2l1	n
Baiap2l1	n
Bri3	n
Tmem130	n
Tmem130	n
Tmem130	n
Cyp3a41a	n
Mtif3	n
Rasl11a	n
Lnx2	n
Gsx1	n
Pdx1	n
Pdx1	n
Pan3	n
Pan3	n
Flt1	n
Flt1	n
Pan3	n
Flt1	n
Pan3	n
Pan3	n
Flt1	n
Flt1	n
Flt1	n
Pomp	n
Pomp	n
Pomp	n
Pomp	n
Pomp	n
Pomp	y
Slc46a3	n
Slc46a3	n
Mtus2	n

Ubl3	n
Katnal1	n
Katnal1	n
2210417A02Rik	n
Katnal1	n
8430423G03Rik	n
8430423G03Rik	n
8430423G03Rik	n
Katnal1	n
Katnal1	n
Katnal1	n
8430423G03Rik	n
5930430L01Rik	n
5930430L01Rik	n
5930430L01Rik	n
Hmgb1	n
Gm15408	n
Hmgb1	n
5730422E09Rik	n
5730422E09Rik	n
Medag	n
Gm15997	n
Gm15997	n
Medag	y
Tex26	n
Gm15997	n
Fry	y
Fry	y
Fry	y
Gm5	y
Gm5	y
Gm5	y
Samd9l	n
Calcr	n
Sgce	y
Sgce	n
Sgce	n
Sgce	n
Sgce	n
Ppp1r9a	n
Pon1	n

Pon2	n
Pon2	n
Pon2	n
Pon2	n
Pon2	n
Pon2	n
1700019G24Rik	n
Ica1	n
Gm6578	n
1700016P04Rik	n
Ppp1r3a	n
Tes	n
Met	n
Wnt2	n
Ctnbp2	y
Kcnd2	n
Tspan12	n
Tspan12	y
Grm8	y
Gcc1	y
Lrrc4	y
Mir129-1	n
Rbm28	n
Hilpda	y
Opn1sw	y
Ccdc136	y
Ccdc136	y
Opn1sw	y
Ccdc136	y
Opn1sw	y
Ccdc136	y
Ccdc136	y
Opn1sw	y
Tnpo3	n
Nrf1	n
Nrf1	n
Mirc35hg	n
Ube2h	n
BB283400	n
Cpa2	n
Tmem209	n

Cpa2	n
Cpa1	n
Cpa1	n
Cep41	n
Copg2	y
2210408F21Rik	n
Lincpint	n
Podxl	y
Podxl	y
Podxl	y
Podxl	n
Podxl	n
1700012A03Rik	n
Plxna4	n
Chchd3	n
Lrguk	n
Lrguk	n
Akr1b3	y
3110062M04Rik	n
2010107G12Rik	n
Nup205	n
Creb3l2	n
Creb3l2	n
Creb3l2	n
Akr1d1	n
Akr1d1	n
Creb3l2	n
Akr1d1	n
Tbxas1	n
1700025N23Rik	n
Kdm7a	n
Kdm7a	n
Kdm7a	n
Kdm7a	n
Rab19	n
Tmem139	y
Fam131b	y
Clcn1	y
Nobox	n
Ezh2	n
Zfp467	y

Zfp862-ps	n
Rarres2	y
Gimap1	n
Gimap3	n
Gimap1	n
Gimap3	n
Gimap3	n
Ccdc126	n
Stk31	y
Npy	n
Npy	n
Npy	n
Osbp13	n
C530044C16Rik	n
Npvf	n
Hnrnpa2b1	n
Hnrnpa2b1	n
Hnrnpa2b1	n
Halr1	n
Skap2	n
Halr1	n
Hoxa2	n
Hoxa2	n
Hoxa2	y
Hoxaas3	y
Hoxa2	y
Hoxaas3	y
Hoxa2	y
Hoxa3	n
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Hoxa3	n
Hoxa3	n
Hoxa3	n
Hoxa4	y
Hoxa4	y
Hoxa4	y
Hoxa4	y
Hoxaas3	y
Hoxaas3	y









Nod1	n
Znrf2	n
Znrf2	n
Znrf2	n
Znrf2	n
Fam188b	n
Inmt	n
Inmt	n
Neurod6	n
Abcg2	n
Herc3	y
Herc3	n
Smarcad1	n
Ndnf	y
Gng12	n
Gadd45a	n
E230016M11Rik	n
E230016M11Rik	n
Gadd45a	n
Gadd45a	n
E230016M11Rik	n
Rprl1	n
Eif2ak3	n
Tex37	n
Foxi3	n
Tex37	n
Reep1	n
Polr1a	n
Polr1a	n
9130221F21Rik	n
9130221F21Rik	n
4933431G14Rik	n
Usp39	n
0610030E20Rik	n
Tcf7l1	n
Tcf7l1	n
Gm15401	n
Gm15401	n
Tcf7l1	n
Tcf7l1	n
Gm15401	n

Gm15401	y
Gm15401	y
Kcmf1	n
Dnah6	n
Dnah6	n
Mrpl19	n
Mrpl19	n
Eva1a	n
Mrpl19	n
Mrpl19	n
Tacr1	n
Dok1	n
Dok1	n
Htra2	n
Tlx2	y
Rtkn	y
Rtkn	y
1700003E16Rik	n
1700003E16Rik	n
Wdr54	n
1700003E16Rik	n
Dctn1	y
Slc4a5	n
Tet3	y
Dguok	n
Stambp	n
Dysf	n
Paip2b	n
Paip2b	n
Noto	y
Noto	y
Pradc1	y
Dusp11	n
Tgfa	n
Tgfa	n
Asprv1	y
Mxd1	y
Asprv1	y
Mxd1	n
Mxd1	n
Anxa4	n

Bmp10	n
Efcc1	n
Cnbp	n
Gm5577	n
Rab7	n
Rab7	n
Rab7	n
Rab7	n
Mir6376	n
Rpn1	n
Rpn1	n
Mir6376	n
Mir6376	n
Rpn1	n
Rpn1	n
Rpn1	n
Gata2	n
Gata2	n
Gata2	n
Gata2	n
Gata2	n
Eefsec	n
Gata2	n
Gata2	n
Gata2	n
Gata2	n
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Gata2	n
Gata2	n
Gata2	n
Gata2	n
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Eefsec	n
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Gata2	n
Eefsec	n

Gata2	n
Eefsec	n
Eefsec	n
Eefsec	n
Eefsec	n
Gata2	y
Eefsec	y
Gata2	n
Gata2	n
Gata2	n
Gata2	n
Eefsec	n
Gata2	n
Gata2	n
Dnajb8	n
Eefsec	n
Eefsec	n
Dnajb8	n
Dnajb8	n
Dnajb8	n
Eefsec	n
Eefsec	n
Dnajb8	n
Dnajb8	n
Eefsec	n
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Eefsec	n
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Dnajb8	n
Eefsec	n
Dnajb8	n
Eefsec	n
Dnajb8	n
Dnajb8	n
Eefsec	n
Ruvbl1	n
Mcm2	n
Plxna1	n
Gm1965	n

Gm1965	n
Aldh1l1	n
Iqsec1	y
Iqsec1	n
Iqsec1	n
Nup210	n
Lsm3	n
Lsm3	n
Lsm3	n
Lsm3	n
Slc6a6	n
Grip2	n
Slc6a6	n
Grip2	n
Grip2	n
Grip2	y
4930590J08Rik	n
4930590J08Rik	n
Nr2c2	n
Adamts9	n
9530026P05Rik	n
9530026P05Rik	n
Slc25a26	n
Magi1	n
Slc25a26	n
Lrig1	n
Slc25a26	n
Mir1957a	n
Fam19a1	n
Arl6ip5	n
Arl6ip5	n
Eogt	n
Tmf1	n
Arl6ip5	n
Lmod3	y
Arl6ip5	n
Arl6ip5	n
Frmd4b	n
Frmd4b	n
Frmd4b	n
Frmd4b	n

Frmd4b	n
Mitf	n
Mitf	n
Gpr27	y
Gpr27	y
Foxp1	y
Foxp1	n
Foxp1	n
Foxp1	n
Gpr27	n
Gpr27	n
Foxp1	n
Gpr27	n
Gpr27	n
Foxp1	n
Gpr27	n
Gpr27	n
Foxp1	n
Prok2	n
1700049E22Rik	n
Rybp	n
1700049E22Rik	n
Rybp	n
1700049E22Rik	n
Shq1	n
Shq1	n
Pdzrn3	y
Gm9871	n
Itpr1	n
Itpr1	n
0610040F04Rik	n
0610040F04Rik	n
0610040F04Rik	n
Itpr1	n
0610040F04Rik	n
0610040F04Rik	n
0610040F04Rik	n
Thumpd3	n
Lhfpl4	n
Rpusd3	n
Il17re	y

Prpt3	y
Creld1	y
Irak2	n
Ghrl	n
Irak2	n
Ghrl	n
Irak2	n
Atp2b2	n
Atp2b2	n
Atg7	n
Atg7	n
Atg7	n
Atg7	n
Vgll4	n
Atg7	n
Atg7	n
Atg7	n
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Atg7	n
Atg7	n
Atg7	n
Atg7	n
Vgll4	n
Vgll4	n
Vgll4	n
Vgll4	n
Vgll4	n
Vgll4	n
Vgll4	n
Atg7	n
Vgll4	n
Atg7	n
Atg7	n
Atg7	n
Atg7	n
Atg7	n
Atg7	n
Vgll4	n
Vgll4	n
Tsen2	n
Mkrn2	n
Cand2	n
Cand2	n



Tmem40	n
Tmem40	n
Rpl32	n
Ift122	n
H1foo	n
H1foo	n
Plxnd1	n
Plxnd1	y
Plxnd1	y
Plxnd1	n
H1foo	n
H1foo	n
Plxnd1	n
H1foo	n
Fam21	n
Fam21	n
Tmem72	n
Fxyd4	n
Lrtm2	n
Lrtm2	y
Adipor2	n
Adipor2	n
Wnt5b	y
Wnt5b	n
Wnt5b	n
Ninj2	n
Ninj2	n
B4galnt3	n
Ninj2	n
B4galnt3	n
Ninj2	n
B4galnt3	n
B4galnt3	n
Ninj2	n
Ninj2	n
Il17ra	y
Il17ra	y
Il17ra	y
Il17ra	n
Il17ra	y
Il17ra	y

Cecr5	n
Mical3	n
Pex26	n
Pex26	n
Pex26	n
Pex26	n
Iqsec3	y
Dppa3	n
Apobec1	n
Gdf3	y
Dppa3	n
Gdf3	n
Dppa3	n
Gdf3	n
Gdf3	n
Dppa3	n
Dppa3	n
Gdf3	n
Gdf3	n
Gdf3	n
Slc2a3	y
Slc2a3	y
Foxj2	n
C3ar1	y
Phb2	n
Lrrc23	y
Lrrc23	y
Cdca3	y
Cdca3	y
Cdca3	y
Cdca3	y
Gpr162	y
Gpr162	y
Gpr162	y
Cdca3	y
Gpr162	y
Cdca3	y
Gpr162	y
Gpr162	y
Cdca3	y
Gpr162	y

Cdca3	y
Cdca3	y
Mlf2	n
Mlf2	n
Lag3	n
Mlf2	n
Lag3	n
Lag3	n
Mlf2	n
Ptms	n
Ptms	n
Mlf2	n
Ptms	n
Mlf2	n
Cops7a	n
Gapdh	n
Gapdh	n
Lpar5	n
Gapdh	n
Gapdh	n
Scnn1a	y
Scnn1a	y
Scnn1a	y
Ltbr	y
Ltbr	y
Ltbr	y
Scnn1a	y
Scnn1a	y
Ltbr	y
Ltbr	y
Scnn1a	n
Cd9	n
Vwf	n
Cd9	n
Ano2	n
Kcna5	y
Ndufa9	n
Dyrk4	y
Dyrk4	y
D6Wsu163e	y
9330179D12Rik	n

9330179D12Rik	n
9330179D12Rik	n
9330179D12Rik	n
9330179D12Rik	n
D130058E03	n
D130058E03	n
D130058E03	n
Parp11	n
Parp11	n
D130058E03	n
D130058E03	n
Cracr2a	n
Tspan11	n
Tspan11	n
Tspan9	n
Tspan11	n
Tspan11	n
Tspan11	n
Tspan9	n
Foxm1	n
Tead4	n
Tead4	n
Foxm1	n
Foxm1	y
Nrip2	y
Nrip2	y
Nrip2	y
Pzp	n
Clec2h	n
Tas2r120	n
Etv6	n
Kap	n
Kap	n
Etv6	n
Etv6	n
Etv6	n
Etv6	n
Lrp6	n
Etv6	n
Bcl2l14	n
Gpr19	y

Gprc5a	n
Hebp1	n
E330021D16Rik	n
Atf7ip	n
E330021D16Rik	n
Atf7ip	n
E330021D16Rik	n
H2afj	y
Pde6h	n
Pde6h	n
Ptpro	n
Ptpro	n
Rerg	n
Rerg	n
Plekha5	n
Aebp2	n
Plcz1	n
Plcz1	n
Aebp2	n
Plcz1	n
Aebp2	n
Plcz1	n
Plcz1	n
Slco1a4	y
B230216G23Rik	n
B230216G23Rik	n
Abcc9	n
St8sia1	y
Gm7457	y
C2cd5	n
D6Ertd474e	n
Sox5	n
Sox5os3	n
Bcat1	n
Bcat1	n
Bcat1	n
Tuba3b	n
Rassf8	n
Bhlhe41	n
Rassf8	n
Bhlhe41	n

Rassf8	n
Fgfr1op2	n
Rps4l	n
Tmtc1	n
Rps4l	n
Tmtc1	n
Tmtc1	n
Rps4l	n
Rps4l	n
Rps4l	n
Rps4l	n
Rps4l	n
Tmtc1	n
Tmtc1	n
Tmtc1	n
Tmtc1	n
Tmtc1	n
Tmtc1	n
Rps4l	n
Rps4l	n
Rps4l	n
Mettl20	n
Mettl20	n
Mettl20	n
Amn1	n
Amn1	n
Mir290a	n
Mir290b	n
Mir290a	n
Mir292b	n
Mir292b	n
Prkcg	y
Prkcg	y
Cacng8	n
3300002P13Rik	n
Cacng6	y
3300002P13Rik	y
3300002P13Rik	y
3300002P13Rik	y
3300002P13Rik	y

Brsk1	n
Suv420h2	y
Il11	y
Isoc2a	y
Isoc2a	y
Zfp579	n
Zfp580	n
Trim28	n
Trim28	n
Trim28	n
Mzf1	n
Trim28	n
Mzf1	n
Mzf1	n
Lig1	n
Lig1	n
6330408A02Rik	n
6330408A02Rik	n
6330408A02Rik	n
Lig1	n
Lig1	n
Lig1	n
Obox1	n
Meis3	n
Bbc3	n
Ccdc9	n
Zc3h4	n
Npas1	n
Fkrp	n
Dact3	n
Psg16	y
Psg-ps1	n
Pglyrp1	n
Mypop	n
Irf2bp1	y
Irf2bp1	y
Foxa3	y
Foxa3	y
Irf2bp1	y
Irf2bp1	n
Irf2bp1	n

Foxa3	n
Foxa3	n
Foxa3	n
Foxa3	n
Foxa3	n
Foxa3	n
Sympk	y
Sympk	y
Sympk	y
Foxa3	y
Sympk	y
Sympk	y
Foxa3	y
Foxa3	y
Dmpk	n
Dmpk	n
Qpctl	n
Dmpk	n
Qpctl	n
Qpctl	n
Qpctl	y
Rtn2	y
Rtn2	y
Rtn2	y
Fosb	n
Ppp1r13l	n
Ckm	n
Ckm	n
Ckm	n
Ckm	n
Mark4	n
Mark4	n
Ckm	n
Mark4	n
Ckm	n
Ckm	n
Trappc6a	y
Trappc6a	y
Trappc6a	y
Zfp296	n
Relb	n



Zfp296	n
Zfp296	n
Zfp296	n
Zfp296	n
Zfp296	n
Zfp296	n
Zfp296	n
Zfp296	n
Relb	n
Relb	n
Relb	n
Relb	n
Zfp296	n
Relb	n
Relb	n
Relb	n
Relb	n
Tomm40	n
Zfp296	n
Cblc	n
Gm19345	y
Gm19345	y
Gm19345	y
Cblc	y
Gm19345	y
Gm19345	y
Gm19345	n
Gm19345	n
Bcl3	n
Gm19345	n
Bcl3	n
Gm19345	n
Bcl3	n
Gm19345	n
Bcl3	n
Gm19345	n
Bcl3	n
Gm19345	n
Gm19345	n
Gm19345	n
Bcl3	n



Tesc1	n
Tesc1	n
Kcnn4	n
Tesc1	n
Kcnn4	n
Kcnn4	n
Kcnn4	n
Kcnn4	n
Tesc1	n
Tesc1	n
Tesc1	n
Tesc1	n
Tesc1	n
Kcnn4	n
Irgc1	n
Zfp575	y
Zfp575	y
Zfp575	y
Zfp575	n
Ethe1	n
Zfp575	n
Ethe1	n
Ethe1	n
Zfp575	n
Phldb3	y
Phldb3	y
Phldb3	y
Zfp575	y
Zfp575	y
Tex101	y
Tex101	y
Lypd3	y
Lypd3	y
Tex101	y
Lypd3	y
Tex101	y
Gm4763	n
Arhgef1	n
Arhgef1	n
Arhgef1	n
Arhgef1	n

Rabac1	n
Arhgef1	n
Grik5	n
Grik5	n
Zfp574	n
Pou2f2	n
D930028M14Rik	n
D930028M14Rik	n
Pou2f2	n
Pou2f2	n
D930028M14Rik	n
Pou2f2	n
D930028M14Rik	n
Pou2f2	n
Pou2f2	n
D930028M14Rik	n
Pou2f2	n
D930028M14Rik	n
Pou2f2	n
Pou2f2	n
Megf8	y
Pafah1b3	y
Pafah1b3	y
Megf8	n
Pafah1b3	n
Pafah1b3	n
Pafah1b3	n
Pafah1b3	n
Pafah1b3	n
Megf8	n
Lipe	n
B3gnt8	y
B3gnt8	y
B3gnt8	y
Ccdc97	n
Tgfb1	n
Tgfb1	n
Ccdc97	n
Tgfb1	n
Ccdc97	n
Hnrnpul1	n

Axl	n
Axl	n
Tgfb1	y
Cyp2b10	n
BC024978	y
Ltbp4	n
Ltbp4	n
Ltbp4	n
Blvrb	n
Blvrb	n
Blvrb	n
Sptbn4	y
Akt2	n
Pld3	n
BC089491	n
Paf1	n
Paf1	n
Paf1	n
Mir466f-2	n
Mir466f-2	n
Mir466f-2	n
Mir466f-2	n
Mir466f-2	n
Samd4b	n
Samd4b	n
Mir466f-2	n
Mir466f-2	n
Mir466f-2	n
Mir466f-2	n
Nccrp1	n
Sycn	n
Sycn	n
Fbxo27	n
Mrps12	y
Mrps12	y
Fbxo27	y
Mrps12	y
Mrps12	y
Mrps12	y
Mrps12	n
Mrps12	n

Mrps12	n
Gm19897	y
Capn12	n
Capn12	n
Actn4	n
Map4k1	n
Map4k1	n
Rasgrp4	y
Spred3	y
Ggn	y
Spred3	y
Ggn	y
Spred3	y
Ggn	y
Psm8	y
Psm8	y
Ggn	n
Psm8	n
Ggn	n
Psm8	n
Ggn	n
Psm8	n
Psm8	n
Psm8	n
Yif1b	y
Yif1b	y
Yif1b	y
Catsperg1	y
Catsperg1	y
Yif1b	y
Yif1b	y
Catsperg1	y
Yif1b	y
Yif1b	y
Yif1b	y
Yif1b	y
Sipa13	n
Dpf1	n
Dpf1	n
Sipa13	n
Sipa13	n

Zfp940	n
Zfp30	n
Zfp568	n
Zfp568	n
Nphs1	n
Upk1a	n
Etv2	n
Ffar2	n
Ffar2	n
Krtdap	y
Ffar2	y
Ffar3	y
Mag	n
Lsr	y
Lsr	y
Lsr	y
Fam187b	y
Lsr	y
Fam187b	y
Lsr	y
Lsr	y
Fam187b	y
Fam187b	y
Fam187b	n
Fam187b	n
Lgi4	y
Lgi4	y
Fxyd1	y
Lgi4	y
Fxyd1	y
Lgi4	n
Lgi4	n
Lgi4	n
Lgi4	y
Hpn	y
Hpn	y
Lgi4	y
Lgi4	y
Lgi4	y
Hpn	y
Hpn	y

Gm10640	y
Scgb2b15	n
Cebpa	n
Cep89	n
Ankrd27	y
Ankrd27	y
Rgs9bp	y
Ankrd27	n
Zfp507	n
Zfp536	n
1600014C10Rik	n
Zfp536	n
1600014C10Rik	n
Zfp536	n
Uri1	n
Uri1	n
1600014C10Rik	n
Uri1	n
Uri1	n
Uri1	n
Ccne1	n
1600014C10Rik	n
Plekhf1	n
1600014C10Rik	n
Gm5114	n
Vmn2r57	n
Acpt	n
Shank1	n
1700008O03Rik	n
Emc10	n
Mybpc2	y
Spib	y
Napsa	n
Myh14	n
Izumo2	y
Myh14	y
Izumo2	y
Izumo2	y
Izumo2	n
Izumo2	n
Vrk3	n





Tead2	y
Cd37	y
Tead2	y
Cd37	y
Cd37	y
Cd37	y
Tead2	y
Cd37	y
Cd37	n
Tead2	n
Cd37	n
Tead2	n
Ruvbl2	y
Tulp2	y
Tulp2	y
Nucb1	y
Tulp2	y
Tulp2	y
Tulp2	y
Tulp2	y
Nucb1	y
Nucb1	y
Fut1	y
Fut1	y
Fgf21	y
Fut1	y
Fgf21	y
Fgf21	y
Rasip1	n
Rasip1	n
Mamstr	n
Mamstr	n
Fut2	n
Fut2	n
Fut2	n
Lmtk3	y
Kdelr1	n
Grin2d	n
Tmem143	n
Ccdc114	y
Emp3	y

Ccdc114	y
Emp3	y
Nomo1	y
Nomo1	y
Nomo1	y
Abcc6	y
Abcc8	n
Kcnc1	n
Kcnc1	n
Kcnc1	n
Saa2	y
Nav2	n
E2f8	n
Dbx1	n
Dbx1	n
Dbx1	n
Nav2	n
Dbx1	n
Nav2	n
Nav2	n
Nav2	n
Dbx1	n
Dbx1	n
Dbx1	n
Nell1os	n
Gas2	n
Oca2	n
Klf13	y
Apba2	y
Tjp1	n
Tjp1	n
1810008I18Rik	n
Chsy1	n
Lrrk1	n
Lysmd4	n
Ttc23	n
Ttc23	n
Lrrc28	n
Lrrc28	n
Lrrc28	n
Ttc23	n

Ttc23	n
Ttc23	n
Synm	n
4833412C05Rik	n
4833412C05Rik	n
Igf1r	n
Igf1r	n
Igf1r	n
Pgpep1l	y
Fam169b	y
Fam169b	y
Pgpep1l	y
Pgpep1l	y
B130024G19Rik	y
Gm36633	n
Gm36633	n
1700011C11Rik	n
1700011C11Rik	n
Fam174b	n
Sv2b	y
Akap13	n
E430016F16Rik	n
Fanci	n
Polg	y
Fanci	y
Polg	y
Fanci	y
Polg	y
Polg	y
AI854517	n
AI854517	n
Polg	n
Polg	n
AI854517	n
Polg	n
AI854517	n
Rhcg	n
Rhcg	n
Rhcg	n
AI854517	n
Rhcg	n

Ticrr	n
Mesp1	y
Mesp1	y
Anpep	n
Mesp2	n
Mesp2	n
Mesp2	n
Anpep	n
Anpep	n
Anpep	n
Anpep	n
Gm21057	n
Gm21057	n
Gm21057	n
Zfp710	n
Zfp710	n
Rccd1	y
Hddc3	n
Furin	n
Hddc3	n
Furin	n
Hddc3	n
Hddc3	n
Hddc3	n
Gm15880	n
Gm15880	n
Gm15880	n
Gm15880	n
Iqgap1	n
Iqgap1	n
Zscan2	n
Iqgap1	n
Wdr73	n
Wdr73	n
Wdr73	n
Wdr73	n
Alpk3	y
Alpk3	y
Sec11a	y
Sec11a	y
Alpk3	y

Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Alpk3	y
Alpk3	y
Alpk3	y
Alpk3	y
Sec11a	y
Alpk3	y
Sec11a	y
Sec11a	y
Sec11a	y
Alpk3	y
Sec11a	y
Sec11a	y



Il16	n
Mesdc1	y
Mesdc1	y
Mesdc1	y
Mesdc1	y
Mesdc1	y
Mesdc2	y
Mesdc1	y
Mesdc2	y
Mesdc1	y
Me3	n
Prss23	n
Prss23	n
Ccdc81	y
Ankrd42	n
Ankrd42	n
Tenm4	n
Gm15413	n
Tenm4	n
Usp35	n
Myo7a	n
Myo7a	y
Gdpd4	n
Tsku	n
Gucy2d	n
Tsku	n
Tsku	n
Gucy2d	n
Gucy2d	n
2210018M11Rik	n
2210018M11Rik	n
Lrrc32	n
2210018M11Rik	n
2210018M11Rik	n
2210018M11Rik	n
2210018M11Rik	n
2210018M11Rik	n
Wnt11	y
Uvrag	n
Wnt11	n
Uvrag	n



Uvrag	n
Wnt11	n
Map6	n
Map6	n
Uvrag	n
Uvrag	n
Map6	n
Map6	n
Dgat2	n
Map6	n
Dgat2	n
Map6	n
Dgat2	n
Map6	n
Serpinh1	y
Map6	y
Map6	y
Serpinh1	y
Map6	y
Serpinh1	y
Serpinh1	y
Serpinh1	y
Serpinh1	n
Map6	n
Gdpd5	n
Serpinh1	n
Serpinh1	n
Rps3	n
Rps3	n
Arrb1	n
Rps3	n
Arrb1	n
Chrdl2	n
Rab6a	y
Plekhb1	y
Fam168a	n
Fam168a	n
Arhgef17	n
Fam168a	n
Arhgef17	n
Fam168a	y

Fam168a	n
P2ry6	n
Fam168a	y
Fam168a	y
P2ry6	y
Fam168a	n
P2ry2	n
P2ry2	n
Fchsd2	n
Fchsd2	n
Fchsd2	n
Fchsd2	n
Fchsd2	n
Fchsd2	n
Atg16l2	n
Arap1	n
Atg16l2	n
Pde2a	n
Pde2a	n
Pde2a	n
Pde2a	n
Art2a-ps	n
Pde2a	n
Art2a-ps	n
Pde2a	n
Art2a-ps	n
Art2a-ps	n
Clpb	n
Phox2a	y
Art1	y
Art1	n
Art1	n
Arfip2	n
Arfip2	n
Dchs1	n
Ilk	n
Ilk	n
Ilk	y
Dchs1	y
Stk33	n
Trim66	y

Rpl27a	y
Trim66	y
Rpl27a	y
Trim66	y
lpo7	n
lpo7	n
1600010M07Rik	n
lpo7	n
1600010M07Rik	n
1600010M07Rik	n
lpo7	n
1600010M07Rik	n
lpo7	n
lpo7	n
lpo7	n
lpo7	n
1600010M07Rik	n
1600010M07Rik	n
1600010M07Rik	n
Swap70	n
Sbf2	n
Swap70	n
Sbf2	n
Swap70	n
Sbf2	n
Swap70	n
Swap70	n
Ampd3	y
Ampd3	y
Ampd3	y
Ctr9	n
Ctr9	n
Usp47	y
Dkk3	y
Dkk3	y
Parva	n
4930543E12Rik	n
4930543E12Rik	n
Spon1	n
A730082K24Rik	n

Sox6	n
Sox6	n
A730082K24Rik	n
A730082K24Rik	n
A730082K24Rik	n
Sox6	n
Sox6	n
1110004F10Rik	n
Sox6	n
1110004F10Rik	n
Sox6	n
Sox6	n
1110004F10Rik	y
Sox6	y
Sox6	y
Sox6	y
Sox6	y
Sox6	y
Plekha7	n
Plekha7	n
1110004F10Rik	n
Rps15a	n
Xylt1	n
Tmc5	y
Tmc5	y
Itpripl2	y
Tmc5	y
Itpripl2	y
Tmc5	y
Itpripl2	y
Tmc5	y
Tmc5	y
Tmc5	y
Tmc5	y
Tmc5	y
Knop1	n
Knop1	n
Gprc5b	n
Gprc5b	n
Igsf6	y
Prkcb	y
Ern2	y

Prkcb		y
Ern2		y
Prkcb		y
4930413G21Rik		n
4930413G21Rik		n
4930413G21Rik		n
4930571K23Rik		n
Nsmce1		n
Sbk1		y
Il27		y
Bola2		n
Bola2		n
Mapk3		n
Ppp4c		n
Mapk3		n
Ppp4c		y
Aldoa		n
Aldoa		n
4930451I111Rik		y
Qprt		y
AI467606		y
AI467606		y
AI467606		y
Qprt		y
	1-Sep	n
Zfp747		n
Itgal		n
Itgal		n
Srcap		n
Bcl7c		n
Stx1b		n
Prss36		n
Kat8		n
Prss36		n
Prss36		n
Prss36		n
Prss36		y
Kat8		y
Kat8		y
Kat8		y
Prss36		y

Prss36	y
Kat8	y
Prss36	y
Kat8	y
Kat8	y
Kat8	y
Prss36	y
Trim72	y
Trim72	y
Pycard	y
Pycard	y
Trim72	y
Trim72	y
Trim72	y
Trim72	y
Trim72	n
Trim72	n
Trim72	n
Pycard	n
Pycard	n
Slc5a2	n
Rgs10	n
Rgs10	n
Bag3	n
Bag3	n
Bag3	n
Bag3	y
Wdr11	n
Gm4265	n
Tacc2	n
Tacc2	n
Btbd16	n
Nsmce4a	n
Gm10584	y
Oat	n
Lhpp	n
Fam53b	n
Fam53b	n
Fam53b	n
Fam53b	n
4930483O08Rik	n

Ctbp2	y
Ctbp2	y
Ctbp2	y
Ctbp2	y
Bccip	n
Dhx32	n
Fam196a	n
Clrn3	n
Clrn3	n
Ptpre	n
C030029H02Rik	n
C230079O03Rik	n
C030029H02Rik	n
Gm6249	n
Mgmt	n
Gm6249	n
Gm10578	n
Tcerg1l	n
Tcerg1l	n
Stk32c	n
Pwwp2b	y
Pwwp2b	y
Stk32c	y
Stk32c	y
Pwwp2b	y
Stk32c	y
Pwwp2b	y
Stk32c	y
Pwwp2b	y
Stk32c	y
Pwwp2b	y
Stk32c	y
Pwwp2b	y
Stk32c	y
Pwwp2b	y
Stk32c	y
Stk32c	y
Stk32c	n
Stk32c	n
Inpp5a	n

Stk32c	n
Stk32c	n
Inpp5a	n
Stk32c	n
Nkx6-2	n
Utf1	y
Utf1	y
Utf1	y
Mir7686	y
Mir7686	n
Mir7686	n
Nlrp6	y
Ifitm2	y
Sigirr	n
Rassf7	n
Mir210	n
Deaf1	y
Eps8l2	y
Eps8l2	y
Eps8l2	y
Deaf1	y
Deaf1	y
Eps8l2	y
Eps8l2	y
Eps8l2	y
Deaf1	y
Eps8l2	y
Deaf1	y
Deaf1	y
Deaf1	y
Rplp2	y
Rplp2	y
Rplp2	y
Rplp2	y
Rplp2	y
Rplp2	y
Rplp2	y
Rplp2	y
Cend1	y
Rplp2	y
Cend1	y
Cend1	y



Cend1	y
Pidd1	y
Cracr2b	n
Cracr2b	n
Polr2l	n
Cracr2b	n
Polr2l	n
Cracr2b	n
Polr2l	n
Polr2l	n
Polr2l	n
Tspan4	n
Polr2l	n
Tspan4	n
Polr2l	n
Tspan4	n
Tspan4	n
Polr2l	n
Tspan4	n
Dusp8	n
Ifitm10	y
Prr33	y
Prr33	y
Tnnt3	y
Prr33	n
Mrpl23	n
Nctc1	n
Mrpl23	n
H19	n
Igf2	n
Tssc4	n
Kcnq1ot1	n
Kcnq1ot1	n
Kcnq1	n
Kcnq1ot1	n
Kcnq1	n
4933417O13Rik	n
4933417O13Rik	n
4933417O13Rik	n
Kcnq1	n
Kcnq1	n

Cdkn1c	n
Kcnq1	n
Kcnq1	n
Cdkn1c	n
Kcnq1	n
Cdkn1c	n
Kcnq1	n
Cdkn1c	n
Cdkn1c	n
Cdkn1c	n
Cdkn1c	n
Cdkn1c	n
Ctkn	y
Shank2	n
Fgf3	n
Fgf3	y
Fgf3	y
Ccnd1	y
Ccnd1	n
Ccnd1	n
Ccnd1	n
Oraov1	n
Ccnd1	n
Oraov1	n
Oraov1	n
Ccnd1	n
1810010D01Rik	n
Mrgprf	n
Mrgprf	n
Pex11g	y
Evi5l	n
Evi5l	n
Evi5l	n
Evi5l	n
Prr36	n
Evi5l	n
Prr36	n
Prr36	n
Evi5l	n
Evi5l	n

Prr36	n
Evi5l	n
Prr36	n
Prr36	n
Prr36	n
Tgfbr3l	y
Tgfbr3l	y
Tgfbr3l	y
4930453L07Rik	n
4930453L07Rik	n
Efnb2	n
Arglu1	n
4930453L07Rik	n
4930453L07Rik	n
4933430N04Rik	n
Myo16	n
B930025P03Rik	n
B930025P03Rik	n
B930025P03Rik	n
B930025P03Rik	n
4833411C07Rik	n
Irs2	n
9530052E02Rik	n
9530052E02Rik	n
Irs2	n
9530052E02Rik	n
Irs2	n
Irs2	n
9530052E02Rik	n
Col4a1	n
Col4a2	n
Col4a2	n
Rab20	n
Col4a2	n
Rab20	y
Spaca7	n
Gm15348	y
Mcf2l	n
Mcf2l	n
Gm15350	n
Mcf2l	n

Mcf2l	n
Gm15350	n
Gm15350	n
Mcf2l	n
Gm15350	y
Grtp1	n
Lamp1	y
Tmem255b	y
Tmem255b	y
Tmem255b	n
4932443119Rik	y
Rasa3	n
4932443119Rik	n
Erich1	n
Kbtbd11	n
BB014433	n
Kbtbd11	n
Mcph1	y
Defb7	n
Defa21	n
Smim19	n
Polb	n
Polb	n
Plat	n
Plat	n
lkbkb	n
lkbkb	n
Ank1	y
Ank1	y
Golga7	n
Zmat4	n
Tm2d2	n
Htra4	y
Tm2d2	n
Tm2d2	n
Tm2d2	n
Tm2d2	n
Plekha2	n
Plekha2	n
Fgfr1	n
Fgfr1	n

Fgfr1	n
5430421F17Rik	n
5430421F17Rik	n
5430421F17Rik	n
Gm16159	n
Fgfr1	n
Gm16159	n
Fgfr1	n
Gm16159	n
Fgfr1	n
Fgfr1	n
Gm16159	n
Gm16159	n
Fgfr1	n
Gm16159	n
1700047A11Rik	n
Hook3	n
Thap1	n
Zfp703	n
2310008N11Rik	n
Zfp703	n
2310008N11Rik	n
Zfp703	n
2310008N11Rik	n
Brf2	y
Brf2	y
Brf2	y
Zfp703	y
Zfp703	y
Zfp703	n
Zfp703	n
Brf2	n
Brf2	n
Brf2	n
Brf2	n
Brf2	n
Brf2	n
Brf2	n
Brf2	n
Zfp703	n
Brf2	n
Zfp703	n



Tti2	y
Mak16	n
Purg	y
Purg	y
Wrn	y
Wrn	y
Ppp2cb	n
Ppp2cb	n
Ubxn8	n
Ubxn8	n
Ppp2cb	n
Ppp2cb	n
Ppp2cb	n
Gtf2e2	n
Rbpms	n
Gtf2e2	n
Rbpms	n
Rbpms	n
Rbpms	n
Gtf2e2	n
Gtf2e2	n
Rbpms	n
Gtf2e2	n
Rbpms	n
Rbpms	n
Gtf2e2	n
Gtf2e2	n
Rbpms	n
Rbpms	n
Gtf2e2	n
Gtf2e2	n
Rbpms	n
Rbpms	n
Rbpms	n
Dctn6	n
Dctn6	n
Dctn6	n
Saraf	n
B930018H19Rik	n
B930018H19Rik	n

Dusp4	n
B930018H19Rik	n
Dusp4	n
Dusp4	n
B930018H19Rik	n
Dusp4	n
B930018H19Rik	n
B930018H19Rik	n
Dusp4	n
Dusp4	n
Dusp4	n
Dusp4	n
Dusp4	n
Eri1	n
Ppp1r3b	n
Eri1	n
Mfhas1	y
Gm16793	y
Mfhas1	y
Mfhas1	y
D8Ert82e	n
D8Ert82e	n
D8Ert82e	n
D8Ert82e	n
D8Ert82e	n
Lonrf1	n
Primpol	n
Irf2	n
Irf2	n
Enpp6	n
Stox2	n
Stox2	n
Stox2	n
Enpp6	n
Stox2	n
Rwdd4a	n
Rwdd4a	n
Rwdd4a	n
Stox2	n
Stox2	n
Tenm3	n



Dctd	n
Gm2516	n
Hand2	n
Hand2	n
LOC102636514	n
Galnt7	n
Galnt7	n
Galnt7	n
AW046200	n
AW046200	n
AW046200	n
Galnt7	n
Galnt7	n
Sh3rf1	n
1700001D01Rik	n
1700001D01Rik	n
Palld	n
Cbr4	y
Tmem192	n
Tmem192	n
Tmem192	n
Trim75	n
Tmem192	n
Tmem192	n
Sh2d4a	y
Sh2d4a	y
Psd3	y
Psd3	y
Sh2d4a	y
1700125H03Rik	n
Atp6v1b2	n
Atp6v1b2	n
Lzts1	n
Cilp2	n
Pbx4	n
Cilp2	n
Ncan	n
Ncan	n
Mef2b	n
Mef2b	n
Rfxank	n

Mef2b	n
Rfxank	n
Mef2b	n
Mef2b	n
Slc25a42	n
Mef2b	n
Cers1	y
Upf1	y
Gdf1	n
Gdf1	n
Upf1	n
Upf1	n
Upf1	n
Upf1	n
Upf1	n
Upf1	n
Crlf1	y
Crlf1	y
Tmem59l	y
Tmem59l	y
Crlf1	y
Tmem59l	y
Crlf1	y
Tmem59l	y
Tmem59l	y
Crlf1	y
Tmem59l	y
Crlf1	y
Tmem59l	y
2810428l15Rik	y
2810428l15Rik	y
Isyna1	y
Ssbp4	n
Isyna1	n
Isyna1	n
Isyna1	n
Ssbp4	n
Isyna1	n
Ssbp4	n
Isyna1	n
Ssbp4	n
Isyna1	n
Isyna1	n



Gm3336	y
Pde4c	n
Pde4c	n
Rab3a	y
Mast3	n
Il12rb1	n
Arrdc2	n
Arrdc2	n
Il12rb1	n
Arrdc2	n
Il12rb1	n
Arrdc2	n
Il12rb1	n
Arrdc2	n
Il12rb1	n
Arrdc2	n
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Arrdc2	n
Il12rb1	n
Arrdc2	n
Il12rb1	n
Arrdc2	n
Map1s	n
Map1s	n
Map1s	n
Slc5a5	y
Slc5a5	y

Map1s	y
Map1s	y
Myo9b	n
Nr2f6	n
Dda1	n
Bst2	n
Bst2	n
Bst2	n
Mvb12a	n
Bst2	n
Mvb12a	n
Mvb12a	n
Mvb12a	n
Mvb12a	n
Bst2	n
Bst2	n
Bst2	n
Bst2	n
Bst2	n
Mvb12a	n
Nxn1	y
Jak3	n
Insl3	y
B3gnt3	y
B3gnt3	y
B3gnt3	y
Insl3	y
B3gnt3	y
Insl3	y
Insl3	y
Insl3	y
B3gnt3	y
Insl3	y
Insl3	y
B3gnt3	y
Insl3	y
Fcho1	n
Fcho1	n
Fcho1	n
Fcho1	n

Fcho1	n
Tpm4	y
Ap1m1	n
Ap1m1	n
Cib3	n
Eps15l1	y
Eps15l1	y
Eps15l1	y
Klf2	y
Large	n
Large	y
Mir28b	n
Gm10649	n
Tmem184c	y
Ttc29	n
Pou4f2	n
Ttc29	n
Pou4f2	n
Pou4f2	n
Smad1	n
Gm4890	n
Smad1	n
Hhip	n
Gypa	n
Hhip	n
Gab1	n
Scoc	y
Tecr	n
Ndufb7	n
Gipc1	n
Pkn1	n
Gipc1	n
Gipc1	n
Pkn1	n
Pkn1	n
Pkn1	n
Pkn1	n
Ptger1	n
Ddx39	n
Ddx39	n
Ddx39	y



Rln3	y
Rln3	y
Rln3	y
Dcaf15	y
4930432K21Rik	n
Mir181c	n
Mir181c	n
Cacna1a	n
Lyl1	n
Lyl1	n
Nfix	n
Lyl1	n
Nfix	n
Lyl1	n
Nfix	n
Nfix	n
Nfix	n
Lyl1	n
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Nfix	n
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Nfix	n
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Nfix	n
Lyl1	n
Lyl1	n
Nfix	n
Gadd45gip1	n
Nfix	n
Nfix	n
Gadd45gip1	n
Gadd45gip1	n
Nfix	n
Nfix	n
Gadd45gip1	n
Gadd45gip1	n
Gadd45gip1	n



Gadd45gip1	n
Gadd45gip1	n
Gadd45gip1	n
Gadd45gip1	n
Nfix	n
Nfix	n
Nfix	n
Nfix	n
Nfix	n
Gadd45gip1	n
Nfix	n
Gadd45gip1	n
Gadd45gip1	n
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Gadd45gip1	n
Nfix	n
Nfix	n
Gadd45gip1	n
Nfix	n
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Gadd45gip1	n
Nfix	n
Gadd45gip1	n
Gadd45gip1	n
Nfix	n
Nfix	n

Nfix	n
Nfix	n
Gadd45gip1	n
Gadd45gip1	n
Nfix	n
Nfix	n
Nfix	n
Gadd45gip1	n
Gadd45gip1	n
Nfix	n
Gcdh	y
Mast1	n
LOC100503676	n
Mast1	n
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LOC100503676	n
Mast1	n
Mast1	n
Mast1	n
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Mast1	n
LOC100503676	n
Junb	n
Junb	n
Hook2	n
Hook2	n
Hook2	n
Hook2	n
Junb	n
Lonp2	n
Gm10638	n
N4bp1	n
Gm2694	y
Zfp423	n
Zfp423	n
4933402J07Rik	n
Zfp423	n
Brd7	y
Brd7	n
Adcy7	n





Snx20	n
Snx20	n
Snx20	n
Snx20	n
Snx20	n
Nod2	n
Snx20	n
Nod2	n
Snx20	n
Chd9	y
Tox3	y
Chd9	y
Chd9	y
Chd9	n
Chd9	n
Rpgrip1l	n
Fto	n
Fto	n
Fto	n
Fto	n
Irx5	n
Crnde	n
Irx5	n
Irx5	n
Irx5	n
Irx5	n
Irx5	n
Irx5	n
Crnde	n
Crnde	n
Irx5	n
Gnao1	n
9330175E14Rik	n
Ciapi1	n
Polr2c	y
Gpr114	n
Ccdc102a	y
Ccdc102a	y
Gpr56	n
Gpr56	n
Ccdc102a	n

Katnb1	y
Kifc3	y
Mmp15	n
Cfap20	n
Tk2	n
Tk2	n
Dync1li2	n
Dync1li2	n
Ces4a	n
Ces4a	n
Ces4a	n
B3gnt9	y
Fbxl8	n
Fbxl8	n
Fbxl8	n
Tradd	n
Tradd	n
Tradd	n
Tradd	n
Fbxl8	n
Tradd	n
Fbxl8	n
Tradd	n
Fbxl8	n
Fbxl8	n
Tradd	n
Fbxl8	y
Tradd	y
Tradd	y
Tradd	y
Hsf4	y
Tradd	y
Hsf4	y
Tradd	y
Tradd	y
Hsf4	n
4931428F04Rik	n
Tmem208	n
Slc9a5	y
Fhod1	n
Fhod1	n

Plekhg4	y
Plekhg4	n
Atp6v0d1	y
Fam65a	n
Fam65a	n
Agrp	n
Fam65a	n
Agrp	n
Fam65a	n
Agrp	n
Agrp	n
Agrp	n
Agrp	n
Acd	n
Acd	n
Acd	n
Acd	n
Acd	n
Acd	n
Acd	n
Acd	n
Rltpr	n
Acd	n
Rltpr	n
Acd	n
Acd	n
Rltpr	n
Acd	n
Rltpr	n
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Rltpr	n
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Rltpr	n
Acd	n
Rltpr	n
4933405L10Rik	n
Gfod2	n
4933405L10Rik	n
Gfod2	n
4930506A18Rik	n
Cdh1	n
Cdh1	n
Tango6	n







Pkd1l2	n
Pkd1l2	n
Pkd1l2	n
Cmip	n
Cmip	n
Sdr42e1	n
Plcg2	n
Hsd17b2	y
Sdr42e1	y
Slc38a8	n
Mlycd	n
Necab2	n
Necab2	n
Slc38a8	y
Necab2	y
Wfdc1	n
Kcng4	n
Wfdc1	n
Cotl1	n
Cotl1	y
Crispld2	n
Crispld2	n
6430548M08Rik	n
6430548M08Rik	n
Zdhhc7	n
Fam92b	n
6430548M08Rik	y
6430548M08Rik	n
6430548M08Rik	n
A330074K22Rik	n
A330074K22Rik	n
A330074K22Rik	n
A330074K22Rik	n
6430548M08Rik	n
6430548M08Rik	n
6430548M08Rik	n
6430548M08Rik	n
6430548M08Rik	n
A330074K22Rik	n
A330074K22Rik	n
6430548M08Rik	n



Gse1	n
Gse1	n
Gse1	n
Gins2	n
Gse1	n
Gse1	n
Gins2	n
Gse1	n
Gins2	n
Irf8	n
Irf8	n
Emc8	n
Irf8	n
Foxf1	n
Foxl1	n
Foxl1	n
Mthfsd	n
Foxl1	n
Mthfsd	n
Mthfsd	n
Foxl1	n
1700030M09Rik	n
1700030M09Rik	n
1700018B08Rik	n
1700018B08Rik	n
1700030M09Rik	n
1700018B08Rik	n
1700030M09Rik	n
1700018B08Rik	n
1700030M09Rik	n
Trhr2	n
Zfpm1	n
Trhr2	n
Trhr2	n
Trhr2	n
Trhr2	n
Trhr2	n
Trhr2	n
Trhr2	n
Zfpm1	n
Trhr2	n
Zfpm1	n

Trhr2	n
Trhr2	n
Ctu2	n
Piezo1	n
Ctu2	n
Cdt1	n
Piezo1	n
Piezo1	n
Cdt1	n
Piezo1	n
Piezo1	n
Cdt1	y
Piezo1	y
Piezo1	y
Cdt1	y
Aprt	y
Aprt	y
Trappc2l	n
Trappc2l	n
Trappc2l	n
Trappc2l	n
Trappc2l	n
Cbfa2t3	n
Trappc2l	n
Cbfa2t3	n
Trappc2l	n
Cbfa2t3	n
Trappc2l	n
Cbfa2t3	n
Trappc2l	n
Cbfa2t3	n
Cbfa2t3	n
Cbfa2t3	n
Trappc2l	y
Cbfa2t3	y
Trappc2l	y
Cbfa2t3	y
Cbfa2t3	y
Cbfa2t3	y
Trappc2l	y
Cbfa2t3	y

Cbfa2t3	y
Trappc2l	n
Cbfa2t3	n
Cpne7	y
Sult5a1	y
Sult5a1	y
Sult5a1	y
Sult5a1	y
Cpne7	n
Fanca	y
Urb2	n
Galnt2	n
Galnt2	n
Pgbd5	n
Galnt2	n
Pgbd5	n
Pgbd5	n
Arv1	n
Egln1	n
Disc1	n
Sipa1l2	n
Disc1	n
Sipa1l2	n
Disc1	n
Disc1	n
Disc1	n
Disc1	n
Sipa1l2	n
Sipa1l2	n
Disc1	n
Disc1	n
Sipa1l2	n
Sipa1l2	n
Ntpcr	n
Pcnxl2	n
Ntpcr	n
Ntpcr	n
Irf2bp2	n
Coa6	n
Irf2bp2	n
Coa6	n

Irf2bp2	n
Coa6	n
Coa6	n
Tomm20	n
Pard3	n
Pard3	n
Nrp1	n
Mir101c	n
Mir101c	n
Cep57	n
Endod1	n
Endod1	y
Fut4	y
Fut4	y
Izumo1r	y
Smco4	n
Ccdc67	n
Smco4	n
Chordc1	n
Olfir24	n
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ubl5	y
Fbxl12	y
Ppan	n
Mrpl4	n
Icam5	n
Icam5	n

Icam5	n
Icam5	n
Mir1900	n
Mir1900	n
Mir1900	n
Mir1900	n
Pde4a	n
S1pr5	y
Slc44a2	y
Slc44a2	y
Ap1m2	y
Ap1m2	n
Spc24	n
Gm6484	n
Gm6484	n
Swsap1	y
Epor	y
Epor	y
Epor	y
Prkcsh	y
Prkcsh	n
Ccdc151	n
Ccdc151	n
Zfp653	n
Cnn1	y
Acp5	y
Acp5	y
Acp5	y
Acp5	y
Acp5	y
Acp5	y
Mir680-2	y
Bmper	n
Rp9	n
Rp9	n
Dpy1911	n
Npsr1	n
Npsr1	n
Snx19	n
St14	n
Arhgap32	n
Arhgap32	n



Ets1	n
Ets1	n
Fli1	n
Ets1	n
Kirrel3	n
Kirrel3	n
Kirrel3	n
St3gal4	n
4933422A05Rik	n
Ddx25	n
Pknox2	n
Robo4	n
Robo3	n
Robo3	n
Robo3	n
Robo4	n
Robo3	n
Robo3	n
Esam	n
Nrgn	n
Zfp202	n
Zfp202	n
1700110K17Rik	n
Gramd1b	n
1700110K17Rik	n
1700110K17Rik	n
Gramd1b	n
1700110K17Rik	n
1700110K17Rik	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
Gramd1b	n
1700110K17Rik	n
Gramd1b	n
1700110K17Rik	n
Gramd1b	n

Clmp	n
Clmp	n
4931429I11Rik	n
4931429I11Rik	n
1700063D05Rik	n
Ubash3b	n
1700063D05Rik	y
3110039I08Rik	n
2610203C20Rik	n
4930546K05Rik	n
D630033O11Rik	n
Grik4	n
Grik4	n
D630033O11Rik	n
D630033O11Rik	n
D630033O11Rik	n
Grik4	n
D630033O11Rik	n
Grik4	n
Grik4	n
Grik4	n
Grik4	n
D630033O11Rik	y
Oaf	y
D630033O11Rik	n
Oaf	n
Oaf	n
Pvrl1	y
Rnf26	y
Pvrl1	n
Pvrl1	n
Rnf26	n
Thy1	n
Thy1	n
Thy1	n
Thy1	y
Rnf26	y
Usp2	y
Mcam	n
Nlr1	y
Dpagt1	n



Pafah1b2	n
Sik3	n
Sik3	n
Bud13	n
Bud13	n
Bud13	n
4931429L15Rik	n
4931429L15Rik	n
Cadm1	n
Gm5617	n
Zbtb16	n
Gm5617	n
Gm5617	n
Gm5617	n
Zbtb16	n
Zbtb16	n
Gm5617	n
Zbtb16	n
Gm5617	n
Gm5617	n
Zbtb16	n
Usp28	n
Usp28	n
Usp28	n
Usp28	n
Usp28	n
Usp28	n
Zbtb16	n
Plet1	n
Plet1	n
Plet1os	n
Plet1	n
Cryab	y
Sik2	n
Ppp2r1b	n
Gm684	y
Gm684	y
Gm684	y
Gm684	y
Pou2af1	n
Rdx	n

AI593442	y
Sh2d7	y
Sh2d7	y
AY074887	n
Chrn4	n
Etfa	n
AI118078	n
AI118078	n
Etfa	n
Etfa	n
Tspan3	n
Pstpip1	n
Hmg20a	n
Hmg20a	n
Lingo1	n
Odf3l1	y
Cspg4	n
Snx33	n
Snx33	n
Snx33	n
Trcg1	n
Trcg1	n
4930430J02Rik	n
Ppcdc	n
Ulk3	n
Ecd3	n
Arid3b	n
Arid3b	n
Arid3b	n
Arid3b	n
Sema7a	n
Sema7a	n
Ccdc33	n
Cyp11a1	n
Stra6	n
Stra6	y
Stoml1	y
Loxl1	y
Loxl1	y
Stoml1	y
Loxl1	y



Rplp1	n
Rplp1	n
Rplp1	n
Anp32a	n
Anp32a	n
Anp32a	n
Anp32a	n
Anp32a	n
Coro2b	n
Anp32a	n
Anp32a	n
Coro2b	n
Coro2b	n
Itga11	n
Skor1	n
Calml4	n
Calml4	n
Aagab	n
Aagab	n
Smad3	n
Aagab	n
Aagab	n
Aagab	n
Smad3	n
Smad3	n
Aagab	n
Smad3	n
Smad3	n
1110036E04Rik	n
1110036E04Rik	n
Smad6	n
1110036E04Rik	n
Smad6	n
1110036E04Rik	n
1110036E04Rik	n
Smad6	n
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Smad6	n
Smad6	n
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Smad6	n
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1110036E04Rik	n
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Smad6	n
1700055C04Rik	n
1700055C04Rik	n
1700055C04Rik	n
1110036E04Rik	n
1110036E04Rik	n
1110036E04Rik	n
1700055C04Rik	n
1700055C04Rik	n
1700055C04Rik	n
Dis3l	n
Rab11a	n
Slc24a1	n
Slc24a1	n
Vwa9	y
Igdcc4	y
Igdcc4	y
Ptplad1	y
Igdcc4	y
Ptplad1	y
Igdcc4	y
Igdcc4	y
Igdcc4	y
Ptplad1	y
Spg21	n
Spg21	n
Spg21	n
Spg21	n
Plekho2	n
Plekho2	n
Spg21	n
Plekho2	n



Spg21	n
Plekho2	n
Plekho2	y
Ppib	n
Snx22	n
Ppib	n
Dapk2	n
Herc1	y
Herc1	y
Fbxl22	y
Car12	n
Car12	n
Rab8b	n
Car12	n
Rab8b	n
Vps13c	n
Rora	n
Rora	n
Rora	n
Foxb1	n
B230323A14Rik	n
B230323A14Rik	n
B230323A14Rik	n
Fam81a	n
Fam81a	y
Fam81a	y
Fam81a	y
Adam10	n
Aldh1a2	n
Polr2m	n
Zfp280d	n
Ccp1os	n
Ccp1os	n
Ccp1os	n
Ccp1	n
Pigb	n
Ccp1	n
Ccp1	n
Pigb	n
Rab27a	n
Pigb	n

Pigb	n
Unc13c	n
Unc13c	n
Mapk6	n
Myo5a	y
Mapk6	n
Mapk6	n
Ddx43	n
Cd109	n
4930429F24Rik	n
Snx14	n
1700034K08Rik	n
Slc9a9	n
Tfdp2	n
Tfdp2	n
Tfdp2	n
Rnf7	n
Rasa2	n
Rasa2	n
Rasa2	n
Rasa2	y
Zbtb38	n
Pxylp1	n
C430002N11Rik	n
C430002N11Rik	n
Spsb4	n
4930579K19Rik	n
4930579K19Rik	n
Rbp2	n
4930579K19Rik	n
Ky	n
Ephb1	n
Cep63	y
Anapc13	n
Amotl2	n
Amotl2	n
Cep63	n
Amotl2	n
Cep63	n
Cep63	n
Gm5627	n

Ryk	n
Srprb	n
1300017J02Rik	y
Ackr4	n
Alas1	n
Poc1a	n
Poc1a	n
Poc1a	n
Acy1	n
Pcbp4	y
Pcbp4	y
Abhd14a	y
Pcbp4	y
Abhd14a	y
Abhd14a	y
Pcbp4	n
Iqcf6	n
Rbm15b	y
Rbm15b	y
Vprbp	y
Rbm15b	y
Vprbp	y
Cish	n
Hemk1	n
6430571L13Rik	n
Cyb561d2	n
Cacna2d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	n
Cacna2d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	n
Cyb561d2	y
Sema3b	y
Ifrd2	n
Gnai2	n

lfrd2	n
Gnai2	n
Gnai2	n
lfrd2	n
Slc38a3	y
Slc38a3	y
lfrd2	n
Sema3f	n
Sema3f	n
Rbm5	n
Mon1a	n
Mon1a	n
Rbm6	n
Rbm6	n
Mst1r	n
Mst1r	n
Apeh	y
Mst1	n
Bsn	n
Bsn	n
Bsn	n
4930447F24Rik	n
4930447F24Rik	n
4930447F24Rik	n
Bsn	n
Dag1	n
Amt	y
Dalrd3	n
P4htm	n
P4htm	y
Arih2	y
Trex1	n
Trex1	n
Tma7	n
Nbeal2	y
Setd2	y
Setd2	y
Setd2	y
Setd2	y
Nbeal2	y
Nbeal2	y

Setd2	y
Nbeal2	n
Ccdc12	n
Ccdc12	n
Nbeal2	n
Ccdc12	n
Nbeal2	n
Pth1r	n
Pth1r	n
Ccdc12	n
Prss50	y
Prss50	y
Prss50	y
Prss50	n
Als2cl	n
Tmie	n
Tmie	n
Tmie	n
Tmie	n
Tmie	n
Tmie	n
Als2cl	n
Tmie	n
Tmie	n
Tmie	n
Als2cl	y
Als2cl	n
Tmie	n
Als2cl	n
Als2cl	n
Lrrc2	y
Ccrl2	y
Ccrl2	y
Ccrl2	n
Mlh1	y
Arpp21	y
Arpp21	y
Arpp21	y
Trim71	n
Glb1	n
Dync1li1	n

Cmtm7	n
Cmtm7	n
Cmtm7	n
Cmtm8	n
Osbp10	n
Osbp10	n
Osbp10	n
Stt3b	n
Stt3b	n
Stt3b	n
Gad1	n
Tgfbr2	n
Gad1	n
Tgfbr2	n
Tgfbr2	n
Rbms3	n
Rbms3	n
Cmc1	n
Cmc1	n
Eomes	n
Cmc1	n
Eomes	n
Cmc1	n
Eomes	n
Eomes	n
Cmc1	n
Eomes	n
Cmc1	n
Cmc1	y
Eomes	n
Golga4	n
Itga9	n
Itga9	n
Plcd1	y
Dlec1	n
Acvr2b	n
Scn5a	n
Csrnp1	n
Ttc21a	n
Csrnp1	n
Ttc21a	n

Csrnp1	n
Ttc21a	y
Ttc21a	n
Ttc21a	y
Entpd3	n
1700020M21Rik	n
5830454E08Rik	n
1700020M21Rik	n
1700020M21Rik	n
1700020M21Rik	n
Trak1	n
Trak1	n
Ulk4	n
Ulk4	n
Trak1	n
Ackr2	n
Ano10	n
Clec3b	n
Cdcp1	n
Clec3b	y
Slc6a20b	y
Ccr1l1	n
Ppp1r3f	y
Ppp1r3f	y
Plp2	y
Ccdc120	n
Ccdc120	n
Tfe3	y
Tfe3	y
Ccdc120	y
Tfe3	y
Ccdc120	y
Tfe3	y
Tfe3	y
Ccdc120	y
Pqbp1	y
Eras	n
Eras	y
Slc38a5	n
Slc38a5	n
Porcn	n

Porcn	n
Gm5634	n
Fthl17	n
Lancl3	y
Lancl3	y
Lancl3	n
Rpgr	n
Bcor	n
Bcor	n
Bcor	n
Gm4906	n
Bcor	n
Gm4906	n
Bcor	n
Gm4906	n
Bcor	n
Bcor	n
Bcor	n
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Gm4906	n
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Gm4906	n
Bcor	n
Bcor	n
Gm4906	n
Bcor	n
Gm4906	n
Bcor	n
Bcor	n
Gm4906	n
Atp6ap2	n
Atp6ap2	n
Atp6ap2	n
Bcor	n
Atp6ap2	n
Atp6ap2	n
Atp6ap2	n
2900008C10Rik	n
2900008C10Rik	n
Atp6ap2	n



Atp6ap2	n
2900008C10Rik	n
2900008C10Rik	n
Atp6ap2	n
Atp6ap2	n
2900008C10Rik	n
Atp6ap2	n
2900008C10Rik	n
Atp6ap2	n
2900008C10Rik	n
2900008C10Rik	n
Atp6ap2	n
Atp6ap2	n
Atp6ap2	n
2900008C10Rik	n
2900008C10Rik	n
Atp6ap2	n
Atp6ap2	n
Gm14635	n
Gm14635	n
Atp6ap2	n
Gm14635	n
1810030007Rik	y
5730405015Rik	n
2010308F09Rik	n
Ddx3x	n
Ddx3x	n
Nyx	n
Cask	n
Cask	n
Cask	n
Nyx	n
Nyx	n
Cask	n
Nyx	n
Cask	n
Nyx	n
Nyx	n
Nyx	n
Cask	n
Cask	n



Xlr4a	y
Pnma3	y
Pnma3	y
Pnck	n
Atp2b3	n
Pnck	n
Dusp9	y
Ssr4	y
Ssr4	y
Ssr4	y
Pdzd4	y
Smim9	n
Vbp1	y
Dmd	n
4932429P05Rik	n
Zfx	n
Maged1	n
Zxdb	n
Spin4	n
Spin4	n
Amer1	y
Msn	n
Ophn1	y
Yipf6	n
Efnb1	n
Gm14812	n
Gm14812	n
Gm14812	n
Efnb1	n
Efnb1	n
Efnb1	n
Gm14812	n
Gm14812	n
Gm14812	n
Efnb1	n
Efnb1	n
Gm14812	n
Pja1	n
Tmem28	y
Tmem28	y
Tex11	n



Pak3	y
Pak3	y
Fgd1	y
Wnk3	n
Wnk3	n
3010001F23Rik	y
Gpr173	y
3010001F23Rik	y
3010001F23Rik	y
3010001F23Rik	y
Gpr173	y
Mageh1	n
Mbtps2	n
Mbtps2	n
Cnksr2	n
Pdha1	y
Pdha1	y
Pdha1	y
Pdha1	y
Pdha1	y
Pdha1	y
Pdha1	y
Sh3kbp1	n
Rai2	y
Nhs	y
Nhs	n
Rbbp7	n
Bc1	n
Bc1	n
Rnf138rt1	y
Rnf138rt1	y
Bmx	y
Bmx	n
Gm1720	y
Gm1720	y
Tmsb4x	n
Tlr8	n
Mid1	n
Mid1	n
G530011O06Rik	n
G530011O06Rik	n

G530011O06Rik	n
G530011O06Rik	n
Zfy2	n
Zfy2	n
Zfy2	n
Gm21708	n
Gm20822	n
Erdr1	n

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