

Supplemental Information

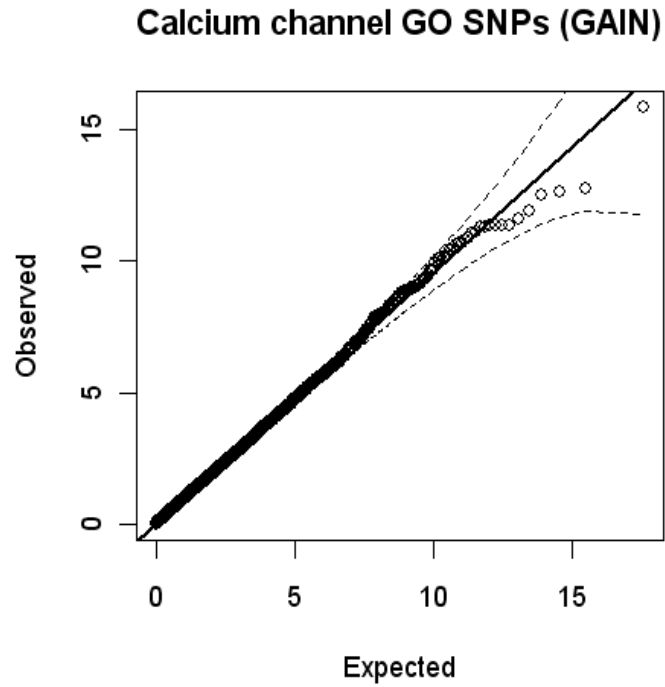


Figure S1. QQ-plot of the results of interaction analysis of SNPs in genes encoding dihydropyridine-sensitive calcium channel subunits (no LD pruning) in the GAIN data.

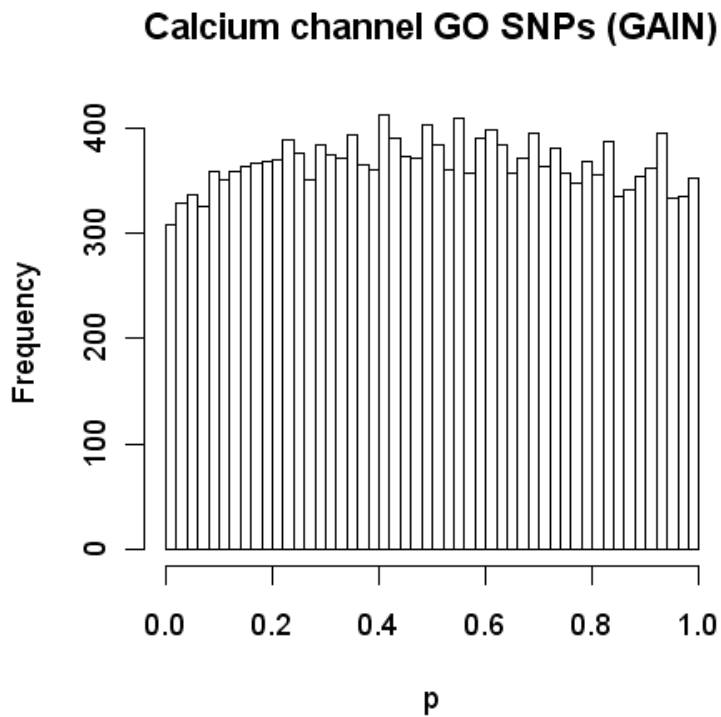


Figure S2. Histogram of p-values of interaction analysis of SNPs in genes encoding dihydropyridine-sensitive calcium channel subunits (no LD pruning) in the GAIN data.

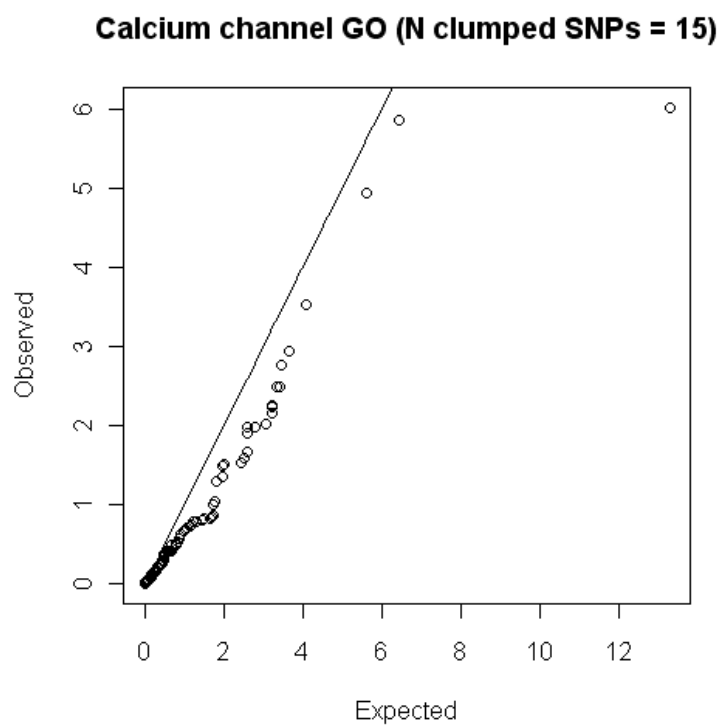


Figure S3. QQ-plot of the results of interaction analysis of top significant ($p \leq 0.05$) SNPs and non-independent SNPs at $r^2 \geq 0.5$ removed in genes encoding dihydropyridine-sensitive calcium channel subunits in the WTCCC data.

Table S1. The top significant ($p \leq 0.01$) interactions based upon SNPs with single locus $p \leq 0.001$ in the WTCCC data and the corresponding interaction p-values in the GAIN data.

chr1	snp1	chr2	snp2	p_WTCCC	p_GAIN
1	rs215773	18	rs614841	3.04E-05	0.343008
6	rs6912394	22	rs688034	3.12E-05	0.673303
7	rs941034	11	rs1431571	3.63E-05	0.668061
6	rs9346240	10	rs10905203	3.81E-05	0.758046
5	rs255375	14	rs8008996	7.51E-05	0.213787
9	rs10980405	14	rs964431	7.88E-05	NA
9	rs10989064	14	rs12434721	7.94E-05	0.888099
10	rs1540956	15	rs901130	8.78E-05	0.101233
2	rs1375144	5	rs1862618	9.73E-05	0.476320
14	rs2354445	20	rs6031991	1.41E-04	0.128686
1	rs12125340	7	rs2402752	1.42E-04	0.969594
6	rs700496	19	rs2061332	1.87E-04	0.980713
6	rs572550	8	rs12056374	1.90E-04	0.183530
8	rs7016497	14	rs11626813	1.96E-04	0.089796
3	rs11130858	8	rs16919670	2.28E-04	0.782740
4	rs958927	8	rs6472997	2.33E-04	NA
8	rs481061	11	rs1431571	2.61E-04	NA
5	rs32784	10	rs2096285	2.85E-04	0.937338
3	rs150219	19	rs10409187	2.87E-04	NA
2	rs2953174	3	rs4134190	3.04E-04	NA
5	rs1862618	15	rs17599989	3.06E-04	0.566277
2	rs2592941	15	rs999742	3.13E-04	0.731574
5	rs10041283	5	rs10060800	3.26E-04	0.772288
11	rs10893668	12	rs7959282	3.30E-04	0.908842
1	rs11207909	9	rs11138278	3.71E-04	0.884301
5	rs6861906	7	rs2402752	4.20E-04	0.643029
5	rs5009031	18	rs8096537	4.38E-04	0.515946
3	rs2033701	9	rs10982256	4.45E-04	0.700024
10	rs3121466	17	rs2017854	5.01E-04	0.490939
7	rs2774960	22	rs11089599	5.36E-04	0.489291
4	rs10025322	12	rs1245652	5.60E-04	0.778738
4	rs10025322	19	rs7247513	5.82E-04	0.930697
4	rs6856121	7	rs2718038	5.90E-04	0.414292
12	rs10848636	14	rs2293732	5.92E-04	0.143330
18	rs11877435	19	rs7247513	6.33E-04	0.408502
2	rs12611712	10	rs1892302	6.51E-04	0.311335
1	rs17163470	14	rs964431	6.59E-04	NA
1	rs17163470	10	rs1540956	7.17E-04	0.922152
21	rs417836	22	rs130707	7.77E-04	NA
3	rs7624830	5	rs1862618	8.08E-04	0.387524
6	rs501241	10	rs10905715	8.20E-04	NA

7	rs941034	7	rs17314507	8.21E-04	0.609785
14	rs17108400	19	rs759071	8.22E-04	0.845526
3	rs6439389	16	rs1344484	8.40E-04	0.976485
2	rs12611712	2	rs10928826	8.63E-04	0.828202
7	rs2355066	11	rs1431571	8.68E-04	0.601370
3	rs150219	14	rs8008996	8.81E-04	0.883260
12	rs11168839	15	rs901130	8.82E-04	NA
12	rs7959282	16	rs4784508	9.04E-04	0.186208
1	rs4920516	11	rs10431079	9.08E-04	0.610139
5	rs411172	15	rs12595660	9.30E-04	0.925766
1	rs396954	1	rs12145699	9.43E-04	NA
6	rs1029123	10	rs3121466	9.99E-04	0.562953
2	rs4234123	4	rs7691186	1.01E-03	NA
9	rs901992	11	rs2201845	1.02E-03	0.387768
5	rs411172	11	rs10742161	1.03E-03	0.527188
14	rs11626813	22	rs11089599	1.08E-03	0.256379
2	rs4234123	3	rs4134190	1.08E-03	NA
1	rs3896178	2	rs7577619	1.09E-03	0.341321
8	rs481061	14	rs10431700	1.11E-03	NA
7	rs2402752	14	rs8011085	1.11E-03	0.215066
3	rs6762678	14	rs8011085	1.15E-03	0.953376
1	rs1748035	10	rs788261	1.23E-03	0.435788
1	rs17163470	8	rs16919670	1.23E-03	0.787575
11	rs2155777	15	rs901130	1.25E-03	0.111778
11	rs10893668	11	rs11223704	1.25E-03	0.349528
3	rs150219	20	rs6031991	1.29E-03	0.153090
12	rs7975892	15	rs4076907	1.29E-03	NA
10	rs6602256	14	rs7159947	1.32E-03	0.333647
2	rs17248501	15	rs12595660	1.35E-03	0.919747
12	rs7959282	14	rs6571488	1.41E-03	0.662264
5	rs2589653	10	rs12356059	1.42E-03	NA
2	rs7562696	5	rs32784	1.43E-03	0.722220
4	rs1472962	8	rs10097578	1.47E-03	0.490166
8	rs1993980	9	rs1573257	1.52E-03	NA
18	rs7240747	18	rs1893146	1.53E-03	0.771247
11	rs10742161	12	rs1245652	1.56E-03	0.791460
2	rs3754895	10	rs788261	1.58E-03	0.614431
3	rs6443856	4	rs6850978	1.58E-03	0.515344
3	rs6439389	13	rs1540460	1.60E-03	0.255831
2	rs2576742	9	rs4879540	1.62E-03	NA
3	rs4627791	3	rs7624830	1.64E-03	0.601189
5	rs10060800	22	rs688034	1.64E-03	0.552364
6	rs13196792	11	rs2201845	1.65E-03	0.674229
13	rs1149839	19	rs12610472	1.80E-03	0.388513

5	rs255375	13	rs179356	1.80E-03	0.454469
2	rs2292388	18	rs7239844	1.86E-03	NA
5	rs10060800	10	rs1892302	1.88E-03	0.913075
2	rs11686149	4	rs11098416	1.89E-03	0.501282
4	rs10025322	15	rs999742	1.90E-03	0.655362
4	rs2055942	14	rs17197037	1.92E-03	0.910478
14	rs964431	22	rs17435801	1.93E-03	NA
1	rs4657976	10	rs7896131	1.93E-03	0.888456
2	rs4641882	10	rs10994548	1.94E-03	0.488134
8	rs10097578	15	rs12591922	1.99E-03	0.240523
2	rs2576742	9	rs7860900	2.00E-03	NA
5	rs999580	15	rs4076907	2.00E-03	NA
2	rs3754895	15	rs4420487	2.03E-03	0.290189
1	rs7534239	6	rs852928	2.03E-03	0.927071
2	rs4027132	8	rs1993980	2.04E-03	NA
6	rs954753	8	rs9643449	2.08E-03	0.997949
4	rs1472962	8	rs12056374	2.09E-03	0.805131
15	rs17599989	19	rs10853835	2.10E-03	NA
10	rs2096285	11	rs10431079	2.12E-03	0.680905
4	rs2055392	16	rs3935873	2.12E-03	0.933405
7	rs2774960	11	rs10790633	2.13E-03	0.902150
2	rs2592941	5	rs10041283	2.15E-03	0.158793
2	rs737565	3	rs4134190	2.16E-03	0.216608
9	rs888230	10	rs10905715	2.20E-03	NA
7	rs11768025	9	rs10989064	2.26E-03	0.037826
11	rs2283238	17	rs203076	2.27E-03	0.536993
8	rs6472997	22	rs165650	2.28E-03	NA
4	rs12640371	19	rs7248493	2.29E-03	NA
6	rs7763010	10	rs2890337	2.34E-03	0.348018
13	rs7333011	18	rs9947947	2.35E-03	0.930225
6	rs1029123	12	rs11168839	2.35E-03	NA
4	rs6856121	11	rs4372426	2.35E-03	NA
5	rs999580	6	rs1352976	2.36E-03	NA
8	rs2953932	16	rs4782872	2.38E-03	0.896298
7	rs2355066	20	rs3761218	2.40E-03	0.116887
2	rs3754895	4	rs11098416	2.41E-03	0.506399
3	rs7630226	14	rs12434721	2.46E-03	0.637006
8	rs12056374	21	rs2834929	2.47E-03	0.467794
9	rs7860900	9	rs17499507	2.54E-03	NA
3	rs6439389	11	rs10893668	2.59E-03	0.248048
1	rs12130132	10	rs10905203	2.61E-03	NA
7	rs2526100	22	rs11089599	2.61E-03	0.144381
8	rs10111407	11	rs356242	2.61E-03	0.479595
11	rs4372426	21	rs2834929	2.62E-03	NA

7	rs11976431	12	rs11067270	2.62E-03	0.492555
1	rs7519141	9	rs12380216	2.67E-03	0.225365
7	rs1558043	9	rs10993698	2.67E-03	NA
3	rs6443856	10	rs10905715	2.67E-03	NA
3	rs4858594	12	rs1245652	2.67E-03	0.943962
2	rs6750543	3	rs7624830	2.69E-03	0.481196
3	rs6783478	14	rs6571488	2.69E-03	NA
11	rs4945441	14	rs8011085	2.72E-03	0.218421
2	rs4852549	5	rs4400148	2.75E-03	0.781115
5	rs5009031	5	rs1862618	2.76E-03	0.155441
7	rs1635079	19	rs2191566	2.79E-03	0.285922
4	rs6850978	9	rs1573257	2.79E-03	0.571977
7	rs12537100	19	rs2191566	2.87E-03	0.990186
2	rs7562696	11	rs10790633	2.91E-03	0.567741
1	rs3896178	22	rs12157657	2.93E-03	0.599233
1	rs6679942	7	rs11768025	2.97E-03	0.161148
7	rs2285757	18	rs7239844	2.99E-03	NA
12	rs11044100	18	rs9947947	3.01E-03	0.602911
5	rs1211159	9	rs10982256	3.02E-03	0.249558
5	rs10060800	15	rs7163502	3.05E-03	NA
13	rs1149839	20	rs6031991	3.06E-03	0.585586
14	rs8008996	19	rs12610472	3.06E-03	0.091784
9	rs7860900	18	rs7240747	3.06E-03	NA
2	rs10182324	14	rs10438244	3.09E-03	0.402113
4	rs11098416	13	rs12584910	3.09E-03	0.018896
8	rs10111407	8	rs3019878	3.10E-03	0.261076
3	rs4627791	3	rs6439389	3.11E-03	0.831075
1	rs12125340	11	rs2514890	3.15E-03	0.616061
2	rs11687654	21	rs2830549	3.18E-03	NA
7	rs2355066	7	rs17314507	3.19E-03	0.841449
13	rs1540460	18	rs9947947	3.20E-03	0.066404
1	rs4845390	2	rs2292388	3.21E-03	0.109512
2	rs4849413	5	rs27000	3.22E-03	0.866607
4	rs17147420	8	rs10111407	3.22E-03	0.615068
11	rs4938280	14	rs10438244	3.24E-03	0.652334
1	rs2213736	9	rs10989064	3.24E-03	0.234894
1	rs6679942	5	rs6596595	3.28E-03	NA
7	rs2718038	17	rs203076	3.29E-03	0.710260
12	rs10848636	16	rs8060756	3.32E-03	0.202492
2	rs4852549	6	rs6912394	3.32E-03	0.260319
3	rs934841	15	rs4076907	3.33E-03	0.619994
7	rs7794215	17	rs2017854	3.35E-03	0.061910
2	rs12611712	15	rs12591922	3.35E-03	0.916974
10	rs7899892	15	rs4076907	3.36E-03	0.482952

4	rs965253	6	rs2252933	3.36E-03	0.835693
3	rs2240920	3	rs4134190	3.38E-03	0.890889
4	rs17147420	10	rs4601676	3.41E-03	0.343080
3	rs1541855	10	rs1892302	3.42E-03	0.843090
18	rs7240747	21	rs2154490	3.43E-03	0.526519
1	rs6604643	4	rs6819526	3.44E-03	0.009304
2	rs11686149	9	rs1573257	3.45E-03	0.164347
1	rs1748035	8	rs2953932	3.45E-03	0.046893
5	rs1428006	8	rs4288339	3.48E-03	NA
18	rs7239844	19	rs1048123	3.49E-03	NA
6	rs9370893	15	rs4420487	3.50E-03	0.094108
6	rs1029123	7	rs2774960	3.62E-03	0.163202
2	rs3754895	8	rs11787515	3.66E-03	0.049747
2	rs4280420	10	rs788261	3.70E-03	0.667626
3	rs33528	20	rs1885290	3.71E-03	0.385231
5	rs6861906	10	rs2890337	3.72E-03	0.762504
6	rs1006997	12	rs10848636	3.72E-03	0.306017
8	rs10111407	11	rs4945441	3.74E-03	0.916491
3	rs4134190	11	rs1431571	3.75E-03	0.880869
7	rs1558043	17	rs2108978	3.75E-03	0.226382
1	rs6679942	19	rs10853835	3.78E-03	NA
4	rs6856121	10	rs10764062	3.79E-03	0.718716
5	rs6596595	19	rs7248493	3.80E-03	NA
1	rs396954	14	rs12434721	3.81E-03	0.515076
10	rs788261	14	rs10431700	3.85E-03	0.731266
7	rs12537100	19	rs2061332	3.86E-03	0.387918
11	rs10790633	12	rs11044100	3.88E-03	0.343259
10	rs10905715	18	rs7240747	3.88E-03	NA
2	rs10187657	16	rs8060756	3.89E-03	0.924151
2	rs2292388	10	rs10905203	3.90E-03	0.742761
2	rs4849413	5	rs1862618	3.91E-03	0.823280
18	rs11877435	19	rs1216119	3.93E-03	0.049164
1	rs6604643	7	rs2526100	3.95E-03	0.459076
3	rs4134190	16	rs420259	3.96E-03	0.830008
2	rs3754895	8	rs731589	3.98E-03	0.591625
2	rs2576742	3	rs6439389	3.99E-03	0.166631
9	rs17499507	10	rs788261	4.01E-03	0.085681
7	rs12537100	19	rs12610472	4.02E-03	0.880087
11	rs7932890	19	rs10407941	4.04E-03	0.126677
6	rs686786	9	rs10812869	4.04E-03	0.751613
5	rs255375	13	rs4550321	4.04E-03	0.229692
4	rs6856121	17	rs2017854	4.11E-03	0.757011
6	rs572550	16	rs12149894	4.15E-03	0.039070
1	rs12130132	20	rs6031991	4.15E-03	NA

3	rs4627791	10	rs7896131	4.15E-03	0.334364
5	rs4400148	21	rs2830549	4.15E-03	NA
14	rs12434721	18	rs1893146	4.16E-03	0.685200
7	rs2774960	9	rs10989064	4.23E-03	0.074060
21	rs2154490	21	rs2834929	4.25E-03	0.273071
12	rs7959282	20	rs6031991	4.25E-03	0.337609
7	rs1558043	8	rs10097578	4.26E-03	0.733622
4	rs958927	21	rs2154490	4.29E-03	0.899448
3	rs7649424	4	rs6820236	4.31E-03	0.633369
8	rs4288339	17	rs2017854	4.39E-03	0.837089
4	rs4956324	19	rs7408169	4.40E-03	NA
3	rs6783478	13	rs7333011	4.40E-03	NA
1	rs12130132	15	rs4076907	4.40E-03	NA
1	rs285482	17	rs203076	4.46E-03	0.137098
6	rs9295140	16	rs8060756	4.47E-03	0.224612
17	rs4924803	21	rs2830549	4.50E-03	NA
6	rs1171115	6	rs2763025	4.51E-03	0.416681
1	rs2989476	6	rs13196792	4.53E-03	0.829500
1	rs4845390	5	rs32784	4.54E-03	0.208514
4	rs958927	8	rs1545453	4.56E-03	0.260161
3	rs2900668	9	rs12380216	4.60E-03	0.573956
7	rs17314507	10	rs10994548	4.63E-03	0.246508
1	rs17163470	19	rs7248493	4.65E-03	0.429778
10	rs10905203	14	rs7159947	4.66E-03	0.450943
2	rs6750543	3	rs4134190	4.66E-03	0.411182
15	rs12595660	18	rs9947947	4.70E-03	0.583899
10	rs10994548	12	rs7975892	4.72E-03	NA
8	rs1993980	21	rs2834929	4.73E-03	NA
4	rs2055942	19	rs7408169	4.77E-03	NA
2	rs4673905	15	rs901130	4.82E-03	0.677271
4	rs965253	6	rs9346240	4.82E-03	0.673133
7	rs2526100	8	rs10504768	4.85E-03	0.640961
4	rs17147420	5	rs1428006	4.85E-03	NA
3	rs6443856	19	rs12610472	4.86E-03	0.665970
11	rs2155777	19	rs10409187	4.87E-03	NA
8	rs3019878	22	rs130707	4.87E-03	0.928609
5	rs10041283	7	rs2285757	4.87E-03	0.011013
6	rs1006997	12	rs7975892	4.87E-03	NA
9	rs1573257	11	rs7932890	4.95E-03	0.603354
6	rs13196792	10	rs1491192	4.98E-03	0.609655
3	rs6783478	10	rs7896131	5.08E-03	NA
1	rs926576	7	rs1558043	5.09E-03	0.325097
7	rs1558043	14	rs8011085	5.09E-03	0.524316
7	rs2526100	11	rs1431571	5.11E-03	0.483440

4	rs2055392	9	rs7860900	5.11E-03	NA
18	rs8096537	19	rs1216119	5.12E-03	0.822661
15	rs999742	19	rs759071	5.13E-03	0.551641
5	rs1490796	14	rs964431	5.23E-03	NA
2	rs10928826	19	rs7408169	5.23E-03	NA
1	rs17163470	21	rs2834929	5.25E-03	0.812148
5	rs411172	12	rs7975892	5.26E-03	NA
1	rs2213736	12	rs1245652	5.28E-03	0.217165
1	rs6679942	14	rs12434721	5.31E-03	0.979706
9	rs7872727	19	rs759071	5.32E-03	0.997334
6	rs6906574	19	rs11672395	5.33E-03	0.243103
4	rs6856121	5	rs255375	5.39E-03	0.352402
1	rs926576	11	rs7932890	5.41E-03	0.723678
2	rs737565	12	rs7959282	5.41E-03	0.464351
10	rs10826258	18	rs1893146	5.43E-03	0.481808
1	rs926576	4	rs17147420	5.44E-03	0.489753
7	rs2402752	8	rs731589	5.46E-03	0.413082
11	rs10898976	13	rs4550321	5.47E-03	NA
1	rs736861	3	rs9850123	5.47E-03	0.557778
14	rs6571488	22	rs12157657	5.48E-03	0.444055
2	rs4641882	9	rs11138278	5.48E-03	0.019090
11	rs4938280	19	rs10409187	5.53E-03	NA
6	rs572550	17	rs2017854	5.53E-03	0.099107
8	rs481061	14	rs8011085	5.54E-03	NA
1	rs4628571	11	rs7932890	5.54E-03	0.079849
1	rs2989476	10	rs10905715	5.55E-03	NA
8	rs1545453	21	rs12482209	5.62E-03	0.101494
10	rs7899892	18	rs7240747	5.65E-03	0.694986
10	rs1892302	19	rs2191566	5.66E-03	0.241509
1	rs7534239	2	rs10187657	5.68E-03	0.064129
1	rs6679942	2	rs9309401	5.70E-03	0.186257
4	rs12640371	6	rs1029123	5.70E-03	NA
12	rs10848636	14	rs8019107	5.72E-03	0.732805
13	rs4550321	15	rs4076907	5.74E-03	0.707714
1	rs12125340	6	rs9295140	5.77E-03	0.632749
2	rs4027132	5	rs27000	5.81E-03	0.545091
1	rs215773	5	rs4400148	5.82E-03	0.838206
6	rs1029123	9	rs7872727	5.83E-03	0.368682
2	rs4234123	6	rs686786	5.85E-03	NA
11	rs4922556	12	rs11044100	5.85E-03	0.854300
2	rs2576742	2	rs4849413	5.85E-03	0.767517
15	rs7163502	19	rs7248493	5.88E-03	NA
11	rs2201845	19	rs7247513	5.91E-03	0.154656
3	rs6439389	10	rs10905203	5.94E-03	0.530220

5	rs411172	10	rs10994548	5.95E-03	0.746162
1	rs6604643	2	rs4280420	5.97E-03	0.190198
3	rs7624830	4	rs6850978	5.98E-03	0.202477
3	rs33528	12	rs10848636	6.00E-03	0.500826
1	rs736861	2	rs17248501	6.06E-03	0.594800
8	rs3019878	15	rs999742	6.07E-03	0.496771
9	rs888230	20	rs1885290	6.08E-03	0.082871
1	rs6691577	8	rs731589	6.12E-03	0.866605
6	rs954753	14	rs10438244	6.12E-03	0.147341
7	rs2355066	15	rs17841201	6.13E-03	0.198778
2	rs4280420	9	rs10982256	6.13E-03	0.817475
20	rs3761218	21	rs2823032	6.15E-03	0.034319
4	rs7691186	11	rs356242	6.15E-03	0.889618
4	rs965253	13	rs4550321	6.16E-03	0.672794
6	rs686786	22	rs688034	6.19E-03	0.124059
7	rs2402752	21	rs2830549	6.19E-03	NA
5	rs5009031	7	rs2526100	6.20E-03	0.319981
3	rs6762678	11	rs10742161	6.22E-03	0.710901
3	rs906482	12	rs10848636	6.23E-03	0.258635
3	rs6762678	10	rs17537423	6.26E-03	0.624590
2	rs4027132	6	rs7763010	6.27E-03	0.843613
6	rs13196792	11	rs4922556	6.29E-03	0.913442
1	rs4628571	14	rs10431700	6.30E-03	0.481599
5	rs5009031	10	rs10764062	6.36E-03	0.798944
14	rs7159947	21	rs2823032	6.39E-03	0.119322
16	rs4784508	19	rs7408169	6.39E-03	NA
5	rs411172	17	rs2017854	6.39E-03	0.240363
12	rs11104939	17	rs203076	6.42E-03	NA
11	rs2514890	18	rs8096537	6.43E-03	0.427318
8	rs9643449	18	rs7240747	6.45E-03	0.782680
2	rs2292388	7	rs2526100	6.45E-03	0.471687
10	rs4750934	15	rs999742	6.50E-03	0.586897
1	rs215773	15	rs7163502	6.53E-03	NA
12	rs7975892	14	rs964431	6.54E-03	NA
6	rs9346240	21	rs2823032	6.59E-03	0.402364
4	rs12640371	15	rs901130	6.59E-03	NA
2	rs4641882	11	rs1392998	6.60E-03	0.668081
2	rs1375144	5	rs4400148	6.62E-03	0.145745
4	rs6856121	4	rs2055392	6.64E-03	0.826079
2	rs1375144	5	rs27000	6.66E-03	0.341043
4	rs10025322	11	rs4922556	6.67E-03	0.995946
11	rs10832653	21	rs229040	6.69E-03	0.452339
6	rs9295140	13	rs4550321	6.80E-03	0.337759
16	rs12149894	19	rs7247513	6.86E-03	0.872961

6	rs501241	18	rs12960691	6.88E-03	NA
11	rs10898976	16	rs3935873	6.90E-03	NA
14	rs6571488	22	rs17435801	6.93E-03	0.643613
6	rs6912394	14	rs964431	6.94E-03	NA
1	rs12130132	4	rs7691186	6.94E-03	NA
2	rs7573844	3	rs6439389	6.96E-03	0.359978
2	rs10187657	14	rs964431	6.99E-03	NA
6	rs501241	10	rs12356059	7.01E-03	NA
11	rs10898976	16	rs4784508	7.05E-03	NA
9	rs10989064	14	rs2354445	7.05E-03	0.150922
7	rs6972063	9	rs10982256	7.06E-03	0.185737
3	rs4134190	13	rs4550321	7.07E-03	0.887897
2	rs2292388	14	rs11626813	7.08E-03	0.260749
14	rs2293732	18	rs7240747	7.10E-03	0.026487
6	rs9370893	9	rs10989064	7.12E-03	0.672291
4	rs12640371	10	rs10826258	7.14E-03	NA
1	rs12130132	10	rs6602256	7.17E-03	NA
3	rs906482	8	rs3019878	7.20E-03	0.852517
2	rs11687654	20	rs1885290	7.21E-03	0.022609
5	rs1862618	8	rs6472997	7.23E-03	NA
7	rs2237318	13	rs4942472	7.26E-03	NA
10	rs12356059	11	rs7932890	7.30E-03	0.628033
1	rs12145699	12	rs11104939	7.35E-03	NA
13	rs1540460	17	rs2017854	7.36E-03	0.806189
18	rs8096537	18	rs7240747	7.41E-03	0.136853
4	rs2055392	14	rs7159947	7.43E-03	0.952682
10	rs1491192	18	rs12960691	7.43E-03	0.639217
8	rs7016497	14	rs2354445	7.48E-03	0.235302
3	rs1541855	8	rs10097578	7.49E-03	0.092797
6	rs700496	7	rs6972063	7.50E-03	0.076489
5	rs1428006	21	rs12482209	7.53E-03	NA
2	rs7562696	4	rs17147420	7.53E-03	0.726489
6	rs13196792	11	rs4938280	7.59E-03	0.987138
4	rs6856121	6	rs1029123	7.62E-03	0.951462
5	rs10060800	7	rs2402752	7.65E-03	0.462599
3	rs6443856	10	rs7899892	7.66E-03	0.624007
3	rs4858594	15	rs4420487	7.67E-03	0.074699
6	rs1171115	10	rs7896131	7.69E-03	0.807878
14	rs3784004	18	rs1893146	7.70E-03	0.364857
1	rs7534239	13	rs1638703	7.70E-03	0.015152
6	rs7763010	8	rs11787515	7.70E-03	0.322840
5	rs10060800	22	rs165650	7.71E-03	0.439791
4	rs12640371	11	rs10898976	7.73E-03	NA
4	rs12640371	11	rs4945441	7.80E-03	NA

12	rs11067270	15	rs17599989	7.82E-03	0.782134
1	rs736861	14	rs1568404	7.89E-03	0.029161
3	rs1541855	7	rs2774960	7.91E-03	0.937910
3	rs4627791	8	rs1993980	7.94E-03	NA
15	rs901130	19	rs10409187	7.97E-03	NA
3	rs11130858	5	rs27000	8.01E-03	0.347131
7	rs11976431	9	rs901992	8.02E-03	0.392365
7	rs2285757	21	rs229040	8.05E-03	0.822361
11	rs10790633	13	rs7333011	8.06E-03	0.523117
13	rs7333011	16	rs4782872	8.09E-03	0.379863
16	rs12149894	18	rs7239844	8.09E-03	NA
5	rs792975	9	rs7860900	8.10E-03	NA
11	rs2201845	14	rs2354445	8.13E-03	0.208301
8	rs3019878	14	rs964431	8.14E-03	NA
13	rs1149839	19	rs2061332	8.15E-03	0.209182
10	rs2096285	18	rs12960691	8.17E-03	0.361911
1	rs12145699	11	rs11223704	8.18E-03	NA
2	rs6750543	16	rs7187198	8.21E-03	0.650380
4	rs965253	14	rs17108400	8.22E-03	0.200560
3	rs7630226	18	rs8096537	8.27E-03	0.808377
3	rs2240920	13	rs1638703	8.28E-03	0.421652
3	rs6783478	19	rs2061332	8.28E-03	NA
1	rs396954	6	rs7763010	8.29E-03	0.904178
2	rs1344706	8	rs6472997	8.29E-03	NA
9	rs7872727	10	rs10905203	8.32E-03	0.106801
3	rs6439389	17	rs2108978	8.33E-03	0.604812
6	rs2763025	8	rs1993980	8.34E-03	NA
3	rs150219	19	rs2191566	8.40E-03	0.842660
5	rs1490796	6	rs9370893	8.42E-03	0.020963
2	rs10188509	18	rs11877435	8.44E-03	0.957795
4	rs6856121	16	rs3935873	8.45E-03	0.234255
10	rs12356059	14	rs6571488	8.49E-03	0.384833
14	rs2293732	19	rs10407941	8.50E-03	0.385960
5	rs2589653	7	rs2355066	8.51E-03	NA
10	rs1540956	14	rs8019107	8.52E-03	0.725337
2	rs2576742	2	rs6750543	8.53E-03	0.040225
2	rs2576742	17	rs2108978	8.56E-03	0.848608
9	rs888230	11	rs10832653	8.57E-03	0.600747
1	rs12145699	13	rs1638703	8.57E-03	NA
14	rs17197037	19	rs7408169	8.59E-03	NA
1	rs3896178	8	rs7016497	8.60E-03	0.180519
2	rs2576742	11	rs4945441	8.61E-03	0.095373
1	rs6665548	11	rs7932890	8.61E-03	0.292432
3	rs2900668	10	rs10764062	8.62E-03	0.740476

2	rs10182324	20	rs6031991	8.62E-03	0.169110
3	rs2033701	7	rs6972063	8.63E-03	0.746827
10	rs10905203	19	rs11672395	8.64E-03	0.532510
2	rs4666562	5	rs10041283	8.67E-03	0.796375
3	rs6783478	19	rs2191566	8.68E-03	NA
8	rs1545453	14	rs8011085	8.73E-03	0.009848
5	rs1211159	17	rs2108978	8.74E-03	0.162176
5	rs792975	9	rs4879540	8.75E-03	NA
11	rs10832653	19	rs2191566	8.78E-03	0.736131
8	rs16919670	19	rs1048123	8.79E-03	0.297741
1	rs11207909	10	rs6602256	8.80E-03	0.214119
2	rs4027132	14	rs1568404	8.80E-03	0.106101
5	rs255375	6	rs9346240	8.82E-03	0.260188
1	rs4628571	3	rs906482	8.82E-03	0.732290
3	rs1541855	4	rs2055392	8.83E-03	0.966805
2	rs3754895	18	rs614841	8.84E-03	0.753119
3	rs2033701	19	rs759071	8.86E-03	0.375367
8	rs16919670	17	rs4924803	8.88E-03	0.288131
6	rs17739564	8	rs12056374	8.89E-03	0.794760
10	rs1892302	17	rs2017854	8.90E-03	0.618732
6	rs17739564	13	rs179356	8.91E-03	0.340191
4	rs6819526	4	rs6850978	8.91E-03	0.114883
3	rs4134190	15	rs12595660	8.92E-03	0.558420
2	rs17248501	14	rs10438244	8.95E-03	0.211406
10	rs788261	14	rs964431	9.08E-03	NA
1	rs6691577	4	rs6850978	9.09E-03	0.940205
10	rs10826258	15	rs901130	9.10E-03	0.232702
3	rs4627791	11	rs4945441	9.10E-03	0.963430
4	rs4956324	19	rs10407941	9.13E-03	0.145525
2	rs4666562	11	rs4945441	9.14E-03	0.817617
1	rs6604643	10	rs10905203	9.15E-03	0.542414
8	rs10504768	15	rs999742	9.16E-03	0.613979
1	rs7534239	5	rs3934500	9.18E-03	0.155082
7	rs6972063	19	rs2061332	9.18E-03	0.406131
2	rs10182324	19	rs759071	9.19E-03	0.986082
2	rs7570682	19	rs1048123	9.19E-03	0.607919
3	rs2900668	6	rs1171115	9.20E-03	0.554435
16	rs4784508	19	rs7247513	9.26E-03	0.819615
5	rs792975	10	rs3121466	9.26E-03	0.397662
8	rs10504768	14	rs2354445	9.27E-03	0.126875
6	rs1171115	11	rs2201845	9.30E-03	0.928868
6	rs1029123	14	rs17108400	9.30E-03	0.987544
7	rs17568678	10	rs17537423	9.33E-03	0.568105
1	rs12145699	14	rs17442995	9.33E-03	NA

1	rs215773	11	rs4372426	9.33E-03	NA
3	rs906482	3	rs779331	9.38E-03	NA
4	rs12640371	21	rs229040	9.44E-03	NA
2	rs10182324	20	rs1885290	9.46E-03	0.830420
9	rs4879540	13	rs12584910	9.46E-03	NA
4	rs11098416	11	rs4922556	9.53E-03	0.241785
13	rs179356	18	rs11877435	9.55E-03	0.736126
1	rs215773	11	rs1392998	9.56E-03	0.481239
9	rs10812869	11	rs4922556	9.58E-03	0.901587
1	rs7519141	10	rs10764062	9.60E-03	0.715408
1	rs207190	2	rs4280420	9.63E-03	NA
18	rs614841	19	rs2061332	9.70E-03	0.142854
14	rs17108400	18	rs9947947	9.73E-03	0.157984
1	rs2989476	12	rs1245652	9.76E-03	0.154531
6	rs1006997	14	rs2354445	9.76E-03	0.778838
10	rs10826258	21	rs12482209	9.78E-03	0.833321
4	rs6850978	9	rs888230	9.79E-03	0.093060
12	rs11104939	14	rs17197037	9.84E-03	NA
14	rs2354445	21	rs417836	9.84E-03	NA
5	rs10041283	9	rs7872727	9.86E-03	0.773722
9	rs1573257	14	rs17442995	9.86E-03	0.664014
11	rs356242	18	rs1893146	9.87E-03	0.409772
9	rs901992	9	rs10979540	9.88E-03	0.940376
1	rs207190	2	rs7570682	9.92E-03	NA
1	rs12130132	22	rs11089599	9.95E-03	NA

Table S2. The top significant ($p \leq 10^{-5}$) interactions based upon all variants in *ANK3* tested against the rest of the genome in the WTCCC un-pruned data and the corresponding interaction p-values in GAIN dataset.

chr1	snp1	chr2	snp2	p_WTCCC	p_GAIN
10	rs7077937	18	rs1597850	2.37E-06	0.001925119
10	rs12413212	6	rs13207025	3.17E-06	0.011350482
10	rs11596260	18	rs1597850	1.92E-06	0.013997445
10	rs3213829	7	rs7780479	8.30E-06	0.02298822
10	rs3213829	1	rs603794	9.01E-06	0.025312465
10	rs7098008	14	rs10483877	5.06E-06	0.049359865
10	rs7086260	14	rs4996830	6.79E-06	0.051664724
10	rs1981251	11	rs4910085	2.68E-06	0.053315317
10	rs12357206	5	rs250100	7.49E-06	0.061647744
10	rs2018783	2	rs6713577	4.44E-06	0.103564611
10	rs2018783	12	rs11109339	2.48E-06	0.108976702
10	rs2018783	2	rs11683668	9.73E-06	0.141679375
10	rs6479707	4	rs6536694	7.51E-06	0.182461392
10	rs7098008	14	rs11623512	9.23E-06	0.18448778
10	rs1981251	11	rs715059	2.72E-06	0.236290365
10	rs12767186	11	rs1550617	4.80E-06	0.241346811
10	rs17805456	18	rs16953853	5.09E-06	0.262020669
10	rs1981251	5	rs2453828	9.57E-06	0.278657911
10	rs10740011	2	rs2121301	7.42E-06	0.283622649
10	rs10761488	13	rs4625581	1.92E-06	0.297133525
10	rs17805456	18	rs16953869	5.01E-06	0.307354597
10	rs10821659	8	rs2916755	1.11E-06	0.324921817
10	rs4948256	8	rs4738836	1.35E-06	0.334287848
10	rs10821659	8	rs3020210	8.60E-06	0.369496844
10	rs10994259	8	rs2340768	9.12E-06	0.382026879
10	rs7077937	18	rs549104	5.97E-06	0.386916972
10	rs7907721	13	rs4772030	5.14E-06	0.398607592
10	rs17805456	1	rs4970988	7.35E-06	0.42046779
10	rs7906905	8	rs2916755	8.85E-06	0.422507245
10	rs10994259	8	rs13279907	8.97E-06	0.449734918
10	rs10994259	8	rs2441872	5.17E-06	0.460048796
10	rs7896287	4	rs2175397	1.90E-06	0.462476841
10	rs6479707	15	rs16975700	3.42E-06	0.466159123
10	rs7896287	4	rs6832987	2.14E-06	0.472552589
10	rs1340655	6	rs2146755	9.39E-06	0.474767398
10	rs7896287	4	rs3733558	2.51E-06	0.475680414
10	rs12357206	4	rs552582	6.07E-07	0.476597768
10	rs1340655	12	rs4963844	2.88E-06	0.484618098
10	rs3213829	9	rs7034055	5.10E-06	0.504159126
10	rs7070364	8	rs17236705	8.17E-06	0.513154344

10	rs12357206	4	rs442155	2.63E-06	0.540375762
10	rs17805456	18	rs1394360	2.12E-06	0.547567027
10	rs10821744	9	rs4741377	2.08E-06	0.551637531
10	rs1981251	8	rs6998544	1.02E-06	0.557893078
10	rs12767186	17	rs4793659	8.24E-06	0.563325863
10	rs10821744	9	rs4741376	2.95E-06	0.575701541
10	rs7896287	1	rs6701999	7.67E-06	0.58366994
10	rs4582919	9	rs2039052	8.69E-08	0.591244225
10	rs17805456	18	rs323099	1.70E-06	0.594125773
10	rs10821727	13	rs4625581	4.81E-06	0.596301499
10	rs1380455	9	rs4741377	1.97E-06	0.596801434
10	rs7901951	12	rs1039225	4.71E-06	0.611750654
10	rs2199209	13	rs4625581	5.04E-06	0.614076182
10	rs1380455	9	rs4741376	2.79E-06	0.622060598
10	rs12767186	17	rs17783280	9.22E-06	0.640394476
10	rs7901951	9	rs13292544	3.56E-06	0.656753743
10	rs11596260	20	rs275292	1.35E-07	0.665409398
10	rs11596260	12	rs1444096	7.93E-06	0.673179764
10	rs7072841	9	rs4741377	1.44E-06	0.673370298
10	rs4147263	9	rs4741377	7.01E-06	0.699395901
10	rs10821731	9	rs2039052	1.05E-07	0.701248047
10	rs7072841	9	rs4741376	2.05E-06	0.701750489
10	rs10821729	9	rs2039052	6.61E-08	0.726545072
10	rs4147263	9	rs4741376	9.87E-06	0.727159303
10	rs1981251	8	rs10955734	1.45E-06	0.740130289
10	rs10994310	13	rs4625581	2.11E-06	0.762212485
10	rs7901951	15	rs16949647	2.36E-06	0.765909377
10	rs17805456	1	rs2272214	3.95E-06	0.768664226
10	rs10994310	11	rs7924341	4.38E-06	0.772918618
10	rs4620673	13	rs4625581	2.05E-06	0.789435707
10	rs1981251	8	rs2884250	7.60E-07	0.792276953
10	rs10821731	9	rs4741377	3.99E-09	0.792868877
10	rs10821731	9	rs4741376	6.75E-09	0.79570181
10	rs4520549	13	rs4625581	1.17E-06	0.807146372
10	rs7096426	13	rs4625581	2.01E-06	0.807404994
10	rs10994259	1	rs478492	9.91E-06	0.811994725
10	rs7096426	11	rs7924341	4.66E-06	0.815877076
10	rs10821729	9	rs4741377	2.46E-09	0.824579767
10	rs4620673	11	rs7924341	3.32E-06	0.825630281
10	rs2393625	13	rs4625581	2.70E-06	0.828114757
10	rs10821729	9	rs4741376	4.19E-09	0.830225127
10	rs10740011	2	rs13009328	2.10E-06	0.834343452
10	rs10821730	13	rs4625581	2.99E-06	0.835298846
10	rs10994259	1	rs587026	7.37E-06	0.837734689

10	rs4520549	11	rs7924341	4.44E-06	0.859084148
10	rs10821731	9	rs1008943	3.63E-08	0.865169305
10	rs7070364	8	rs1483179	8.49E-06	0.868067245
10	rs4582919	9	rs4741377	3.32E-09	0.889295263
10	rs10821727	11	rs7924341	5.78E-06	0.892999608
10	rs4582919	9	rs4741376	5.62E-09	0.893278084
10	rs11596260	14	rs1959527	2.30E-06	0.895598502
10	rs3750800	2	rs6745675	3.19E-06	0.901033003
10	rs2393625	11	rs7924341	4.22E-06	0.901766108
10	rs10761488	11	rs7924341	3.72E-06	0.909525702
10	rs991405	11	rs7924341	4.29E-06	0.9142397
10	rs7906905	10	rs2999333	9.83E-06	0.926019045
10	rs10821729	9	rs303727	9.90E-06	0.949025163
10	rs10821729	9	rs1008943	2.24E-08	0.954078455
10	rs7070364	8	rs9298059	5.46E-06	0.955082194
10	rs991405	13	rs4625581	1.20E-06	0.958322616
10	rs7907721	1	rs1198589	8.76E-06	0.967232641
10	rs1340655	1	rs508992	8.48E-06	0.970133161
10	rs4582919	9	rs1008943	2.54E-08	0.972842527
10	rs1340655	1	rs478492	8.05E-06	0.983825399
10	rs1340655	1	rs587026	4.99E-06	0.989850118
10	rs17805456	1	rs3768015	4.86E-06	0.989919093
10	rs10821730	11	rs7924341	5.14E-06	0.999049584
10	rs10761452	14	rs1959527	7.57E-06	NA
10	rs10761452	18	rs1597850	5.53E-07	NA
10	rs10761452	20	rs275292	5.63E-08	NA
10	rs10994209	2	rs13009328	3.64E-06	NA
10	rs17805456	1	rs12401316	7.82E-06	NA
10	rs10821700	1	rs7414981	4.86E-06	NA
10	SNP_A-2288436	1	rs7414981	2.28E-06	NA
10	rs7908312	1	rs7414981	3.22E-06	NA
10	rs10821707	1	rs7414981	7.22E-06	NA
10	rs10821713	1	rs1073712	5.69E-06	NA
10	rs10821713	1	rs1324364	9.68E-06	NA
10	rs10821713	1	rs2806541	9.95E-06	NA
10	rs10821713	2	rs1992881	1.41E-06	NA
10	rs10821713	8	rs2884250	5.09E-06	NA
10	rs991405	12	rs6539127	6.57E-06	NA
10	rs10821730	12	rs6539127	5.39E-06	NA
10	rs4520549	12	rs6539127	2.77E-06	NA
10	rs4620673	12	rs6539127	5.37E-06	NA
10	rs10761488	12	rs6539127	5.67E-06	NA
10	rs10994310	12	rs6539127	4.90E-06	NA
10	rs7096426	12	rs6539127	4.93E-06	NA

10	rs2393625	12	rs6539127	4.57E-06	NA
10	SNP_A-2094979	2	rs7567215	1.51E-06	NA
10	rs7896287	4	rs4532258	2.57E-06	NA
10	rs7896287	4	SNP_A-1804351	3.85E-06	NA
10	rs7896287	4	SNP_A-2218634	1.64E-06	NA

Table S3. The top significant ($p \leq 10^{-5}$) interactions based upon strongest associated SNPs in *ANK3* (rs1938526, $p = 1.3 \times 10^{-8}$) and in *CACNA1C* (rs1006737, $p = 7.0 \times 10^{-8}$) against the whole genome in the WTCCC data and the corresponding interaction p-values in the GAIN data.

	CHR1	SNP1	CHR2	SNP2	P_WTCCC	P_GAIN
<i>ANK3</i>						
	10	rs1938526	15	rs7176022	7.67E-08	0.427982
	10	rs1938526	15	rs6495126	1.73E-06	0.280345
	10	rs1938526	15	rs2472299	2.44E-06	0.319215
	10	rs1938526	15	rs2472300	3.83E-06	0.296906
	10	rs1938526	3	rs12638324	5.02E-06	0.230296
	10	rs1938526	3	rs8177272	8.70E-06	0.464671
	10	rs1938526	3	rs4854762	8.80E-06	0.354231
	10	rs1938526	3	rs7638018	9.11E-06	0.450873
<i>CACNA1C</i>						
	12	rs1006737	8	rs10090710	8.44E-07	0.42207
	12	rs1006737	8	rs1391466	1.26E-06	0.446011

Table S4. The top significant ($p \leq 0.01$) interactions among all SNPs in genes encoding dihydropyridine-sensitive calcium channel subunits (not LD pruned, $N = 204$) without selecting on the basis of p -values in the WTCCC data and the corresponding interaction p -values in the GAIN data.

chr1	snp1	chr2	snp2	p_WTCCC	p_GAIN
1	rs3767499	12	rs2239087	5.18E-03	0.005928947
1	rs4915475	12	rs2239087	1.64E-03	0.009503958
1	rs4915475	12	rs1860095	9.19E-03	0.015195373
1	rs12737822	3	rs2077167	3.11E-03	0.020595999
1	rs4915215	12	rs7302743	6.71E-03	0.026846366
3	rs6794085	12	rs2239074	6.62E-03	0.028515324
3	rs6794085	7	rs2237511	2.87E-03	0.031100823
7	rs10486945	7	rs42237	7.37E-03	0.034467553
12	rs2238043	12	rs2239061	3.13E-03	0.039424495
7	rs1157097	7	rs42237	7.85E-03	0.043760221
7	rs1862124	12	rs2238070	1.55E-03	0.044708954
3	rs6763245	7	rs2097915	1.66E-03	0.052734258
3	rs6763245	7	rs2237511	2.53E-03	0.069208855
1	rs4915215	3	rs11719179	2.46E-03	0.077128635
7	rs10486945	7	rs13245449	3.38E-03	0.106819057
7	rs1862124	12	rs3819526	6.32E-03	0.113614308
3	rs979220	12	rs1108385	6.55E-03	0.11377533
7	rs10486945	7	rs12707486	3.44E-03	0.114644671
7	rs1157097	7	rs13245449	2.53E-03	0.114881589
7	rs2097915	7	rs17180597	3.85E-03	0.121682797
7	rs1157097	7	rs12707486	2.46E-03	0.123024934
3	rs979220	12	rs2238083	7.40E-03	0.128603877
1	rs6689533	3	rs11721212	6.25E-03	0.135732183
3	rs2077167	7	rs2237511	1.53E-03	0.141680672
12	rs4370987	12	rs2239074	3.26E-03	0.145345244
7	rs17821377	7	rs2190237	3.55E-03	0.147487618
3	rs6794085	7	rs2097915	3.10E-04	0.148185872
7	rs17832393	7	rs2190237	1.34E-03	0.14851036
3	rs3774491	7	rs2237511	5.61E-03	0.151348312
3	rs979220	12	rs2238079	3.06E-03	0.153009215
7	rs1157097	12	rs1034936	7.13E-03	0.157928654
3	rs898415	7	rs2237511	4.90E-03	0.158308803
7	rs2097915	7	rs12670011	9.23E-03	0.16198482
7	rs2097915	7	rs12669716	1.86E-03	0.16384804
3	rs2077167	7	rs2097915	2.82E-04	0.166306859
3	rs1380606	7	rs2237511	4.95E-03	0.16698542
3	rs3774570	12	rs2239074	9.79E-03	0.172310159
3	rs898416	7	rs2237511	4.17E-03	0.182648131
7	rs2097915	7	rs12533606	9.83E-03	0.185302455

12	rs2239015	12	rs6489375	4.95E-03	0.186528036
7	rs17821377	7	rs1468400	3.24E-03	0.19368451
7	rs17832393	7	rs1468400	1.36E-03	0.194555112
7	rs10231240	12	rs6489375	7.39E-03	0.194593065
3	rs7617553	7	rs12533606	8.93E-03	0.201511615
1	rs10494827	7	rs258728	1.68E-03	0.209270591
7	rs17821377	7	rs7788848	4.36E-03	0.211357773
7	rs17832393	7	rs7788848	1.88E-03	0.212271516
12	rs11062161	12	rs929492	6.90E-03	0.214256029
7	rs42342	12	rs2238056	9.28E-03	0.2165161
7	rs7800392	7	rs2190237	3.64E-03	0.221706684
12	rs2239030	12	rs929492	4.85E-03	0.236824311
12	rs2370411	12	rs4765679	5.91E-03	0.237018429
7	rs17821377	7	rs978326	2.59E-03	0.23733928
7	rs17832393	7	rs978326	1.20E-03	0.238115398
7	rs42049	12	rs2238056	9.48E-03	0.249499917
7	rs3801740	12	rs10774037	7.86E-03	0.253279311
3	rs979220	3	rs13076366	7.06E-03	0.255066864
7	rs7800392	7	rs7788848	4.95E-03	0.255657427
7	rs3801767	12	rs2238070	2.95E-03	0.256924516
3	rs979220	3	rs11719179	4.02E-03	0.257648782
7	rs2237511	7	rs17180597	9.69E-03	0.2648796
7	rs929381	7	rs12533606	8.93E-03	0.265884855
7	rs929381	7	rs17180597	3.23E-03	0.267956155
7	rs12533606	7	rs42237	7.29E-03	0.270683353
3	rs3774425	12	rs2239109	4.73E-03	0.275621116
1	rs10920106	12	rs4765663	1.18E-03	0.275802876
7	rs10486945	12	rs1034936	3.72E-03	0.276213284
7	rs7800392	7	rs1468400	3.69E-03	0.281238555
7	rs929381	7	rs12707486	8.95E-03	0.28915372
3	rs898415	7	rs2097915	2.73E-03	0.289869444
7	rs3801742	12	rs10774037	9.43E-03	0.289872065
12	rs2238043	12	rs4765679	9.19E-03	0.296572757
3	rs3774491	7	rs1862124	9.36E-03	0.296841358
3	rs898416	7	rs2097915	2.46E-03	0.298909919
7	rs10215394	12	rs1558322	2.55E-03	0.300653233
3	rs3774491	7	rs2097915	2.90E-03	0.300745492
3	rs1380606	7	rs2097915	2.73E-03	0.301053216
12	rs2239015	12	rs876503	9.21E-03	0.306296311
7	rs17821377	7	rs12531682	6.62E-03	0.307020608
7	rs17832393	7	rs12531682	2.99E-03	0.309367703
3	rs979220	3	rs2612015	6.84E-03	0.320558136
7	rs10486945	7	rs2368021	7.55E-03	0.321774659
7	rs2237511	7	rs12669716	6.46E-03	0.326659288

3	rs9841978	12	rs3794299	3.58E-03	0.335513305
7	rs7800392	7	rs978326	2.96E-03	0.336404975
7	rs929381	7	rs13245449	6.29E-03	0.337751107
12	rs2370411	12	rs1860091	5.85E-03	0.350911839
7	rs12670011	7	rs42237	5.30E-03	0.352730395
7	rs1157097	7	rs2368021	5.44E-03	0.360494574
1	rs3767511	7	rs10257186	9.84E-03	0.375261959
3	rs9841978	7	rs12707486	2.01E-03	0.380733888
7	rs7800392	7	rs12531682	7.47E-03	0.390770872
3	rs9841978	7	rs13245449	3.11E-03	0.396388449
12	rs10848628	12	rs11062192	2.67E-03	0.398505491
3	rs979220	3	rs2029331	6.75E-03	0.398842329
12	rs1558322	12	rs2239074	1.98E-03	0.402133277
3	rs12487452	7	rs10808299	9.58E-03	0.409306152
3	rs2359133	7	rs10272958	1.22E-03	0.410335899
7	rs10272958	12	rs4765914	6.98E-03	0.41389273
7	rs1859543	12	rs2239079	3.29E-03	0.41988526
7	rs17180597	7	rs10215394	3.51E-03	0.421761041
7	rs10272958	12	rs10774037	4.14E-03	0.422948552
3	rs3774473	7	rs2097915	4.37E-03	0.422955824
7	rs17832393	7	rs7781562	2.59E-03	0.434141699
7	rs3801767	12	rs3819526	9.15E-03	0.446002807
7	rs3823920	12	rs1034936	4.62E-03	0.446536427
7	rs17821377	7	rs7781562	6.43E-03	0.453904981
1	rs10920106	12	rs10848608	8.55E-03	0.467373906
7	rs12669716	12	rs10774037	9.01E-03	0.47944616
7	rs12669716	7	rs10215394	2.18E-03	0.482637031
3	rs2359133	7	rs3801740	6.43E-04	0.486156441
7	rs929381	7	rs12669716	2.47E-03	0.494776828
3	rs6763245	7	rs1862124	7.90E-03	0.499236844
12	rs1558322	12	rs2370515	1.75E-03	0.50301869
12	rs7302743	12	rs876503	5.84E-03	0.504838961
7	rs10231240	7	rs6977982	3.04E-03	0.50877105
7	rs12533606	12	rs2370413	8.10E-03	0.509620006
7	rs12533606	12	rs10774037	2.15E-03	0.514596723
3	rs2612015	7	rs3823920	9.97E-03	0.51754947
7	rs17832393	7	rs42049	8.57E-03	0.524852858
3	rs9841978	7	rs2368021	3.36E-03	0.526829991
1	rs3767499	7	rs258728	1.24E-03	0.535533845
7	rs12533606	12	rs4765914	3.69E-03	0.537647185
12	rs2887780	12	rs1122784	6.82E-03	0.537696339
7	rs10257186	7	rs12533606	8.65E-03	0.545077296
1	rs3767511	7	rs10808299	6.23E-03	0.547810639
7	rs10808299	12	rs4765882	8.74E-03	0.551490322

7	rs929381	7	rs2368021	8.13E-03	0.555962482
12	rs10848635	12	rs11062192	3.54E-03	0.55873139
7	rs37118	7	rs6977982	5.77E-03	0.559104058
7	rs17832393	7	rs42489	9.50E-03	0.559489535
7	rs37119	7	rs6977982	4.31E-03	0.569095785
3	rs7649275	12	rs4765679	6.20E-03	0.573680774
3	rs2359133	7	rs3801742	4.65E-04	0.57880747
1	rs6677721	7	rs10808299	3.71E-03	0.579129439
7	rs12670011	12	rs2370413	5.98E-03	0.586360563
1	rs12737822	3	rs6794085	4.55E-03	0.601718191
7	rs17832393	7	rs42342	9.56E-03	0.601986563
1	rs6677721	7	rs11514983	9.83E-03	0.603658602
1	rs4915475	7	rs1862124	8.24E-03	0.609514713
12	rs12423277	12	rs11062192	7.46E-03	0.609822772
3	rs3774589	7	rs6975142	9.91E-03	0.612962765
7	rs12670011	12	rs1006737	8.54E-03	0.613465651
7	rs10257186	7	rs12670011	8.61E-03	0.619297132
12	rs10848632	12	rs11062192	1.57E-03	0.623409189
7	rs7800392	7	rs7781562	6.59E-03	0.634552096
7	rs12670011	12	rs10774037	2.21E-03	0.640902073
3	rs2633727	12	rs4765679	6.66E-03	0.641319582
7	rs12670011	12	rs4765914	3.80E-03	0.642755395
12	rs10848633	12	rs11062192	2.57E-03	0.653744309
3	rs3774581	7	rs3801742	3.75E-03	0.655632293
7	rs3801712	12	rs758116	1.16E-03	0.657850142
3	rs6803827	7	rs1862124	9.75E-03	0.66559014
12	rs10848636	12	rs11062192	2.93E-03	0.666556614
12	rs10848634	12	rs11062192	2.46E-03	0.66917972
7	rs12670011	12	rs4765905	6.16E-03	0.674956192
12	rs4765902	12	rs11062192	2.45E-03	0.678716292
12	rs2887780	12	rs2370515	8.75E-03	0.681964299
12	rs2238043	12	rs10848634	8.71E-03	0.683687879
7	rs17180597	12	rs10774037	5.36E-03	0.686045445
12	rs4765914	12	rs11062192	5.88E-03	0.687713833
3	rs3821865	7	rs6975142	8.48E-03	0.692805355
12	rs2238043	12	rs10848628	9.34E-03	0.694458923
12	rs4765680	12	rs929492	3.69E-03	0.69843513
7	rs38545	12	rs758116	4.44E-03	0.70798713
1	rs4915475	7	rs3801767	7.67E-03	0.711690836
12	rs2238054	12	rs11062192	2.07E-03	0.712460163
7	rs17180597	12	rs4765914	8.88E-03	0.713045847
7	rs12533606	7	rs10215394	7.77E-03	0.717301246
7	rs1859543	12	rs758116	7.64E-05	0.717675319
3	rs3774581	7	rs3801740	4.97E-03	0.721319488

12	rs2238043	12	rs10848633	7.86E-03	0.733339736
3	rs2077167	7	rs38564	1.34E-03	0.739958363
12	rs11062156	12	rs11062192	2.38E-03	0.740026333
1	rs6677721	7	rs929351	7.14E-03	0.742496576
7	rs1862124	7	rs258665	9.24E-03	0.743507741
7	rs12673314	12	rs10735008	3.46E-03	0.747887702
1	rs6689533	3	rs3774473	1.11E-03	0.74864007
12	rs2238043	12	rs2238054	4.37E-03	0.755631159
3	rs12487452	7	rs42237	4.29E-03	0.764395759
3	rs11719179	7	rs3823920	3.74E-03	0.76766838
12	rs2238043	12	rs4765902	7.93E-03	0.768252861
12	rs2238043	12	rs10848636	8.46E-03	0.769595155
12	rs10774037	12	rs11062192	9.08E-03	0.772684856
7	rs3779449	12	rs10735008	4.88E-03	0.774801333
7	rs12673314	12	rs4765678	9.32E-03	0.781950153
3	rs3774491	7	rs38564	3.24E-03	0.782845797
3	rs9841978	7	rs42237	2.14E-03	0.790760504
3	rs979220	7	rs10215394	7.42E-03	0.799878719
3	rs7649275	12	rs4765933	5.70E-03	0.806402587
12	rs2239030	12	rs11062192	4.27E-03	0.806896959
12	rs1558322	12	rs1122784	1.23E-03	0.80889598
12	rs1076346	12	rs2239109	6.25E-03	0.816911277
7	rs4732421	12	rs1108385	9.68E-03	0.824925274
3	rs898416	7	rs38564	3.13E-03	0.825209009
3	rs2029331	7	rs3823920	9.34E-03	0.825725914
12	rs2239074	12	rs929492	2.06E-03	0.826200505
3	rs10490772	12	rs1558322	7.88E-03	0.826362166
7	rs12670011	7	rs10215394	9.73E-03	0.833303834
7	rs12673314	12	rs2283308	5.19E-03	0.83854644
1	rs10920106	12	rs740416	3.82E-03	0.841975351
7	rs12673314	12	rs2239075	7.19E-03	0.844060157
3	rs898415	7	rs38564	3.29E-03	0.847515673
12	rs2238043	12	rs11062156	7.33E-03	0.854056351
12	rs11062225	12	rs4765678	2.76E-03	0.854815824
7	rs879660	7	rs6977982	4.11E-03	0.859443037
1	rs3767511	7	rs12707486	5.45E-03	0.865671632
7	rs3779449	12	rs2283308	8.04E-03	0.869454985
1	rs3767511	7	rs2368021	4.80E-03	0.87039846
7	rs3779449	12	rs2239075	9.99E-03	0.871624872
3	rs12487452	7	rs6975142	1.06E-05	0.875693982
3	rs2359133	7	rs12533606	9.85E-03	0.8791506
3	rs13076366	7	rs3823920	4.26E-03	0.880854447
3	rs2633727	12	rs4765933	6.11E-03	0.883514561
7	rs11514983	12	rs11062225	4.97E-03	0.885304591

3	rs1380606	7	rs38564	3.04E-03	0.891589224
12	rs11062225	12	rs10735008	3.52E-03	0.898706239
12	rs11062225	12	rs2239075	3.24E-03	0.926445719
1	rs10494827	7	rs879660	7.64E-03	0.931296328
12	rs2370411	12	rs11062156	8.73E-03	0.948979368
3	rs3774530	7	rs2097915	6.42E-03	0.955642899
12	rs2370411	12	rs10848633	9.23E-03	0.956520935
1	rs3767511	7	rs13245449	4.96E-03	0.95915965
12	rs2370411	12	rs2238054	5.30E-03	0.975115643
7	rs6977982	12	rs11062192	7.26E-03	0.985732676
1	rs10920115	12	rs4765663	6.55E-03	0.988844863
3	rs3774570	7	rs6975142	9.28E-03	0.988977904
12	rs2238043	12	rs10848635	7.48E-03	0.994496303
1	rs4915475	7	rs258728	4.58E-03	0.99476414
7	rs17832393	7	rs2237524	1.25E-03	NA
7	rs2368021	17	rs16537	1.53E-03	NA
12	rs1558322	12	rs11831085	1.90E-03	NA
7	rs929381	7	rs17264194	2.15E-03	NA
12	rs12422554	12	rs11062192	2.22E-03	NA
7	rs17821377	7	rs2237524	3.20E-03	NA
7	rs7800392	7	rs2237524	3.42E-03	NA
7	rs17264194	12	rs10774037	4.11E-03	NA
12	rs2239062	17	rs16537	4.66E-03	NA
7	rs17264194	12	rs4765914	5.36E-03	NA
7	rs17264194	7	rs10215394	7.08E-03	NA
7	rs17264194	12	rs4765905	7.56E-03	NA
3	rs979220	12	rs2238081	8.26E-03	NA
3	rs2359133	7	rs17264194	8.62E-03	NA
7	rs258664	12	rs11062192	8.77E-03	NA
12	rs2370411	12	rs12422554	8.77E-03	NA
3	rs7617553	7	rs17264194	9.43E-03	NA
7	rs2097915	7	rs17264194	9.62E-03	NA
7	rs4732421	12	rs2238081	9.78E-03	NA

Table S5. The top 1000 interaction results out of all possible SNP-SNP pair-wise interactions in the WTCCC data and the corresponding interaction p-values in the GAIN data.

chr1	snp1	chr2	snp2	p_WTCCC_BD	p_GAIN_BD
5	rs10066522	11	rs11234157	1.24E-07	NA
5	rs10066522	11	rs11234194	1.05E-07	NA
5	rs10075717	8	rs10086541	1.57E-07	0.968452076
5	rs10075717	8	rs10097930	1.24E-07	0.99481837
5	rs10075717	8	rs10098453	6.81E-08	0.95870963
5	rs10075717	8	rs11780931	7.83E-08	0.943622566
5	rs10075717	8	rs16917233	1.87E-07	0.95870963
5	rs10075717	8	rs6651272	9.22E-08	0.957557543
8	rs10090871	22	rs4823783	5.99E-09	NA
8	rs10098813	11	rs10502207	1.46E-08	0.647574168
8	rs10110893	17	rs1003407	9.45E-08	NA
8	rs10110893	17	rs9916038	4.56E-08	0.318332768
1	rs1015082	12	rs11179614	5.63E-08	NA
2	rs10176410	3	rs3796224	9.33E-08	0.101082963
2	rs10185293	6	rs1001768	4.83E-08	0.146521973
2	rs10185293	6	rs1254722	3.09E-08	0.176552105
2	rs10192099	7	rs1559012	7.13E-08	0.519046272
2	rs10192190	7	rs1559012	5.85E-08	0.508133912
16	rs1019254	20	rs6075469	1.36E-07	0.053178816
2	rs10208726	9	rs10512067	4.37E-08	0.100491197
2	rs10208726	9	rs10870047	1.49E-07	0.078825796
2	rs10208726	9	rs10870048	9.85E-07	0.078825796
2	rs10208726	9	rs7022404	3.65E-08	0.071442059
5	rs10214278	11	rs1559759	2.44E-08	NA
3	rs10222378	12	rs10876321	1.96E-08	0.18462372
3	rs10222378	12	rs1814640	3.11E-08	0.144315516
3	rs10222378	12	rs936955	3.31E-08	0.166655265
3	rs10222378	12	rs936956	2.12E-08	0.172412921
7	rs10247439	11	rs11033408	1.22E-07	NA
7	rs10269684	14	rs3861656	2.05E-07	0.324386443
7	rs10269684	14	rs3861658	1.96E-07	0.298690073
7	rs10269684	14	rs4462529	1.33E-07	0.16418648
20	rs1028542	21	rs17003996	1.55E-08	0.621865963
2	rs1030318	18	rs12961730	8.16E-09	0.407809404
8	rs1030420	18	rs664358	6.84E-08	0.537457286
10	rs1041044	16	rs13330883	5.04E-08	NA
5	rs10434643	5	rs2351749	2.01E-08	NA
6	rs10457128	9	rs12236539	2.18E-07	0.240852552
5	rs10463368	14	rs11625034	6.80E-08	0.069325003
5	rs10476596	11	rs1559759	2.94E-08	0.232438322
5	rs10476597	11	rs1559759	2.56E-08	0.275912516

6	rs10484268	18	rs7236264	4.56E-07	0.575415358
7	rs10486003	13	rs206079	1.87E-08	0.707183277
1	rs10493281	8	rs10098168	7.88E-08	0.158168865
1	rs10493281	8	rs11780228	6.39E-08	0.202273419
1	rs10494030	12	rs11044329	8.25E-08	0.385257768
1	rs10494030	12	rs9669436	4.39E-08	0.571019706
2	rs10495595	3	rs10510620	4.04E-08	0.718456136
2	rs10497467	6	rs7742524	6.56E-08	0.157645429
19	rs10500251	20	rs1012800	1.19E-08	0.885350048
13	rs10507558	18	rs1662298	3.44E-08	0.54343165
3	rs10511345	10	rs3781490	2.92E-07	0.247196925
17	rs10512574	20	rs6135329	2.24E-08	0.505577071
3	rs10513366	12	rs10902528	8.89E-09	0.440499313
4	rs10519535	7	rs10229523	1.05E-08	0.844531231
4	rs10519535	7	rs10241688	2.52E-08	0.922731276
4	rs10519535	7	rs10242164	3.34E-08	0.940695624
4	rs10519535	7	rs10258186	3.32E-08	0.831484677
4	rs10519535	7	rs10270906	2.55E-08	0.958491951
4	rs10519535	7	rs1991771	1.24E-07	0.860225047
4	rs10519535	7	rs2116648	1.98E-08	0.84250618
4	rs10519535	7	rs7782942	1.55E-08	0.899048637
6	rs1060308	18	rs7236264	6.93E-07	0.497792751
4	rs1072776	10	rs12356817	1.49E-09	0.348914648
12	rs10735354	18	rs8088632	2.17E-07	0.472865341
1	rs10736392	2	rs7586500	6.52E-08	NA
11	rs10741819	20	rs1964825	7.59E-10	0.418753568
11	rs10741819	20	rs6128541	8.10E-09	0.331566095
10	rs10748657	13	rs1374483	1.07E-07	0.722304463
10	rs10748657	13	rs9569702	8.58E-08	NA
1	rs10749805	18	rs12327228	7.81E-09	0.583837611
1	rs10749805	18	rs8095325	1.30E-08	0.296399669
1	rs10753973	15	rs7166908	2.70E-08	0.163575183
11	rs10766570	11	rs12420524	5.33E-08	0.918444092
11	rs10766570	11	rs481926	4.23E-08	0.948539375
11	rs10766631	20	rs1964825	2.06E-08	0.699583027
10	rs10796289	15	rs1402135	9.11E-09	0.137602079
9	rs10810544	14	rs12885683	1.77E-08	0.107307202
12	rs10850875	21	rs12329657	2.76E-08	0.443441186
12	rs10850875	21	rs2822761	2.18E-08	0.529411152
12	rs10850875	21	rs2822765	2.16E-08	0.346258836
12	rs10850875	21	rs9980395	2.86E-08	0.577537086
12	rs10861572	21	rs2150425	3.81E-10	0.677916352
1	rs10864119	15	rs11854579	3.06E-09	0.531737199
1	rs10864119	15	rs7173883	2.50E-09	0.553017212

4	rs10866206	6	rs2235989	2.66E-08	0.337813412
1	rs10881418	21	rs461408	1.29E-08	0.517162942
1	rs10881424	21	rs461408	2.13E-08	0.791058127
1	rs10881425	21	rs461408	2.90E-08	0.784911782
10	rs10882810	13	rs1374483	1.11E-07	0.867649006
10	rs10882810	13	rs9569702	8.75E-08	NA
10	rs10884569	13	rs9530249	8.20E-08	NA
1	rs10890257	14	rs8014382	3.12E-08	0.36535202
11	rs10892014	12	rs11609114	2.13E-08	0.499397786
11	rs10892014	12	rs11610814	3.38E-08	NA
11	rs10892014	12	rs3815670	6.87E-09	0.402153917
11	rs10892015	12	rs11609114	3.52E-08	0.400635438
11	rs10892015	12	rs3815670	1.09E-08	0.31470137
11	rs10896448	14	rs4904477	2.43E-09	0.987540644
10	rs10904206	16	rs17240911	1.33E-08	0.402296663
1	rs10911530	11	rs17509332	4.85E-08	0.430424043
1	rs10912971	3	rs1382270	4.70E-08	0.507068338
1	rs10912971	3	rs1478312	2.21E-08	0.452082417
1	rs10912984	3	rs1382270	7.85E-08	0.499662564
1	rs10912984	3	rs1478312	4.38E-08	0.445246133
1	rs10927994	10	rs10887652	4.90E-08	0.390914929
1	rs10927996	10	rs10887652	2.97E-08	0.321507124
3	rs10935455	14	rs10143962	2.40E-07	0.73511582
4	rs10938163	9	rs4979282	1.56E-08	0.978109759
4	rs10938163	9	rs7046380	2.44E-08	0.535876557
5	rs10942678	16	rs7200764	4.77E-08	0.584326196
6	rs10944560	7	rs219248	1.00E-08	0.5008425
6	rs10944728	7	rs10225488	1.74E-07	0.433111855
6	rs10944728	7	rs10951319	9.88E-08	0.065324822
7	rs10953220	11	rs10501939	6.59E-08	0.351442572
9	rs10963302	10	rs4277057	1.58E-09	0.950756504
9	rs10966833	14	rs17754364	9.44E-08	0.814913177
9	rs10966833	14	rs17827183	4.68E-08	0.89355703
9	rs10966833	14	rs3861638	1.81E-08	0.71465637
9	rs10966833	14	rs3888674	4.49E-08	0.714011029
9	rs10975861	12	rs2909003	2.59E-08	0.091387804
10	rs10995706	11	rs704730	7.44E-08	0.020638255
2	rs1100393	8	rs13264970	8.12E-08	0.853042054
10	rs11012270	10	rs11015150	2.45E-08	0.31487035
10	rs11015150	10	rs11012270	2.45E-08	0.31487035
10	rs11017586	16	rs1974348	3.33E-08	0.644622783
10	rs11017586	16	rs783718	8.77E-08	0.910551478
4	rs1105397	4	rs716948	5.52E-08	0.254385666
12	rs11066737	13	rs1974255	9.09E-07	0.18228491

15	rs11072794	18	rs1943413	4.90E-08	0.464407463
17	rs11077488	20	rs6135329	2.29E-08	0.554362981
4	rs11097753	6	rs10946842	3.52E-09	0.956889657
2	rs11125897	12	rs6489228	1.86E-07	0.323183322
3	rs11128359	13	rs2094186	7.16E-08	0.637877947
4	rs11131763	6	rs2235989	2.95E-08	0.370704703
5	rs11134558	6	rs2504699	1.04E-07	0.769653748
6	rs11155819	20	rs6027742	5.69E-08	0.039520204
6	rs11155819	20	rs6027744	3.37E-08	0.034147078
6	rs11155819	20	rs6071313	2.88E-08	0.035622993
6	rs11155819	20	rs6071344	4.04E-08	0.98407829
6	rs11156311	20	rs2425627	2.39E-08	0.126899571
6	rs11156327	20	rs2425627	6.55E-08	0.032891022
1	rs11161987	4	rs17248887	1.35E-06	0.181440838
1	rs11166268	5	rs17333350	4.21E-08	0.014593539
1	rs11184933	21	rs461408	1.32E-08	0.757802796
1	rs11208830	14	rs2074932	3.54E-08	0.483639231
1	rs11209645	2	rs11123006	3.31E-08	0.571912841
11	rs11230463	15	rs1604335	7.30E-08	0.534131287
11	rs11230463	15	rs17737516	6.39E-08	0.51079419
11	rs11230463	15	rs17737569	3.63E-08	0.338760827
11	rs11230463	15	rs17799275	1.08E-07	0.630878321
10	rs11239271	10	rs531676	9.15E-08	0.558687191
7	rs1125484	8	rs11780203	7.85E-08	0.724987403
10	rs11255241	11	rs10501579	1.90E-09	0.345305684
10	rs11255241	11	rs12290883	7.52E-10	0.242369637
10	rs11255241	11	rs17147761	7.87E-10	0.34493348
10	rs11255241	11	rs1943719	6.71E-10	0.341790742
10	rs11255241	11	rs1943720	3.04E-10	0.378102681
10	rs11255242	11	rs10501579	2.05E-09	0.337829729
10	rs11255242	11	rs12290883	8.14E-10	0.236833135
10	rs11255242	11	rs17147761	8.52E-10	0.337543132
10	rs11255242	11	rs1943719	7.27E-10	0.334273787
10	rs11255242	11	rs1943720	3.29E-10	0.369886555
10	rs11255247	11	rs10501579	5.05E-09	0.63350567
10	rs11255247	11	rs12290883	3.07E-09	0.507080504
10	rs11255247	11	rs17147761	3.49E-09	0.644466766
10	rs11255247	11	rs1943719	1.73E-09	0.640529903
10	rs11255247	11	rs1943720	1.26E-09	0.769680626
14	rs1157500	17	rs6504972	6.19E-08	0.511213654
1	rs11582452	8	rs6987175	4.37E-07	0.432189763
8	rs1159199	10	rs11189420	2.80E-07	NA
10	rs11598476	21	rs2837652	2.62E-08	0.9055878
10	rs11599344	21	rs2837652	4.23E-08	0.973635793

12	rs11610896	18	rs1025910	7.98E-09	0.683964695
12	rs11610896	18	rs17747515	8.60E-09	0.810223766
12	rs11610896	18	rs8083764	3.50E-08	0.804245415
2	rs11675757	16	rs10431898	1.54E-08	0.331377526
2	rs11675929	7	rs2214050	2.36E-07	0.463556078
2	rs11679589	14	rs17812034	4.29E-09	0.631698451
2	rs11687710	13	rs7325115	1.19E-07	NA
3	rs11714828	13	rs2094186	1.22E-07	0.224444168
3	rs11718390	5	rs1433608	2.94E-08	0.55177091
5	rs11740229	16	rs2941346	1.03E-07	0.872418473
8	rs11787414	15	rs1372613	3.23E-09	0.730052191
1	rs11809428	1	rs4652362	1.02E-08	0.463406888
10	rs11818515	21	rs2837652	4.19E-08	0.514041658
11	rs11823120	18	rs1545723	7.39E-08	NA
2	rs11890940	5	rs17431464	1.03E-07	0.657448619
2	rs11898241	13	rs17597090	2.77E-08	0.693123155
2	rs11900660	12	rs1921120	3.61E-09	0.400717461
2	rs11900660	12	rs4628786	1.70E-08	0.385162572
3	rs11919495	12	rs10876321	2.49E-08	0.196829648
3	rs11919495	12	rs936956	2.29E-08	0.183836428
4	rs11947970	12	rs7300980	3.18E-08	0.701525281
5	rs11953164	9	rs10858294	9.04E-09	0.576646688
8	rs11994766	13	rs11619564	3.20E-08	0.436931328
1	rs12022837	2	rs12475055	9.27E-09	0.483724253
1	rs12035312	10	rs1620673	1.79E-08	NA
1	rs12038162	10	rs1903904	8.62E-08	0.221279372
1	rs12044560	1	rs4652362	5.67E-09	0.490927343
2	rs12052730	10	rs12764266	1.65E-07	NA
1	rs12077113	21	rs461408	4.55E-08	0.714547937
7	rs1207896	16	rs13330825	1.92E-08	0.26540347
2	rs12104998	5	rs10074987	8.12E-09	0.853808149
2	rs12104998	5	rs12656759	3.06E-08	0.90383954
2	rs12104998	5	rs3763116	2.28E-08	0.923593712
2	rs12104998	5	rs440970	2.45E-08	0.854956569
9	rs12115550	17	rs501957	1.65E-07	0.757659689
1	rs12131748	5	rs270654	1.38E-08	0.731926686
1	rs12135162	6	rs1485632	4.52E-08	0.402833538
1	rs12139398	20	rs4814208	9.08E-08	0.388186923
1	rs12139398	20	rs6134830	9.77E-08	0.477734961
7	rs12154666	10	rs1314014	2.72E-08	0.771438817
7	rs12154666	10	rs161279	1.26E-07	0.751922734
7	rs12154666	10	rs3737180	9.47E-08	0.856526865
7	rs12154666	10	rs7894459	4.39E-08	0.981321065
6	rs12195016	14	rs1998055	9.83E-08	NA

6	rs12206695	19	rs10402361	4.53E-08	0.058448391
6	rs12206695	19	rs10411165	8.51E-08	0.121120881
6	rs12206695	19	rs7253209	6.98E-08	0.206298619
6	rs12212981	14	rs4904828	1.23E-08	0.85425883
10	rs12219950	11	rs10501579	9.92E-09	0.464143007
10	rs12219950	11	rs12290883	2.09E-09	0.346098099
10	rs12219950	11	rs17147761	2.16E-09	0.463540428
10	rs12219950	11	rs1943719	1.85E-09	0.460003242
10	rs12219950	11	rs1943720	8.68E-10	0.501068377
10	rs12244837	11	rs721238	1.52E-07	0.010230776
11	rs12277667	12	rs10774202	2.86E-08	0.415871882
12	rs1239913	12	rs959926	1.80E-08	0.857227955
1	rs12406698	6	rs11154940	4.41E-07	0.774649973
1	rs12409665	4	rs11940728	3.58E-08	0.428425904
1	rs12409665	4	rs2241482	1.69E-09	0.787440354
1	rs12409665	4	rs3796822	2.96E-08	0.859202824
2	rs12474254	8	rs1567837	3.84E-10	NA
2	rs12474254	8	rs7829733	1.69E-09	NA
2	rs12474609	12	rs11609678	6.31E-08	0.10562674
2	rs124826	8	rs4872508	7.25E-09	0.773241488
4	rs12509348	6	rs10499127	2.16E-08	0.889549252
5	rs12519214	18	rs12604310	1.52E-08	0.534559994
7	rs12530666	9	rs10958921	1.02E-08	0.410853104
2	rs12612234	12	rs6489228	1.22E-07	0.301592076
2	rs12618884	7	rs38975	3.36E-08	0.201769941
3	rs12635421	13	rs2094186	6.96E-08	0.699075422
3	rs12635722	3	rs1486227	1.98E-06	0.461757817
3	rs12637622	22	rs2105865	1.61E-08	0.495442358
4	rs12645191	5	rs10900805	3.89E-08	0.414952855
4	rs12647157	4	rs382829	1.33E-06	0.950181261
4	rs12647157	4	rs390511	1.57E-06	0.780104529
4	rs12647157	4	rs398688	1.64E-06	0.73054752
4	rs12647157	4	rs425974	1.07E-06	0.663719193
5	rs12653413	16	rs3785349	9.65E-09	0.329235526
1	rs1265883	5	rs2215201	3.85E-08	0.463714839
8	rs12679092	11	rs10502207	8.68E-09	0.841857614
8	rs12679092	11	rs10891872	9.17E-09	0.902036213
9	rs12684405	22	rs2413298	1.06E-07	0.651200641
6	rs1269176	12	rs10880139	4.78E-08	0.453240253
6	rs1269176	12	rs1466790	1.48E-07	0.800184807
6	rs1269176	12	rs7316844	4.63E-08	0.846871909
2	rs12692873	7	rs38975	7.72E-08	0.372337481
7	rs12700545	22	rs3788477	3.75E-08	0.691945097
7	rs12701480	10	rs11018073	2.97E-08	0.922183384

7	rs12701480	10	rs11018078	1.55E-08	0.862890578
2	rs12713377	11	rs7933547	1.89E-08	0.166424594
1	rs12754103	6	rs7761956	2.67E-08	0.250018571
11	rs12799883	14	rs4904477	1.25E-09	0.975774464
14	rs12885749	18	rs626072	2.14E-08	0.811820594
2	rs12996442	6	rs6914480	5.45E-08	0.961369714
2	rs13030671	8	rs13256305	3.40E-08	0.1522801
3	rs13069904	10	rs2420054	3.62E-08	0.915683652
3	rs13079080	5	rs463247	3.03E-08	0.97360903
3	rs13089163	9	rs12352822	3.70E-08	0.252837255
4	rs13127779	12	rs10773648	1.45E-07	0.575596524
4	rs13152233	11	rs7939837	3.52E-08	0.147916265
2	rs1317902	6	rs2317966	1.05E-08	0.113611488
5	rs13180942	6	rs6907666	5.47E-09	0.19847828
6	rs13202942	13	rs10459348	6.74E-09	NA
6	rs13202942	13	rs1932913	8.10E-09	0.279527007
6	rs13218960	13	rs10459348	1.72E-09	NA
6	rs13218960	13	rs1932913	1.79E-09	0.201445052
8	rs1329798	13	rs9524925	2.84E-07	0.116369042
9	rs1330304	18	rs7228917	4.55E-08	0.932556735
10	rs1336433	21	rs2837652	3.16E-08	0.897217504
1	rs13374397	4	rs2202259	1.96E-07	0.684033289
1	rs13374397	4	rs7677623	8.16E-08	0.903105677
1	rs13376006	6	rs3757142	4.92E-07	0.189460337
1	rs13376006	6	rs3757146	4.91E-07	0.180295
1	rs13376006	6	rs3757148	4.66E-07	0.184631687
1	rs13376006	6	rs6912853	9.73E-07	0.155676316
2	rs13404973	16	rs3743617	8.24E-08	0.625470975
2	rs13405086	16	rs3743617	8.88E-08	0.579546959
2	rs13411119	11	rs7933547	8.00E-09	0.127747659
2	rs13423237	8	rs3815610	7.67E-09	0.797368761
5	rs1345732	14	rs17101094	1.48E-07	0.430836723
7	rs1358390	11	rs3781695	5.73E-08	0.219762621
1	rs1359468	16	rs2923139	3.50E-07	0.272886163
7	rs1360302	14	rs12879200	7.73E-09	0.218378002
7	rs1360302	14	rs4902608	1.14E-08	0.21894689
12	rs1362651	19	rs7359893	5.59E-09	0.366526858
2	rs1367295	5	rs10074987	1.77E-08	0.953991629
2	rs1367295	5	rs12656759	6.48E-08	0.802100142
2	rs1367295	5	rs3763116	4.86E-08	0.820745996
2	rs1367295	5	rs440970	5.50E-08	0.894187378
2	rs1368204	7	rs1559012	6.91E-08	0.541799326
3	rs1381828	11	rs2373550	5.77E-08	0.635197647
3	rs1393360	11	rs2860762	1.58E-08	0.551921687

4	rs1398940	10	rs10884341	1.49E-08	0.639197164
4	rs1398940	10	rs11193042	1.02E-08	0.663242825
4	rs1398940	10	rs12771665	7.79E-09	0.564315402
10	rs1414889	21	rs2837652	3.74E-08	0.837668827
6	rs1417587	18	rs3924849	1.94E-07	0.048981499
5	rs1430420	15	rs10751716	1.61E-06	0.16921951
2	rs1432219	11	rs7108536	4.68E-08	0.402391397
10	rs1435961	18	rs1868710	6.52E-08	0.673422319
10	rs1435961	18	rs921347	3.62E-08	0.646232339
3	rs1440518	7	rs286551	1.44E-07	0.385303834
15	rs1478214	22	rs762907	2.53E-08	NA
4	rs1483597	10	rs1361238	5.61E-10	0.055464758
1	rs1487522	4	rs10022745	1.12E-08	NA
1	rs1487522	4	rs4524459	9.32E-08	NA
6	rs1488	12	rs1049376	5.08E-09	0.91970269
6	rs1488	12	rs12814794	5.85E-10	0.544106685
1	rs1496023	11	rs10160552	2.16E-08	0.394059752
1	rs1496023	11	rs10831093	2.16E-08	0.370730003
1	rs1496023	11	rs7939460	3.18E-08	0.420685871
1	rs1496024	4	rs2955262	2.92E-09	0.166094311
1	rs1496024	4	rs2955267	3.98E-09	0.227138765
5	rs1505080	7	rs7777546	5.37E-08	NA
1	rs1514749	4	rs2955262	2.12E-08	0.1709493
1	rs1514749	4	rs2955267	7.65E-09	0.232306351
1	rs1533345	1	rs2282316	1.91E-08	0.60620769
1	rs1533345	1	rs7517197	3.52E-08	0.598279585
10	rs1537635	11	rs10501579	6.43E-10	0.33337938
10	rs1537635	11	rs12290883	9.14E-10	0.2328048
10	rs1537635	11	rs17147761	9.57E-10	0.333048729
10	rs1537635	11	rs1943719	4.76E-10	0.329949821
10	rs1537635	11	rs1943720	3.70E-10	0.365021947
2	rs1540369	5	rs153479	3.16E-08	0.332308317
1	rs1540964	16	rs2923139	2.29E-07	0.278782648
2	rs1542319	5	rs17431464	1.35E-07	0.575787409
6	rs1558592	7	rs10225488	1.82E-07	NA
1	rs1572999	2	rs919126	9.78E-07	0.031964685
4	rs1595856	13	rs7336862	6.00E-08	0.054940738
10	rs160052	12	rs7967877	2.23E-08	NA
8	rs1647311	18	rs17815006	2.29E-08	0.276585271
2	rs16829125	17	rs12952168	7.29E-08	0.284426677
2	rs16829125	17	rs216481	3.34E-08	0.246822455
2	rs16829125	17	rs216483	1.06E-08	0.297786079
2	rs16829125	17	rs216485	8.96E-09	0.36219285
2	rs16829125	17	rs719601	5.84E-08	0.206720666

2	rs16835141	20	rs2180681	3.55E-08	0.540067467
1	rs16840114	10	rs1248417	1.80E-09	0.799448387
1	rs16840972	3	rs2900641	5.95E-08	0.506375524
1	rs16841924	10	rs7427	1.29E-07	0.641665548
2	rs16855984	7	rs6462200	3.71E-08	NA
2	rs16862260	20	rs13041703	2.48E-08	0.41748458
5	rs16869392	13	rs12583307	1.12E-08	0.575466424
5	rs16869392	13	rs1335560	2.14E-08	0.614484822
5	rs16869392	13	rs9523163	9.10E-09	0.571574943
5	rs16869392	13	rs9523164	9.87E-09	0.451234179
5	rs16869392	13	rs9523167	9.55E-09	0.651932674
6	rs16883137	18	rs7236264	1.10E-06	0.610010464
6	rs16883896	18	rs7236264	8.41E-07	0.774652089
12	rs16915276	12	rs2717434	6.13E-08	0.754912944
9	rs16926157	15	rs11857129	1.35E-07	0.902298736
15	rs16940295	19	rs17704999	3.84E-08	0.1425003
16	rs16950703	17	rs2304496	5.76E-08	0.517042735
16	rs16950703	17	rs2304497	5.80E-08	0.620412559
2	rs17013302	3	rs697277	7.14E-08	0.060230861
2	rs17013306	3	rs103323	3.09E-07	0.021983266
2	rs17013306	3	rs697277	3.14E-08	0.039923779
2	rs17013458	3	rs103323	6.73E-08	0.029372271
2	rs17013458	3	rs697277	1.99E-08	0.052088151
1	rs17014930	3	rs2286720	3.06E-08	0.175483483
4	rs17015869	11	rs4421734	4.81E-08	0.501503895
2	rs17038861	12	rs7970014	6.87E-09	0.674197972
2	rs17049535	3	rs517452	1.44E-08	0.434590365
2	rs17049584	3	rs517452	7.38E-09	0.558622016
2	rs17050497	18	rs12961730	1.06E-08	0.706711221
9	rs17060497	17	rs7212458	4.83E-09	0.042418397
12	rs17099254	20	rs2260455	8.25E-08	0.5524039
5	rs17101705	14	rs11625034	3.02E-08	0.174112104
1	rs17103216	11	rs12806493	5.05E-09	0.559960831
1	rs1710807	12	rs11044329	8.08E-08	0.413275394
1	rs1710807	12	rs9669436	5.24E-08	0.654226493
5	rs17116175	11	rs11040220	2.72E-09	0.149289329
5	rs17116175	11	rs4758342	8.78E-09	0.149145157
5	rs17116175	11	rs4758351	9.26E-10	0.153252007
7	rs17133566	7	rs17133677	2.60E-06	0.605315173
7	rs17133677	7	rs17133566	2.60E-06	0.605315173
7	rs17152544	7	rs11760425	5.82E-08	0.915077977
5	rs17154410	6	rs9388860	3.60E-08	0.157428085
7	rs17170840	16	rs2903251	1.43E-07	0.688717119
12	rs17183465	13	rs1974255	1.45E-06	0.222734263

5	rs17184211	10	rs2438673	9.54E-10	0.347695254
8	rs17194239	10	rs11200306	1.62E-09	0.382102208
8	rs17194239	10	rs11200324	4.91E-10	0.435920355
8	rs17194239	10	rs4752630	7.18E-10	0.779579061
2	rs17202701	13	rs1556997	2.62E-08	0.116687191
1	rs1721533	4	rs10031159	8.45E-08	0.063688997
2	rs17226357	6	rs9472719	1.43E-07	0.843095716
2	rs17269126	3	rs517452	3.21E-09	0.469046715
11	rs17383466	18	rs1545723	6.70E-08	0.386832353
5	rs17386596	10	rs7916063	7.89E-08	0.535664514
2	rs17395091	5	rs1023681	2.88E-08	0.227937557
5	rs174047	6	rs17631240	2.46E-08	0.21268596
2	rs17413382	5	rs9291942	1.33E-08	0.017934163
2	rs17413382	5	rs9291943	1.60E-08	NA
2	rs17460149	3	rs155826	4.86E-07	0.678592122
12	rs17465265	18	rs11659484	3.34E-08	0.721782733
12	rs17465286	18	rs11659484	5.47E-08	0.693095749
11	rs17465787	18	rs1545723	3.60E-08	0.415287305
1	rs17509537	18	rs11872518	4.78E-09	0.254268081
2	rs17521078	5	rs440970	6.40E-08	0.90337574
4	rs17574213	18	rs561802	1.71E-07	0.546187064
1	rs17606320	11	rs10893354	6.06E-08	0.968713394
4	rs17608635	20	rs13039010	1.52E-08	0.098680294
6	rs17629180	18	rs7236264	4.38E-07	0.546208119
8	rs17640016	14	rs1043831	4.02E-08	0.489609363
8	rs17640016	14	rs11158709	4.35E-09	0.37352987
8	rs17640016	14	rs11628094	5.67E-09	0.439090893
8	rs17640016	14	rs12884447	1.64E-08	0.382388449
11	rs17664162	16	rs17670231	2.36E-08	0.5706455
11	rs17664162	16	rs4411516	1.60E-07	0.838273399
3	rs17664833	4	rs17504069	3.52E-07	0.368129788
14	rs1767390	19	rs2682594	1.24E-07	NA
7	rs17689617	19	rs17829934	4.28E-09	0.259288178
7	rs17689617	19	rs8105122	3.68E-10	0.138542538
6	rs17696583	18	rs7236264	6.40E-07	0.576285083
4	rs17696651	5	rs295665	9.81E-09	0.577757908
4	rs17696651	5	rs295669	1.78E-08	0.846878259
4	rs17696847	5	rs295665	8.08E-09	0.380112704
4	rs17696847	5	rs295669	8.31E-09	0.576951038
1	rs1770887	5	rs11134625	1.20E-07	0.264166977
1	rs1770887	5	rs1124531	1.12E-07	0.268168101
8	rs17721390	10	rs11010783	1.34E-07	0.608187126
8	rs17721390	10	rs11010839	1.18E-08	0.388241207
8	rs17721390	10	rs11010891	2.33E-08	0.213908121

5	rs17733544	5	rs2351749	1.03E-07	NA
3	rs17755675	13	rs2094186	1.21E-07	0.333220794
5	rs17761026	6	rs12180804	1.72E-08	0.619713533
5	rs17761026	6	rs614572	8.62E-10	0.700124464
5	rs17761026	6	rs6458214	1.00E-08	0.610854887
5	rs17761026	6	rs6458215	9.63E-09	0.636330637
5	rs17761026	6	rs647876	4.33E-10	0.730178851
5	rs17761026	6	rs9369270	7.81E-10	0.730178851
17	rs17778087	20	rs6135329	7.74E-09	0.551496363
13	rs17783357	22	rs4431	9.20E-08	0.233484819
7	rs17789420	15	rs4775229	4.28E-08	0.584384816
7	rs17789642	15	rs4775229	9.37E-08	0.509846635
2	rs17808730	13	rs1556997	4.70E-08	0.11685768
5	rs1824780	14	rs10149327	9.22E-09	NA
5	rs1824780	14	rs12884090	1.10E-08	0.407089386
5	rs1824780	14	rs9323049	2.02E-08	0.439351408
5	rs1833755	7	rs874599	3.03E-08	0.446745284
2	rs1834134	9	rs3780296	1.43E-08	0.828758252
4	rs1835523	12	rs6538885	2.30E-08	0.720022905
4	rs1835523	12	rs7300980	2.32E-08	0.746892097
1	rs1858650	15	rs7173883	7.32E-08	NA
7	rs1859020	9	rs7865494	2.21E-08	0.047723912
2	rs1869009	22	rs5996223	7.73E-10	0.899228959
15	rs1871119	22	rs762907	2.04E-08	NA
5	rs1875473	6	rs3846903	3.40E-09	0.941984032
9	rs1886106	21	rs2833679	1.32E-08	NA
11	rs1893687	15	rs4924265	3.01E-08	0.91866234
11	rs1893688	15	rs4924265	5.67E-08	0.809735628
4	rs189672	10	rs4387258	1.23E-07	0.997448572
9	rs1929801	15	rs16957963	1.86E-07	0.488580012
11	rs1944488	12	rs10774202	1.01E-08	0.440276564
11	rs1944516	12	rs7135976	6.53E-09	0.31753295
11	rs1945978	18	rs1545723	6.41E-08	0.350125619
1	rs1949338	12	rs11044329	7.56E-08	0.416959347
1	rs1949338	12	rs9669436	4.02E-08	0.553178792
3	rs1965143	12	rs10876321	1.83E-08	0.17326045
3	rs1965143	12	rs1814640	2.49E-08	0.13487347
3	rs1965143	12	rs936955	2.64E-08	0.156060155
3	rs1965143	12	rs936956	1.69E-08	0.161639585
10	rs1970183	11	rs10501579	6.11E-10	0.33337938
10	rs1970183	11	rs12290883	8.68E-10	0.2328048
10	rs1970183	11	rs17147761	9.08E-10	0.333048729
10	rs1970183	11	rs1943719	4.52E-10	0.329949821
10	rs1970183	11	rs1943720	3.52E-10	0.365021947

1	rs1980892	8	rs1460235	6.23E-08	0.877327179
4	rs1990280	22	rs2871058	5.70E-08	0.344178179
1	rs1995662	12	rs10846514	4.49E-06	0.508179045
1	rs202273	10	rs2796306	7.16E-09	0.220342795
1	rs2026043	12	rs10774295	2.82E-08	0.048258962
1	rs2026043	12	rs1558279	1.86E-08	0.036400483
1	rs2026043	12	rs17178334	2.72E-08	0.05647424
1	rs2036627	12	rs10846514	3.28E-06	0.546327448
1	rs203782	10	rs2796306	4.04E-08	0.283719224
6	rs2086408	12	rs4608114	4.11E-08	0.645938327
2	rs2103226	18	rs8084960	4.79E-09	0.459570814
5	rs210984	18	rs1357162	6.94E-09	0.243004702
5	rs210984	18	rs2685557	7.88E-09	0.115483517
6	rs211589	15	rs1528472	6.63E-08	0.711452659
7	rs2127187	16	rs1833965	2.80E-08	0.110386659
5	rs2128760	6	rs12180804	3.47E-08	0.609495557
5	rs2128760	6	rs6458214	2.11E-08	0.601745726
5	rs2128760	6	rs6458215	2.02E-08	0.626765448
5	rs2128760	6	rs647876	2.64E-08	0.803443677
5	rs2128760	6	rs9369270	1.04E-07	0.803443677
7	rs2159677	11	rs11033408	1.03E-07	0.957013472
2	rs2160980	8	rs4872508	1.95E-08	0.866165255
2	rs2171319	5	rs4957279	4.39E-07	0.878353501
14	rs2208984	18	rs626072	3.45E-08	0.668268191
12	rs2230885	19	rs4011457	2.65E-08	0.729905312
3	rs2276745	5	rs1173481	4.64E-08	0.593140538
6	rs2281462	10	rs17239782	5.16E-08	0.895184942
6	rs2281462	10	rs17241218	5.97E-08	0.961233166
6	rs2281462	10	rs1942002	5.21E-08	NA
6	rs2281462	10	rs1942006	4.33E-08	0.686811347
6	rs2281462	10	rs1993183	4.20E-08	0.889199015
2	rs2287110	6	rs10484248	1.26E-08	0.757730915
2	rs2287111	6	rs10484248	1.01E-08	0.879290104
2	rs2318128	7	rs1559012	4.41E-08	0.538212697
6	rs2324476	13	rs9547470	3.79E-08	0.661143097
4	rs2333523	6	rs2235989	3.60E-08	0.375200152
4	rs2333565	6	rs2235989	1.93E-08	0.371669203
10	rs2362962	22	rs2165971	7.28E-08	NA
1	rs2367159	12	rs1006705	4.11E-08	0.611690482
2	rs2385635	4	rs7680948	2.66E-08	0.653927032
12	rs2393084	18	rs8097921	1.43E-08	0.716219003
1	rs2405783	7	rs4732148	9.89E-09	0.26696176
1	rs2477201	1	rs4658507	2.59E-07	0.305095085
9	rs2479328	12	rs12228816	1.40E-07	0.05238008

6	rs2493225	16	rs4782606	1.10E-08	0.791994592
1	rs2496330	12	rs4766314	1.29E-08	0.289969324
1	rs2501909	4	rs17628329	5.36E-08	0.919723188
0	rs2523467	13	rs10507661	4.96E-08	0.511495409
2	rs2542485	7	rs7793374	4.04E-08	0.808948918
8	rs2552122	18	rs16966095	2.16E-08	0.820984863
8	rs2552122	18	rs1786608	4.47E-08	0.587687054
8	rs2552122	18	rs496728	3.12E-08	0.486553871
8	rs2552122	18	rs9963649	4.45E-08	0.676386803
5	rs25914	11	rs10892497	1.47E-07	0.325427139
5	rs25914	11	rs11217583	1.75E-07	0.149025444
5	rs25914	11	rs11217584	1.32E-07	0.3224901
3	rs2616548	6	rs9320486	1.58E-08	0.148969499
3	rs2616548	6	rs9488343	2.54E-08	0.152258147
4	rs2647237	15	rs8034217	5.64E-08	0.384442129
2	rs2670740	7	rs7793374	1.54E-08	0.934807443
2	rs2707253	2	rs707025	3.38E-08	0.599834523
2	rs2707254	2	rs707025	2.29E-08	0.599834523
7	rs2708608	21	rs2262241	2.79E-07	0.525250943
4	rs2712124	21	rs11203155	2.09E-08	0.665019652
7	rs2722396	21	rs10775668	1.90E-07	0.553340353
7	rs2722396	21	rs2838007	2.57E-07	0.600157357
15	rs2732150	15	rs16948771	1.11E-07	0.883746857
15	rs2732150	15	rs4887335	3.45E-08	0.950664704
11	rs274486	20	rs6030014	7.55E-08	0.838466473
13	rs2782516	16	rs8055256	1.71E-07	0.874698779
10	rs2797128	16	rs7204045	6.40E-08	0.617256832
9	rs2810489	15	rs10519041	3.63E-09	0.036646159
9	rs2810489	15	rs12101736	3.87E-09	0.056190689
9	rs2810489	15	rs2507372	9.20E-09	0.088837225
6	rs2817460	8	rs6471898	4.02E-08	0.328597985
6	rs2842461	11	rs11021058	7.36E-08	0.194027878
1	rs2843423	3	rs11708352	3.93E-08	NA
5	rs285529	10	rs10999507	2.48E-08	NA
4	rs2866422	6	rs10946842	4.20E-09	0.783604572
7	rs2893461	7	rs1860711	1.75E-07	NA
10	rs2900934	21	rs2837652	3.90E-08	0.988632165
18	rs29129	19	rs11085908	1.63E-08	0.381587171
18	rs29129	19	rs11666622	1.26E-08	0.374000396
18	rs29129	19	rs3752185	3.80E-09	0.374000396
8	rs2935801	10	rs10829661	2.42E-08	NA
2	rs2971883	5	rs10074987	2.32E-08	0.618549258
2	rs2971883	5	rs12656759	8.71E-08	0.516628292
2	rs2971883	5	rs3763116	5.71E-08	0.507307233

8	rs2979715	19	rs3212752	9.88E-08	0.963447367
10	rs2992278	21	rs363428	8.05E-09	0.844480739
10	rs2992278	21	rs363449	7.41E-09	0.707622059
10	rs3006789	21	rs363428	1.29E-08	0.822334048
10	rs3006789	21	rs363449	2.50E-08	0.687424006
10	rs3006792	21	rs363428	2.79E-08	0.774378757
11	rs3019730	12	rs11609114	8.89E-08	0.59819212
11	rs3019730	12	rs3815670	1.98E-08	0.492815797
1	rs3122922	8	rs12679497	2.65E-08	0.334339225
0	rs3131621	8	rs7825914	1.19E-08	0.886968957
2	rs333852	5	rs658910	2.22E-08	0.26324358
20	rs365516	21	rs17003996	6.23E-09	0.296613364
8	rs367830	10	rs11189420	3.09E-07	0.889424353
8	rs369828	10	rs11189420	1.77E-07	0.743556818
2	rs3732136	11	rs7933547	4.57E-09	0.104061546
12	rs3752702	16	rs11150517	5.00E-08	NA
2	rs3769412	7	rs38975	5.90E-08	0.177629047
3	rs3772891	20	rs3091712	2.29E-07	0.49475079
2	rs3791293	8	rs2720810	5.37E-08	0.518362626
2	rs3791815	7	rs2190924	2.82E-08	0.994798146
16	rs3803662	20	rs6053442	2.26E-08	0.60915138
7	rs3808024	11	rs11033408	1.21E-07	0.65742104
2	rs380919	8	rs4872508	8.38E-09	0.778709948
2	rs3816348	11	rs4584542	1.71E-07	NA
5	rs3849048	10	rs2297960	1.72E-08	0.314037233
8	rs385396	10	rs11189420	2.36E-07	0.936066028
2	rs3856519	18	rs12961730	2.30E-08	0.77586716
3	rs3856631	7	rs12698421	1.30E-07	0.233651978
3	rs3856631	7	rs12698422	3.87E-08	0.442712378
4	rs3898404	10	rs12221466	6.47E-08	0.383153696
1	rs3906403	8	rs10098168	6.28E-08	0.146421321
1	rs3906403	8	rs11780228	5.08E-08	0.187864891
5	rs3912137	19	rs3745469	8.11E-08	0.904654096
1	rs3912145	10	rs1620673	2.12E-08	0.945903176
2	rs393564	4	rs3821987	1.21E-07	0.962711375
3	rs3936360	10	rs11197611	3.83E-08	0.155727548
8	rs402169	10	rs11189420	4.79E-07	0.783949568
2	rs4027132	13	rs2785497	1.96E-08	0.075134012
2	rs403317	10	rs2253635	8.98E-09	0.505960105
3	rs4055307	14	rs6575209	4.97E-09	0.924166318
20	rs407600	21	rs17003996	1.56E-08	0.347950392
5	rs4077278	13	rs7987608	2.34E-08	0.913036207
5	rs4077278	13	rs9316367	5.76E-08	0.993102909
5	rs4077278	13	rs9526481	4.39E-08	0.817567098

5	rs4077278	13	rs9568049	6.23E-08	0.857879723
5	rs4077278	13	rs9634680	8.04E-08	0.858112004
0	rs4081552	13	rs10507661	8.09E-07	0.200321027
2	rs4085398	4	rs6837324	1.49E-08	0.923682637
3	rs4123721	13	rs9556795	1.91E-08	0.201843287
8	rs418362	10	rs11189420	2.53E-07	0.472562326
8	rs419874	10	rs11189420	2.14E-07	0.963301634
9	rs4237130	11	rs11220583	2.32E-07	0.866332103
6	rs4245513	18	rs4797619	8.62E-09	NA
6	rs425233	10	rs601883	7.41E-08	0.826608577
6	rs4260778	20	rs2425627	6.26E-08	0.026075269
1	rs4268341	7	rs2299257	9.14E-08	0.116222635
7	rs4269482	9	rs10491778	6.65E-08	0.577471314
7	rs4269482	9	rs11791347	6.41E-08	0.599237475
4	rs431836	14	rs10140682	1.69E-08	0.623939689
8	rs432063	10	rs11189420	4.00E-07	0.831576681
7	rs4338000	7	rs1860711	2.30E-07	NA
4	rs4345132	19	rs3760905	1.61E-07	0.751436511
5	rs4346787	13	rs7987608	1.45E-08	0.714205052
5	rs4346787	13	rs9568068	6.16E-08	0.986804711
4	rs4356886	4	rs382829	3.07E-07	0.661452257
4	rs4356886	4	rs390511	5.63E-07	0.579639981
4	rs4356886	4	rs398688	2.50E-07	0.478274501
4	rs4356886	4	rs425974	1.58E-07	0.478790912
2	rs438762	10	rs2253635	1.27E-08	0.628254938
3	rs4393847	6	rs2841000	8.87E-09	0.075236372
2	rs440866	8	rs4872508	6.67E-09	0.48945381
3	rs4438643	18	rs11151039	1.93E-08	0.864102419
1	rs4477326	22	rs1569437	4.49E-08	0.119870249
1	rs4477326	22	rs6006733	3.29E-08	0.133793451
1	rs4477326	22	rs6006743	4.24E-08	0.135159361
6	rs4479964	17	rs2447097	4.17E-08	0.88536154
1	rs4491109	12	rs11055259	4.96E-08	0.7583911
1	rs4491109	12	rs11055260	3.85E-08	0.956216922
1	rs4491109	12	rs11055267	7.48E-08	0.781490428
1	rs4491109	12	rs4444170	9.97E-08	0.618377546
1	rs4491109	12	rs4519177	2.21E-07	0.713249032
5	rs4537089	12	rs10774156	6.19E-08	0.549788489
5	rs4537089	12	rs3782752	5.36E-08	0.701785253
5	rs4543289	13	rs7987608	1.23E-08	0.893664553
5	rs4543289	13	rs9526481	4.61E-08	0.811021833
5	rs4543289	13	rs9568049	8.12E-08	0.852691215
5	rs4543289	13	rs9568068	2.65E-08	0.666811203
2	rs4550629	5	rs4533865	2.18E-08	0.546867902

7	rs4563782	21	rs2837562	8.45E-08	0.336919762
7	rs4563782	21	rs2837563	1.74E-07	0.311723998
7	rs4563782	21	rs714983	1.02E-07	0.271746161
3	rs4635707	7	rs10280028	6.60E-08	NA
1	rs4654500	7	rs6463170	2.75E-08	NA
1	rs4655313	9	rs567977	9.02E-09	NA
1	rs4658690	3	rs11708352	1.04E-07	NA
1	rs4661019	2	rs312975	2.12E-08	0.573701113
2	rs4663680	7	rs1559012	6.52E-08	0.722623195
2	rs4669558	20	rs2749951	3.01E-08	0.025064163
2	rs4670589	5	rs12716390	2.13E-08	0.779636074
2	rs4671358	18	rs12961730	3.82E-08	0.917142938
2	rs4671951	5	rs10074987	8.07E-09	0.953111005
2	rs4671951	5	rs12656759	3.95E-08	0.805714708
2	rs4671951	5	rs3763116	2.26E-08	0.825952893
2	rs4671951	5	rs440970	4.88E-08	0.723244204
2	rs4671956	5	rs10074987	6.38E-09	0.718585418
2	rs4671956	5	rs12656759	1.63E-08	0.924745692
2	rs4671956	5	rs3763116	1.18E-08	0.904287889
2	rs4671956	5	rs440970	5.47E-08	0.879843676
2	rs4672331	18	rs12961730	8.15E-08	0.683882098
2	rs4672396	18	rs16949218	2.65E-08	NA
3	rs4683968	11	rs10836724	2.10E-07	0.970918254
3	rs4683968	11	rs11034083	1.77E-07	0.483612578
3	rs4684157	4	rs3967768	1.68E-08	0.720391011
4	rs4690418	16	rs7203816	1.39E-08	0.181093102
1	rs469809	16	rs2214437	3.86E-08	0.346385203
1	rs469881	16	rs2214437	2.06E-08	NA
1	rs469903	16	rs2214437	1.74E-08	0.412880941
11	rs470437	14	rs1950736	1.75E-07	0.998554729
5	rs4705423	12	rs10774811	1.38E-07	0.403776477
6	rs4711716	10	rs10829802	2.20E-09	0.369560127
6	rs4711716	10	rs11017491	1.56E-09	0.412801208
6	rs4711716	10	rs11017492	1.79E-09	0.404338307
9	rs4741376	10	rs10821729	3.64E-08	0.830225047
9	rs4741376	10	rs10821731	2.67E-08	0.795701734
9	rs4741376	10	rs4582919	1.71E-08	0.89327801
9	rs4741377	10	rs10821729	3.23E-08	0.824579684
9	rs4741377	10	rs10821731	2.99E-08	0.792868796
9	rs4741377	10	rs4582919	1.51E-08	0.889295183
9	rs4741421	14	rs1753430	1.63E-07	0.728847648
12	rs4763208	13	rs17072179	2.76E-09	0.029585235
12	rs4763211	13	rs17072179	2.96E-08	0.034813246
12	rs4765914	17	rs6505444	2.61E-08	0.379102581

12	rs4766613	13	rs1974255	1.39E-06	0.21828222
12	rs4766866	21	rs12329657	2.27E-08	0.431280548
12	rs4766866	21	rs2822761	1.90E-08	0.520792849
12	rs4766866	21	rs2822765	1.79E-08	0.33589219
12	rs4766866	21	rs9980395	2.78E-08	0.567364445
12	rs4767558	18	rs1025910	9.30E-09	0.591747144
12	rs4767558	18	rs17747515	8.36E-09	0.678639147
12	rs4767558	18	rs8083764	4.35E-08	0.670423514
17	rs4790285	18	rs1943452	6.65E-08	0.343155639
17	rs4790285	18	rs2848791	8.21E-08	0.116314812
17	rs4790285	18	rs2848800	5.00E-08	0.552132041
17	rs4791481	19	rs7253270	2.23E-08	0.319623492
1	rs4844634	10	rs2350106	1.56E-08	0.28382224
2	rs4848692	14	rs17812034	9.82E-09	0.589281918
4	rs4863488	12	rs7974066	6.40E-09	0.826130371
6	rs4895410	10	rs11009830	2.60E-08	0.300193739
6	rs4895410	10	rs2477015	2.13E-08	0.268170166
6	rs4895410	10	rs2489655	1.17E-08	0.234815403
6	rs4895410	10	rs2490806	2.21E-08	0.295988922
6	rs4895410	10	rs2496718	1.97E-08	0.255626741
6	rs4897095	7	rs10486524	3.47E-08	0.436705699
6	rs4897096	7	rs10486524	2.36E-08	0.488137585
1	rs4907093	9	rs16918137	2.51E-08	NA
1	rs4908131	2	rs7562287	2.08E-07	0.753180729
1	rs4912230	22	rs6006733	5.22E-08	0.142848929
1	rs4915129	21	rs461408	2.08E-08	0.616848844
1	rs4920408	6	rs2475499	3.46E-08	0.792866548
2	rs492190	3	rs9879137	1.56E-07	0.077827518
5	rs4957534	10	rs17819557	1.55E-07	0.536189197
5	rs4957534	10	rs7916063	9.74E-08	0.372982297
5	rs4957693	10	rs17819557	1.02E-07	0.508598828
5	rs4957693	10	rs4275540	1.03E-07	0.364228924
5	rs4957693	10	rs7916063	5.06E-08	0.356531066
6	rs4959698	6	rs17073267	3.88E-08	0.897204032
6	rs4959698	6	rs17073273	2.56E-08	0.79995308
16	rs4967664	17	rs7207501	2.45E-07	NA
3	rs5009838	21	rs2824799	3.12E-08	0.094502072
3	rs5009838	21	rs2824800	3.23E-08	0.088291675
0	rs532419	10	rs12572911	6.78E-08	0.179366053
0	rs532419	10	rs7918923	1.37E-07	0.082718061
1	rs553427	21	rs2827975	2.15E-08	0.641366007
1	rs553427	21	rs2827976	4.17E-08	0.516675048
1	rs553427	21	rs2827984	2.36E-08	0.735887298
1	rs553427	21	rs7279655	1.74E-08	0.647229553

1	rs553427	21	rs9305170	4.36E-08	0.503191948
4	rs560164	5	rs17693758	2.02E-09	0.182877311
6	rs573301	11	rs1516622	1.44E-07	0.062477098
6	rs573301	11	rs7946494	8.39E-08	0.022910701
1	rs574053	2	rs12469678	1.53E-08	0.869599513
0	rs580771	22	rs2748341	1.89E-08	0.359986661
0	rs580771	22	rs885792	7.72E-09	0.3877545
1	rs586609	12	rs10774295	5.05E-08	0.103945706
1	rs586609	12	rs1558279	3.34E-08	0.068311963
1	rs586609	12	rs17178334	2.96E-08	0.120264299
1	rs587527	12	rs10841066	7.89E-08	0.344693744
1	rs587910	10	rs1620673	3.21E-08	0.979531967
1	rs624761	2	rs918808	2.78E-09	0.309174201
1	rs636561	10	rs1620673	1.52E-08	0.98965817
11	rs637149	12	rs764065	1.09E-08	0.313961565
1	rs640874	5	rs17548653	5.86E-07	0.155433894
1	rs6427119	10	rs2796306	1.71E-08	0.804720239
1	rs6429214	14	rs11158758	6.12E-09	0.962598946
2	rs6432078	7	rs6462200	1.21E-08	NA
2	rs6436834	5	rs1015586	2.27E-09	0.484742034
3	rs6439167	10	rs10995412	3.61E-09	0.970808076
3	rs6439168	10	rs10995412	2.42E-09	0.960130946
3	rs6445058	15	rs16944923	4.75E-08	0.422062823
5	rs6451758	15	rs12595699	1.92E-08	0.404394644
8	rs6472735	18	rs17436811	1.26E-08	0.810751626
11	rs647837	14	rs1950736	2.89E-07	0.866649942
13	rs6492597	18	rs2217127	5.35E-08	0.925941394
1	rs652953	2	rs12475055	3.58E-08	NA
2	rs6544643	8	rs3019350	7.22E-09	0.663109352
2	rs6546473	9	rs877932	6.34E-08	NA
3	rs6549953	7	rs286551	7.72E-08	0.273525647
5	rs6556401	13	rs493248	2.25E-08	0.424225759
8	rs6558292	16	rs9929440	3.29E-09	0.533957691
10	rs6585089	21	rs2837652	3.50E-08	0.897217504
5	rs6596384	5	rs17745927	5.69E-09	0.708603976
1	rs6665381	10	rs11248424	1.90E-07	0.359110794
1	rs6669318	1	rs947377	4.20E-05	0.750131407
1	rs6677110	10	rs7910788	6.73E-08	0.816831971
1	rs6684867	22	rs1569437	5.41E-08	0.10686877
1	rs6684867	22	rs6006733	3.94E-08	0.134100014
1	rs6684867	22	rs6006743	4.43E-08	0.1215825
1	rs6691889	10	rs10887652	1.57E-08	0.504435245
1	rs6695016	4	rs10031159	7.89E-08	0.062477275
1	rs6701066	13	rs9526614	1.81E-08	0.420144365

2	rs6730863	21	rs8129180	2.33E-08	0.986007699
2	rs6732447	7	rs1559012	5.78E-08	0.588977153
2	rs6735427	17	rs1117059	5.93E-08	0.290152944
2	rs6735427	17	rs973630	5.51E-08	0.338443764
2	rs6737351	7	rs1559012	5.54E-08	0.509934373
2	rs6739453	9	rs10975412	5.40E-08	NA
2	rs6744746	8	rs3019350	8.19E-09	0.598497458
2	rs6745242	18	rs2847410	1.12E-07	0.614330946
2	rs6753459	7	rs2190924	1.17E-07	0.842974458
2	rs6761398	5	rs10074987	1.04E-08	0.897859199
2	rs6761398	5	rs12656759	3.89E-08	0.859693512
2	rs6761398	5	rs3763116	2.18E-08	0.879515193
2	rs6761398	5	rs440970	3.35E-08	0.846589057
2	rs6761690	7	rs38760	1.18E-08	0.433124569
1	rs676913	12	rs1558279	1.20E-07	0.063750868
3	rs6777841	18	rs11151039	4.66E-09	0.943424684
3	rs6782743	18	rs11151039	5.16E-09	0.939179589
3	rs6789373	14	rs17775406	4.01E-08	0.580741927
3	rs6789577	5	rs463247	4.33E-08	0.578654843
3	rs6798573	9	rs4877750	7.55E-10	0.51695497
3	rs6798573	9	rs7043458	1.94E-08	0.609978645
3	rs6799005	5	rs12656577	7.65E-08	0.727405618
4	rs6818363	11	rs534916	1.83E-07	0.511382291
4	rs6818479	11	rs10837968	6.07E-08	0.315774792
4	rs6856615	10	rs12221466	3.59E-08	0.361484799
5	rs6874766	11	rs1559759	1.98E-08	0.141712849
5	rs6875372	19	rs8104048	4.34E-08	0.314835122
6	rs6916292	6	rs9385677	4.03E-08	NA
6	rs6934395	13	rs2186032	9.18E-09	0.086676922
6	rs6939344	9	rs3780439	2.92E-08	0.507192696
2	rs694697	8	rs4872508	1.15E-08	0.900011613
7	rs6956440	11	rs3781695	1.18E-07	0.250787085
7	rs6960891	9	rs10491778	8.62E-08	0.537498962
7	rs6960891	9	rs11791347	5.50E-08	0.558522489
2	rs698853	2	rs7596078	4.98E-08	NA
8	rs7006032	9	rs11792080	5.76E-08	0.941062887
8	rs7017184	11	rs7105348	3.32E-08	0.40852989
9	rs7029466	12	rs10506322	6.43E-08	0.956743523
9	rs7029466	12	rs182714	6.66E-08	0.883995411
9	rs7029466	12	rs2254639	3.66E-08	0.776117853
9	rs7029466	12	rs2366134	7.84E-08	0.93345592
9	rs7029466	12	rs2699927	7.14E-08	0.883995411
9	rs7031588	10	rs550165	1.42E-06	0.335640468
2	rs703277	2	rs817085	3.50E-08	0.399713261

9	rs7040144	16	rs8045545	6.58E-08	0.7107616
9	rs7042203	20	rs2424490	2.32E-07	0.01813362
9	rs7042203	20	rs2746617	2.02E-07	NA
6	rs706915	7	rs10238916	3.72E-08	NA
6	rs706915	7	rs4723631	8.57E-08	NA
1	rs708088	6	rs6917194	2.73E-09	0.212308148
10	rs7084681	13	rs4941897	6.29E-08	0.292775045
10	rs7085082	16	rs13330883	3.29E-08	0.099827266
10	rs7095012	13	rs1374483	5.36E-08	0.638099156
10	rs7095012	13	rs9569702	7.05E-08	NA
10	rs7096096	13	rs2763901	1.40E-08	0.994690338
10	rs7096494	14	rs6576110	7.14E-08	0.539637453
11	rs7130632	18	rs1545723	3.04E-08	0.545920381
12	rs7131776	17	rs2289607	1.31E-07	0.798024485
1	rs714625	11	rs17509332	6.48E-08	0.402287016
15	rs7175823	15	rs17271669	5.29E-08	0.316063303
5	rs718410	5	rs2246477	9.87E-08	0.470280765
3	rs718634	7	rs286551	5.54E-08	0.361571338
2	rs721301	6	rs6908539	3.25E-08	0.09506579
12	rs7311488	13	rs1974255	8.57E-07	0.263870975
3	rs7372391	9	rs2226014	7.27E-09	0.185248585
3	rs7372391	9	rs4741294	5.60E-09	0.139394139
6	rs7449629	9	rs10980836	3.80E-08	0.682965781
1	rs7527300	3	rs747030	5.30E-08	NA
1	rs7531276	11	rs11229246	9.35E-09	0.686499886
1	rs7543674	10	rs10828610	4.21E-08	0.811760227
1	rs7544694	11	rs10893354	6.02E-08	0.987124203
1	rs7545402	9	rs10978600	1.67E-08	0.243072913
1	rs7545402	9	rs1491103	1.55E-08	0.243072913
1	rs7545402	9	rs1491106	7.80E-09	NA
7	rs754553	22	rs3788477	2.94E-08	0.475211959
1	rs7549968	3	rs9830439	1.83E-07	0.320808939
1	rs7556581	6	rs9294265	6.08E-08	0.322554467
1	rs7556581	6	rs9449554	6.33E-08	0.403405182
2	rs7573259	5	rs1015586	4.39E-09	0.516183886
2	rs7575610	7	rs4717400	1.10E-07	0.791784359
2	rs7590873	7	rs1559012	6.68E-08	0.518803094
2	rs7608256	5	rs1015586	2.14E-09	0.479737404
21	rs762391	22	rs9614208	4.35E-08	0.677878574
3	rs7626036	3	rs1386290	1.00E-07	0.886848078
3	rs7626036	3	rs6797943	1.15E-07	0.941290888
3	rs7627715	7	rs11772246	2.60E-07	0.550197654
3	rs7627715	7	rs844772	3.08E-08	0.866395491
3	rs7631974	12	rs10876321	1.90E-08	0.150576494

3	rs7631974	12	rs1488697	3.52E-08	0.121357202
3	rs7631974	12	rs1814640	1.83E-08	0.116267973
3	rs7631974	12	rs936955	2.75E-08	0.135040969
3	rs7631974	12	rs936956	1.49E-08	0.14026288
2	rs763713	7	rs7793374	2.55E-09	0.994967409
3	rs7650123	12	rs10876321	1.35E-08	0.138545981
3	rs7650123	12	rs1488697	2.52E-08	0.11145477
3	rs7650123	12	rs1814640	2.17E-08	0.106596566
3	rs7650123	12	rs936955	2.31E-08	0.124311363
3	rs7650123	12	rs936956	1.77E-08	0.129122958
4	rs7683781	6	rs4560641	1.05E-08	0.148418076
4	rs7687935	14	rs10131637	1.33E-08	0.045228642
4	rs7688514	6	rs2235989	2.73E-08	0.381626963
4	rs7696645	14	rs10131637	1.13E-08	0.04302594
4	rs7697633	10	rs12248921	3.08E-08	0.556569084
5	rs7710595	10	rs17819557	4.86E-08	NA
5	rs7710595	10	rs4275540	5.69E-08	NA
5	rs7710595	10	rs7916063	3.31E-08	NA
5	rs7714596	11	rs1488876	5.31E-08	0.111742775
5	rs7718186	6	rs12180804	2.45E-08	0.893801865
5	rs7718186	6	rs614572	5.10E-08	0.853989581
5	rs7718186	6	rs6458214	1.85E-08	0.884403359
5	rs7718186	6	rs6458215	1.40E-08	0.912379125
5	rs7718186	6	rs647876	2.15E-08	0.826581687
5	rs7718186	6	rs9369270	9.02E-08	0.826581687
5	rs7718617	11	rs10834346	2.69E-07	0.880720205
5	rs7732832	14	rs17254989	8.16E-08	0.893316917
5	rs7732832	14	rs17833440	1.30E-08	0.703604188
6	rs7755513	11	rs2155388	6.39E-09	0.919262868
6	rs7755513	11	rs2849222	1.09E-08	0.76728428
6	rs7772252	17	rs854666	2.42E-08	0.110060143
7	rs7788425	8	rs11780203	1.03E-07	0.673983331
2	rs779917	18	rs658756	1.31E-07	0.684099404
7	rs7808401	9	rs10491778	8.23E-08	0.595536194
7	rs7808401	9	rs11791347	6.01E-08	0.617719389
8	rs7821093	18	rs17436811	7.02E-09	0.506406534
8	rs7836186	17	rs1989858	1.11E-08	0.891630626
9	rs7853909	21	rs2833679	1.33E-08	0.710697026
9	rs7861593	14	rs12885683	1.19E-07	0.124473529
10	rs7893529	18	rs896057	3.24E-08	0.979086758
10	rs7896275	20	rs6039354	1.54E-07	0.275320624
10	rs7917036	21	rs2837652	1.88E-08	0.777380539
11	rs7929962	14	rs4904477	8.26E-10	0.924154022
11	rs7938012	12	rs11609114	6.10E-08	0.42769829

11	rs7938012	12	rs3815670	2.03E-08	0.339039795
12	rs7953801	15	rs1458253	8.68E-08	0.618328287
12	rs7971375	15	rs2439398	9.00E-09	0.667329246
13	rs7999348	15	rs6494519	1.36E-08	0.241958202
14	rs8015726	15	rs16949774	1.80E-08	0.061756639
16	rs8054039	17	rs7207501	1.15E-07	0.367731016
8	rs819188	18	rs11151935	1.82E-08	0.158842814
2	rs829624	5	rs1023681	4.19E-08	0.287901783
2	rs829640	5	rs1023681	4.73E-08	0.068517065
2	rs829652	5	rs1023681	3.28E-08	NA
2	rs829692	5	rs1023681	8.72E-08	0.082616983
1	rs841839	12	rs1006705	9.54E-08	0.577246416
6	rs845652	10	rs11245202	6.83E-09	0.467211787
5	rs845740	11	rs10892497	4.48E-08	0.384213135
5	rs845740	11	rs11217583	7.39E-08	0.182666156
5	rs845740	11	rs11217584	5.52E-08	0.380841291
6	rs845883	13	rs1340561	8.23E-08	0.75738722
6	rs845885	13	rs1340561	8.20E-08	0.984765234
3	rs874968	6	rs11156113	4.33E-08	0.87291016
8	rs893464	8	rs10504927	3.38E-08	0.883625377
8	rs893464	8	rs16915713	2.62E-08	0.875305132
8	rs893464	8	rs2197673	7.02E-08	0.894450061
11	rs897355	20	rs16999397	1.41E-08	0.964365445
2	rs898935	5	rs7724830	2.84E-08	0.888248584
2	rs907135	5	rs10074987	2.56E-08	0.74055318
12	rs918107	13	rs1974255	4.01E-07	0.217510457
5	rs919336	12	rs1566929	1.00E-08	0.370427208
1	rs927512	8	rs6558653	5.81E-09	0.554775797
9	rs927890	22	rs429942	2.18E-08	0.362503786
2	rs9287609	7	rs1559012	9.71E-08	0.492973944
3	rs9311789	19	rs3816963	2.54E-08	0.805792011
13	rs9316293	18	rs1662298	2.55E-08	0.535901138
6	rs9320173	13	rs10459348	2.52E-09	NA
6	rs9320173	13	rs1932913	2.64E-09	0.305005906
6	rs9328496	13	rs473598	6.75E-08	0.611996952
2	rs935170	5	rs10071163	2.28E-09	0.063847752
6	rs9364847	9	rs10980836	6.01E-08	0.632057235
6	rs9385677	6	rs6916292	4.03E-08	NA
7	rs941368	11	rs3781695	9.22E-08	0.223343981
1	rs942904	10	rs7910788	7.63E-08	0.845914944
13	rs943001	16	rs1381452	2.57E-08	0.999105742
1	rs947377	1	rs6669318	4.20E-05	0.750131407
6	rs9475663	11	rs1285318	3.10E-08	0.878643897
6	rs9475663	11	rs592545	2.37E-08	0.910757531

6	rs9480682	13	rs10459348	2.73E-09	NA
6	rs9480682	13	rs1932913	3.28E-09	0.487118562
6	rs9486383	13	rs10459348	4.12E-09	NA
6	rs9486383	13	rs1932913	4.31E-09	0.304350406
6	rs9498266	7	rs10486524	4.76E-08	0.539686078
13	rs9554573	15	rs6494519	1.53E-08	0.246541895
2	rs9653477	18	rs2156025	4.17E-08	0.825020713
9	rs971834	15	rs7176387	1.30E-07	0.241633095
11	rs9787877	14	rs4904477	2.54E-09	0.900725715
7	rs9792042	15	rs4775229	2.94E-07	0.539430127
2	rs983267	7	rs1559012	4.55E-08	0.566476142
3	rs9834182	12	rs10876321	2.11E-08	0.269978683
3	rs9834182	12	rs1814640	2.39E-08	0.217700763
3	rs9834182	12	rs936955	2.57E-08	0.248354313
3	rs9834182	12	rs936956	1.94E-08	0.254899572
3	rs9850713	12	rs10876321	2.22E-08	0.18462372
3	rs9850713	12	rs936955	3.18E-08	0.166655265
3	rs9850713	12	rs936956	2.04E-08	0.172412921
3	rs9851626	6	rs1078602	6.38E-08	NA
3	rs9855931	12	rs10876321	2.88E-08	0.189539135
3	rs9855931	12	rs1488697	4.17E-08	0.154039451
3	rs9855931	12	rs1814640	3.86E-08	0.14798138
3	rs9855931	12	rs936955	1.76E-08	0.170696173
3	rs9855931	12	rs936956	3.16E-08	0.176554988
3	rs9870018	6	rs2636122	5.39E-08	0.108827577
3	rs9871875	12	rs10876321	2.26E-08	NA
3	rs9871875	12	rs1814640	3.04E-08	NA
3	rs9871875	12	rs936955	1.77E-08	NA
3	rs9871875	12	rs936956	2.49E-08	NA
3	rs9872159	13	rs4771629	2.40E-08	0.141858656
4	rs9884525	13	rs9521628	1.79E-07	NA
10	rs9919410	20	rs6040171	1.00E-08	0.695368402
7	rs994395	8	rs10095813	1.93E-07	0.952148627
4	rs998817	6	rs9357223	8.68E-09	0.807681497
4	rs9991718	21	rs2096860	1.39E-07	0.03435235