

Supplementary Table 7. List of DMLs identified between OA knee and OA hip samples.**Hypermethylated in OA hip**

Probe	Gene	CHR	adj.p.val	Mean β -value OA Knee	Mean β -value OA hip
cg15769388	A2ML1	12	1.18E-10	0.436813338	0.576101002
cg20495677	AAA1;NPSR1	7	1.45E-06	0.302545598	0.4705897
cg16981346	AARSD1;AAR	17	9.16E-07	0.494034101	0.638203026
cg06213598	ABCA9	17	0.00066945	0.500980679	0.624327671
cg02316713	ABCG1;ABCG	21	1.03E-07	0.548227557	0.676768245
cg02016771	ABCG2	4	8.89E-05	0.523260066	0.633830379
cg15895268	ABL2;ABL2;A	1	0.00507628	0.35297614	0.46910819
cg06539091	ABLIM1;ABLI	10	8.81E-06	0.446946527	0.611526904
cg02068171	ABLIM1;ABLI	10	2.33E-06	0.247054297	0.350108355
cg23928713	ABLIM2;ABLI	4	3.58E-16	0.296206406	0.534453663
cg19635501	ABLIM2;ABLI	4	6.76E-06	0.414743427	0.536196129
cg04318619	ABR;ABR	17	0.0002042	0.174786452	0.298502774
cg03003335	ACAP3	1	0.00174378	0.308898413	0.421257006
cg03734783	ACCN3;ACCN	7	3.49E-06	0.475684483	0.615179888
cg02812142	ACMSD	2	3.09E-10	0.463544725	0.631718484
cg24096680	ACOX1;FBF1;	17	3.72E-10	0.193720398	0.329772851
cg03977443	ACSL1	4	3.90E-09	0.289135319	0.40439443
cg00328597	ACTN2	1	2.30E-10	0.388844341	0.627355321
cg18959907	ACYP2	2	4.66E-05	0.568748553	0.679568938
cg27158677	ADAM12;AD,	10	2.82E-08	0.679372575	0.829622294
cg24166018	ADAM12;AD,	10	1.51E-11	0.696357601	0.827557757
cg25238274	ADAM12;AD,	10	2.00E-06	0.663013542	0.772885821
cg26826339	ADAM7	8	3.30E-05	0.174755211	0.275139481
cg01181233	ADAMDEC1;,	8	4.67E-07	0.134468866	0.25836206
cg24030232	ADAMTS16	5	0.00016502	0.435299277	0.577087105
cg27344315	ADAMTS17	15	4.93E-06	0.267020867	0.415159646
cg27511525	ADAMTS17	15	0.00105243	0.320996012	0.447914116
cg13398440	ADAMTS2;A[	5	1.56E-07	0.773351887	0.878568289
cg00646084	ADAMTS5	21	0.00060525	0.473696873	0.619176735
cg03294207	ADAMTS5	21	7.96E-05	0.513698903	0.658188263
cg14740657	ADAMTS5	21	0.00154093	0.421357447	0.52880733
cg04711622	ADAMTS6	5	0.00013329	0.432316069	0.534281857
cg03213833	ADARB2	10	2.60E-09	0.362321356	0.573261609
cg17981439	ADARB2	10	6.75E-11	0.383834467	0.568215986
cg02088470	ADARB2	10	2.21E-12	0.571886656	0.753708277
cg13504411	ADARB2	10	3.64E-08	0.488832247	0.644318968
cg05289540	ADARB2	10	4.07E-11	0.417453795	0.548249404
cg14434293	ADARB2	10	1.15E-09	0.242510721	0.359888076
cg17023203	ADARB2	10	0.04607669	0.380061891	0.492393975

cg04271617	ADARB2	10	0.00010607	0.566982773	0.678184399
cg15531433	ADARB2	10	4.49E-06	0.318994324	0.42775661
cg17221993	ADARB2	10	4.85E-09	0.517887722	0.626158649
cg19533322	ADARB2	10	6.70E-06	0.70271905	0.804767857
cg14908653	ADCYAP1;AD	18	7.35E-06	0.29329712	0.43686189
cg22039638	ADD2;ADD2;	2	0.00057398	0.38255033	0.495769333
cg20180050	ADHFE1	8	0.00097892	0.401829806	0.504460517
cg06864391	ADPRHL1	13	4.04E-08	0.668899899	0.792746997
cg01810471	ADPRHL1;AD	13	2.03E-06	0.520899714	0.626185682
cg01477835	AFF1;AFF1	4	0.00193259	0.455750874	0.568836122
cg22123885	AGAP1;AGAF	2	0.00014024	0.703382572	0.817052053
cg10647547	AGAP1;AGAF	2	1.95E-07	0.606503288	0.709037218
cg09596958	AGAP2;AGAF	12	0.00022237	0.215003046	0.318025835
cg02143743	AGBL1	15	0.00215924	0.471678306	0.611644173
cg22017303	AGL;AGL;AGI	1	0.02154253	0.545107772	0.687937333
cg01395754	AGPS	2	1.48E-05	0.499302516	0.631896845
cg17483792	AHCYL2;AHC	7	2.10E-06	0.62419869	0.733603383
cg24064903	AHRR;LOC10	5	1.34E-12	0.632571345	0.767330547
cg02385153	AHRR;LOC10	5	2.75E-10	0.462300476	0.588873822
cg14006239	AIF1L	9	1.13E-05	0.49189537	0.607642258
cg00859330	AJAP1;AJAP1	1	1.52E-07	0.362655034	0.522004128
cg10400362	AJAP1;AJAP1	1	4.18E-11	0.465324197	0.623561681
cg11926510	AJAP1;AJAP1	1	5.64E-05	0.565387791	0.681500674
cg00691586	AKAP13;AKA	15	9.45E-06	0.48878288	0.623437862
cg02248514	AKAP6	14	4.27E-08	0.603471609	0.716126702
cg02004048	AKD1	6	4.12E-06	0.613925453	0.773509379
cg12001930	AKR1B10	7	2.35E-09	0.452270921	0.565453041
cg25171118	AKR1B10;AKI	7	4.80E-15	0.419975733	0.652164246
cg26862316	AKT2	19	3.39E-07	0.652610066	0.776035678
cg13241645	ALAS1;ALAS1	3	1.00E-10	0.30569673	0.458963115
cg27089736	ALLC	2	3.51E-08	0.72377609	0.829626363
cg06809252	ALX3	1	7.44E-06	0.394501125	0.501970427
cg22327527	AMPH;AMPH	7	7.06E-08	0.329043383	0.467498082
cg23092449	AMPH;AMPH	7	2.91E-07	0.22896755	0.339091329
cg20490392	ANGPT2;ANG	8	1.51E-09	0.3182723	0.498687072
cg04017131	ANGPT2;ANG	8	1.64E-10	0.183555004	0.328015139
cg21193744	ANGPT2;ANG	8	0.00085855	0.327415924	0.442951154
cg27028281	ANK2;ANK2;	4	1.93E-09	0.454200457	0.683568562
cg23246828	ANK2;ANK2;	4	6.09E-10	0.53284645	0.704384462
cg20008164	ANKFN1	17	0.00011078	0.485789108	0.586501578
cg05850869	ANKLE2	12	1.67E-05	0.508818202	0.637411259
cg21729214	ANKLE2	12	4.10E-05	0.396943498	0.518289233
cg26515084	ANKLE2	12	7.50E-06	0.431989857	0.539043
cg05015495	ANKRD32	5	0.00033164	0.520216734	0.625793444
cg23162479	ANO2	12	1.97E-15	0.178421815	0.360450133
cg00363845	ANO8	19	2.43E-05	0.42631095	0.538064991

cg04329351	ANXA11;ANX	10	0.00168768	0.23022057	0.330228838
cg07200421	ANXA13;ANX	8	8.62E-11	0.36271449	0.559569238
cg25825810	ANXA13;ANX	8	5.70E-06	0.621815754	0.762754324
cg11749792	ANXA13;ANX	8	2.44E-06	0.605516309	0.745160947
cg00283535	ANXA13;ANX	8	9.71E-05	0.557112556	0.680774582
cg25099065	ANXA4	2	2.00E-09	0.163058572	0.298914425
cg13937817	APBA1	9	3.85E-07	0.600491484	0.747738554
cg22135269	APBA2;APBA	15	2.99E-09	0.203944616	0.364342015
cg22874989	APBA2;APBA	15	2.33E-10	0.333819444	0.4657774
cg26896979	APITD1;APITI	1	4.80E-09	0.232935765	0.413161424
cg19333614	APOBEC3F	22	1.58E-12	0.584952636	0.732354845
cg01949403	APOL3;APOL	22	7.71E-14	0.580268226	0.75416937
cg17657707	ARFGF2	20	0.00099249	0.27892494	0.390907259
cg17592268	ARHGAP15	2	5.75E-18	0.217195671	0.512047915
cg02012721	ARHGAP26;A	5	0.00263889	0.452059228	0.562269914
cg23902994	ARHGEF10	8	3.30E-05	0.486406548	0.618174655
cg10020040	ARHGEF16	1	3.66E-08	0.332140403	0.437333061
cg18599155	ARL8B	3	1.26E-12	0.215351326	0.386301102
cg15527231	ARMC4	10	0.00064817	0.346666623	0.489509717
cg19140602	ARMC4	10	0.00695564	0.314353948	0.436866943
cg15647584	ARNT2	15	1.51E-09	0.4116525	0.567432167
cg16370778	ARPP-21;ARF	3	2.26E-07	0.475572709	0.646230876
cg11442052	ARPP-21;ARF	3	3.81E-07	0.389254806	0.559256733
cg20582941	ARPP-21;ARF	3	7.19E-11	0.197364866	0.38339762
cg07799299	ASAP1	8	0.00497774	0.47504287	0.575107429
cg05277504	ASPSCR1	17	0.00159011	0.337469348	0.438703344
cg00977707	ATG7;ATG7;A	3	0.00094479	0.451164781	0.56664079
cg02543268	ATP10B	5	5.40E-07	0.538302777	0.684728559
cg07149639	ATP11A;ATP	13	4.61E-05	0.555117009	0.755494809
cg08889347	ATP13A4	3	0.00043192	0.518327168	0.628388351
cg25013044	ATP13A5	3	2.26E-06	0.604496905	0.707663346
cg10095954	ATP2A3;ATP	17	0.00062403	0.243550315	0.344384514
cg01948978	ATP2B4;ATP	1	1.17E-08	0.284381197	0.416964474
cg13048147	ATP5H;ATP5I	17	3.29E-06	0.320750402	0.42467099
cg16376770	ATP6VOA2	12	2.13E-08	0.396172514	0.536732155
cg20186907	ATXN7L1;AT	7	0.00077024	0.392971229	0.493950645
cg10931900	AVPR1A	12	1.02E-07	0.21278418	0.379512227
cg12807275	AVPR1A	12	0.00171716	0.613417417	0.722426346
cg26706003	AVPR1A;AVP	12	1.06E-06	0.232010623	0.350005333
cg26912485	B3GAT1;B3G	11	1.04E-09	0.583627048	0.727365646
cg00985958	B3GAT2	6	0.00072006	0.508948151	0.616895402
cg24238356	B4GALNT2;B	17	0.00014707	0.339907575	0.446211993
cg05715751	BAHCC1	17	1.11E-09	0.28746726	0.445617803
cg24573321	BAI3	6	0.03422229	0.615898837	0.719040854
cg08595782	BANP;BANP	16	0.00010349	0.597481491	0.724901636
cg06071058	BARX1	9	1.43E-11	0.196335412	0.38010142

cg13773631	BARX1	9	1.36E-08	0.187931944	0.32078219
cg21079591	BAT1;BAT1	6	0.00577899	0.543506414	0.654065873
cg13619623	BBS9;BBS9;B	7	0.00328926	0.376183859	0.488284914
cg15502231	BCAP29;BCA	7	0.00084347	0.201589748	0.310089289
cg01934781	BCL2L14;BCL	12	1.32E-05	0.239352787	0.364818889
cg19798702	BDH1;BDH1;|	3	0.00024194	0.447248418	0.561318908
cg07238832	BDNF;BDNF;|	11	8.25E-06	0.589679895	0.700336195
cg27661315	BEND4;BEND	4	1.28E-12	0.182611244	0.360543991
cg22097249	BEND4;BEND	4	1.62E-13	0.190506489	0.364882037
cg22745397	BEND4;BEND	4	3.86E-11	0.145445588	0.254189789
cg08745451	BEND6	6	2.05E-10	0.138281273	0.252612264
cg02023138	BIN2	12	6.54E-06	0.429548687	0.558164335
cg00576435	BLCAP;BLCAF	20	8.42E-06	0.458902815	0.620075057
cg18433380	BLCAP;BLCAF	20	7.10E-05	0.477874888	0.630244512
cg22510412	BLCAP;BLCAF	20	0.0018667	0.650465271	0.800058806
cg03061677	BLCAP;BLCAF	20	5.93E-05	0.403821809	0.545769695
cg15473473	BLCAP;BLCAF	20	0.00078489	0.481689081	0.613056497
cg20479660	BLCAP;BLCAF	20	0.00074793	0.477189506	0.600020875
cg01466133	BLCAP;BLCAF	20	0.02754184	0.595664203	0.710219395
cg17643025	BLCAP;BLCAF	20	0.00511309	0.62302575	0.737311208
cg21588305	BLCAP;NNAT	20	0.01288977	0.575933766	0.686419213
cg05912481	BMPER	7	0.00010514	0.566806137	0.693385098
cg23741520	BNC1	15	3.99E-10	0.280840599	0.416326039
cg10275315	BNC1	15	1.14E-11	0.328755436	0.440222016
cg13471735	BNC2	9	0.00089444	0.252680702	0.355952561
cg25191983	BNIP3L	8	0.00107013	0.526099784	0.629979466
cg02935097	BRDT	1	0.02682214	0.638656214	0.738929639
cg11843333	BST1	4	1.14E-05	0.190701707	0.291328804
cg01584389	BTNL2	6	0.0006353	0.46873082	0.577751786
cg05355436	C10orf107	10	9.23E-05	0.221114485	0.339025354
cg11914795	C10orf107	10	0.00016679	0.167733269	0.273151894
cg05496768	C10orf11	10	0.00111066	0.573385317	0.697315179
cg20125920	C10orf140	10	0.00427331	0.462556048	0.599210789
cg19472590	C10orf2;C10	10	8.71E-05	0.482227404	0.584264976
cg26744079	C10orf41;C1	10	1.14E-06	0.652485932	0.75591783
cg24842260	C10orf41;C1	10	9.94E-06	0.275843276	0.379242767
cg15891358	C10orf90	10	4.84E-05	0.59518562	0.695503032
cg07371029	C10orf93	10	5.39E-06	0.576120209	0.684561569
cg18033092	C11orf49;C1	11	2.03E-05	0.502775106	0.603251066
cg21770436	C11orf75	11	1.26E-07	0.205146392	0.330287537
cg18076842	C11orf75	11	4.39E-07	0.184799832	0.303569766
cg10338785	C11orf93	11	6.23E-05	0.325928429	0.466550356
cg05582340	C12orf52	12	2.96E-06	0.553209482	0.66800786
cg19115204	C12orf56;C1	12	1.85E-06	0.289156002	0.397293476
cg01756536	C13orf36	13	7.35E-06	0.188584032	0.309315461
cg08149459	C14orf166B	14	1.14E-10	0.557061293	0.733863885

cg10321119	C14orf179;C:	14	0.00097329	0.372821537	0.483026053
cg25066134	C14orf38	14	1.90E-12	0.302777086	0.495552896
cg03950873	C14orf38	14	3.66E-08	0.268796588	0.410798032
cg07484220	C16orf35;C1f	16	0.00017001	0.555976314	0.663288547
cg09596762	C16orf62	16	2.35E-05	0.212591644	0.344785554
cg08210637	C16orf80	16	7.10E-10	0.590091035	0.707947659
cg26930078	C17orf53;C1:	17	4.31E-11	0.230998942	0.365849713
cg25481999	C18orf2;C18c	18	1.60E-08	0.180565769	0.307369818
cg18827787	C18orf20	18	1.48E-07	0.452024208	0.574906049
cg08240592	C1orf107	1	7.66E-11	0.417556227	0.527347553
cg11338033	C1orf109	1	0.00093253	0.455728926	0.581981345
cg11809614	C1orf156	1	0.00060452	0.584511313	0.733991863
cg15461340	C1orf186;C1c	1	1.42E-07	0.643955872	0.765843388
cg11814539	C1orf228	1	2.70E-06	0.574582374	0.738566862
cg19729188	C1orf52;C1oi	1	0.00077186	0.305352818	0.409930522
cg04244851	C1orf56;BNIF	1	4.37E-05	0.594096096	0.749483722
cg26287609	C20orf173;C:	20	1.54E-08	0.488434451	0.633998617
cg05054998	C21orf70	21	1.68E-05	0.206877138	0.327909898
cg00669760	C2orf34	2	0.00059812	0.394831168	0.4971503
cg10481134	C2orf58	2	0.00589214	0.272155958	0.378180339
cg11552853	C2orf61;C2oi	2	7.65E-12	0.54562906	0.717782276
cg12305798	C2orf84	2	0.00115409	0.397543622	0.549946253
cg20000847	C3orf21	3	9.02E-10	0.465907004	0.714404267
cg13868855	C3orf21	3	1.45E-12	0.379029994	0.576946621
cg07250128	C3orf21	3	1.51E-12	0.35760576	0.553777432
cg11732673	C3orf26;FILIF	3	0.00017378	0.534986558	0.655934169
cg02766680	C3orf35;C3oi	3	1.50E-05	0.687489476	0.798579739
cg00957698	C4orf31	4	1.34E-06	0.137368642	0.247413895
cg01278041	C4orf38	4	0.00504151	0.484266453	0.596349804
cg01983248	C5orf28	5	0.00022102	0.26747513	0.37308536
cg15016062	C5orf36	5	0.00015345	0.361788071	0.485029451
cg20966357	C6orf10	6	7.77E-05	0.513260173	0.643879577
cg06545464	C6orf10	6	1.17E-06	0.557197894	0.679134105
cg15601361	C6orf105;C6c	6	2.34E-08	0.230870266	0.387071348
cg25658884	C6orf163;C6c	6	2.62E-06	0.24495906	0.357013799
cg18770076	C6orf176;C6c	6	8.34E-08	0.575798593	0.809663201
cg20673819	C6orf176;C6c	6	3.59E-11	0.539626947	0.699913202
cg06646780	C6orf191	6	2.64E-07	0.290398795	0.429149337
cg00647262	C6orf35	6	7.93E-08	0.259324845	0.3689283
cg04841607	C7orf33	7	0.0009552	0.320835404	0.436125292
cg12668043	C7orf33;C7oi	7	1.70E-18	0.15461322	0.497765059
cg26866014	C7orf33;C7oi	7	2.52E-09	0.324609349	0.576436295
cg24772001	C7orf33;C7oi	7	1.07E-08	0.643979268	0.824961893
cg04291970	C8orf12	8	8.81E-11	0.325287261	0.505655037
cg17047033	C8orf34	8	0.00330091	0.43299787	0.541763016
cg14414873	C9orf152	9	4.36E-13	0.259054975	0.504954183

cg09596614	C9orf152;C9orf173	9	2.24E-13	0.162591102	0.342191041
cg14417067	C9orf173	9	0.00087865	0.281100913	0.384529602
cg21218957	CAB39L;CABP2	13	0.00037045	0.250841618	0.365468759
cg15044322	CABP2;CABP1	11	8.32E-10	0.477516342	0.62581057
cg03825234	CACNA1H;CACNA2D3	16	5.29E-08	0.492504721	0.624457197
cg09249980	CACNA1H;CACNA2D3	16	1.69E-10	0.529397364	0.637023208
cg03364832	CACNA2D3	3	2.88E-12	0.292122744	0.542905803
cg10791541	CACNA2D3	3	2.38E-05	0.473636042	0.604375252
cg07806361	CACNA2D3	3	0.00017266	0.561159219	0.677918457
cg21506819	CACNA2D3	3	0.00011924	0.537976808	0.64460104
cg23517752	CACNA2D4	12	1.38E-08	0.333059899	0.445319445
cg03237431	CACNG1	17	9.60E-12	0.374007009	0.583145457
cg03455765	CADM2;CADM1	3	0.00262339	0.439849105	0.545102731
cg17149019	CADPS;CADP	3	1.29E-16	0.434374012	0.616515644
cg00653041	CADPS2;CADPS	7	0.00098182	0.715186465	0.822414079
cg25496680	CALR3	19	1.37E-07	0.280516963	0.402594236
cg15484597	CAMTA1	1	0.01381687	0.279562258	0.381293467
cg00260012	CAPN13	2	5.69E-13	0.362807327	0.600641307
cg02203336	CAPN13	2	5.25E-11	0.539808841	0.730870897
cg20423781	CAPN13	2	1.37E-08	0.602284435	0.780298409
cg03470939	CAPZB	1	1.33E-06	0.568229142	0.707242719
cg08404546	CARD10	22	1.19E-06	0.588622349	0.778334766
cg10009968	CARD11	7	3.87E-07	0.537224957	0.693994624
cg09077096	CARD11	7	0.00010911	0.491904696	0.64589135
cg05412410	CARD11	7	0.0003547	0.370460072	0.488652213
cg13128596	CASP4	11	4.22E-11	0.333668947	0.486850982
cg07985864	CASZ1;CASZ1	1	3.14E-08	0.324629168	0.430278669
cg27373591	CBLN2	18	3.18E-05	0.326078308	0.447839093
cg06335372	CCDC13	3	2.81E-11	0.540192494	0.704733918
cg13695746	CCDC3	10	0.00051085	0.27544753	0.380339819
cg09339156	CCDC42B	12	1.18E-08	0.267612792	0.406654601
cg04531363	CCDC46;CCDC42B	17	1.18E-05	0.390360781	0.557601861
cg04098763	CCDC57	17	3.17E-07	0.520221569	0.663619657
cg16920238	CCDC57	17	4.04E-06	0.509340924	0.630357202
cg17348388	CCDC63	12	2.57E-09	0.222755232	0.328092815
cg20272205	CCDC80;CCDC42B	3	2.25E-06	0.442097554	0.565694917
cg18864926	CCDC85C	14	0.00067526	0.415568752	0.519222121
cg05768403	CCDC90A	6	6.29E-12	0.139941277	0.259499994
cg15928132	CCKAR	4	1.54E-06	0.305718849	0.461839161
cg24074177	CCKAR	4	1.17E-08	0.258260287	0.384565053
cg14391016	CCR6	6	7.27E-10	0.538712766	0.674335946
cg24432768	CD1D	1	0.0008489	0.37080733	0.471008601
cg06801676	CD59;CD59;CD59	11	9.54E-06	0.258272469	0.386053746
cg20442536	CD96;ZBED2;	3	2.78E-09	0.449726045	0.674670766
cg13331542	CDC42EP5	19	0.0001995	0.419008619	0.539924548
cg18748085	CDH12	5	3.67E-08	0.668480022	0.801114863

cg11152825	CDH22	20	5.53E-06	0.573383567	0.718520725
cg12589798	CDH22	20	0.00017988	0.389830321	0.496098741
cg08999070	CDH22	20	0.0011122	0.421026217	0.521556989
cg10919204	CDH6	5	5.48E-05	0.371243765	0.47549996
cg19475870	CDH9;CDH9	5	4.33E-06	0.367479344	0.484779074
cg15830572	CDK11B;CDK	1	0.01115472	0.37722592	0.479930807
cg06962787	CDRT1;CDRT	17	0.00028353	0.188998845	0.297741191
cg06726231	CECR1;CECR1	22	2.23E-09	0.253897938	0.400059733
cg22041712	CENPF	1	1.41E-08	0.232013693	0.374562674
cg14024321	CENPP;ECM2	9	2.26E-06	0.675051927	0.775906456
cg16167050	CEP170;CEP1	1	1.16E-08	0.466344064	0.627820365
cg07981495	CGA;CGA	6	2.48E-05	0.557774363	0.694168446
cg07111861	CGNL1	15	4.95E-06	0.589609202	0.704634466
cg25408620	CHCHD2	7	5.82E-05	0.3672986	0.510085038
cg07050692	CHD7	8	2.12E-07	0.637870176	0.80925578
cg09941713	CHD7	8	0.00011941	0.246685059	0.380108638
cg09232918	CHD9	16	1.74E-06	0.671720052	0.784079245
cg04770195	CHD9	16	0.00272298	0.2925754	0.396116402
cg07414525	CHL1	3	4.31E-05	0.340609228	0.442967291
cg26585590	CHN1;CHN1	2	6.31E-06	0.547751505	0.692232707
cg16057587	CHRM2;CHRI	7	1.08E-05	0.497480773	0.603235198
cg22670733	CHRNA3;CHF	15	4.17E-14	0.281334107	0.499504653
cg16570223	CHRNA3;CHF	15	5.54E-11	0.357506666	0.53460113
cg19993258	CHRNA3;CHF	15	1.61E-13	0.437142652	0.582062483
cg09353345	CHRN4	15	1.55E-11	0.554326794	0.76110793
cg14232082	CHSY1	15	6.44E-11	0.278560694	0.3903413
cg12642717	CIDEA;CIDEA	18	9.49E-05	0.412219385	0.524051362
cg00293996	CLDN14;CLDI	21	1.88E-12	0.36391712	0.559055757
cg23716866	CLIC5	6	2.13E-08	0.413119106	0.606422066
cg03797957	CLP1;CLP1	11	3.44E-10	0.278113282	0.456446351
cg15807314	CLYBL	13	2.14E-09	0.263831385	0.403921627
cg18695543	CLYBL	13	6.31E-10	0.320725916	0.440726105
cg08020808	CMA1	14	1.13E-06	0.205821738	0.318771697
cg20471562	CNGA3;CNGA	2	0.00045012	0.474722108	0.585652203
cg05882745	CNGA4	11	2.25E-05	0.512740258	0.640885561
cg06694589	CNNM2;CNN	10	6.60E-08	0.530130893	0.678472196
cg16139517	CNTN4	3	1.81E-09	0.425830197	0.607649541
cg16907496	CNTN4;CNTN	3	1.43E-06	0.58084577	0.685947349
cg13916117	CNTN4;CNTN	3	7.87E-08	0.448064815	0.579035504
cg18746719	CNTN5;CNTN	11	8.26E-05	0.260568401	0.392639359
cg06822340	CNTNAP2	7	2.90E-08	0.126318643	0.25875549
cg17727071	COBL	7	0.01460998	0.453320006	0.562170402
cg18315763	COL14A1	8	0.00097892	0.358797806	0.462194091
cg16930728	COL22A1	8	5.13E-08	0.269460517	0.376032951
cg25554212	COL23A1	5	5.00E-06	0.280204235	0.435609826
cg08354401	COL23A1	5	7.58E-08	0.3312153	0.478261281

cg06485308	COL23A1	5	1.39E-07	0.42370954	0.558196798
cg23075480	COL23A1	5	3.88E-07	0.533695291	0.653593623
cg08862479	COL23A1	5	0.00014945	0.445277874	0.565026506
cg23336321	COL23A1	5	8.07E-06	0.573870599	0.682523019
cg07729453	COL23A1	5	1.77E-07	0.518005149	0.618163028
cg13910071	COL27A1	9	2.77E-09	0.695104341	0.809444082
cg06003429	COL6A3;COLI	2	8.26E-10	0.430462581	0.627164132
cg18516150	CPA3	3	2.53E-13	0.351725092	0.596091992
cg12389356	CPE	4	0.00059397	0.413557459	0.514898527
cg26565719	CPEB1	15	2.24E-05	0.372114187	0.480984251
cg06525453	CPT2	1	3.00E-05	0.360125075	0.479448503
cg11592640	CRABP1	15	7.45E-08	0.412288576	0.577547502
cg08317694	CRABP1	15	1.11E-08	0.518803743	0.6292232
cg05723179	CREB3L2	7	9.34E-08	0.367104769	0.499672212
cg16756589	CREB5;CREB5	7	5.02E-08	0.206732751	0.339413342
cg22321985	CREBBP;CREB	16	0.00337957	0.542202556	0.644528616
cg03073714	CRY1	12	3.97E-05	0.378521758	0.547805994
cg20193872	CRY1	12	6.21E-09	0.245892246	0.375867092
cg07313720	CRYGA	2	3.20E-06	0.301116012	0.450234201
cg00139726	CRYGA	2	1.97E-08	0.195571219	0.340929157
cg22386774	CRYGA	2	8.84E-11	0.169874531	0.290667142
cg19855215	CRYGB	2	1.20E-09	0.354962038	0.482803246
cg20018812	CRYGB	2	4.19E-05	0.40699226	0.534080473
cg17314180	CRYGB	2	1.76E-07	0.499407278	0.622242315
cg20912923	CSMD1	8	3.26E-10	0.463890155	0.656420432
cg00332689	CSMD1	8	0.00016419	0.440481226	0.58952848
cg26852625	CSMD1	8	4.85E-09	0.606334268	0.740457158
cg21896766	CSMD3;CSMI	8	1.26E-12	0.137443989	0.356087817
cg24759795	CSMD3;CSMI	8	7.49E-13	0.111148548	0.276012432
cg21029901	CSNK1A1P	15	1.72E-10	0.360435961	0.539645979
cg15428496	CTDSPL;CTDS	3	0.00126386	0.279243564	0.387516923
cg04787317	CTDSPL;CTDS	3	0.00024738	0.288469902	0.417340799
cg16516490	CTSK	1	3.66E-09	0.131350587	0.270952404
cg06515461	CUGBP2;CUG	10	2.95E-09	0.471666923	0.602124223
cg17148755	CUX1;CUX1;(	7	4.91E-05	0.446625743	0.605476973
cg05258123	CUX1;CUX1;(	7	0.00167738	0.403561689	0.536818976
cg08944961	CUX2	12	6.99E-08	0.290718193	0.4744967
cg11580090	CYB5R1	1	6.35E-07	0.729364568	0.831172709
cg02162897	CYP1B1	2	0.00014303	0.501554744	0.707777448
cg20408276	CYP1B1	2	0.0010229	0.510234004	0.679185823
cg01462727	CYP24A1;CYF	20	4.52E-16	0.256031181	0.440266231
cg00287413	CYP24A1;CYF	20	4.95E-06	0.4792981	0.626676793
cg04899273	CYP2C18;CYF	10	1.89E-09	0.317438396	0.469227447
cg04887030	CYP2W1	7	0.00015518	0.320649575	0.431340514
cg03117577	CYTSB;CYTSB	17	1.93E-06	0.466272706	0.573792318
cg21637761	CYTSB;CYTSB	17	0.00010152	0.473376609	0.585838792

cg01055518	DAB1	1	2.03E-07	0.361522107	0.500312122
cg18174779	DAB1	1	0.00210604	0.431626286	0.53837693
cg15158891	DAB1	1	0.01441578	0.559753586	0.664853502
cg08103568	DAPP1	4	2.94E-07	0.504535329	0.647151548
cg02208529	DBN1	5	1.15E-06	0.43951992	0.543446171
cg03114573	DBX2	12	2.87E-05	0.596519441	0.723414058
cg18650307	DCAF16	4	1.20E-07	0.582273824	0.70199405
cg13833328	DCDC2;KAAG	6	5.42E-06	0.4920086	0.606503793
cg11972626	DDX60L	4	8.96E-05	0.429714802	0.550370368
cg08379738	DENND1C	19	0.0004094	0.261639226	0.388381349
cg04554613	DHRS9;DHRS	2	1.81E-12	0.121470293	0.249015353
cg04436083	DHX15	4	9.16E-06	0.661378031	0.77400358
cg26495716	DKFZp566F0!	19	3.55E-09	0.340327651	0.544597939
cg01120132	DKFZp566F0!	19	2.45E-10	0.267436602	0.468058696
cg25432425	DKFZp566F0!	19	7.79E-08	0.372484589	0.555699977
cg11341086	DKFZp566F0!	19	6.60E-07	0.458965385	0.641432529
cg13786171	DKFZp566F0!	19	1.91E-11	0.18871484	0.335203298
cg20985037	DKFZp566F0!	19	1.04E-07	0.303674542	0.424717797
cg12507030	DKFZp566F0!	19	2.69E-07	0.551511705	0.672321133
cg12121765	DLC1;DLC1	8	0.00041133	0.299366441	0.457752961
cg01070197	DLC1;DLC1	8	0.00054334	0.470967205	0.606284244
cg16099871	DLC1;DLC1	8	7.24E-05	0.31064618	0.435744652
cg01257309	DLEU7	13	0.0009142	0.62748235	0.744933981
cg14093720	DLGAP1;DLG	18	2.96E-06	0.463403741	0.584370621
cg02840179	DLGAP2	8	2.74E-08	0.45655756	0.609193879
cg15230311	DLGAP2	8	2.32E-08	0.550774352	0.67970956
cg02839802	DMC1	22	4.31E-11	0.255124398	0.485223729
cg13122491	DNAH17	17	3.71E-11	0.51096914	0.681679842
cg09336508	DNAH3	16	8.01E-14	0.433326337	0.640516495
cg00576027	DNAH9	17	5.09E-08	0.631353958	0.774201417
cg14928319	DNAJC5B	8	1.57E-07	0.410972452	0.537449052
cg07802362	DNM3;DNM3	1	1.77E-10	0.46337946	0.683829924
cg17075808	DOCK10	2	0.00012553	0.411359555	0.527889745
cg19448644	DOCK3	3	4.00E-07	0.657547287	0.784802785
cg05046083	DOCK4	7	0.00481838	0.261102424	0.369116331
cg15196147	DOCK4	7	5.57E-08	0.738264995	0.842155568
cg25609954	DOK7;DOK7	4	5.78E-08	0.503460762	0.621584687
cg08044294	DOT1L	19	5.66E-06	0.713969274	0.873702686
cg25746387	DPT	1	0.00025105	0.163296354	0.264479769
cg10762047	DST;DST;DST	6	0.0004814	0.517699341	0.631481156
cg12875426	DYM	18	1.58E-07	0.56610522	0.743238613
cg06886738	DYNC1H1	14	0.00018816	0.491938862	0.61614334
cg01407254	DYSF;DYSF;D	2	1.80E-05	0.407969384	0.554651764
cg01171786	DYSF;DYSF;D	2	0.00026454	0.248305491	0.370858031
cg18239431	EBF2	8	4.11E-07	0.372202065	0.485227629
cg16895719	EBF2	8	7.47E-07	0.280545427	0.386997974

cg14855519	EBF2	8	4.86E-09	0.507532637	0.613839834
cg27454298	EBF3	10	0.00490401	0.575781344	0.694702091
cg20399252	EBPL	13	0.00045732	0.62679868	0.79115112
cg00204262	ECH1	19	8.72E-08	0.342662483	0.463057921
cg11380580	ECHDC2	1	5.69E-13	0.290747191	0.462574594
cg27138223	EDAR	2	4.29E-10	0.185818936	0.348155052
cg16203262	EDNRB	13	6.56E-05	0.34348312	0.474259218
cg26138978	EFNB2	13	0.00013232	0.589020847	0.702987642
cg24184792	EFR3A	8	0.00010436	0.134607704	0.235680817
cg18454133	EFS;EFS	14	0.00013531	0.195514947	0.315168394
cg02769614	EGFL8	6	0.00735063	0.553269742	0.671819191
cg10002850	EGFR;EGFR;E	7	5.07E-09	0.639438107	0.771961317
cg19460095	EHF	11	5.94E-08	0.493366679	0.638971643
cg18465149	EHMT2;EHM	6	3.53E-11	0.608536223	0.742780149
cg19682395	EIF2AK4	15	7.31E-05	0.578186231	0.722129192
cg02911270	EIF2C2;EIF2C	8	7.38E-05	0.454531408	0.582440631
cg23119628	EIF2C2;EIF2C	8	5.15E-06	0.235868494	0.343726458
cg25217583	ELAVL4;ELAV	1	4.34E-08	0.195475085	0.317827936
cg15050051	ELFN1	7	6.51E-10	0.492254985	0.64030805
cg26245202	ELK4;ELK4	1	1.58E-12	0.235739535	0.439285233
cg12324598	ELL2	5	0.00621769	0.442646679	0.547924207
cg16798247	ELMO1;ELMO	7	8.84E-13	0.335562459	0.595026221
cg16324018	ELMOD3;ELN	2	8.05E-06	0.680534028	0.812992363
cg11320318	ELOVL6;ELOV	4	3.16E-05	0.530444394	0.674457554
cg18358136	EML2	19	0.00069517	0.407722265	0.535445529
cg00042059	EML6	2	3.04E-14	0.238225855	0.443414692
cg22109370	ENGASE	17	0.00101542	0.569428173	0.669472315
cg24854430	ENPP6	4	0.00039973	0.606206822	0.720398155
cg01975858	EPS8	12	0.00134463	0.181741453	0.298044967
cg01156373	ERBB4;ERBB4	2	0.00032645	0.635337902	0.737319024
cg13925163	ERMP1	9	5.58E-05	0.169252741	0.277942577
cg01085974	ESPN	1	1.56E-11	0.528344279	0.672650111
cg04063345	ESR1;ESR1;ES	6	0.00242776	0.536445957	0.656489537
cg15626350	ESR1;ESR1;ES	6	0.00445974	0.422417898	0.536149712
cg06523151	ESRRG;ESRRG	1	1.24E-12	0.228966745	0.470395873
cg22480109	ESYT2	7	8.48E-05	0.446948066	0.58112679
cg15256387	ETV1;ETV1	7	2.03E-08	0.388626856	0.563833417
cg21463790	ETV1;ETV1;E	7	2.35E-10	0.264808447	0.488617242
cg07774251	EXPH5;EXPH5	11	4.85E-06	0.156935618	0.259214644
cg03586412	EYA2;EYA2	20	6.27E-09	0.503191017	0.648433541
cg02965931	EYA4;EYA4;E	6	0.00120173	0.412847781	0.542465158
cg04548096	EYA4;EYA4;E	6	4.36E-05	0.467979746	0.595017991
cg07886701	FABP9	8	6.40E-06	0.190957794	0.318863509
cg04066177	FABP9	8	0.00425282	0.48612616	0.603558979
cg12470218	FAF1	1	2.90E-07	0.587309067	0.749071162
cg11032188	FAH	15	2.41E-11	0.388238249	0.611661648

cg18931398	FAM102B	1	0.00288132	0.297015354	0.406639341
cg11244648	FAM138D	12	1.32E-05	0.468417977	0.573764441
cg22219089	FAM149A;FA	4	0.0004443	0.233331374	0.353258172
cg13786023	FAM163A	1	2.11E-11	0.417186617	0.629420216
cg22781764	FAM187B	19	0.00411257	0.391041382	0.527730359
cg08284758	FAM189A1	15	8.33E-10	0.351768037	0.500647631
cg26330365	FAM189A1	15	6.88E-10	0.348381734	0.480594509
cg19838164	FAM189A1	15	4.71E-08	0.704895722	0.836576087
cg24222175	FAM19A5;FA	22	3.36E-06	0.399162994	0.595930829
cg11562401	FAM19A5;FA	22	1.13E-11	0.668587915	0.783186976
cg18161025	FAM5B	1	1.14E-06	0.13701675	0.240780493
cg27050407	FAM65B	6	0.00772853	0.468330452	0.593205195
cg16689937	FAM71D;FAM	14	1.20E-13	0.128881589	0.32856083
cg22248750	FAM82A1	2	0.00203714	0.156733386	0.260235671
cg08064683	FAT1	4	8.94E-05	0.400115198	0.570521172
cg08070200	FAT1	4	0.00017381	0.283674662	0.428037721
cg00061306	FBF1	17	3.11E-11	0.481325966	0.71799217
cg07638689	FBN3	19	2.90E-12	0.144820994	0.27965085
cg22325186	FBRSL1	12	0.00027915	0.583111464	0.743176562
cg04803930	FBRSL1	12	0.00041466	0.46921946	0.624197686
cg24462656	FBRSL1	12	0.00138587	0.148065734	0.248960721
cg13254809	FBXO33	14	4.98E-12	0.740800591	0.85822195
cg06393098	FBXO46	19	1.76E-06	0.34345767	0.498670113
cg04874286	FGD6	12	0.00014971	0.169777584	0.278071189
cg25921543	FHIT;FHIT	3	0.00025892	0.686904474	0.811129119
cg22851781	FIBCD1;FIBCI	9	8.18E-06	0.643292719	0.779941856
cg08377980	FKBP1AP1	19	1.18E-05	0.452535825	0.590383881
cg22160595	FKBP6;FKBP6	7	2.45E-10	0.76283553	0.870325337
cg07171492	FKBP6;FKBP6	7	1.57E-11	0.641096878	0.743556214
cg14020824	FLJ20184	4	1.36E-08	0.296940711	0.450937988
cg25370441	FLJ20184	4	3.15E-06	0.366558755	0.507302679
cg08970682	FLJ20184	4	1.60E-07	0.326211209	0.443943755
cg27126442	FLJ20184;FLJ	4	3.60E-06	0.29589848	0.435881674
cg16096766	FLJ37307;FLJ	13	1.43E-14	0.574229014	0.734762486
cg18997137	FLJ37307;FLJ	13	1.44E-14	0.376476807	0.506652009
cg08508761	FLT1	13	5.88E-10	0.335315255	0.473376859
cg13800491	FLT1;FLT1;FL	13	0.00018995	0.212271768	0.329388577
cg19512693	FLT1;FLT1;FL	13	6.11E-11	0.612892429	0.714657009
cg01771462	FMN1	15	4.82E-07	0.631826238	0.754382041
cg21617353	FMNL1	17	0.00092447	0.281406994	0.405479287
cg20408776	FMNL1	17	0.00155892	0.247766182	0.354768351
cg15705810	FMNL2	2	0.0105953	0.186577385	0.288244411
cg15129663	FMO1	1	6.42E-10	0.370304347	0.517909988
cg14513071	FOXD2;FOXD	1	0.01788734	0.582111259	0.713485281
cg25481160	FOXP1	3	4.56E-07	0.196676021	0.351828635
cg23199517	FOXP1;FOXP	3	0.01620774	0.232432447	0.340215042

cg18595137	FREM2	13	0.00312919	0.379196747	0.506686371
cg15470075	FRMD4A	10	2.68E-11	0.482787119	0.693282933
cg14621161	FUT9	6	4.04E-08	0.387706414	0.608148672
cg16860392	FYN;FYN;FYN	6	1.13E-06	0.184726892	0.339694017
cg06325515	GABARAPL2	16	0.00028503	0.526307401	0.634867955
cg18576667	GABRG3	15	5.46E-19	0.292649917	0.693821837
cg13780614	GALK2;GALK.	15	0.00020873	0.519217384	0.622556026
cg06766860	GALNT9	12	0.00121929	0.324330425	0.474425719
cg22149783	GALNT9	12	7.96E-09	0.411989161	0.555172649
cg17479830	GALNT9	12	1.36E-10	0.366793996	0.498341785
cg08102611	GAS7	17	0.00233365	0.303908055	0.413204207
cg23972785	GATA4	8	0.00080116	0.196045295	0.310545398
cg16204205	GATA6	18	4.17E-11	0.507939806	0.726590379
cg14880184	GATA6	18	3.95E-06	0.48835436	0.670395662
cg09507790	GATA6	18	2.15E-10	0.320476629	0.482963605
cg26987699	GATA6	18	0.00011965	0.650776454	0.773395782
cg13937164	GATA6	18	7.21E-10	0.303342406	0.417052036
cg19177125	GATA6	18	1.12E-07	0.693531087	0.806317798
cg13411789	GCNT2	6	0.00011277	0.235766643	0.338364184
cg07320630	GCOM1;GCO	15	4.20E-09	0.171951896	0.348731587
cg00344358	GDF11	12	1.46E-11	0.266990631	0.42303894
cg17870357	GFRA1;GFRA	10	1.65E-06	0.694977303	0.800950594
cg01171885	GGH	8	1.71E-05	0.573720179	0.675010294
cg17049328	GHRH	20	6.43E-09	0.590425354	0.715665316
cg22736037	GIMAP4	7	1.81E-11	0.134253327	0.28585008
cg24413842	GIMAP7	7	4.21E-06	0.357079671	0.506270139
cg00051483	GIMAP7	7	1.02E-05	0.185099481	0.303602659
cg17643598	GIMAP7	7	0.00046948	0.233056017	0.343250221
cg19063768	GINS1	20	0.00039973	0.334604248	0.452049847
cg17215361	GLB1L2	11	5.71E-13	0.502928052	0.720824129
cg18131646	GLB1L2	11	4.56E-14	0.41655748	0.57335515
cg14455592	GLB1L2	11	2.51E-11	0.643590609	0.76578227
cg13847898	GLDC	9	5.07E-06	0.596886722	0.700517112
cg10559151	GLI2	2	3.73E-05	0.564527722	0.66923966
cg24747122	GNA13	17	2.66E-07	0.412955229	0.609766546
cg24401199	GNA15	19	0.01431372	0.270219176	0.378017989
cg19047226	GNA15	19	7.66E-05	0.440060883	0.542292231
cg08535918	GNAO1;GNA	16	2.05E-10	0.497845811	0.606930797
cg08626004	GNG7	19	1.06E-05	0.525738803	0.629858002
cg15418809	GNPNAT1	14	0.00777642	0.408633771	0.508881501
cg02908963	GPA33	1	5.98E-07	0.388308372	0.52111964
cg21222888	GPC6	13	0.00222181	0.267649172	0.367684975
cg11937508	GPR1;GPR1	2	1.67E-05	0.681163833	0.782818374
cg11506658	GPR126;GPR	6	0.00044259	0.580683926	0.688125777
cg01324963	GPR160	3	1.55E-07	0.429844267	0.602992945
cg21221690	GPR177;GPR	1	0.00438052	0.526856477	0.631385653

cg18967835	GPR18;GPR1	13	2.03E-05	0.513305191	0.626217867
cg08343644	GPR56;GPR5	16	0.00022979	0.228654518	0.328806952
cg10336790	GPR85;GPR8	7	3.91E-08	0.20126941	0.333775341
cg09957864	GPT	8	0.00309339	0.256534286	0.368702159
cg05241828	GPT	8	0.00491842	0.239414925	0.346064654
cg15393903	GRID1	10	2.67E-07	0.468022434	0.632664599
cg22902161	GRID2	4	2.70E-17	0.369530154	0.549255056
cg21409965	GRIK3	1	1.01E-12	0.406451568	0.557389642
cg03935060	GRIN2A;GRIN	16	4.00E-08	0.496658765	0.604490135
cg16564180	GRK7	3	4.90E-07	0.464777007	0.615181056
cg01584457	GRK7	3	8.11E-06	0.354118274	0.484169411
cg22261780	GRK7	3	0.00013136	0.630656375	0.735287784
cg17107112	GRM4	6	3.80E-08	0.323220643	0.439813623
cg26073844	GSDMC;GSDI	8	2.92E-05	0.545590058	0.669863728
cg23725454	GSTP1	11	1.15E-07	0.181972506	0.306809468
cg13109106	GTF2B	1	0.01622653	0.376972998	0.518553635
cg18118198	GZMB	14	7.58E-09	0.392534612	0.571108382
cg11781421	HAPLN4	19	3.22E-08	0.2377476	0.341858492
cg08615818	HCCA2	11	0.00276245	0.442284182	0.555173624
cg04902924	HCCA2;FAM9	11	5.15E-06	0.611063095	0.713361689
cg20894936	HCCA2;KRTA	11	6.80E-08	0.282921147	0.384329036
cg06507043	HCG9	6	0.00036591	0.636504244	0.738243564
cg06400446	HCN2	19	1.85E-13	0.53696095	0.664978391
cg18736431	HDAC4	2	1.19E-12	0.362830773	0.637308841
cg11707035	HDAC4	2	7.43E-17	0.434379972	0.659321226
cg22101174	HDAC4	2	5.77E-12	0.335219291	0.520815666
cg20298668	HDAC4	2	1.37E-19	0.142620463	0.326577595
cg17356718	HDAC4	2	1.25E-16	0.16346064	0.335199399
cg19449565	HDAC4	2	2.57E-12	0.149063126	0.294019497
cg25828346	HDAC4	2	5.86E-08	0.578176645	0.714523909
cg10515232	HDAC4	2	3.16E-07	0.281613467	0.412377541
cg05171197	HDAC4	2	1.11E-09	0.193962683	0.311669548
cg05997414	HDAC4	2	0.00654368	0.408395836	0.522920557
cg27587095	HDAC4	2	5.69E-08	0.216667864	0.32497997
cg20706597	HDAC4	2	6.14E-05	0.647850451	0.753565627
cg17032161	HEPHL1	11	0.00045203	0.474000173	0.629398041
cg13799242	HEY2	6	0.00071114	0.560354693	0.667478122
cg12157444	HHLA1	8	1.32E-09	0.560817057	0.666851774
cg21783242	HIPK2;HIPK2	7	1.05E-07	0.610628181	0.739273616
cg01171339	HIST1H2AL	6	0.00035318	0.44071395	0.559086417
cg11639651	HKDC1	10	6.09E-06	0.41737305	0.554242412
cg23341612	HKDC1	10	7.46E-06	0.256264908	0.36701934
cg11762346	HKDC1;HKDC	10	1.02E-06	0.469355067	0.598923712
cg06423300	HLA-DQB2	6	0.01418233	0.514998111	0.62355441
cg20022036	HLA-DRB1	6	0.0024408	0.572676511	0.687348084
cg21638712	HMBS;HMBS	11	0.00184692	0.427639139	0.528420822

cg17131837	HMGA2;HMC	12	5.68E-11	0.375438784	0.57855957
cg17573720	HOTAIR	12	4.87E-09	0.202139129	0.369107787
cg00079219	HOTAIR	12	9.37E-07	0.508503293	0.669348194
cg05516489	HOTAIR	12	1.24E-09	0.35435354	0.494447823
cg18040901	HOTAIR	12	4.13E-05	0.385886547	0.512710405
cg08575233	HOXA11;HO	7	4.77E-10	0.234936199	0.37596036
cg20994254	HOXA11AS	7	0.00587019	0.538931115	0.680999519
cg00705992	HOXA11AS;H	7	5.00E-10	0.23870935	0.387363204
cg05311410	HOXA11AS;H	7	5.82E-06	0.174721435	0.297142812
cg24446586	HOXA11AS;H	7	1.47E-05	0.14988181	0.269687961
cg13352750	HOXA11AS;H	7	0.00024716	0.193977451	0.294458433
cg15982700	HOXA3;HOX/	7	6.68E-06	0.301558911	0.460137973
cg21556281	HOXA3;HOX/	7	3.55E-06	0.310715817	0.458327466
cg16644023	HOXA3;HOX/	7	0.00117069	0.327094255	0.454788175
cg16748008	HOXA3;HOX/	7	1.94E-06	0.423534842	0.546196026
cg16406967	HOXA3;HOX/	7	3.60E-06	0.604180378	0.726003468
cg18680977	HOXA3;HOX/	7	3.21E-06	0.635393737	0.750653259
cg00318947	HOXA3;HOX/	7	0.00479451	0.617596803	0.722567516
cg11908057	HOXA4	7	2.52E-05	0.363039846	0.479304287
cg22660933	HOXB1	17	2.93E-09	0.462850631	0.636952848
cg04904318	HOXB1	17	3.79E-08	0.234689115	0.400658451
cg08076955	HOXB1	17	6.57E-07	0.457967519	0.615082247
cg02497558	HOXB1	17	5.37E-09	0.313246179	0.464048089
cg13752649	HOXB1	17	5.65E-12	0.237577198	0.368659108
cg22296593	HOXB1	17	1.38E-12	0.209155219	0.334008758
cg24900666	HOXB1	17	2.18E-09	0.540333029	0.657636369
cg23530553	HOXB2	17	2.51E-08	0.294775948	0.420267304
cg13280788	HOXB3	17	4.00E-18	0.177144472	0.503397231
cg16787431	HOXB3	17	2.26E-10	0.341101066	0.637106348
cg24767968	HOXB3	17	1.93E-16	0.229628265	0.498451901
cg13293524	HOXB3	17	1.43E-14	0.253182843	0.517932844
cg06186155	HOXB3	17	1.60E-09	0.373105028	0.636128598
cg12570134	HOXB3	17	6.52E-17	0.199525786	0.455790725
cg24963001	HOXB3	17	3.65E-16	0.146839012	0.389878484
cg02458062	HOXB3	17	2.85E-13	0.197735802	0.438151963
cg19236493	HOXB3	17	2.67E-11	0.288485185	0.510550989
cg23014425	HOXB3	17	4.23E-09	0.457077893	0.676754325
cg02873421	HOXB3	17	8.79E-11	0.249245067	0.452812088
cg10165801	HOXB3	17	4.51E-11	0.266973857	0.468153783
cg04117801	HOXB3	17	1.82E-12	0.212394507	0.407140251
cg04800503	HOXB3	17	2.29E-11	0.348602851	0.540429792
cg21853871	HOXB3	17	1.09E-09	0.172550055	0.346941835
cg02749463	HOXB3	17	1.01E-14	0.145974263	0.320360203
cg19986012	HOXB3	17	4.14E-10	0.283640144	0.453884388
cg05387167	HOXB3	17	2.92E-11	0.18057127	0.344000965
cg01593673	HOXB3	17	1.95E-13	0.134843065	0.286732872

cg02836478	HOXB3	17	3.17E-13	0.134591962	0.279216384
cg21872782	HOXB3	17	0.000215	0.325794384	0.4653167
cg15255390	HOXB3	17	2.46E-10	0.262172841	0.395135145
cg23551720	HOXB3	17	0.00105759	0.665640715	0.788656363
cg21399057	HOXB3	17	3.20E-06	0.225682062	0.345054958
cg27656658	HOXB3	17	9.57E-06	0.183679193	0.297277941
cg00524443	HOXB3	17	0.00067522	0.312471603	0.420777898
cg15065049	HOXB3	17	1.30E-07	0.180996597	0.282967439
cg22053945	HOXB3;HOXE	17	2.30E-10	0.357607149	0.654592258
cg12910797	HOXB3;HOXE	17	5.03E-16	0.149944802	0.431426697
cg06395298	HOXB3;HOXE	17	5.34E-12	0.269006937	0.546954716
cg24761525	HOXB3;HOXE	17	5.08E-14	0.144830005	0.32036075
cg04014328	HOXB4	17	4.60E-16	0.237650025	0.450715778
cg11971423	HOXB4	17	2.26E-12	0.132813503	0.262715357
cg10585948	HOXB4;HOXE	17	5.45E-16	0.282158032	0.59677189
cg07318128	HOXB6	17	1.71E-13	0.224718662	0.414996912
cg14698646	HOXB7	17	1.38E-15	0.207889036	0.452616506
cg22502153	HOXB7	17	9.88E-15	0.193329488	0.347515043
cg23669081	HOXB7	17	7.59E-06	0.158836838	0.263108164
cg07266404	HOXC4;HOXC	12	1.22E-05	0.336747556	0.469027794
cg11746813	HOXC4;HOXC	12	0.00403072	0.375093701	0.496657963
cg18473521	HOXC4;HOXC	12	0.00019608	0.52783917	0.642436604
cg22747076	HOXC4;HOXC	12	0.00252345	0.503965889	0.607588622
cg01293179	HOXD8	2	1.71E-12	0.135705034	0.23646904
cg15207662	HRH2;HRH2	5	5.03E-10	0.404473145	0.5776817
cg14773365	HRH2;HRH2	5	1.91E-05	0.331603954	0.46147282
cg16684691	HS6ST3	13	1.54E-05	0.289549059	0.407302572
cg06411137	HTATIP2;HTA	11	2.38E-10	0.643727613	0.754839554
cg16921789	HTR1F;HTR1I	3	8.98E-08	0.242107434	0.354449538
cg17875135	HTRA1	10	5.56E-10	0.214206399	0.390467811
cg21184369	HTRA4;PLEKH	8	0.00166128	0.45832807	0.587742796
cg02669055	IDO2	8	4.91E-05	0.443440809	0.558631038
cg12565636	IDO2	8	0.01064056	0.277109904	0.380298832
cg11823736	IDO2	8	0.00074901	0.447646515	0.54874801
cg13304609	IFI44L	1	5.51E-06	0.58660786	0.704656599
cg17980508	IFI44L	1	0.00235142	0.240638211	0.347623893
cg02897824	IGFN1	1	2.63E-13	0.254505874	0.37792127
cg00297282	IKZF1	7	5.12E-07	0.30736877	0.474073469
cg22870661	IL17RD	3	3.39E-09	0.475361189	0.646898662
cg04100971	IL18	11	0.00473539	0.346456598	0.457481464
cg06658391	IL1RN;IL1RN;	2	1.55E-06	0.471247741	0.592614855
cg07424400	IL29	19	9.57E-07	0.377755045	0.478031751
cg04164048	IL34;IL34	16	0.00026853	0.442123749	0.557370479
cg10409753	IMPG1	6	8.41E-14	0.177549963	0.293064288
cg15291905	INHBA;LOC28	7	0.00310507	0.299545588	0.410759358
cg20522046	INTS6;INTS6;	13	1.02E-05	0.411854212	0.564959566

cg22042465	INTS9;INTS9;	8	4.90E-06	0.563454991	0.66958359
cg06381350	IRGC	19	2.68E-05	0.48233088	0.590361054
cg25312054	IRS2	13	4.63E-09	0.467441892	0.70089874
cg01569664	IRS2	13	4.79E-09	0.360722225	0.514565639
cg21266798	IRS2	13	6.35E-12	0.200626603	0.322903514
cg21601493	IRS2	13	2.23E-11	0.334219987	0.442430139
cg25924746	IRS2	13	0.00027351	0.353483331	0.461188893
cg06088745	IRX3	16	2.24E-15	0.209550676	0.461185019
cg07984286	IRX3	16	1.26E-16	0.171144371	0.296750525
cg05099576	IRX6	16	3.82E-08	0.521292254	0.681320844
cg02602550	IRX6	16	1.37E-13	0.295714809	0.43462665
cg07541744	IRX6	16	2.10E-07	0.58818141	0.712983646
cg01554410	IRX6	16	0.00077526	0.491095103	0.601188349
cg02198701	IRX6	16	3.15E-05	0.376815863	0.484706127
cg26293019	ISL1	5	1.18E-07	0.242989558	0.407246625
cg17686487	ISL1	5	1.81E-12	0.171938519	0.281851819
cg18739865	ISL1	5	3.74E-13	0.097750048	0.200739193
cg10425970	ITCH	20	1.51E-16	0.177269171	0.360623641
cg12481426	ITCH	20	3.25E-05	0.333313113	0.435716551
cg19801256	ITGA1	5	0.00011175	0.339220071	0.450944698
cg25422405	ITGAE	17	1.26E-16	0.153772402	0.300746211
cg02225720	ITGAE	17	0.00336887	0.232651463	0.349650096
cg11011533	ITGAE	17	7.22E-12	0.184837054	0.292078737
cg07249742	ITGB5	3	2.00E-09	0.189146994	0.3466949
cg10094191	ITLN1	1	6.34E-10	0.435065162	0.621438141
cg15739913	ITPR1;ITPR1;	3	2.59E-13	0.405070923	0.632131822
cg05795849	ITPR1;ITPR1;	3	1.38E-10	0.135242768	0.273594831
cg11085762	JAK3	19	0.0108759	0.706795896	0.825895425
cg19484995	JAM3	11	0.00064917	0.522773211	0.630251162
cg15153264	JMJD1C	10	4.96E-08	0.368684501	0.506651559
cg00295293	JPH1	8	0.00015314	0.3574932	0.476625269
cg23185753	KCNAB1;KCN	3	9.72E-09	0.576868967	0.788417974
cg14983936	KCNH7	2	0.000371	0.322110949	0.453639205
cg17782848	KCNIP1;KCN	5	1.60E-09	0.490153752	0.651257208
cg11612852	KCNIP4;KCN	4	1.89E-07	0.439109911	0.611939783
cg10867349	KCNK10	14	4.40E-07	0.240013261	0.369217872
cg00848374	KCNK2;KCNK	1	0.0019418	0.286345407	0.390498941
cg13730736	KCNT1	9	3.94E-09	0.259341341	0.388234955
cg24193140	KCTD16	5	1.10E-05	0.4966498	0.630219421
cg01853079	KDELC2	11	8.65E-06	0.241601159	0.38546849
cg03358468	KDM4B	19	0.0003499	0.380140392	0.54974186
cg13842202	KDM4C	9	5.92E-07	0.445289058	0.597534004
cg24128630	KDM6B;TME	17	0.00066189	0.674572633	0.774721288
cg08145381	KIAA0317	14	0.00016526	0.251067015	0.367620764
cg27048684	KIAA0556	16	1.67E-09	0.542694321	0.717126485
cg27636914	KIAA0556	16	1.08E-12	0.243567947	0.393620669

cg26540647	KIAA0556	16	2.24E-12	0.504329903	0.60777682
cg26526047	KIAA1217	10	4.69E-15	0.278106246	0.518943603
cg05217312	KIAA1217	10	0.00059784	0.515416228	0.623454965
cg17646571	KIAA1217	10	7.18E-08	0.687326256	0.792157619
cg26680350	KIAA1217;KIF	10	6.01E-08	0.578842305	0.691021222
cg07200490	KIAA1244	6	0.00022341	0.368595323	0.474924595
cg23464271	KIAA1409;CC	14	0.0003625	0.260555381	0.366774859
cg25850629	KIAA1522	1	3.07E-12	0.26129547	0.441112251
cg19486070	KIAA1908;KIF	7	3.53E-12	0.232518818	0.413249896
cg00399295	KIF22	16	1.20E-09	0.558236367	0.660885809
cg24359109	KIF26B	1	9.11E-10	0.390816566	0.497181252
cg18292711	KIF5B	10	0.00098551	0.440012046	0.556413852
cg23796755	KIRREL3;KIRF	11	4.73E-10	0.539546963	0.690677396
cg08336938	KIRREL3;KIRF	11	4.18E-10	0.64859683	0.77672659
cg12229775	KLF12	13	8.56E-05	0.330884821	0.43503474
cg03975844	KLHDC8A	1	2.01E-14	0.562367075	0.746573113
cg10769618	KLHL23	2	3.88E-10	0.198723005	0.358297173
cg15792367	KLK11;KLK11	19	4.57E-15	0.242256477	0.463567906
cg23018063	KLK11;KLK11	19	2.21E-12	0.32454308	0.469557784
cg09735896	KRT12	17	0.00035756	0.335988188	0.447805989
cg04986934	KRT12	17	0.00071696	0.388073425	0.498322728
cg14782970	KRT3	12	0.00114157	0.305083334	0.461955331
cg24184737	KRTAP24-1	21	8.82E-06	0.229551062	0.351373866
cg21815502	KRTAP4-9	17	1.94E-05	0.396830514	0.507454875
cg08983253	KRTAP5-8	11	2.34E-09	0.284886025	0.386460514
cg19826115	KYNU;KYNU	2	0.00012701	0.293680108	0.466992461
cg04671742	LAG3;LAG3	12	1.64E-05	0.352267891	0.457935309
cg00222175	LARGE;LARGI	22	6.76E-08	0.527278838	0.671411833
cg01089331	LCORL;LCORI	4	1.54E-06	0.554482039	0.68258092
cg06818159	LDB2;LDB2	4	3.58E-05	0.259463204	0.367408794
cg01655427	LEF1;LEF1;LE	4	8.83E-10	0.261638579	0.429185255
cg21600258	LEF1;LEF1;LE	4	1.18E-11	0.157733055	0.281010342
cg08962888	LGALS3BP	17	6.84E-19	0.208882178	0.479014008
cg03082060	LGALS8	1	1.51E-11	0.27350904	0.46490204
cg03763118	LGR4	11	5.82E-05	0.169991317	0.277246417
cg16353006	LHX9	1	2.37E-08	0.174822589	0.324854743
cg15544654	LHX9	1	1.02E-09	0.140340723	0.252107637
cg20495052	LIN7A	12	4.35E-06	0.274330032	0.418807822
cg02744046	LIPC	15	8.07E-07	0.558359339	0.69615939
cg00870269	LIPC	15	3.34E-08	0.600551459	0.713945753
cg10512951	LMBRD1	6	6.06E-05	0.309601931	0.436550375
cg06697448	LMCD1	3	0.00023712	0.289585877	0.409974405
cg06266100	LMCD1	3	4.96E-08	0.525131992	0.634646373
cg19161251	LMO4	1	4.49E-10	0.456765137	0.639025005
cg23087598	LMX1A	1	1.59E-06	0.256846728	0.375429432
cg05229742	LMX1A	1	1.17E-09	0.460000353	0.560636799

cg05899118	LMX1A;LMX1	1	0.00020637	0.648291207	0.7530943
cg19684083	LNx1;LNx1	4	0.00458785	0.479507303	0.597612616
cg21580089	LNx1;LNx1	4	0.00248529	0.307735999	0.417259823
cg17282466	LOC1001300	4	1.53E-05	0.476837104	0.594632122
cg24956533	LOC145845	15	2.32E-19	0.292901232	0.693498865
cg06451900	LOC145845	15	6.84E-19	0.206230869	0.570914146
cg11965311	LOC145845	15	2.82E-16	0.348651509	0.704055374
cg22444584	LOC145845	15	2.24E-18	0.196204269	0.516611185
cg00216138	LOC145845	15	8.65E-13	0.155440146	0.400609003
cg00213301	LOC145845	15	1.68E-12	0.327784976	0.546078344
cg20034372	LOC145845	15	7.18E-19	0.151650297	0.317965087
cg12309653	LOC145845	15	1.92E-09	0.218735766	0.383252196
cg00130808	LOC145845	15	9.27E-06	0.559025095	0.704828172
cg16802592	LOC145845	15	1.75E-19	0.122347994	0.265162912
cg17921924	LOC145845	15	0.00115091	0.493206231	0.625082794
cg26727768	LOC145845	15	0.00366763	0.434185876	0.550921476
cg22121570	LOC145845	15	0.00158902	0.399445383	0.514430905
cg14475966	LOC145845	15	1.03E-07	0.566824602	0.679053613
cg16890051	LOC145845	15	5.29E-11	0.06955528	0.171497657
cg27042266	LOC145845	15	2.83E-13	0.070953284	0.172111749
cg26330116	LOC145845	15	7.77E-13	0.100549163	0.20086804
cg03228943	LOC150185	22	3.10E-10	0.319225198	0.462187158
cg07977927	LOC154822	7	0.0001539	0.477198984	0.611191184
cg01454752	LOC157627	8	1.29E-07	0.302404935	0.430187027
cg27598956	LOC157627	8	6.63E-11	0.256747179	0.368351104
cg01787735	LOC162632	17	9.76E-05	0.419096878	0.550629262
cg24205805	LOC162632	17	1.08E-06	0.671983041	0.776329961
cg24527452	LOC220115	13	0.00201701	0.411745551	0.532631714
cg08930147	LOC283999	17	0.00012339	0.414483	0.525030556
cg23627062	LOC285045	2	1.25E-06	0.370371292	0.538092939
cg18413237	LOC285954;L	7	0.00969261	0.305389367	0.406406208
cg05885137	LOC285954;L	7	0.00557884	0.327627931	0.443735632
cg19535073	LOC285954;L	7	4.00E-11	0.237734798	0.351651028
cg16662846	LOC339535	1	2.71E-05	0.240549111	0.375293984
cg02249228	LOC340357	8	4.94E-07	0.353152518	0.483818048
cg12744859	LOC404266;T	17	5.42E-10	0.308961094	0.5143466
cg19047868	LOC404266;T	17	2.61E-11	0.345094993	0.526789857
cg00711072	LOC404266;T	17	3.53E-07	0.484045082	0.654275072
cg20591728	LOC404266;T	17	5.30E-11	0.344620495	0.517629103
cg09704116	LOC404266;L	17	3.87E-12	0.194392431	0.368027047
cg10588962	LOC404266;L	17	2.03E-06	0.295868141	0.455741988
cg09595185	LOC404266;L	17	0.00481273	0.452862132	0.563892315
cg25960038	LOC404266;L	17	0.00820665	0.569374446	0.670326276
cg18127922	LOC404266;L	17	4.69E-15	0.236543441	0.483612061
cg05487507	LOC404266;L	17	4.31E-11	0.247791328	0.424107371
cg17062109	LOC404266;L	17	3.35E-11	0.159367967	0.29296733

cg24889708	LOC404266;L	17	2.01E-14	0.134979094	0.384932802
cg23217463	LOC404266;L	17	1.16E-09	0.496154398	0.702377788
cg15908709	LOC404266;L	17	2.05E-13	0.15479632	0.339530032
cg22583148	LOC404266;L	17	1.32E-09	0.256946711	0.419227203
cg10308785	LOC404266;L	17	8.84E-13	0.096574951	0.216614267
cg08832695	LOC404266;L	17	6.49E-12	0.181840957	0.282026827
cg00682096	LOC404266;L	17	7.76E-13	0.35084197	0.538617087
cg21864868	LOC404266;L	17	7.37E-15	0.16325406	0.314087659
cg01558401	LOC728264	5	8.45E-09	0.353916068	0.468788894
cg02927821	LOC730755	17	1.90E-12	0.250929189	0.440317962
cg09603824	LOH3CR2A	3	0.00494547	0.255070922	0.358855665
cg01191064	LOX	5	4.83E-08	0.428928493	0.558946772
cg05580512	LPCAT1	5	4.15E-12	0.411401062	0.694189469
cg06755258	LPCAT1	5	1.03E-06	0.313066716	0.547373502
cg04005843	LPCAT1	5	5.80E-13	0.260817868	0.435460262
cg11229797	LPCAT1	5	1.24E-06	0.708125459	0.833921555
cg16406385	LPHN3	4	1.77E-08	0.473891822	0.645102781
cg22671986	LPHN3	4	1.17E-06	0.399984142	0.565225727
cg12646794	LPHN3	4	2.66E-07	0.258741766	0.3880806
cg02075410	LRBA;MAB21	4	5.17E-05	0.250908534	0.363016938
cg03252605	LRP1B	2	3.02E-11	0.211505003	0.339471693
cg26525861	LRP5	11	3.73E-05	0.556429859	0.680253614
cg01822532	LRP5	11	0.00010396	0.620436341	0.738244747
cg25366155	LRP5	11	0.00034782	0.288118621	0.389776355
cg11365440	LRR2;LRR2	3	0.00010635	0.367543046	0.471444155
cg04629424	LRR23;LRR2	12	1.20E-07	0.441511724	0.555202607
cg17649560	LRR37B2	17	4.63E-15	0.612864021	0.828667011
cg14788655	LRR4C	11	4.50E-11	0.691033881	0.81681554
cg13184448	LRRFIP1;LRRF	2	0.00055755	0.48975245	0.625134179
cg13262467	LRR1Q4	3	1.94E-06	0.259661798	0.395114706
cg23479065	LRRN1	3	0.00010035	0.514636463	0.637470364
cg09623845	LRRN1	3	2.92E-05	0.578994742	0.699425445
cg16056219	LTBP2	14	4.04E-10	0.134080752	0.296807928
cg11015348	LUZP2	11	0.0010624	0.567430384	0.67045226
cg21710826	MACC1	7	0.00316381	0.300879904	0.407973755
cg09230154	MACF1;MAC	1	3.31E-05	0.144746254	0.260105811
cg04653264	MAD1L1;MA	7	1.19E-05	0.429498644	0.568575141
cg07610468	MAD1L1;MA	7	5.13E-08	0.446952095	0.582461428
cg21767034	MAD1L1;MA	7	0.00917992	0.62282393	0.729202751
cg04170282	MAD1L1;MA	7	0.00025913	0.477016328	0.583156824
cg19266014	MAD1L1;MA	7	0.00013362	0.668093119	0.769004819
cg03331514	MAFK	7	5.78E-05	0.240953121	0.350190691
cg22850451	MAP1S	19	2.03E-08	0.619980846	0.736668386
cg18572353	MAP3K13	3	3.00E-06	0.243448424	0.378071866
cg15366423	MAPK4	18	2.62E-07	0.627077816	0.730613088
cg07289766	MBNL2;MBN	13	0.00246503	0.529970564	0.634998951

cg16893707	MBP;MBP	18	5.18E-18	0.233922959	0.510579966
cg07807210	MBP;MBP	18	9.88E-05	0.414545371	0.525089523
cg13852093	MBP;MBP	18	1.38E-10	0.218751837	0.322246874
cg00706570	MBP;MBP;M	18	1.25E-06	0.499919872	0.632308918
cg13375905	MBP;MBP;M	18	8.19E-08	0.706347315	0.819259466
cg00839132	MBP;MBP;M	18	3.65E-05	0.676762112	0.779653254
cg13450266	MCF2L	13	2.34E-09	0.443132872	0.643526913
cg18842310	MCF2L	13	8.97E-14	0.167095386	0.330712316
cg06905499	MCF2L;MCF2	13	1.43E-14	0.427835081	0.696703442
cg21331791	MCF2L;MCF2	13	4.65E-08	0.356778929	0.458807108
cg10855276	MCF2L;MCF2	13	4.24E-06	0.376529472	0.477649801
cg08130814	MCPH1	8	1.34E-06	0.52038695	0.667978483
cg15646626	MCPH1	8	2.63E-05	0.60476964	0.745582795
cg16529799	MCTP1;MCTI	5	9.97E-05	0.377813868	0.495630327
cg08426962	MCTP1;MCTI	5	1.53E-06	0.155057917	0.259687852
cg21105955	MDC1	6	2.02E-06	0.308378556	0.417684695
cg22964621	MDGA2	14	8.78E-06	0.452453301	0.574219085
cg20686446	MED25	19	1.48E-07	0.335515351	0.469753308
cg19390582	MED26	19	5.39E-11	0.422082811	0.602665264
cg26429266	MEGF10	5	7.60E-06	0.270044882	0.40939331
cg24258705	MET;MET	7	5.25E-05	0.2968911	0.452204876
cg11076668	MEX3B	15	0.00039251	0.474645714	0.6059797
cg05419798	MGAT5B;MG	17	8.09E-10	0.314497681	0.45420236
cg26518431	MGC12982;F	1	1.06E-06	0.46255184	0.595322161
cg06975633	MGC27382	1	3.95E-14	0.258282583	0.470779295
cg12942878	MGC2889;HF	3	6.09E-06	0.465753088	0.57228085
cg03421014	MGST2	4	1.55E-05	0.473868533	0.577924997
cg01589461	MIB2;MIB2;N	1	4.83E-12	0.247150157	0.378317527
cg19165249	MIB2;MIB2;N	1	4.23E-10	0.465910267	0.576628151
cg14249564	MICALCL	11	2.94E-08	0.524893176	0.68840957
cg01572694	MIR10A	17	4.15E-11	0.187521363	0.303284111
cg02206323	MIR1180;B9I	17	2.97E-05	0.533001481	0.652971988
cg24553547	MIR1180;B9I	17	0.00560855	0.767430326	0.875215319
cg07686441	MIR1266;MY	15	2.22E-07	0.424610692	0.53791548
cg25883149	MIR1471	2	9.17E-06	0.317936756	0.422195598
cg12779445	MIR153-2;PT	7	1.38E-07	0.563609202	0.700543968
cg23121785	MIR184	15	3.41E-10	0.596786693	0.698799415
cg25687874	MIR2117	17	3.57E-07	0.300549151	0.433285059
cg25249448	MIR216A	2	7.10E-09	0.462443549	0.575274969
cg25023761	MIR320B1	1	0.00010375	0.170832898	0.278277774
cg16595458	MIR548F3;CI	7	2.64E-09	0.429928486	0.599995137
cg21182526	MIR548N;OS	2	1.83E-05	0.423709195	0.569533892
cg03489020	MITF;MITF	3	0.00040494	0.389688717	0.514961889
cg03847535	MITF;MITF;N	3	5.35E-05	0.488541512	0.634841069
cg19365810	MLL3	7	0.00743094	0.411634767	0.517002284
cg20798249	MLNR	13	8.71E-05	0.400614372	0.506933262

cg14297867	MOBKL2B;IFI	9	2.92E-07	0.697001665	0.821716132
cg07331098	MOV10L1;M	22	0.0002406	0.298612119	0.430017993
cg11839415	MPL	1	0.00010658	0.244544137	0.362914357
cg13066461	MRGPRX2	11	0.00110553	0.402120338	0.528501867
cg16446783	MRGPRX4	11	8.51E-06	0.470971596	0.591990848
cg02608124	MRGPRX4	11	3.90E-05	0.268902087	0.373016293
cg10354406	MRPS35	12	1.16E-07	0.708754055	0.818559566
cg26632171	MSGN1	2	0.00018299	0.383127637	0.487383594
cg18434588	MSH3	5	0.00298351	0.253189497	0.356001789
cg04068914	MTHFSD;MTI	16	5.55E-06	0.415691808	0.542726086
cg08963616	MTMR7	8	4.63E-05	0.222842382	0.373252779
cg27596649	MTMR7	8	0.00016839	0.458675531	0.573552344
cg11750962	MTOR	1	4.22E-07	0.41180294	0.588729296
cg23002008	MTUS1;MTU	8	0.01702658	0.43896333	0.548897655
cg16753939	MUPCDH;ML	11	2.05E-07	0.476216914	0.578483725
cg15806880	MUPCDH;ML	11	8.21E-05	0.484274215	0.585325065
cg00421089	MYH1	17	1.82E-12	0.292677908	0.586726141
cg25650956	MYH1	17	2.71E-09	0.136687213	0.268512257
cg14833286	MYH1	17	3.32E-07	0.133534782	0.260284848
cg03564620	MYH6	14	2.40E-11	0.457116927	0.589987096
cg05241732	MYH6;MIR2C	14	4.62E-14	0.23513161	0.407556095
cg18449361	MYLK4	6	0.0090671	0.456382878	0.580634231
cg17129576	MYO18A;MY	17	3.08E-07	0.412285581	0.576332138
cg11508595	MYO1B;MYO	2	8.17E-06	0.399567428	0.575836941
cg03497895	MYO1E	15	0.00103992	0.372821754	0.480725382
cg21225667	MYO1E	15	0.00085249	0.231977258	0.338172035
cg22132788	MYO1G	7	0.00336094	0.286825601	0.39545094
cg12284098	MYOM2	8	9.46E-06	0.683614039	0.80820159
cg13428978	MYOM2	8	9.14E-05	0.428691078	0.528963899
cg16198468	MYST4	10	0.00129359	0.316361955	0.429803969
cg09022325	MYT1L	2	5.65E-13	0.416143752	0.577873105
cg13205617	MYT1L	2	6.87E-06	0.528735076	0.646486313
cg20345923	MYT1L	2	5.07E-13	0.474866134	0.582210258
cg17187705	NBEA	13	6.78E-10	0.588513543	0.748638742
cg15234400	NBLA00301	4	0.01811634	0.562270959	0.669133857
cg07681935	NBLA00301;f	4	1.20E-09	0.364836063	0.585955292
cg03031839	NCALD;NCAL	8	2.49E-07	0.619435227	0.728813559
cg27015161	NCOA1;NCO	2	0.00369455	0.23111129	0.34903066
cg09831875	NCOR2;NCO	12	8.59E-05	0.168112059	0.270333789
cg17521134	NCRNA0005	15	0.0003889	0.349784883	0.450744146
cg07073072	NCRNA0016	21	1.34E-16	0.175663121	0.364519769
cg13136556	NCRNA0016	21	2.38E-13	0.266607851	0.416777814
cg08762432	NEBL	10	2.78E-08	0.227285213	0.33909124
cg16582660	NEDD9	6	1.41E-15	0.410855529	0.627548241
cg19524009	NEK3;NEK3;N	13	0.00011179	0.555714909	0.697664723
cg08826184	NELL2;NELL2	12	4.31E-06	0.217937331	0.322299844

cg13861749	NETO1;NETO	18	2.15E-05	0.26510875	0.370143153
cg20712631	NEURL1B	5	0.00014353	0.389979111	0.498439832
cg15884713	NINJ2	12	0.00139121	0.282745783	0.385565949
cg06374325	NKX6-1	4	2.32E-17	0.197785843	0.449128195
cg02489958	NKX6-1	4	6.51E-08	0.135560828	0.313302368
cg18297736	NKX6-1	4	2.02E-09	0.100110018	0.265926849
cg27406678	NKX6-1	4	9.48E-09	0.125723317	0.287996125
cg24845848	NKX6-1	4	1.64E-11	0.100238717	0.246711893
cg22256677	NKX6-1	4	1.65E-08	0.121037894	0.266847017
cg25830182	NKX6-1	4	9.37E-12	0.088492276	0.225173051
cg22598426	NKX6-1	4	8.63E-06	0.172972527	0.284089773
cg02328758	NLGN1	3	0.00057677	0.327619331	0.438880753
cg22960621	NLGN1	3	0.00460684	0.291858135	0.395130687
cg04117590	NMNAT3	3	2.14E-09	0.319162132	0.491854558
cg18367578	NNMT	11	2.97E-05	0.210616206	0.31101172
cg05006942	NOB1	16	1.26E-08	0.330780299	0.503506515
cg03250947	NOTCH4	6	6.42E-05	0.424934804	0.56770377
cg03770952	NOVA2	19	0.00018678	0.376628614	0.497884055
cg06979108	NOX4	11	5.14E-08	0.373995506	0.518462602
cg26893231	NOX4;NOX4	11	1.42E-05	0.60958451	0.732961913
cg03018496	NR2F2	15	2.84E-10	0.186781571	0.361211223
cg17826834	NR2F2	15	2.41E-09	0.232891944	0.404199006
cg01213447	NR2F2	15	3.08E-06	0.334725334	0.500881727
cg26593946	NR2F2	15	3.66E-06	0.115899567	0.225803685
cg23734137	NR2F2	15	0.00150428	0.564308102	0.673966591
cg14143574	NR5A1	9	1.78E-16	0.516666501	0.724334732
cg22651812	NRG1	8	1.45E-05	0.433371235	0.569881822
cg27133711	NRG1	8	0.01740995	0.310259896	0.412032308
cg15339688	NRG3;NRG3;	10	9.49E-11	0.345454701	0.552326804
cg06850159	NRG3;NRG3;	10	5.96E-13	0.188496066	0.384694699
cg19731541	NRP2;NRP2;I	2	0.00183778	0.420482197	0.552963873
cg15573998	NRXN1;NRXN	2	1.04E-11	0.465535036	0.701953739
cg22159835	NRXN2;NRXN	11	2.15E-11	0.437437786	0.576411311
cg19345244	NTF3;NTF3	12	1.68E-07	0.488888257	0.69126658
cg05210558	NTM	11	3.08E-08	0.410472756	0.57471158
cg23759189	NTM	11	5.18E-08	0.425031082	0.551839916
cg27284627	NTM	11	3.17E-06	0.300535712	0.420573186
cg16670307	NTM	11	2.99E-05	0.228679032	0.346759192
cg04934246	NTM	11	0.00021014	0.687208305	0.797646842
cg06217320	NTM;NTM;N	11	0.0001441	0.395953534	0.52423218
cg13698224	NTRK2;NTRK	9	0.00068951	0.518046488	0.644945686
cg21085594	NUP50	22	0.00128025	0.570058651	0.673559309
cg25670974	NXN	17	2.14E-06	0.510818796	0.641066654
cg24355809	NXN	17	3.51E-06	0.419500178	0.536032375
cg25449513	NXPH2	2	1.19E-07	0.161521293	0.296776334
cg19983775	OAT	10	0.00034879	0.122997986	0.230225243

cg05987567	OCM	7	2.15E-18	0.230458656	0.503744043
cg16873973	OCM	7	2.42E-16	0.499241398	0.688131151
cg22152667	OCM2	7	7.93E-10	0.732826418	0.834857936
cg16531386	ODZ2	5	6.52E-17	0.233180804	0.554319882
cg16434098	ODZ2	5	7.43E-07	0.601558795	0.730683348
cg00192966	ODZ2	5	7.57E-06	0.199556995	0.30504825
cg20122043	OPCML	11	1.12E-12	0.359155902	0.520458406
cg06398138	OPCML	11	3.46E-10	0.52379611	0.655191935
cg04745004	OPCML	11	1.38E-06	0.544496002	0.650268922
cg26936577	OR10A5	11	2.72E-05	0.619441679	0.721821234
cg07055879	OR2A5	7	3.80E-08	0.134022543	0.243728932
cg20201128	OR51E2	11	2.62E-05	0.543594909	0.645246165
cg23313445	OR51F1	11	7.42E-08	0.488545796	0.62351942
cg21966764	OR52B2	11	4.31E-07	0.335297359	0.487358801
cg25236050	OR6C65	12	8.84E-09	0.70789374	0.811410085
cg09293773	OR9Q2;OR9C	11	0.00186059	0.595406053	0.707088504
cg00797500	PACRG;PACR	6	5.11E-13	0.518806655	0.807431099
cg10584587	PACRG;PACR	6	6.42E-17	0.567287931	0.811087518
cg04978831	PACRG;PACR	6	3.90E-11	0.601015947	0.748931701
cg01941881	PACS2;PACS2	14	0.00018085	0.361436211	0.473827991
cg03612692	PADI3	1	3.39E-07	0.38410513	0.490624144
cg01923775	PALLD;PALLD	4	0.0230163	0.530608657	0.636398742
cg12729166	PALMD	1	1.17E-10	0.386686097	0.597468018
cg14648936	PAN3;PAN3	13	5.24E-06	0.577075404	0.681530332
cg08227786	PARN;PARN	16	4.03E-07	0.54245147	0.680459255
cg10787442	PARP10	8	3.40E-06	0.534383569	0.646770413
cg13518121	PARVA	11	0.04867488	0.255751718	0.35799769
cg01446894	PAX1	20	6.24E-09	0.211367211	0.311491971
cg24954809	PAX2;PAX2;P	10	1.14E-14	0.25389957	0.385965392
cg02981183	PAX2;PAX2;P	10	1.11E-07	0.470883743	0.581617149
cg24829778	PAX3;PAX3;P	2	7.13E-05	0.228290813	0.357562602
cg10738025	PBX4	19	0.00048778	0.331838541	0.443042275
cg18460830	PCBP3;PCBP3	21	3.62E-05	0.212896864	0.329093306
cg04636538	PCDH18	4	6.17E-06	0.398641505	0.516914481
cg21560241	PCGEM1	2	8.76E-06	0.532251987	0.63483378
cg13904968	PCK1	20	9.51E-06	0.385102115	0.499961508
cg22530111	PCNXL2	1	8.57E-05	0.594398276	0.72099395
cg22681709	PDE11A;PDE11A	2	0.00323041	0.331768	0.453978125
cg08462879	PDE4B;PDE4B	1	7.70E-05	0.303167766	0.418186822
cg23094665	PDE4D	5	7.41E-07	0.675700317	0.779341503
cg27160952	PDE9A;PDE9A	21	1.12E-07	0.70782611	0.843548525
cg20210051	PDZRN4;PDZRN4	12	2.26E-07	0.289910709	0.448306582
cg26286901	PEBP4	8	0.00018835	0.343206534	0.459639222
cg19185544	PEBP4	8	3.72E-08	0.540468018	0.644912882
cg25401594	PEG3;PEG3;P	19	1.16E-11	0.576044538	0.747095179
cg19212949	PEG3;PEG3;P	19	1.23E-10	0.334674467	0.504948814

cg18706888	PEG3;PEG3;Z	19	9.46E-07	0.284876449	0.402647329
cg18668753	PEG3;PEG3;Z	19	2.09E-06	0.318147462	0.435222272
cg06581718	PEX11G	19	5.73E-05	0.53575396	0.64033348
cg15226608	PEX5L	3	0.01425254	0.489949737	0.617231368
cg07580620	PGCP	8	4.10E-07	0.743334029	0.846172023
cg04909257	PGD	1	2.26E-06	0.586438146	0.689993006
cg10129944	PHACTR1	6	5.53E-11	0.262327226	0.430686849
cg20548013	PHACTR1	6	6.49E-15	0.165097356	0.329506437
cg04274883	PHACTR1	6	0.00277571	0.363909436	0.464602175
cg20131219	PHLDB2;PHLI	3	0.00441302	0.321491131	0.456396098
cg13022129	PHYHD1;PHY	9	1.33E-06	0.463508647	0.613217283
cg09304624	PI15	8	6.39E-06	0.35505808	0.509929046
cg24200175	PICALM;PICA	11	0.00639105	0.220754314	0.327517165
cg25008444	PIK3R1;PIK3F	5	4.52E-07	0.294684746	0.488774978
cg16664523	PIK3R1;PIK3F	5	2.47E-06	0.312322705	0.485435112
cg18606375	PITX1	5	1.37E-19	0.198719749	0.578589232
cg00396667	PITX1	5	2.62E-18	0.204429787	0.571131304
cg04223420	PITX1	5	2.98E-16	0.271043151	0.523026882
cg04101060	PITX1	5	3.76E-18	0.266421737	0.515400397
cg05171952	PITX1	5	1.32E-17	0.201411178	0.439508925
cg07274716	PITX1	5	6.66E-13	0.332886886	0.565795178
cg02037307	PITX1	5	1.66E-13	0.441013863	0.65640278
cg12673103	PITX1	5	1.27E-20	0.132379202	0.340180515
cg23064601	PITX1	5	5.73E-15	0.111370862	0.284981887
cg21614303	PITX1	5	2.50E-10	0.175402675	0.337765295
cg22827250	PITX1	5	4.45E-12	0.397155749	0.547350036
cg08373003	PITX1	5	4.99E-16	0.051829276	0.173341187
cg09854515	PITX2;PITX2	4	6.60E-14	0.252621743	0.536247267
cg03184290	PITX2;PITX2	4	2.54E-16	0.118977171	0.397442789
cg09781994	PITX2;PITX2	4	5.54E-15	0.152865498	0.416445149
cg19829847	PITX2;PITX2	4	8.97E-14	0.307148782	0.567683917
cg26831119	PITX2;PITX2	4	4.05E-14	0.161104361	0.413795703
cg26708319	PITX2;PITX2	4	5.22E-13	0.103014023	0.323335078
cg23663774	PITX2;PITX2	4	3.40E-14	0.135069753	0.334744179
cg01951086	PITX2;PITX2	4	1.03E-12	0.137102722	0.335965353
cg02725370	PITX2;PITX2	4	4.16E-12	0.10486106	0.303530001
cg06842954	PITX2;PITX2	4	3.03E-11	0.353105187	0.533096161
cg24925400	PITX2;PITX2	4	4.52E-09	0.12099225	0.293117875
cg17707140	PITX2;PITX2	4	3.87E-07	0.280775193	0.434684964
cg13891220	PITX2;PITX2	4	2.69E-08	0.118515191	0.268450577
cg03943773	PITX2;PITX2	4	4.50E-09	0.102600106	0.240408228
cg19304088	PITX2;PITX2	4	7.20E-09	0.106413242	0.241593316
cg05581451	PITX2;PITX2	4	1.36E-07	0.271423903	0.391155082
cg13385016	PITX2;PITX2;l	4	5.34E-20	0.278593353	0.599158195
cg20291436	PITX2;PITX2;l	4	7.45E-16	0.099378882	0.363461541
cg10055501	PITX2;PITX2;l	4	1.19E-16	0.348220846	0.607408879

cg22717014	PITX2;PITX2;l	4	3.62E-14	0.153315773	0.41193198
cg17929238	PITX2;PITX2;l	4	5.00E-14	0.210707559	0.465069935
cg22914729	PITX2;PITX2;l	4	3.80E-12	0.165931935	0.375189907
cg08979895	PITX2;PITX2;l	4	1.94E-12	0.229322548	0.436647256
cg27398720	PITX2;PITX2;l	4	2.40E-11	0.259932488	0.459636309
cg21726372	PITX2;PITX2;l	4	1.21E-10	0.367929719	0.563986236
cg03972665	PITX2;PITX2;l	4	1.75E-10	0.354745436	0.548134469
cg05030680	PITX2;PITX2;l	4	9.48E-13	0.195076746	0.383910649
cg05835105	PITX2;PITX2;l	4	1.09E-12	0.089721659	0.273862324
cg03144922	PITX2;PITX2;l	4	9.21E-11	0.501988798	0.653998132
cg01371072	PITX2;PITX2;l	4	2.54E-09	0.187182285	0.321794947
cg13736376	PITX2;PITX2;l	4	8.89E-12	0.120100486	0.24098327
cg14308375	PITX2;PITX2;l	4	5.80E-09	0.148735224	0.268548631
cg16184803	PITX2;PITX2;l	4	4.51E-10	0.132761853	0.240050293
cg17507671	PITX2;PITX2;l	4	7.15E-10	0.128002419	0.23328159
cg27255329	PKHD1;PKHD	6	3.20E-19	0.169299616	0.434958735
cg10991450	PKHD1;PKHD	6	4.02E-12	0.232026735	0.427753059
cg08947151	PKHD1;PKHD	6	1.72E-10	0.133110698	0.250300068
cg01127059	PKMYT1;PKM	16	8.25E-12	0.297883956	0.413047559
cg04330122	PLA1A	3	8.96E-12	0.484060845	0.68217956
cg15362455	PLA1A;PLA1A	3	2.50E-16	0.323202819	0.617766845
cg04929165	PLA2G4A	1	5.68E-07	0.341221801	0.442704556
cg01507753	PLB1;PLB1	2	1.96E-07	0.279469296	0.409337708
cg17024257	PLD1;PLD1	3	2.69E-09	0.184358383	0.297492049
cg12636785	PLD5	1	2.54E-11	0.20573813	0.335096101
cg07132086	PLEKHA2	8	0.00435477	0.239021636	0.339642966
cg27247382	PLEKHM3	2	3.86E-05	0.482967321	0.619216099
cg16889945	PLK5P	19	7.25E-09	0.19963458	0.310847245
cg00545705	PLXNA2	1	0.00017645	0.681749051	0.789486943
cg24396875	PMS1;PMS1;	2	2.42E-09	0.293619095	0.467358951
cg04376782	PNKD	2	2.93E-05	0.587379317	0.68746905
cg12894984	PNMT	17	1.52E-05	0.377775061	0.483186128
cg21840908	POR	7	8.17E-06	0.222770575	0.325153141
cg22396959	PPAP2B;PPAI	1	2.25E-05	0.285949282	0.406148588
cg16738453	PPAP2B;PPAI	1	0.00161298	0.427303646	0.537292839
cg12180551	PPAP2B;PPAI	1	0.00109456	0.514944527	0.619578521
cg00679520	PPM1H	12	9.97E-08	0.635047318	0.757924614
cg25857569	PPM1L	3	7.57E-07	0.510381288	0.688978152
cg06574757	PPM1L	3	1.15E-05	0.152795783	0.264515093
cg20793532	PPP2R2C;PPF	4	1.91E-05	0.228076914	0.350941839
cg03847932	PPP4R2	3	0.04790196	0.582624073	0.685574952
cg04181189	PRDM10;PRL	11	3.68E-13	0.612579015	0.756388036
cg10484617	PRDM16;PRL	1	5.10E-12	0.416369171	0.640663147
cg04988794	PRDM16;PRL	1	5.08E-08	0.435266088	0.589702398
cg25372239	PRDM16;PRL	1	6.18E-10	0.514668686	0.651164246
cg06659980	PRDM16;PRL	1	1.08E-07	0.445711398	0.571302317

cg09271661	PRDM16;PRC	1	2.37E-05	0.475251919	0.582152885
cg12018140	PRDM6	5	0.00053587	0.377703755	0.479277549
cg19752143	PREPL;PREPL	2	0.00738808	0.319702399	0.420127117
cg06349851	PRICKLE2	3	6.83E-06	0.216110582	0.323009098
cg03050508	PRKCH	14	0.00962748	0.302092378	0.408520471
cg26557925	PRMT8	12	2.34E-08	0.615967597	0.769503066
cg14499211	PSD3;PSD3	8	3.06E-13	0.720390506	0.858690014
cg16197388	PSG3	19	5.57E-05	0.281453052	0.385586463
cg09890374	PSKH1	16	4.80E-08	0.239772554	0.369061301
cg03172765	PSMD1	2	0.00099807	0.462422497	0.611247662
cg20460771	PTAFR;PTAFF	1	4.47E-07	0.361799407	0.482868455
cg21545720	PTP4A2;PTP4	1	9.02E-12	0.349997869	0.508053827
cg17146731	PTPN13;PTPN	4	0.01772022	0.364269724	0.464779503
cg06519061	PTPN14	1	0.00654083	0.406901861	0.520797446
cg00086113	PTPN9	15	1.49E-07	0.699025531	0.810587639
cg07215975	PTPRE	10	3.95E-10	0.351643178	0.641619413
cg19688761	PTPRE	10	1.43E-11	0.244561155	0.524149027
cg00238353	PTPRE	10	0.0003069	0.158620438	0.268055215
cg03361379	PTPRN2;PTPF	7	1.77E-14	0.185474894	0.386171358
cg16477744	PTPRN2;PTPF	7	8.67E-13	0.164617945	0.306708187
cg10310310	PTPRN2;PTPF	7	6.68E-11	0.153333703	0.273250625
cg23694187	PTPRN2;PTPF	7	8.84E-15	0.430582193	0.712696309
cg26075259	PTPRN2;PTPF	7	2.73E-13	0.380529936	0.629710826
cg20717798	PTPRN2;PTPF	7	3.03E-10	0.493136337	0.665185501
cg19434087	PTPRN2;PTPF	7	3.80E-15	0.208175399	0.377206145
cg11128956	PTPRN2;PTPF	7	7.65E-13	0.193216863	0.358795366
cg06188198	PTPRN2;PTPF	7	7.17E-05	0.595314324	0.756738693
cg26267259	PTPRN2;PTPF	7	3.98E-11	0.326726298	0.48674859
cg07267845	PTPRN2;PTPF	7	6.35E-10	0.37284374	0.526166192
cg12866112	PTPRN2;PTPF	7	1.09E-08	0.249620984	0.401613615
cg22128328	PTPRN2;PTPF	7	1.31E-05	0.275965964	0.426555536
cg25387685	PTPRN2;PTPF	7	3.84E-06	0.44372007	0.593440931
cg04336561	PTPRN2;PTPF	7	9.67E-07	0.604738065	0.74161353
cg03900492	PTPRN2;PTPF	7	1.65E-05	0.358093118	0.489325851
cg05319711	PTPRN2;PTPF	7	1.51E-11	0.437661982	0.566474907
cg25910519	PTPRN2;PTPF	7	0.00017716	0.24303189	0.368597865
cg06124066	PTPRN2;PTPF	7	0.00107935	0.619660007	0.744804521
cg12656227	PTPRN2;PTPF	7	1.27E-05	0.607583126	0.727916068
cg22960901	PTPRN2;PTPF	7	1.68E-06	0.337194356	0.454896312
cg20809036	PTPRN2;PTPF	7	5.42E-05	0.298671741	0.414818903
cg17614582	PTPRN2;PTPF	7	3.28E-05	0.449732795	0.56440749
cg23235971	PTPRN2;PTPF	7	2.44E-06	0.547409136	0.659502725
cg05437294	PTPRN2;PTPF	7	4.52E-07	0.487958296	0.599204838
cg20083900	PTPRN2;PTPF	7	1.96E-08	0.441886663	0.551567508
cg02394998	PTPRN2;PTPF	7	3.70E-09	0.622374295	0.730384307
cg12582957	PTPRN2;PTPF	7	1.55E-07	0.65136691	0.756989284

cg13816552	PTPRN2;PTPF	7	9.45E-06	0.517292418	0.622483925
cg06339573	PTPRN2;PTPF	7	1.51E-07	0.107687367	0.210965242
cg03476864	PTPRN2;PTPF	7	8.36E-09	0.252309722	0.353525623
cg24830367	PWP1	12	1.47E-05	0.590256574	0.702924401
cg14497203	RAB36	22	1.76E-05	0.315600753	0.449545119
cg00714309	RAB3B	1	8.67E-13	0.306213275	0.444445307
cg26881535	RAB3GAP2;A	1	0.0341158	0.259824664	0.36113853
cg03461781	RAGE	14	8.01E-05	0.33157625	0.475248282
cg22395355	RAI1	17	0.00386267	0.581988396	0.701577153
cg09103877	RAI1	17	0.00026516	0.34653611	0.447894655
cg13096701	RAPGEF2	4	0.00013269	0.125726873	0.239698448
cg12894814	RAPGEF5	7	4.48E-06	0.447681218	0.593317227
cg10592478	RARG;RARG	12	0.00074033	0.195361	0.316955623
cg21109192	RASGEF1C	5	5.05E-10	0.339891908	0.467679956
cg25653165	RASGEF1C	5	1.62E-12	0.391127623	0.506218367
cg21730805	RBM19	12	1.36E-09	0.401109391	0.541391017
cg02066331	RBM24;RBM	6	0.00107086	0.365237914	0.466253263
cg16662785	RBM9;RBM9	22	0.00627601	0.334355811	0.440679669
cg05001531	RBPM5;RBPM	8	1.12E-07	0.452751446	0.600496437
cg03408619	RBPM5;RBPM	8	6.63E-11	0.412027269	0.557509434
cg12483927	RD3;RD3	1	1.35E-11	0.708618696	0.833600406
cg22596806	RGS7	1	0.00049399	0.457165295	0.56674559
cg20333869	RHEB	7	0.01072952	0.389701518	0.490679804
cg26163153	RHOH	4	8.22E-07	0.520136358	0.650012909
cg04131468	RICH2	17	6.85E-05	0.595738409	0.708463936
cg25737224	RIMS1;RIMS1	6	1.50E-06	0.561992719	0.667325661
cg23390920	RMST	12	3.41E-06	0.387345091	0.547057519
cg03782861	RMST	12	2.28E-08	0.214713821	0.36850474
cg27315341	RMST	12	2.48E-06	0.164110272	0.295075588
cg24810836	RNASEH2A	19	5.18E-08	0.283995749	0.393187085
cg05856398	RNF133;CAD	7	1.41E-07	0.567326053	0.667510667
cg22070232	RNF144A	2	3.59E-05	0.343830167	0.464737406
cg09195271	RNF186	1	3.15E-06	0.48260057	0.639703388
cg17135423	RNF186	1	1.27E-08	0.535803596	0.650832378
cg11519930	RNF220	1	1.06E-05	0.366567866	0.485522343
cg10329345	RNF220	1	0.00015076	0.238758551	0.34878079
cg01907837	RNF8;RNF8	6	4.05E-08	0.327240398	0.481601312
cg23126166	RNLS;RNLS	10	0.00019193	0.476228965	0.587766946
cg24899626	RP1L1	8	2.72E-12	0.566988207	0.693343928
cg11724759	RPE65	1	8.41E-11	0.423549845	0.663802163
cg23394916	RPL22	1	1.07E-05	0.489929346	0.594461407
cg00520612	RPL24	3	3.20E-05	0.430768704	0.572541055
cg00395501	RPL5	1	3.86E-07	0.211326601	0.352402019
cg05181927	RPS24;RPS24	10	0.0053826	0.311945561	0.417312291
cg12285184	RPS6KA2	6	6.55E-12	0.348834651	0.614588476
cg02669193	RPS6KA2	6	1.77E-12	0.218739042	0.416097976

cg15331383	RPTOR;RPTO	17	8.89E-12	0.573272864	0.724629216
cg06682763	RSF1	11	8.62E-10	0.300096152	0.416586412
cg12208848	RSU1;RSU1	10	5.39E-08	0.472155053	0.616881311
cg01558645	RUFY3;RUFY3	4	1.31E-08	0.341563655	0.442997821
cg11336061	RUNX3;RUNX3	1	5.87E-07	0.629396295	0.795483552
cg03769939	RUNX3;RUNX3	1	2.45E-11	0.594316095	0.73977847
cg08315421	S100Z	5	1.94E-05	0.50416813	0.614739518
cg17069828	SAMD12;SAM	8	3.17E-13	0.212444606	0.442002334
cg16514995	SASS6;CCDC7	1	1.01E-07	0.519307839	0.69805066
cg17398283	SASS6;CCDC7	1	4.98E-07	0.584440917	0.749444117
cg14846380	SCARB1;SCAF	12	0.00424392	0.489045839	0.601893257
cg09268718	SCARF1;SCAF	17	0.01391883	0.325042139	0.43408667
cg05650559	SCHIP1	3	2.08E-12	0.311389143	0.568530732
cg11595270	SCN10A	3	2.85E-11	0.422517221	0.560385088
cg09353052	SCN1A;SCN1A	2	7.74E-05	0.330579366	0.430929031
cg00877321	SCT	11	0.00492772	0.687520806	0.798464337
cg24862252	SDC2	8	1.14E-06	0.268236098	0.406663455
cg16962683	SDC2	8	0.0177414	0.221803539	0.333414908
cg17110767	SDCCAG8	1	0.0110297	0.612897691	0.7153341
cg18395354	SDK1	7	4.25E-16	0.265348978	0.600949199
cg21582785	SDK1	7	1.66E-08	0.561470436	0.74386723
cg00136968	SDK1	7	1.63E-07	0.478097516	0.651735129
cg25144558	SDK1	7	4.51E-09	0.259785424	0.405659577
cg13375629	SDK1	7	1.09E-06	0.338729811	0.482190801
cg19230787	SDK1	7	4.56E-06	0.442814152	0.577670382
cg18620306	SDK1	7	1.55E-06	0.571687896	0.695391782
cg15934004	SDK1	7	0.00111637	0.447768145	0.562892684
cg14682731	SDK1	7	2.13E-07	0.686528469	0.796019365
cg11535255	SDK1;SDK1	7	6.26E-11	0.485270036	0.651841263
cg24284741	SDK1;SDK1	7	1.35E-05	0.459087774	0.611320127
cg25207857	SDK1;SDK1	7	3.16E-07	0.274602071	0.391950778
cg08105834	SDK1;SDK1	7	3.85E-07	0.244752071	0.358736236
cg00958204	SEC14L3	22	1.51E-08	0.666402212	0.789428135
cg25750901	SEC14L3	22	2.17E-09	0.234435527	0.340471663
cg22758846	SEC14L3	22	0.00015975	0.407443335	0.510314719
cg07770360	SEC14L5	16	1.49E-09	0.470433535	0.606634915
cg03177729	SEC31A;SEC31A	4	0.0008076	0.21909468	0.324168789
cg11051022	SELO	22	3.09E-06	0.314765975	0.434051435
cg09943050	SEMA3A	7	0.00591779	0.292549844	0.396002203
cg24214470	SERPINF1	17	1.07E-12	0.479936501	0.602486307
cg22513955	SERPINF1	17	4.08E-11	0.298689438	0.401941384
cg26922690	SFMBT2	10	5.68E-10	0.388422049	0.574623923
cg08858466	SFMBT2	10	0.00058482	0.540467169	0.677735928
cg22880392	SFRP1	8	1.33E-06	0.272757646	0.392007458
cg21087481	SGCZ	8	0.00516328	0.303381279	0.404457398
cg20812318	SGIP1	1	7.34E-05	0.733584333	0.837178983

cg21366688	SGK1;SGK1;S	6	2.21E-12	0.416621144	0.592664187
cg17284168	SGK1;SGK1;S	6	2.82E-07	0.562476305	0.724649353
cg18566177	SGK1;SGK1;S	6	1.13E-10	0.628616903	0.774035866
cg23080761	SH2B3	12	9.97E-05	0.384566572	0.505433048
cg14582501	SH2D3C;SH2I	9	3.09E-08	0.519066533	0.624283594
cg13883603	SH2D3C;SH2I	9	0.00063427	0.322949842	0.423101323
cg14624314	SH3RF2	5	4.23E-07	0.651536381	0.751792384
cg20955817	SHANK2	11	1.92E-06	0.658961034	0.774555423
cg04404381	SHANK2	11	0.00194387	0.341813907	0.443416908
cg08718050	SHANK2	11	0.00013369	0.600761074	0.701532119
cg27417997	SHROOM3;SI	4	0.00068752	0.325729558	0.431765755
cg08061360	SIGLEC10;SIC	19	1.33E-08	0.663221991	0.763640822
cg12204166	SIK3	11	2.44E-07	0.263456779	0.420635391
cg08979319	SIM1	6	4.80E-08	0.201167316	0.330106113
cg06708634	SIM1	6	1.36E-10	0.15984854	0.262005479
cg12341475	SIPA1;SIPA1	11	0.00016194	0.624228676	0.753091957
cg24757937	SIX1	14	7.13E-06	0.458475914	0.669554981
cg10397765	SIX1	14	9.35E-07	0.172071907	0.329406523
cg09191335	SLA2;SLA2	20	3.79E-08	0.560718139	0.687554116
cg13119182	SLC10A6	4	6.25E-07	0.12798793	0.239027823
cg20872692	SLC11A2	12	4.90E-11	0.248158526	0.44755654
cg01008495	SLC14A1;SLC	18	1.37E-08	0.555098263	0.687047935
cg16251647	SLC17A1;SLC	6	8.97E-15	0.218601327	0.427607458
cg03369247	SLC18A1;SLC	8	0.00030335	0.472165417	0.60386391
cg23898998	SLC22A3	6	0.00021213	0.548714874	0.662999341
cg22944803	SLC24A3;LOC	20	0.00033535	0.155041525	0.268501344
cg10888399	SLC25A18	22	2.37E-08	0.24371721	0.401287665
cg20102010	SLC25A38	3	0.00133973	0.677704192	0.805125743
cg02557906	SLC30A10	1	1.82E-16	0.276987127	0.427496182
cg16785291	SLC35B4	7	1.80E-06	0.241558213	0.361486494
cg17898069	SLC35F3	1	0.00017147	0.28752466	0.393942133
cg22505977	SLC36A2	5	7.85E-13	0.256317654	0.440553176
cg23939642	SLC38A10;SL	17	0.00915724	0.518269049	0.619146117
cg01090358	SLC39A13;SL	11	2.59E-09	0.398773987	0.506859354
cg23726831	SLC4A4;SLC4	4	2.28E-10	0.596730684	0.731276269
cg19066171	SLC4A4;SLC4	4	1.37E-05	0.312914871	0.426586118
cg18447419	SLC9A3	5	2.80E-05	0.462768272	0.607920636
cg13525013	SLIT1	10	7.39E-13	0.499026876	0.666193339
cg16314733	SLIT1	10	2.16E-07	0.327090978	0.449592518
cg16813507	SLIT1	10	0.00017708	0.654123351	0.760485748
cg26168643	SLITRK5	13	3.34E-05	0.347189459	0.468646899
cg17971003	SLN	11	0.00031943	0.483249652	0.584674918
cg18750819	SMARCAL1;S	2	4.73E-06	0.579432107	0.705237623
cg10153733	SMU1	9	7.19E-07	0.368554931	0.55308515
cg00137696	SND1	7	1.06E-08	0.514939944	0.652635939
cg07555397	SND1	7	0.01712804	0.448785835	0.558594396

cg25332238	SNRNP27	2	6.09E-10	0.349077922	0.574183242
cg26495357	SNTG2	2	4.22E-05	0.321853074	0.445450126
cg14635303	SNTG2	2	3.61E-08	0.551827456	0.66161261
cg10036686	SNX10	7	0.00043677	0.587433957	0.690347838
cg18805164	SNX26	19	0.02317501	0.315378256	0.44640793
cg03204907	SNX29	16	0.00157348	0.233952494	0.339386264
cg17252780	SNX4	3	6.89E-11	0.292009806	0.516246206
cg10485411	SNX8	7	0.00012304	0.269526967	0.394110821
cg19497702	SNX8	7	3.48E-05	0.375284156	0.479415861
cg09805172	SOHLH2	13	0.00017952	0.333299552	0.478101061
cg25414209	SOHLH2	13	0.00029793	0.355483688	0.479659615
cg25804773	SORBS1;SORI	10	0.00021414	0.331692846	0.439143293
cg12848417	SORCS1;SORI	10	1.61E-16	0.157270084	0.386255381
cg04340567	SORCS2	4	0.00076715	0.646286788	0.746792725
cg21817179	SOSTDC1	7	0.00153625	0.370355826	0.477001817
cg17789809	SOX2OT	3	0.00023239	0.724759309	0.824890563
cg05156566	SOX5	12	0.00061567	0.362652976	0.502844229
cg21992400	SOX6;SOX6;S	11	4.60E-05	0.161015821	0.296053227
cg12489915	SPAG9;SPAG	17	4.99E-05	0.5210075	0.642141911
cg16760223	SPATA16	3	1.72E-08	0.313975255	0.515222447
cg03347153	SPATA16	3	5.57E-08	0.226276765	0.37329988
cg10491122	SPATA17	1	3.71E-08	0.622245182	0.753513424
cg08866865	SPATS2L;SPA	2	4.79E-09	0.454046292	0.635056581
cg01539849	SPI1;SPI1	11	0.00038752	0.230914939	0.350711811
cg13554018	SPIN1	9	8.15E-12	0.32681734	0.442342376
cg15374435	SPRY2	13	4.47E-05	0.21777124	0.343688288
cg22369786	SPRY2	13	0.0006918	0.257861232	0.367138247
cg02713162	SPRY4;SPRY4	5	0.01591192	0.406163649	0.515651115
cg07037725	SPRY4;SPRY4	5	1.53E-05	0.219530598	0.321716972
cg15081033	SPSB4	3	2.73E-06	0.692525112	0.7951142
cg05940425	SPTB;SPTB	14	7.72E-10	0.568783158	0.787519049
cg18745217	SRD5A3	4	3.89E-05	0.665961541	0.790228801
cg14898243	SRGN	10	0.00031654	0.463139472	0.602504498
cg13645409	SRGN	10	1.03E-05	0.546760399	0.676597791
cg06041695	SRGN	10	6.90E-08	0.370424183	0.481279225
cg03833429	SRL	16	7.10E-08	0.293748297	0.417687371
cg26591162	SRL	16	1.46E-07	0.451069823	0.570035865
cg05714396	SSBP2	5	0.00305905	0.466959481	0.571527265
cg04660157	SSPN;SSPN	12	6.86E-06	0.406392631	0.570429678
cg03389133	SSTR3	22	1.19E-05	0.203936818	0.306515749
cg06422039	SSTR5;LOC14	16	0.00067877	0.167984064	0.269461915
cg00186954	ST5;C11orf17	11	0.00520589	0.534916971	0.657997525
cg20638140	ST6GAL2;ST6	2	4.90E-08	0.465088193	0.575203615
cg05576619	ST8SIA6	10	1.14E-08	0.124711975	0.226914325
cg11022926	STK17A	7	9.46E-05	0.128381959	0.230824456
cg27612126	STK32B	4	0.0194682	0.35398959	0.45805578

cg09712756	STL	6	6.48E-11	0.674412095	0.818811094
cg02081305	SULT6B1	2	3.14E-05	0.345521757	0.507227005
cg04584761	SUPT7L	2	0.03559596	0.508323975	0.665528461
cg11634248	SUV420H1	11	4.19E-10	0.660252262	0.789487006
cg12536880	SV2B;SV2B	15	2.15E-07	0.518470662	0.679555965
cg00593008	SV2C	5	4.86E-09	0.326961776	0.525235987
cg27054032	SV2C	5	2.62E-06	0.591646183	0.746406587
cg00590173	SV2C	5	2.32E-05	0.613216706	0.715008846
cg23601468	SYN3;SYN3;T	22	0.00010173	0.334896692	0.459755398
cg07586863	SYNE1;SYNE1	6	6.54E-10	0.369549703	0.609985974
cg13219552	SYNE1;SYNE1	6	4.58E-05	0.33042167	0.527445125
cg09516930	SYNE1;SYNE1	6	1.73E-07	0.231613835	0.393078601
cg15957341	SYT9	11	3.94E-09	0.228645271	0.367800963
cg01963906	SYTL1	1	0.00010087	0.410422403	0.530609619
cg15731317	SYTL2;SYTL2;	11	0.00022104	0.250813073	0.352527401
cg18243910	TAP2;TAP2	6	0.00044744	0.485747793	0.595771748
cg10862567	TBCD	17	1.97E-05	0.246992993	0.394389953
cg03955537	TBCD	17	0.00148376	0.281505909	0.402496753
cg16450577	TBCD	17	0.00392239	0.306526978	0.421345825
cg19081021	TBCEL;TBCEL	11	4.07E-05	0.420248779	0.527350561
cg10714160	TBL1XR1	3	0.01141891	0.236732548	0.341562189
cg25900280	TBX4	17	3.71E-12	0.188132204	0.399777499
cg24274579	TBX4	17	5.82E-11	0.150021543	0.306294638
cg03969651	TBX4	17	1.67E-07	0.588017743	0.7325741
cg14011845	TBX4	17	1.09E-07	0.191085884	0.326887081
cg06365535	TBX4	17	6.60E-07	0.399435664	0.526917486
cg07876611	TBX4	17	0.00132534	0.55642318	0.66779389
cg14823851	TBX4	17	3.26E-09	0.112635301	0.222904771
cg10592734	TBXAS1;TBX4	7	8.41E-15	0.391158991	0.58368914
cg03764092	TBXAS1;TBX4	7	1.93E-07	0.473345441	0.580777328
cg23523359	TCERG1L	10	1.21E-14	0.318595339	0.713879272
cg26256560	TCERG1L	10	2.52E-15	0.537492512	0.724064078
cg14047630	TCERG1L	10	4.98E-11	0.6586524	0.803222957
cg01604628	TCF7L2;TCF7	10	0.00041277	0.591198197	0.717063679
cg13206028	TCF7L2;TCF7	10	8.16E-05	0.343727106	0.466922872
cg12262181	TCF7L2;TCF7	10	0.00037968	0.271105984	0.391537453
cg04322596	TCF7L2;TCF7	10	0.00141567	0.282107543	0.39529375
cg08417313	TCN1	11	2.05E-09	0.380548512	0.539857233
cg01489256	TDH	8	0.00069916	0.498391388	0.602796951
cg03709468	TDO2	4	2.01E-07	0.167452642	0.339411999
cg05229035	TECPR2	14	1.79E-06	0.352960532	0.465140126
cg20939319	TEX15	8	0.00017169	0.178138347	0.278243693
cg24606807	TFF1	21	0.00147798	0.457521869	0.56644906
cg20698667	TGFB2;TGFB2	1	0.00073276	0.214789856	0.316555226
cg19763108	THRB;THRB;1	3	1.11E-05	0.232666087	0.352852332
cg16201899	THSD1P	13	2.96E-05	0.352173856	0.470511145

cg27090087	TINAG	6	1.46E-08	0.424014088	0.638749557
cg09747445	TLE3;TLE3;TL	15	2.11E-07	0.323032455	0.509338579
cg13598109	TLE4	9	0.00037194	0.321455719	0.438856825
cg20956411	TLK1	2	0.00054033	0.345878574	0.45274357
cg10589034	TLL2	10	4.34E-08	0.515694625	0.658752071
cg04547433	TMC7;TMC7	16	3.80E-08	0.525989154	0.705263498
cg23112464	TMCO3	13	1.83E-08	0.497249648	0.676929705
cg05855124	TMEM132C	12	3.46E-09	0.317870331	0.560742046
cg17062305	TMEM132C	12	1.12E-12	0.238610822	0.40374063
cg14479837	TMEM132C	12	1.05E-13	0.185081808	0.324018699
cg17734698	TMEM132C	12	2.20E-13	0.159856831	0.284753995
cg03685843	TMEM132D	12	1.28E-12	0.169081344	0.326946009
cg11023224	TMEM132D	12	1.72E-05	0.356060874	0.489571771
cg26364947	TMEM132D	12	5.08E-09	0.513496869	0.634195901
cg13090220	TMEM132D	12	0.00027631	0.563210695	0.670542765
cg04476764	TMEM155	4	1.55E-07	0.331076404	0.475344166
cg18027903	TMEM195;TI	7	4.42E-06	0.284328698	0.401023521
cg01323706	TMEM209	7	0.00017065	0.462463952	0.58878498
cg18946437	TMEM211	22	5.25E-06	0.479317596	0.612618948
cg00175735	TMEM30C;TI	3	0.02437647	0.261781159	0.367560365
cg12177299	TMEM62	15	0.00023751	0.311933257	0.450666248
cg17977470	TMEM88	17	0.00095177	0.226473765	0.330605332
cg14148156	TMEM8B;TM	9	0.00329114	0.464455929	0.571264169
cg21265427	TMEM99	17	0.00010895	0.525545094	0.639839546
cg26673722	TMPRSS11A;	4	0.00811016	0.456628273	0.56791923
cg01232726	TMPRSS5	11	0.00138926	0.32858086	0.433193817
cg12487792	TMX3;CCDC1	18	1.10E-05	0.254831491	0.369733388
cg26305729	TNFAIP8	5	0.0022634	0.577130967	0.684253851
cg14187242	TNFSF8	9	7.06E-06	0.198481939	0.3410469
cg05643339	TNN	1	0.00609132	0.390576206	0.492648019
cg06459913	TNP2	16	2.55E-06	0.422773516	0.557072024
cg05794556	TNS3	7	4.46E-13	0.243476659	0.467478005
cg04879211	TNS3	7	1.20E-05	0.235489192	0.404025531
cg13199127	TNXB	6	3.51E-06	0.155671418	0.255875482
cg03466237	TOLLIP	11	0.00542165	0.420686194	0.539712576
cg25181854	TOLLIP	11	2.19E-08	0.449111226	0.550093648
cg22213449	TOMM7	7	1.39E-10	0.248795496	0.475310535
cg01502373	TOP1P2;PIWI	22	1.63E-13	0.264815697	0.467014847
cg26126740	TOX2;TOX2;T	20	2.24E-10	0.4110222	0.544750374
cg02004723	TOX2;TOX2;T	20	9.07E-10	0.631733946	0.761205793
cg11646638	TP53I3;TP53I	2	5.30E-12	0.436729861	0.639898148
cg10366018	TRAF3IP1;TR	2	0.00040718	0.470968787	0.594561575
cg04840339	TRDN	6	4.19E-07	0.652047502	0.758293068
cg09103187	TRERF1	6	1.00E-08	0.162602684	0.331780562
cg17173166	TRH	3	0.00180967	0.392931041	0.51025435
cg21155973	TRHDE	12	1.26E-06	0.164886927	0.27808826

cg27610545	TRHDE	12	0.00246417	0.498773862	0.600396187
cg00551143	TRIL	7	0.00030441	0.42060939	0.536085351
cg07805064	TRIM40	6	0.00535575	0.564555722	0.673434084
cg05389989	TRIM40	6	0.00101924	0.584302695	0.687091992
cg26700215	TRIM55;TRIM	8	4.35E-07	0.281454034	0.426132373
cg04507915	TRIM71	3	1.07E-11	0.356731949	0.526853544
cg27195956	TRIM71	3	1.45E-05	0.424788827	0.546582406
cg15630071	TRIM71	3	1.86E-09	0.386723606	0.494704221
cg26689441	TRIO	5	4.79E-05	0.422179005	0.543468649
cg09161330	TROVE2;TRO	1	1.51E-11	0.328312981	0.503812611
cg14165911	TRPM3	9	0.0001602	0.542287292	0.693818685
cg14265537	TRPM3;TRPM	9	0.0002377	0.217288006	0.320865797
cg09618387	TSKS	19	1.72E-07	0.354182576	0.545175356
cg01553935	TSPAN1;TSPA	1	7.36E-13	0.183536538	0.303431998
cg24610425	TSPAN12	7	1.31E-05	0.250324141	0.356023648
cg27159916	TSPAN16	19	0.00053427	0.312982343	0.421115539
cg27304204	TSPAN8	12	9.78E-08	0.289746604	0.492940968
cg15645660	TTC22	1	0.00081736	0.22785792	0.332348898
cg03174228	TTLL11	9	9.20E-08	0.325064631	0.452643355
cg21184518	TTLL11;TTLL1	9	0.00036065	0.269218268	0.370756761
cg18788205	TTPAL;TTPAL	20	3.62E-12	0.425224667	0.697425546
cg05036502	TXNDC11	16	2.95E-09	0.648222814	0.779730534
cg02340615	TXNRD1	12	1.45E-12	0.450416393	0.688491777
cg14802400	TXNRD1	12	0.00202181	0.633923882	0.752868259
cg08869857	TXNRD1;TXN	12	2.07E-06	0.367228786	0.507246215
cg07515324	TYK2	19	5.82E-14	0.616445797	0.741924156
cg26229593	UBIAD1	1	3.61E-09	0.462337657	0.687613825
cg14136260	UCP3	11	4.70E-11	0.21243686	0.418274202
cg12363671	UMODL1;UM	21	3.28E-06	0.411267424	0.534119933
cg00349542	UMODL1;UM	21	7.82E-05	0.536432845	0.656385205
cg23603057	UNC93A;UNC	6	1.02E-05	0.413285232	0.541667279
cg24759654	USP36	17	6.34E-08	0.233938371	0.397093847
cg07385573	USP36	17	3.35E-06	0.617715865	0.727936834
cg01834573	UTRN	6	0.00012711	0.290273353	0.418697753
cg00223767	UVRAG	11	2.15E-05	0.39927865	0.571999277
cg23752985	VAMP8	2	2.32E-12	0.274479153	0.446144447
cg10283182	VAT1L	16	2.94E-06	0.508135761	0.628078093
cg04743650	VCAM1;VCAI	1	2.80E-05	0.233492901	0.357179651
cg26496628	VCAN;VCAN;	5	0.00201618	0.378382466	0.484386365
cg02073081	VGLL4	3	5.28E-05	0.207412244	0.312836956
cg18005261	VIPR2	7	2.47E-07	0.435298366	0.570449489
cg18425653	VIPR2	7	1.93E-06	0.279051611	0.393565976
cg06878663	VIPR2	7	1.34E-07	0.484581131	0.589148155
cg25957092	VPS37B	12	1.17E-05	0.510064775	0.651045776
cg26249100	VPS37B	12	0.000539	0.67443427	0.777000604
cg20307292	VWA3B	2	3.76E-05	0.47281975	0.585618273

cg14643415	WDR49	3	1.76E-07	0.46263985	0.568478689
cg00519320	WDR59	16	3.50E-06	0.285490182	0.393212463
cg06082598	WDR64	1	8.87E-09	0.265567473	0.465121973
cg05940691	WDR64	1	4.41E-06	0.452014678	0.619333976
cg07233230	WDR64	1	1.89E-05	0.540263534	0.667701173
cg08103216	WDR69	2	0.00064374	0.401948284	0.50812594
cg15446884	WDR86	7	2.01E-05	0.548350322	0.649261111
cg22654935	WDR88	19	8.38E-06	0.6325144	0.758909389
cg02579136	WNT11	11	1.73E-11	0.152104421	0.263904133
cg25449821	WSCD1	17	5.76E-08	0.56608388	0.682058731
cg20792590	WSCD1	17	1.13E-06	0.214147976	0.326219373
cg08091526	WVOX	16	7.83E-09	0.375874589	0.515518203
cg09038266	WVOX	16	1.20E-06	0.464843226	0.591513666
cg00469083	WVOX	16	6.67E-05	0.602723885	0.71714809
cg03419151	XAF1;XAF1	17	0.00017618	0.291256228	0.398475069
cg19743666	YPEL5;YPEL5	2	4.75E-05	0.431101409	0.546687991
cg25298754	ZBED2;CD96;	3	2.11E-11	0.284432434	0.460009089
cg27330193	ZBTB20;ZBTE	3	1.12E-05	0.393156612	0.524576996
cg13705556	ZBTB7A	19	7.67E-06	0.226791998	0.347524368
cg00569808	ZCCHC14	16	4.43E-09	0.461176402	0.724447326
cg00601743	ZCCHC14	16	2.50E-09	0.590517445	0.76201229
cg07630229	ZCCHC14	16	1.76E-13	0.532023871	0.685828392
cg07448824	ZCCHC14	16	2.44E-05	0.742956675	0.85020536
cg00283857	ZDHHC14;ZD	6	9.89E-05	0.254607282	0.412658008
cg09484852	ZDHHC14;ZD	6	0.00155877	0.476851154	0.604343132
cg05956452	ZDHHC14;ZD	6	1.96E-07	0.347331786	0.461910143
cg25578048	ZDHHC14;ZD	6	0.00291345	0.494650308	0.602465466
cg22618752	ZEB2;ZEB2	2	5.44E-07	0.440033618	0.567321271
cg14807945	ZEB2;ZEB2	2	5.67E-06	0.420885683	0.525958045
cg14364926	ZER1	9	9.06E-11	0.246282269	0.376782986
cg06185532	ZFHX3;ZFHX3	16	1.13E-11	0.324039278	0.534091145
cg04364695	ZMAT4;ZMAT4	8	0.00012871	0.495269757	0.602897043
cg02970775	ZMYND19	9	1.48E-08	0.330120918	0.497615926
cg11112729	ZNF212	7	4.38E-07	0.221005433	0.338258587
cg12023844	ZNF286A;ZNF286A	17	0.00045324	0.518747821	0.620678172
cg08360666	ZNF343	20	4.71E-05	0.176153741	0.278849976
cg05677224	ZNF510	9	1.12E-08	0.653637053	0.830817268
cg20299690	ZNF521	18	3.54E-07	0.489991683	0.669783231
cg11729074	ZNF521	18	3.97E-07	0.313518012	0.490287207
cg01875596	ZNF521	18	0.02200868	0.324212231	0.427438988
cg01094891	ZNF536	19	6.22E-16	0.235725841	0.520803434
cg03724752	ZNF671	19	5.30E-13	0.384830556	0.654383919
cg24078554	ZNF697	1	7.12E-07	0.354215568	0.519776777
cg18586867	ZNF738	19	3.76E-05	0.282561907	0.417170313
cg25961952		5	2.92E-14	0.32768782	0.714247558
cg10214640		16	4.31E-16	0.284310932	0.640947618

cg11595635	5	5.34E-20	0.153619309	0.508804408
cg23793104	4	2.73E-15	0.196926003	0.527303613
cg02691343	3	1.27E-12	0.298188555	0.617641534
cg22122321	4	1.11E-15	0.306543971	0.621614783
cg27325820	5	2.01E-14	0.296728369	0.607422733
cg20301678	6	4.45E-10	0.500520564	0.804766055
cg13744172	16	3.43E-12	0.170810795	0.47323571
cg17765553	8	8.22E-11	0.387863355	0.688781589
cg24650748	5	3.55E-17	0.448260703	0.747199289
cg00316839	4	2.02E-16	0.199452226	0.496113964
cg15916160	16	7.60E-15	0.15886604	0.453508021
cg05317090	16	4.86E-16	0.25873698	0.552597388
cg00747944	16	1.05E-14	0.183263964	0.471872271
cg08474859	4	5.13E-16	0.140975656	0.428298375
cg02676167	2	2.21E-14	0.246383388	0.531271933
cg02924234	2	6.73E-12	0.301538589	0.584142587
cg08950105	9	2.42E-17	0.226293114	0.507799997
cg08548659	4	2.26E-11	0.307104499	0.585667681
cg21199629	14	4.59E-13	0.208598238	0.486317876
cg03475509	4	9.08E-13	0.285262409	0.554675457
cg26190381	10	1.16E-13	0.336949155	0.602758411
cg25942318	2	2.86E-14	0.516219122	0.779462864
cg06138439	16	1.51E-13	0.299042686	0.561104721
cg22926923	14	8.91E-10	0.519837923	0.781369882
cg06551595	18	1.85E-12	0.205415148	0.463877489
cg26277754	5	1.08E-16	0.193166782	0.450983338
cg04329088	2	4.23E-13	0.346345906	0.602095889
cg07673740	4	1.15E-11	0.164764253	0.418900102
cg16387593	16	3.17E-13	0.339050567	0.592626167
cg22869030	4	4.60E-16	0.123528299	0.37576991
cg16230352	8	1.11E-15	0.341072712	0.593151283
cg10426234	12	1.01E-11	0.578660096	0.828387128
cg05308317	14	4.90E-09	0.575640347	0.824951649
cg19533958	5	1.14E-14	0.342016653	0.590756438
cg19982221	6	1.82E-11	0.218776031	0.464237833
cg10552446	2	1.24E-12	0.312987667	0.557922948
cg19549171	3	1.46E-14	0.327724069	0.572287122
cg01020413	2	1.05E-13	0.395889819	0.638023697
cg03988540	4	4.59E-13	0.242770333	0.484229815
cg10536898	5	3.67E-17	0.244097226	0.485131533
cg11241663	2	1.14E-14	0.250294776	0.489226156
cg23697093	14	1.11E-15	0.252013226	0.489688246
cg05774141	7	1.26E-16	0.481815924	0.718340702
cg07331478	2	1.58E-10	0.38401381	0.619637762
cg13670898	14	6.05E-12	0.303869792	0.539431904
cg21442730	13	7.09E-14	0.405590861	0.641152883

cg05464506	2	1.77E-11	0.26287923	0.497201361
cg19246977	17	1.34E-10	0.483013178	0.716877131
cg13988455	10	3.80E-13	0.232247884	0.465416623
cg21944740	5	1.22E-14	0.398260455	0.631063982
cg02311193	17	1.54E-10	0.288996703	0.52088408
cg18156686	10	6.86E-09	0.494199925	0.725635941
cg12165219	8	1.63E-07	0.441887787	0.673223527
cg10830616	12	9.20E-13	0.189093663	0.419694828
cg02216535	4	4.04E-10	0.303542114	0.533992001
cg14684925	19	1.44E-09	0.44772408	0.677958246
cg01961105	16	2.05E-09	0.455961223	0.685441134
cg14449958	14	3.17E-12	0.319471226	0.548602745
cg21082028	17	1.33E-08	0.420501748	0.649249047
cg01047631	16	2.13E-14	0.325930149	0.553762043
cg00275503	6	8.77E-16	0.167468747	0.39418424
cg05823812	13	1.04E-10	0.30181089	0.526452372
cg15278798	10	1.03E-09	0.375244157	0.599267243
cg11291003	5	3.65E-11	0.185882375	0.409739719
cg11682774	11	2.69E-08	0.46173932	0.68501264
cg26403206	7	7.63E-11	0.46490242	0.686756108
cg13609544	17	9.50E-09	0.485018642	0.706703582
cg07455757	16	5.84E-13	0.367945427	0.589383442
cg02388378	16	2.46E-12	0.434278157	0.654287762
cg17242937	4	6.27E-14	0.162602857	0.38219144
cg22488797	5	1.11E-15	0.301046371	0.519962973
cg10818423	5	6.65E-19	0.179393526	0.398164348
cg10482051	6	7.14E-12	0.439030527	0.657207246
cg22192489	5	1.88E-10	0.179033022	0.397140932
cg10111328	12	2.81E-14	0.315255409	0.533146872
cg12482501	10	6.70E-08	0.425837536	0.643636928
cg20783806	2	2.87E-08	0.423237937	0.64043854
cg11375458	2	5.68E-12	0.200371656	0.416675703
cg02112183	6	2.06E-10	0.496370948	0.709777003
cg11124420	9	4.81E-16	0.192849878	0.405784854
cg09088406	15	1.44E-15	0.251121129	0.464028528
cg23143210	12	3.57E-14	0.553421923	0.766029106
cg10396713	8	1.38E-10	0.288510844	0.501076982
cg07825681	1	1.99E-12	0.525397356	0.737497878
cg25034991	10	1.07E-12	0.247297848	0.458006798
cg07271394	16	4.83E-16	0.223598064	0.433743254
cg23471798	3	2.14E-11	0.250084507	0.459689958
cg14336872	4	2.61E-13	0.520782763	0.730184439
cg24601327	1	6.48E-13	0.224369362	0.433242368
cg03722396	4	1.80E-11	0.10908689	0.317747166
cg21146170	8	3.85E-08	0.418203862	0.626737149
cg07584669	16	2.06E-11	0.319919641	0.526531564

cg04903623	6	8.19E-06	0.386685747	0.593224126
cg02931729	11	8.42E-09	0.358428428	0.564847225
cg25843564	6	5.13E-10	0.448316252	0.654732085
cg14016055	1	7.20E-13	0.489004909	0.695124946
cg10664801	17	1.28E-12	0.226523276	0.432098076
cg11671598	4	9.04E-14	0.323571941	0.528362
cg20521863	12	6.28E-10	0.252214113	0.456838809
cg21106719	3	1.98E-14	0.183099042	0.387675959
cg01618806	2	7.30E-12	0.357678394	0.561920194
cg04969428	6	1.32E-09	0.451622778	0.654362468
cg18082362	3	7.27E-12	0.205270708	0.407919389
cg25750507	17	7.45E-16	0.210411723	0.412469262
cg12569835	2	5.09E-12	0.368907428	0.570266172
cg08454455	16	1.08E-13	0.338867237	0.539764408
cg15726055	1	1.01E-06	0.352547374	0.553279235
cg11278107	4	3.21E-10	0.479851304	0.679729666
cg22005990	17	1.08E-09	0.228941518	0.428694424
cg24990283	8	7.77E-12	0.308034338	0.507782466
cg07521394	16	1.81E-13	0.572215017	0.771542926
cg10581012	11	1.21E-13	0.184162386	0.383149936
cg13063207	8	2.62E-18	0.176240394	0.374831167
cg00667841	4	4.71E-05	0.36410446	0.562232884
cg01502116	4	1.82E-07	0.481063635	0.678914943
cg11792671	2	4.90E-10	0.321060761	0.518282443
cg12478032	5	3.27E-14	0.165412542	0.362403223
cg22808086	10	1.61E-16	0.300807645	0.497659371
cg05571619	6	3.96E-10	0.460710014	0.657142942
cg08578568	16	4.98E-11	0.314891371	0.511193253
cg26950756	15	1.24E-09	0.37677746	0.572988576
cg11791052	4	1.94E-08	0.30855816	0.504672209
cg10859449	14	1.09E-13	0.268186401	0.464265621
cg12008054	13	1.80E-09	0.456925181	0.652840137
cg21818470	2	2.83E-09	0.279887224	0.474996417
cg17695537	2	5.05E-11	0.455016969	0.649499359
cg15529155	10	7.45E-16	0.16423995	0.358364169
cg09584358	17	6.54E-11	0.222848394	0.416250843
cg17438211	5	9.39E-09	0.293674236	0.486330922
cg15136913	10	2.58E-12	0.250779374	0.443398105
cg12126859	8	4.23E-09	0.349528213	0.541791945
cg00786237	3	5.06E-11	0.340084062	0.532110694
cg05331334	18	4.94E-11	0.492772768	0.684763541
cg20000602	12	2.36E-07	0.360641885	0.55220065
cg12363903	5	5.83E-09	0.189542764	0.380781629
cg10134799	6	4.73E-07	0.338431341	0.529455002
cg09861977	4	1.18E-10	0.362468517	0.55297198
cg05776053	2	4.53E-11	0.474186619	0.664313497

cg04304687	5	7.04E-07	0.374887819	0.56497983
cg25985031	15	6.76E-11	0.256778004	0.446463248
cg22389275	4	4.90E-09	0.567668009	0.757314471
cg14100362	5	1.62E-10	0.294464493	0.483717706
cg19578030	18	5.62E-08	0.543181881	0.732212285
cg18701093	12	2.22E-07	0.419864981	0.608152795
cg18790559	8	3.42E-11	0.194406766	0.38172642
cg18924771	5	6.82E-07	0.438189058	0.625499863
cg23467659	2	2.16E-12	0.300503295	0.4877839
cg06119162	21	4.05E-13	0.327115636	0.514366204
cg03387289	8	3.87E-08	0.381029653	0.568044976
cg18103859	14	0.00033915	0.400363548	0.587364769
cg19429051	5	1.14E-08	0.405451613	0.592319215
cg26236655	2	1.18E-07	0.390336718	0.576858284
cg21156438	13	3.73E-05	0.535567058	0.721554987
cg16742090	16	1.14E-07	0.559388809	0.745254255
cg01721569	2	8.32E-12	0.41539811	0.600901324
cg16652303	11	1.48E-08	0.325141432	0.510630494
cg05667107	6	1.05E-13	0.210747737	0.396073558
cg09868598	5	1.72E-13	0.104330931	0.289554726
cg23949362	3	1.14E-13	0.540413306	0.725051283
cg04729173	11	2.13E-13	0.357638354	0.542187702
cg25255850	17	1.63E-08	0.229719133	0.414128758
cg27047494	5	8.33E-15	0.287664972	0.471915815
cg09621330	16	3.99E-10	0.555647046	0.739506171
cg08182501	2	1.32E-05	0.480756432	0.664460483
cg05793013	16	1.07E-09	0.483738373	0.666274391
cg00921160	14	1.27E-09	0.591874023	0.774399569
cg13777513	15	1.25E-07	0.486113491	0.668628801
cg09626054	7	9.06E-14	0.194969359	0.377133311
cg02292809	6	4.12E-10	0.2808921	0.462787166
cg14613508	5	1.36E-07	0.362475342	0.544344804
cg01706334	8	4.68E-09	0.62702925	0.807893088
cg24491784	15	0.00025439	0.530398777	0.710917586
cg11147251	8	4.65E-07	0.52488962	0.704765006
cg23558626	2	1.86E-06	0.561175913	0.740963106
cg09545984	4	1.34E-10	0.376753515	0.555861019
cg03510186	7	6.63E-10	0.400393115	0.579487852
cg08528417	7	1.63E-17	0.307749797	0.486406875
cg01998856	11	7.76E-09	0.323091155	0.501424086
cg23091549	1	7.19E-09	0.462935816	0.640677438
cg27228712	7	2.07E-09	0.555000661	0.732703371
cg11284842	5	1.60E-08	0.277880352	0.455327894
cg07963316	6	1.55E-11	0.536073953	0.713426898
cg18391978	14	1.65E-11	0.443213939	0.620212037
cg13589810	11	6.00E-12	0.40695355	0.58350894

cg16243532	3	1.03E-10	0.231963981	0.40831074
cg13851508	2	4.18E-08	0.542027319	0.7183645
cg17223170	5	6.67E-11	0.243171129	0.419294385
cg11257689	10	2.50E-09	0.268806556	0.444703141
cg11238518	2	1.65E-08	0.633727173	0.809405485
cg15172981	2	8.91E-10	0.196821083	0.371959458
cg27190654	4	5.08E-11	0.495330911	0.670353149
cg00392505	10	1.30E-08	0.573855189	0.748538293
cg12463256	10	8.95E-09	0.365747618	0.540375262
cg12851161	13	2.49E-10	0.264157864	0.438309349
cg16564132	7	3.18E-09	0.538685695	0.712724248
cg08528604	13	2.66E-05	0.53816943	0.712103148
cg22869567	12	2.65E-08	0.473730928	0.647286517
cg10313384	12	3.44E-10	0.315092821	0.488116834
cg13996610	4	4.85E-08	0.502300267	0.675125232
cg25892587	10	1.66E-09	0.157780903	0.330581227
cg22770294	4	4.00E-11	0.466758602	0.639550276
cg13343392	15	3.55E-07	0.396869217	0.569640903
cg06683458	17	6.85E-13	0.201869556	0.374316514
cg11566520	5	9.40E-11	0.530594415	0.702487559
cg26236177	14	0.00018331	0.260090154	0.431636571
cg03762802	8	1.45E-05	0.522388973	0.693823616
cg17405031	1	4.75E-10	0.258630907	0.429374046
cg00267694	8	1.01E-11	0.221499266	0.391967395
cg13430898	9	1.07E-11	0.571470017	0.741597047
cg18408209	2	4.64E-08	0.379007772	0.548977814
cg20706315	17	1.59E-11	0.199745387	0.369413876
cg01950524	5	3.31E-05	0.446100455	0.615442034
cg08890503	21	4.02E-05	0.447507431	0.616648717
cg07617237	6	3.89E-09	0.212514153	0.379892145
cg16933229	4	1.85E-09	0.225827717	0.392276507
cg21805950	8	9.43E-07	0.420282634	0.58661883
cg17273911	11	1.35E-08	0.26241139	0.428694051
cg25877512	11	3.40E-08	0.350514691	0.516790563
cg04526480	1	1.43E-11	0.180681962	0.346619925
cg11248896	2	6.98E-09	0.24018074	0.405913769
cg07684152	12	2.57E-06	0.416762553	0.582480953
cg10519417	17	1.79E-06	0.409360672	0.575066935
cg02201914	4	1.25E-07	0.217127674	0.382764512
cg11762242	10	1.59E-09	0.53556451	0.70086515
cg01223086	15	1.54E-05	0.335910775	0.501148179
cg16622517	4	3.99E-10	0.466807325	0.631955377
cg04956801	10	6.45E-06	0.595138913	0.760104788
cg20419272	8	1.05E-08	0.266720131	0.431656978
cg08023442	3	4.72E-06	0.436687187	0.601327125
cg25467833	1	8.22E-11	0.124993304	0.289489278

cg27391470	16	2.45E-06	0.420587308	0.585081369
cg26308042	4	2.07E-10	0.453451768	0.617720487
cg25500001	10	1.62E-08	0.221507529	0.385644792
cg10582556	5	4.46E-09	0.469368314	0.63336607
cg03875496	6	2.08E-06	0.266620705	0.430360013
cg03462096	14	5.46E-05	0.441587579	0.605166082
cg04435236	6	3.70E-14	0.290246965	0.453726208
cg16041686	4	5.18E-14	0.122908445	0.286082981
cg02482941	22	7.51E-09	0.65902465	0.822056225
cg09574009	13	1.93E-10	0.472615867	0.635511065
cg22928386	2	3.87E-05	0.377931785	0.540305557
cg07505018	16	7.20E-10	0.424060744	0.585855718
cg14990082	6	2.55E-05	0.435897096	0.597616817
cg22041610	2	0.00011893	0.551430107	0.713112376
cg12593176	1	2.61E-12	0.537669364	0.699036643
cg04173816	5	3.41E-08	0.311120307	0.47239891
cg14799457	18	2.96E-08	0.316498298	0.477504611
cg05123646	4	2.59E-08	0.241967773	0.402875418
cg24091104	7	3.66E-08	0.222351816	0.383159727
cg03796943	2	6.12E-10	0.559993467	0.720735384
cg03043711	13	2.53E-10	0.260392295	0.421054178
cg13186470	15	2.20E-05	0.251660718	0.412289077
cg10454879	8	1.69E-05	0.548584439	0.708967452
cg11863406	13	1.51E-10	0.370918809	0.531271818
cg00892419	13	9.53E-05	0.494474578	0.654624682
cg06879222	16	1.82E-10	0.265183838	0.425213474
cg01684721	14	3.47E-13	0.120995683	0.281005657
cg20193839	8	1.27E-05	0.472039406	0.631949554
cg04131890	5	3.72E-13	0.451204534	0.611000031
cg04174726	5	1.82E-09	0.661714575	0.821389458
cg22115076	5	9.91E-17	0.09022903	0.249631034
cg01638741	16	8.01E-07	0.598899067	0.758262034
cg08488615	16	1.57E-06	0.358984959	0.518315491
cg05239940	10	7.47E-07	0.439565498	0.598376625
cg08490192	3	1.21E-11	0.403006418	0.561800967
cg10176070	16	5.97E-11	0.685769509	0.84440425
cg23184653	3	4.16E-06	0.308068179	0.466349177
cg24048361	1	2.05E-06	0.576382903	0.73449778
cg27028202	6	9.91E-08	0.255283136	0.413394589
cg13159361	15	3.17E-12	0.227488424	0.385551107
cg06993307	16	2.74E-10	0.179059044	0.337035129
cg26310273	3	9.07E-12	0.512704987	0.670601512
cg26419676	1	4.28E-06	0.465361042	0.623239451
cg19725625	3	0.00020235	0.30827508	0.465936281
cg18031861	13	3.68E-06	0.556960712	0.714442701
cg08217163	2	1.63E-07	0.466981621	0.624244414

cg27518631	16	4.57E-13	0.415227964	0.572470562
cg19610529	14	5.23E-05	0.50154479	0.658752791
cg11702351	11	3.37E-06	0.41389286	0.571053272
cg16133703	5	5.77E-10	0.534876905	0.692020889
cg05494668	11	4.15E-06	0.418885102	0.575872146
cg00923890	13	2.40E-07	0.596247441	0.753082334
cg27368068	3	5.42E-12	0.632319366	0.789131913
cg04184019	4	1.66E-10	0.14393775	0.30063607
cg01378062	3	5.07E-07	0.367669955	0.524329413
cg23495453	5	1.32E-06	0.40188212	0.558503706
cg04121415	3	2.57E-10	0.305659591	0.461559732
cg02377941	16	2.79E-08	0.644420219	0.800051829
cg18109389	11	3.41E-07	0.417234098	0.572777369
cg16721489	2	6.81E-06	0.373214051	0.528652305
cg05306029	2	2.64E-06	0.455707555	0.611063292
cg18683103	10	4.57E-09	0.353144479	0.508344728
cg20934191	6	2.17E-06	0.340443487	0.495533844
cg12283119	2	3.62E-10	0.238007483	0.392976143
cg06489728	10	4.06E-08	0.634714194	0.789651368
cg05057794	10	7.37E-11	0.347897147	0.502795631
cg24335051	2	3.70E-13	0.600988616	0.755820498
cg23280506	17	1.48E-10	0.217313885	0.371989429
cg26654559	16	1.55E-10	0.2970482	0.45159516
cg18516557	2	6.41E-05	0.407390622	0.56190755
cg07264203	3	0.00086189	0.559653611	0.714086278
cg08798307	7	2.46E-10	0.35448228	0.508578149
cg08704302	15	8.43E-13	0.180978901	0.334982767
cg11304968	21	1.75E-07	0.373806934	0.527714963
cg20821800	13	8.58E-07	0.397536557	0.551234492
cg17832917	13	1.91E-08	0.652438111	0.805963573
cg14658149	20	3.04E-12	0.397949056	0.551471222
cg00951108	1	9.92E-05	0.39269596	0.546178672
cg15035716	1	4.77E-06	0.708810177	0.862271486
cg10441909	12	1.95E-12	0.133486942	0.286839889
cg01427471	11	1.64E-16	0.22476084	0.378027109
cg08423879	12	3.69E-08	0.329840147	0.482999298
cg24377437	6	2.71E-07	0.539119414	0.692089957
cg22911013	3	3.52E-05	0.426583271	0.57942955
cg05091736	17	4.23E-09	0.574372049	0.727170324
cg02355680	13	4.02E-08	0.395645198	0.548359758
cg07482296	2	2.59E-06	0.634049593	0.786580462
cg26535834	2	3.01E-07	0.231128573	0.383480676
cg07990582	10	1.88E-10	0.589093227	0.741396151
cg00248242	2	1.46E-12	0.155400307	0.307638702
cg27581660	4	3.59E-09	0.216818661	0.368880153
cg27428708	16	1.11E-08	0.521837986	0.673885126

cg20082877	18	1.28E-05	0.320712556	0.472527481
cg09600715	7	5.07E-05	0.578956712	0.73073268
cg11857320	4	1.37E-07	0.290708816	0.442350697
cg10643493	8	2.44E-08	0.419498332	0.571055612
cg02220233	4	3.20E-07	0.459692319	0.611201364
cg26623696	11	1.53E-05	0.454141889	0.605640569
cg23506042	5	8.09E-11	0.132829217	0.283929205
cg21221540	3	7.03E-06	0.319552275	0.470614995
cg13600257	6	1.55E-10	0.46124231	0.612178093
cg04806150	13	7.81E-10	0.432914758	0.583847443
cg25368116	11	3.52E-08	0.328179127	0.479067951
cg15142335	1	2.44E-05	0.518021501	0.668817587
cg04781339	21	9.24E-07	0.276394668	0.427112642
cg09088153	15	0.00019264	0.588192572	0.738858712
cg25339054	5	1.01E-11	0.112027553	0.26215429
cg06227594	11	1.45E-07	0.587068373	0.736755122
cg01939535	5	7.78E-06	0.23870279	0.387880643
cg07254667	10	5.30E-10	0.513948129	0.663024805
cg27349540	17	1.49E-07	0.241126195	0.390149833
cg00411072	17	4.23E-07	0.700485913	0.849401134
cg06688733	5	2.83E-06	0.3502448	0.499100091
cg06801941	5	2.31E-10	0.620134135	0.768891621
cg25941985	4	2.06E-10	0.515217564	0.663856876
cg11855682	5	3.93E-11	0.223253587	0.371891733
cg18817396	13	9.55E-08	0.262250587	0.410406775
cg22980453	12	6.22E-10	0.637192962	0.785303836
cg02192281	13	1.08E-06	0.513185952	0.661068536
cg10195894	13	9.16E-07	0.580747995	0.728578399
cg07486821	16	1.17E-06	0.373141587	0.520845316
cg02642958	8	1.87E-05	0.274410244	0.421791121
cg09337429	14	4.08E-06	0.454097678	0.600890578
cg08202972	16	1.32E-10	0.624142863	0.770834494
cg09317508	1	1.44E-06	0.401903592	0.548592349
cg16726869	4	1.38E-08	0.363554899	0.510165823
cg09741519	17	3.45E-08	0.281070263	0.427579334
cg00435752	15	9.56E-07	0.236263715	0.382762036
cg25745945	13	9.21E-09	0.182953925	0.329235285
cg00518857	13	1.36E-07	0.321890586	0.468043694
cg03133735	4	3.63E-06	0.238903222	0.384836228
cg07992457	17	2.04E-08	0.263026397	0.408939565
cg18130688	3	1.45E-06	0.248876662	0.394752602
cg14911766	6	1.81E-12	0.175548739	0.32134837
cg14115325	10	1.80E-09	0.5779637	0.723663811
cg14209781	4	3.30E-10	0.256225008	0.401706002
cg22163631	20	3.92E-08	0.229584435	0.375051696
cg07184658	9	7.14E-06	0.278592887	0.423752847

cg25649784	8	1.12E-05	0.550101272	0.6949888
cg04340928	16	9.67E-10	0.45607306	0.6009564
cg04640920	15	2.19E-07	0.619551083	0.76429583
cg26215982	12	8.45E-12	0.406581657	0.551326252
cg27443662	6	3.68E-11	0.635479562	0.78007548
cg10168726	5	8.49E-05	0.357510433	0.50205385
cg23041447	13	1.73E-05	0.399110384	0.543549466
cg20662737	5	8.68E-11	0.511098936	0.655486693
cg24604172	6	7.86E-09	0.359732817	0.504108356
cg11675165	8	7.08E-09	0.420995345	0.565312782
cg10233830	12	1.08E-07	0.158324519	0.302629711
cg14384416	2	3.98E-11	0.63681849	0.780992215
cg24447788	19	9.64E-08	0.406450039	0.550569859
cg04166294	16	4.13E-10	0.212278389	0.356390345
cg11537447	7	1.34E-09	0.635361972	0.779425876
cg16385533	22	3.12E-06	0.487013787	0.631034669
cg22757977	19	0.00011958	0.506466387	0.650481013
cg11361201	5	8.31E-14	0.151629559	0.295440003
cg21186098	8	1.32E-05	0.252639052	0.396445229
cg21202759	2	0.00254134	0.449219212	0.593000479
cg15998518	2	8.22E-09	0.438837499	0.582587626
cg24530432	4	1.11E-07	0.409039283	0.552783776
cg03647549	4	1.75E-06	0.600617277	0.744286497
cg03832015	16	1.78E-12	0.227529521	0.371167355
cg07336350	16	2.28E-10	0.22948115	0.372417401
cg08804742	3	4.88E-13	0.636595151	0.779342917
cg17712241	6	5.34E-06	0.25874179	0.401390172
cg03086399	10	1.45E-09	0.536704157	0.679325803
cg03886436	3	8.88E-07	0.290900624	0.433339904
cg15688980	3	7.58E-06	0.567459062	0.709798004
cg23428387	22	3.05E-07	0.557542522	0.699639749
cg01719994	1	8.45E-09	0.38429383	0.526286936
cg00734931	6	1.78E-11	0.260985443	0.402922535
cg06618450	4	2.06E-07	0.487278006	0.628804813
cg17023122	1	0.00079341	0.549748805	0.691132711
cg27259235	6	1.65E-07	0.272878781	0.414227539
cg12341018	6	3.11E-06	0.279352001	0.420673957
cg20480070	10	1.98E-06	0.691742715	0.833057638
cg08176551	16	6.70E-10	0.641085716	0.782349915
cg17905462	10	1.13E-06	0.232132861	0.373363892
cg07422940	16	1.57E-10	0.555032663	0.696188145
cg04146228	8	7.55E-05	0.535993404	0.677020675
cg19041857	6	9.95E-07	0.479342088	0.620356688
cg07790170	4	2.95E-08	0.089954267	0.23077467
cg11927345	5	1.83E-05	0.329353447	0.470173693
cg13098071	1	6.99E-11	0.452092749	0.592764941

cg00525392	18	1.32E-07	0.291730065	0.432379873
cg19642431	12	6.21E-10	0.439169425	0.579717959
cg01822827	8	3.99E-08	0.529024691	0.669557983
cg24590395	1	2.90E-08	0.383027601	0.523466812
cg19601666	1	3.35E-06	0.214783589	0.355213664
cg09050058	5	2.09E-05	0.402650747	0.542905221
cg01070903	17	2.59E-15	0.295733077	0.435934711
cg17534999	11	3.42E-05	0.398207977	0.538322328
cg18837542	4	1.37E-07	0.510551948	0.650562212
cg13183298	1	2.39E-10	0.459148664	0.599005371
cg04781095	2	2.64E-05	0.528744483	0.668542778
cg25576818	7	7.05E-05	0.426162726	0.5658701
cg24095850	17	1.26E-14	0.567817109	0.707463852
cg14234083	17	2.27E-14	0.386197838	0.525770532
cg09820180	6	8.55E-09	0.421219704	0.560763179
cg08817353	2	8.49E-08	0.25924386	0.398713659
cg01747796	1	0.00014344	0.559168584	0.698576193
cg08117745	20	2.56E-06	0.636780033	0.775951931
cg15562758	2	7.12E-08	0.479908919	0.619077057
cg10413688	2	1.38E-10	0.500990533	0.64000171
cg14796655	7	5.42E-07	0.519218423	0.65793379
cg19913199	8	5.70E-11	0.587026953	0.725687508
cg20199770	2	5.89E-14	0.413674532	0.552289056
cg16787307	10	5.26E-11	0.139901817	0.278390908
cg27146356	16	0.00022498	0.355288177	0.493451911
cg19891440	15	0.00112576	0.629019677	0.767135417
cg02551095	15	5.54E-12	0.617798494	0.755880129
cg02896757	8	0.00017411	0.486354804	0.624430558
cg24018633	14	2.39E-07	0.170473668	0.308535708
cg13441112	1	6.22E-09	0.476619923	0.614549043
cg11235411	10	7.53E-05	0.275346627	0.413200006
cg11496014	10	9.95E-06	0.461323922	0.599176221
cg07997877	17	6.13E-10	0.265878916	0.40348161
cg25913457	13	5.08E-11	0.309121624	0.446536718
cg19848924	10	2.33E-10	0.666806335	0.80412873
cg10855427	2	7.25E-05	0.196452947	0.333712676
cg05605980	7	8.56E-05	0.358746961	0.495453508
cg16652387	4	0.00070883	0.522185584	0.658881022
cg10225408	8	5.94E-07	0.566727314	0.703367862
cg04658679	12	0.00032423	0.247616863	0.384166551
cg21653474	6	4.74E-08	0.283579266	0.420059673
cg20377232	6	5.48E-07	0.519954301	0.656416778
cg05529123	2	4.60E-08	0.353808779	0.490249805
cg06910465	12	2.82E-09	0.70229192	0.838526591
cg27302373	1	1.80E-08	0.579308589	0.715537259
cg20023647	12	4.25E-10	0.604812237	0.74098095

cg21255880	6	6.54E-06	0.293652928	0.429688341
cg01071185	1	8.05E-08	0.183042155	0.318998998
cg17651164	2	5.22E-13	0.466353964	0.602310445
cg03852847	2	1.10E-10	0.308541183	0.444494589
cg02194243	16	2.48E-11	0.149922777	0.285874507
cg02320543	14	4.91E-06	0.214485756	0.350270067
cg06614221	15	1.79E-06	0.362827004	0.498596953
cg01428231	12	4.74E-08	0.534736952	0.670462581
cg08866497	5	0.0001707	0.518798983	0.654320986
cg00104608	3	9.19E-05	0.567491845	0.703008745
cg04058281	5	2.41E-08	0.519388999	0.654804944
cg25104233	2	6.20E-08	0.197168809	0.332498351
cg21498326	21	0.00067053	0.525006827	0.660199424
cg06609094	4	4.13E-08	0.188186552	0.323293807
cg09619624	22	1.17E-11	0.107056023	0.242133342
cg24838839	5	0.00011175	0.552046703	0.68698923
cg03491895	2	3.12E-07	0.229404113	0.364184946
cg08082810	14	0.00471644	0.563470667	0.698209137
cg11650763	5	4.24E-06	0.264876588	0.39956736
cg01030404	16	5.71E-05	0.277056112	0.411731863
cg22567585	15	1.16E-09	0.202767905	0.337313805
cg23111300	5	1.02E-06	0.457081307	0.591496847
cg00033666	15	0.00260229	0.60179154	0.736058215
cg17763192	16	3.14E-06	0.236743986	0.370975667
cg15199622	11	9.04E-08	0.183518843	0.317720391
cg14253670	8	1.23E-09	0.184730744	0.318924948
cg12659158	15	1.79E-06	0.527580177	0.661712759
cg10208777	8	1.25E-05	0.354890031	0.489022128
cg03467728	1	6.13E-08	0.579197333	0.713265871
cg06615699	13	6.97E-09	0.451347954	0.585302877
cg11356552	12	1.91E-08	0.299346873	0.433206188
cg27589654	16	4.61E-11	0.282175891	0.415959689
cg00083042	10	2.44E-06	0.17236874	0.306085962
cg11805647	15	2.94E-06	0.486179001	0.619692165
cg05570141	8	0.00010727	0.328821498	0.46207018
cg15037541	5	2.51E-05	0.470317812	0.603563615
cg09889228	16	0.00012313	0.398980682	0.53219845
cg01266853	6	7.41E-05	0.450729684	0.583667991
cg26452224	19	3.03E-06	0.322971167	0.455824432
cg07152755	2	4.86E-06	0.27442967	0.407101368
cg23322933	14	4.23E-06	0.415408477	0.548022344
cg19674722	2	1.12E-07	0.259252908	0.391787803
cg08542715	17	6.60E-10	0.211654239	0.34388175
cg09718582	2	1.18E-08	0.540449703	0.672660595
cg12524725	2	2.09E-07	0.30967667	0.441848396
cg02755847	6	1.96E-08	0.307906885	0.440017355

cg15209029	1	5.62E-06	0.312168855	0.444175877
cg03642555	5	4.00E-11	0.253646579	0.385534474
cg22951342	6	5.71E-07	0.313825026	0.445700615
cg15048461	12	4.25E-11	0.645702027	0.777547919
cg24632480	10	4.98E-07	0.254711711	0.386535744
cg03609088	18	4.00E-06	0.305300604	0.436982655
cg13083035	12	5.88E-07	0.386371434	0.517791471
cg08529345	16	1.10E-09	0.263826501	0.3950864
cg01484716	6	7.53E-06	0.292655611	0.423761657
cg08017409	16	5.18E-11	0.393907125	0.524805953
cg23742233	15	4.52E-07	0.446703277	0.577491216
cg21741708	8	1.43E-09	0.280048864	0.410772841
cg20131581	8	9.95E-08	0.560416451	0.691073969
cg27350073	3	0.00011206	0.454295909	0.584883966
cg18939596	14	1.98E-07	0.301381016	0.431961154
cg25203310	8	0.01587022	0.415891287	0.546408464
cg19634252	4	5.15E-09	0.301331023	0.431763022
cg06120979	10	2.30E-10	0.673516614	0.803779939
cg01028017	6	1.47E-08	0.273155676	0.403400984
cg19506686	2	2.18E-05	0.502217158	0.632382646
cg04239548	1	3.86E-06	0.590155173	0.720145259
cg13428681	1	1.90E-10	0.569733722	0.699539696
cg05299459	2	3.09E-06	0.586235317	0.715990981
cg03871120	18	0.00011391	0.408734158	0.538470846
cg25456068	17	1.42E-09	0.31565677	0.445330996
cg00745046	10	0.00058209	0.611332727	0.740909475
cg01457778	2	0.00010211	0.310641233	0.440210315
cg17291136	8	4.91E-11	0.205995109	0.335377767
cg02805612	3	7.41E-07	0.361452731	0.490557491
cg13446584	7	2.18E-07	0.118084744	0.247159884
cg14775958	6	1.01E-10	0.492820031	0.62187686
cg05575375	4	4.36E-15	0.274006312	0.403059522
cg13674369	5	4.71E-10	0.585010868	0.714045134
cg24518609	18	5.65E-06	0.345488069	0.474521391
cg14584815	19	1.40E-12	0.238370942	0.367298039
cg04208996	8	7.95E-05	0.586602423	0.715440521
cg07920365	2	0.00065185	0.573074034	0.701806722
cg05973305	5	3.43E-08	0.308118973	0.436822071
cg18716635	8	6.07E-05	0.52196554	0.650599753
cg26295786	14	1.06E-05	0.492449318	0.621075119
cg08732659	16	6.42E-11	0.49046354	0.619047237
cg08313393	2	1.27E-07	0.28554167	0.414022227
cg03032497	14	0.0023129	0.376260473	0.504693298
cg01736164	14	0.00012275	0.418056045	0.546421619
cg05214511	4	5.20E-06	0.427318659	0.555650741
cg10055580	17	6.54E-06	0.236621091	0.364745509

cg02735058	6	1.98E-07	0.452455836	0.580527972
cg10850823	5	0.00017525	0.404334283	0.532277972
cg22356814	1	3.99E-10	0.187754363	0.31556809
cg00998372	2	5.04E-06	0.233532497	0.361338907
cg19765196	3	0.0018701	0.505890562	0.633581712
cg24911283	4	1.84E-05	0.541569362	0.669246466
cg23332501	13	8.00E-05	0.298501641	0.426091303
cg25806932	2	3.33E-05	0.328075862	0.455535217
cg03835233	6	7.29E-06	0.682359845	0.809808218
cg19460909	13	1.10E-09	0.56595847	0.693252089
cg25026248	10	3.99E-10	0.489951921	0.61720361
cg07904568	7	6.71E-07	0.520896298	0.648022314
cg18431486	11	1.90E-07	0.667516365	0.794628551
cg03581311	4	1.65E-06	0.563366732	0.690435371
cg12120205	3	9.90E-06	0.56468533	0.691725392
cg27106204	7	0.00251384	0.534202909	0.661025635
cg24556754	1	0.00133365	0.449051981	0.575793878
cg13270626	13	2.33E-09	0.483298481	0.610005509
cg00814898	6	5.11E-10	0.466322894	0.592898814
cg02223135	3	0.00081452	0.287370969	0.413861986
cg18120446	4	0.00176091	0.475479491	0.601880908
cg03426023	16	1.29E-15	0.126735462	0.252959439
cg06850158	4	0.00043507	0.512992341	0.6391819
cg27547132	16	1.82E-06	0.204077872	0.330078239
cg26426334	1	2.41E-06	0.278990724	0.404981324
cg20056949	4	4.90E-05	0.484464517	0.610452656
cg21054080	4	3.27E-06	0.346912332	0.472863321
cg25805837	10	4.82E-05	0.69484197	0.820722892
cg24232510	2	0.00204494	0.481062866	0.606877309
cg07981003	1	8.48E-07	0.513132776	0.638816677
cg17475269	7	5.05E-06	0.332125787	0.457795778
cg12591622	6	4.47E-08	0.5003864	0.625962392
cg06788355	4	1.76E-06	0.547017821	0.67257391
cg03078141	4	4.88E-09	0.527155054	0.652657583
cg00117237	8	0.00036938	0.382408142	0.507883724
cg23157360	2	1.07E-06	0.214674974	0.340014262
cg26251208	15	2.56E-06	0.49333627	0.618645209
cg15087376	3	1.34E-07	0.115228048	0.24046932
cg00434535	7	0.00093776	0.304294287	0.429491001
cg22915373	13	7.62E-10	0.271385654	0.396543826
cg17123334	4	0.00017159	0.584197858	0.709308298
cg01220192	11	5.54E-11	0.736864955	0.861850078
cg14338513	9	1.15E-06	0.127915338	0.252821324
cg24393844	12	1.77E-06	0.349977826	0.47471969
cg02744632	2	1.12E-05	0.16227214	0.286928311
cg05019479	4	0.00017685	0.543285669	0.667709553

cg06726893	16	2.95E-06	0.357600574	0.482011409
cg06740372	3	2.48E-06	0.543088497	0.667413248
cg27085488	5	2.98E-06	0.252400666	0.376456103
cg06833347	2	1.97E-05	0.712982263	0.836985006
cg09435411	16	9.48E-07	0.400840228	0.524825234
cg13620608	10	3.02E-07	0.245822966	0.369758991
cg06895675	10	2.18E-06	0.471669147	0.595574361
cg18918418	2	0.00013862	0.505328465	0.629167995
cg19094333	7	0.00066009	0.594461772	0.718237476
cg15555095	13	0.00026543	0.381695084	0.505402091
cg01447174	11	8.74E-06	0.40663293	0.530331242
cg11759749	6	1.32E-05	0.263692241	0.387324448
cg20806725	13	2.51E-05	0.484394077	0.607944434
cg21444500	3	0.00094657	0.285037853	0.408486912
cg26587870	6	1.15E-07	0.35139515	0.474841844
cg24017800	17	1.07E-07	0.475749916	0.599194715
cg04062622	11	0.0001588	0.322962534	0.446366977
cg05492170	4	3.91E-09	0.14951543	0.272887431
cg01733176	4	6.48E-09	0.121482887	0.244737079
cg19627549	13	8.74E-06	0.402793614	0.526023376
cg25764623	1	2.26E-11	0.20468271	0.327726994
cg13954161	8	0.0070886	0.657906412	0.780888033
cg24549912	5	7.06E-06	0.242932756	0.365826284
cg01792876	8	0.00026962	0.172867829	0.295681865
cg03330558	15	6.12E-07	0.242676925	0.365375906
cg10585420	1	6.15E-05	0.365710603	0.488388856
cg23186787	4	0.00020262	0.347988155	0.470665976
cg26499663	8	4.37E-07	0.203484586	0.326114528
cg09039890	6	3.13E-06	0.525469718	0.648070163
cg23047671	5	1.21E-07	0.308983503	0.431429735
cg03348100	3	2.22E-09	0.170887714	0.293293074
cg25673593	17	5.17E-06	0.260216075	0.382597958
cg21404045	7	3.29E-07	0.233136991	0.355037292
cg12526443	12	3.37E-05	0.428478389	0.550188202
cg14431024	2	0.00020272	0.509080773	0.630754924
cg14868128	6	7.11E-05	0.262088256	0.383701783
cg22369879	3	1.92E-06	0.195620679	0.317232669
cg13740834	7	0.00024496	0.593606127	0.715082033
cg20811755	17	0.00109784	0.648854695	0.770309875
cg23751110	4	1.69E-05	0.311147464	0.432587969
cg22919863	10	7.33E-06	0.65474669	0.776172506
cg25560696	6	0.04139466	0.547600517	0.6689916
cg05516295	5	1.81E-09	0.104674048	0.225872322
cg27269917	17	1.72E-08	0.608868492	0.730017684
cg00083790	12	6.55E-13	0.484830971	0.605941314
cg06013895	17	0.00019428	0.504841363	0.625887139

cg20814158	2	5.43E-05	0.641969016	0.76289739
cg11135937	14	0.00060996	0.235722121	0.35643647
cg00775939	10	8.64E-05	0.317968181	0.438561111
cg05412531	8	1.09E-05	0.544171741	0.664653824
cg27110521	14	1.77E-05	0.535168121	0.655640104
cg10717189	2	6.67E-09	0.188727042	0.30918115
cg06100240	1	1.63E-07	0.527781797	0.64821735
cg16711011	2	8.58E-07	0.230846047	0.351239583
cg10175249	10	2.25E-07	0.586390445	0.706775043
cg04662836	15	6.90E-05	0.634692404	0.754971946
cg10311225	20	0.00181893	0.384981569	0.505162259
cg02694884	8	9.48E-07	0.592403118	0.712580488
cg06233186	12	0.00157103	0.250138714	0.370278378
cg26608663	16	2.50E-10	0.424483021	0.544580705
cg01066588	16	1.52E-05	0.366331394	0.486396854
cg20142213	8	3.86E-06	0.225498755	0.345469433
cg04323785	20	3.21E-07	0.389655992	0.509605115
cg05033701	2	1.30E-09	0.470155063	0.589983143
cg17481703	13	1.32E-06	0.307751157	0.427557245
cg09378456	7	1.66E-05	0.605418918	0.725210613
cg08393805	5	6.66E-10	0.256872366	0.376646774
cg10018522	1	0.00258103	0.349515404	0.469243378
cg13820434	2	5.45E-07	0.565535942	0.68521035
cg12947035	19	6.23E-07	0.604146766	0.723810212
cg14447710	9	4.60E-09	0.729543848	0.8491914
cg22716950	4	6.43E-08	0.552160098	0.671781565
cg02702011	15	1.11E-06	0.606277266	0.725784799
cg06383233	4	0.00029785	0.652256817	0.771734037
cg16668520	8	0.00502073	0.415280138	0.534343866
cg19881557	14	2.60E-09	0.264824106	0.383838189
cg17878320	5	0.00182131	0.377143569	0.496151634
cg23685994	2	1.40E-06	0.56378582	0.68279159
cg21097354	7	0.00474267	0.436339641	0.555327246
cg03716125	2	5.97E-06	0.271484969	0.390472376
cg24919344	5	2.28E-06	0.658110404	0.777074166
cg10874319	4	2.23E-06	0.661315331	0.780209442
cg00326161	6	1.86E-12	0.300133553	0.418976647
cg18290233	5	0.00021229	0.278480092	0.397181
cg18672716	2	4.85E-09	0.674311731	0.792954769
cg19801646	13	2.27E-06	0.513535024	0.632079946
cg16998564	1	0.00040691	0.49993885	0.618213072
cg07521193	15	1.59E-05	0.725493645	0.843657287
cg18211249	17	3.52E-06	0.397041764	0.515128726
cg00126887	4	9.36E-05	0.527116418	0.645103097
cg09862711	8	0.00201826	0.349850031	0.467769334
cg03674744	1	0.0022772	0.635111264	0.752951091

cg08949428	13	0.00019978	0.473241428	0.591076386
cg20823348	2	8.18E-06	0.167211825	0.285032726
cg26107642	5	0.00039483	0.231261001	0.349063595
cg24935154	4	3.58E-08	0.699342921	0.817120172
cg19734222	7	3.94E-08	0.24454644	0.362285064
cg11847956	5	5.18E-11	0.126497409	0.244157182
cg05257086	5	1.55E-08	0.723788971	0.841438235
cg09266087	12	0.0033472	0.201777349	0.319393624
cg08827274	3	1.57E-06	0.65676193	0.774373821
cg08033998	14	0.0001514	0.61615054	0.733700582
cg11117438	7	8.55E-10	0.289326226	0.406727966
cg01230988	17	4.67E-05	0.190627799	0.307964815
cg02511845	8	0.00057404	0.407765964	0.525043042
cg01146324	13	1.44E-05	0.251041332	0.368195333
cg16286755	18	1.09E-11	0.436713222	0.553848643
cg16288630	5	0.00011721	0.529585152	0.64670378
cg21658814	6	5.20E-07	0.561553706	0.678642878
cg10165209	17	1.06E-07	0.362050787	0.479120038
cg17855963	6	0.01520298	0.444366367	0.561366599
cg24847427	7	9.86E-05	0.146147277	0.263138121
cg24663419	2	8.42E-05	0.479314739	0.596281881
cg00326788	6	0.00226461	0.656076407	0.773031998
cg08290668	16	0.00699579	0.303412989	0.420368579
cg18275589	5	1.09E-08	0.15386645	0.270737453
cg24074783	3	0.00027269	0.500516782	0.617296453
cg05987309	2	0.00049617	0.212281352	0.328880171
cg01746550	2	4.80E-05	0.55136948	0.667918511
cg02081019	5	0.00024528	0.274871602	0.391401072
cg14299157	9	5.16E-11	0.181818758	0.29831407
cg16466881	7	0.00463963	0.447947108	0.564410642
cg06994502	17	6.62E-05	0.558703043	0.675099204
cg06005098	16	7.86E-10	0.391058646	0.507403439
cg06047587	3	2.13E-05	0.427362596	0.543553747
cg21192370	9	1.04E-05	0.615528238	0.73170331
cg21324402	6	4.63E-09	0.198309807	0.31440726
cg20232291	3	2.49E-11	0.235540435	0.351635022
cg18623649	10	0.00072727	0.393792347	0.509852692
cg14279307	1	9.94E-06	0.400470085	0.516522075
cg02326500	7	0.00230507	0.430082298	0.546042251
cg18303437	3	1.70E-11	0.164324965	0.28021609
cg18833559	7	1.45E-07	0.258427837	0.374316904
cg06417878	2	4.83E-05	0.635596724	0.751415917
cg20248654	13	0.00055406	0.39955171	0.515255524
cg10467371	6	0.00067466	0.412791278	0.528379079
cg02069592	14	9.21E-06	0.191386987	0.306880232
cg07189366	6	0.00507053	0.369492912	0.484934978

cg00463491	3	0.00114412	0.213446646	0.328784237
cg11710595	2	4.34E-08	0.699478993	0.814784478
cg17687551	3	1.11E-06	0.305565043	0.420716683
cg08312765	12	1.06E-06	0.202058863	0.317202559
cg08339979	6	1.11E-09	0.149648465	0.264736906
cg18808929	8	0.00027041	0.265422236	0.38040347
cg05419096	13	1.72E-06	0.276398149	0.391371616
cg04095995	6	2.26E-06	0.512664619	0.627607879
cg05706649	1	4.58E-06	0.393637146	0.508576344
cg18106366	14	0.0011343	0.328727853	0.443637769
cg07247778	6	1.79E-06	0.374731845	0.489630803
cg05296188	6	7.13E-07	0.63609545	0.750965698
cg13903070	1	3.67E-05	0.264303748	0.379145258
cg18585396	10	0.00717182	0.438738003	0.553575969
cg13695075	14	9.41E-07	0.560835576	0.675645856
cg25967170	12	0.0003678	0.330615507	0.445173344
cg06177459	8	2.87E-05	0.303386208	0.417903893
cg19629428	1	3.57E-05	0.329288034	0.443781381
cg05682319	5	5.55E-05	0.54456902	0.659056666
cg12657025	1	0.00440907	0.592713182	0.707138825
cg19453488	14	9.91E-06	0.311660867	0.425971746
cg24205414	2	9.48E-07	0.548553112	0.662848665
cg25028404	1	1.88E-05	0.466121436	0.580300994
cg11469908	2	5.50E-09	0.200069868	0.314192136
cg14994447	1	8.65E-08	0.611814357	0.725887672
cg00225196	8	0.00036537	0.469090979	0.58310831
cg03953506	12	0.00161897	0.327523551	0.44141873
cg25595388	5	1.39E-08	0.450907298	0.564744926
cg15424233	2	0.00025383	0.532164838	0.645902055
cg00339682	4	0.00884014	0.456839366	0.570407171
cg14360405	11	0.00045947	0.331748405	0.445126946
cg16012162	1	3.08E-08	0.516377889	0.62973918
cg02177168	2	0.00064725	0.329842224	0.443115211
cg20174393	7	0.0030374	0.397270432	0.510478915
cg26088680	14	1.42E-05	0.573058019	0.686219888
cg27265404	4	8.95E-06	0.53544457	0.648568982
cg03131729	11	8.26E-07	0.206542054	0.319572152
cg27654476	14	3.20E-08	0.445638718	0.558667732
cg02587606	10	0.0070319	0.415961078	0.528968488
cg17743732	2	5.64E-06	0.383378694	0.496378392
cg02939659	14	6.24E-05	0.750911917	0.863651364
cg08903619	13	2.76E-09	0.511607676	0.624132967
cg08870914	17	0.00028191	0.493194538	0.605660245
cg07216436	3	3.77E-05	0.268428946	0.380856125
cg25370412	4	0.00050652	0.480425695	0.592819253
cg07095894	11	0.00057784	0.397238439	0.509629166

cg07774193	5	0.00062917	0.517840726	0.630191883
cg12426653	13	4.10E-05	0.583459415	0.695740311
cg12027135	4	2.32E-05	0.504685856	0.616913046
cg20335293	2	2.75E-05	0.40449613	0.516719894
cg19689506	15	0.00012842	0.554363036	0.666513081
cg14944398	7	0.0002666	0.259986318	0.372081302
cg11747081	13	0.00039179	0.38659714	0.498587356
cg03035115	16	0.00064342	0.415537601	0.52730616
cg02343628	15	4.22E-09	0.643133465	0.754859467
cg23220769	13	5.64E-09	0.463226844	0.574887119
cg26896771	15	4.92E-10	0.324938871	0.436523978
cg09636436	2	1.35E-07	0.586764223	0.698302227
cg07581680	2	0.00035569	0.202607716	0.314144213
cg10652915	10	2.91E-05	0.160203981	0.271736113
cg14983236	1	3.79E-05	0.626204932	0.737723293
cg09459955	6	1.04E-07	0.683668389	0.795150855
cg07343174	18	4.23E-06	0.554017187	0.665444788
cg23093664	2	5.97E-08	0.229932694	0.341262796
cg05954780	15	4.10E-08	0.7061198	0.817449084
cg22826136	5	1.74E-08	0.559354174	0.670560131
cg23226168	2	0.00511863	0.561805286	0.673002866
cg07190903	11	2.40E-10	0.273011907	0.384182652
cg17533533	7	1.83E-06	0.561383412	0.672452632
cg00574206	12	0.00765145	0.556093956	0.667113204
cg09348580	19	0.0004801	0.290004962	0.400895513
cg06554036	8	5.80E-06	0.662336471	0.773167336
cg11990334	19	0.00130461	0.546021166	0.656842884
cg08133062	6	0.00101838	0.3821979	0.493001609
cg13294084	2	0.00884554	0.673529004	0.784263684
cg25287198	4	0.00457816	0.324527802	0.43525597
cg18211761	8	0.00858191	0.405721431	0.516403347
cg08650132	10	2.33E-05	0.655985801	0.7666583
cg27502088	15	1.54E-07	0.251710812	0.362289942
cg08757924	4	0.00022342	0.336065222	0.446584919
cg02964087	16	8.43E-05	0.421561209	0.531961286
cg27144055	16	4.19E-06	0.280405877	0.390775074
cg21501167	4	2.59E-06	0.531447551	0.64166351
cg16845701	11	0.00425641	0.298540132	0.408747363
cg00039129	6	2.61E-05	0.240955214	0.351110656
cg12000760	6	3.78E-05	0.356046959	0.466163497
cg05943077	14	5.07E-05	0.458156197	0.568233152
cg01188146	12	4.23E-06	0.359044408	0.469076536
cg06011086	8	6.06E-05	0.39928029	0.509289381
cg06853697	1	7.00E-09	0.652503763	0.762423681
cg14264793	1	9.80E-10	0.629175627	0.73906352
cg10323531	7	5.06E-12	0.302574257	0.412390853

cg19679302	7	0.00024584	0.570657335	0.680332345
cg26013796	12	0.00051582	0.379240818	0.488912212
cg03666350	2	0.01039108	0.349275395	0.458930942
cg19080233	5	0.00117437	0.167930816	0.277579789
cg13294846	5	0.00566098	0.616013067	0.725619467
cg08037684	6	0.01875096	0.39364872	0.50311955
cg08798685	6	0.00180478	0.525677846	0.635110482
cg09071834	2	0.04285118	0.439523827	0.548941968
cg15320349	8	5.23E-09	0.341150954	0.450566832
cg00566961	5	0.00551646	0.551307371	0.660641776
cg02525719	4	0.00595873	0.326227663	0.435503593
cg15909725	11	4.96E-06	0.692397007	0.801665546
cg08871474	16	2.13E-08	0.644180054	0.753444033
cg09287096	10	8.66E-12	0.686384949	0.79562747
cg08577607	7	0.00020527	0.290618747	0.399815963
cg23254393	4	2.99E-12	0.119307013	0.228472516
cg24153924	1	1.60E-05	0.381644684	0.490706713
cg13572592	12	8.48E-05	0.377348651	0.486384874
cg23943309	5	4.71E-05	0.63076672	0.739768692
cg20703790	7	1.89E-07	0.599553495	0.708296568
cg13212080	14	7.88E-07	0.37185249	0.480524295
cg08648281	19	3.70E-12	0.186815071	0.295479482
cg12927252	2	0.00095623	0.342051587	0.450713809
cg13252730	14	0.00481922	0.359648723	0.468262021
cg18808318	18	3.20E-06	0.624119507	0.732652831
cg14467794	3	0.0016288	0.590330007	0.698820195
cg23082635	3	0.00154502	0.244232949	0.352672972
cg00077285	15	2.82E-06	0.645738643	0.754163601
cg22893755	17	0.00015149	0.434237369	0.542642087
cg13065299	1	0.00012654	0.309376723	0.417765574
cg07534892	12	5.72E-05	0.336703724	0.444984216
cg08956474	10	4.90E-05	0.201180286	0.30939858
cg00100804	9	0.00478943	0.356733193	0.464943124
cg06504925	11	0.00155271	0.533936003	0.642026158
cg27387239	1	4.65E-07	0.217076235	0.325139698
cg20578612	7	9.60E-08	0.536843609	0.644904947
cg22658758	5	1.26E-06	0.223983581	0.332017243
cg04141975	5	0.00198992	0.406443089	0.514398065
cg14067233	9	4.37E-06	0.6373599	0.745301275
cg21605772	5	0.00099978	0.368351374	0.476225022
cg25750209	2	9.32E-05	0.63089832	0.738722096
cg10151901	15	0.0039318	0.615380481	0.723190968
cg00270141	2	9.62E-08	0.733032309	0.840836672
cg11404945	1	5.73E-06	0.429975191	0.537669481
cg20853361	2	2.75E-05	0.621330619	0.729006313
cg19325132	2	7.14E-08	0.224213727	0.331753751

cg24407133	7	1.41E-05	0.500797847	0.608168131
cg07698039	10	0.000191	0.391512041	0.498845385
cg11592242	8	1.41E-06	0.317749279	0.425026211
cg25607216	11	1.08E-06	0.252406168	0.359673176
cg25017403	15	4.02E-06	0.250078771	0.357217817
cg26572608	15	0.00045243	0.471193313	0.578324741
cg06738955	18	0.00595569	0.265359532	0.372464538
cg16563187	16	1.63E-05	0.58999309	0.697071804
cg03402120	11	2.72E-08	0.562217441	0.669245418
cg03913423	2	8.82E-09	0.585494014	0.692221604
cg14120534	2	0.00705388	0.584890024	0.691564378
cg13488811	11	0.00023102	0.3212282	0.427739839
cg15107871	6	1.67E-06	0.518900388	0.62537222
cg10012920	11	8.41E-12	0.607967698	0.714397151
cg17855264	15	5.30E-13	0.084738398	0.191095543
cg13016619	2	0.00014303	0.52130251	0.627656644
cg11045531	10	0.00125625	0.477477624	0.583773147
cg08371140	10	7.92E-05	0.510776022	0.617053905
cg14654239	8	1.75E-07	0.643075121	0.749344676
cg04249742	10	8.48E-05	0.261548623	0.367804321
cg10541663	3	0.00702551	0.273088125	0.379307894
cg17501906	1	4.85E-05	0.207236563	0.313388347
cg24409876	1	4.98E-10	0.214398822	0.320441542
cg24920933	7	0.00012165	0.385612096	0.491554836
cg11821637	12	1.04E-15	0.142983666	0.248925966
cg23888021	12	9.09E-08	0.611682848	0.717486533
cg01353960	2	0.00010992	0.42037616	0.5261373
cg21717348	7	1.95E-07	0.21297018	0.318705142
cg06462543	2	1.72E-06	0.291893131	0.397509403
cg14148981	14	0.00790903	0.342427079	0.44803815
cg05490308	19	1.31E-07	0.60998212	0.715577612
cg08474521	7	0.00091913	0.269449693	0.375013844
cg01417364	12	3.78E-05	0.469658847	0.575162878
cg24926589	2	0.00157174	0.506738994	0.612238305
cg18742433	10	0.00572303	0.485281231	0.590690215
cg26270263	2	0.00039912	0.441163872	0.546561153
cg26351614	7	0.00024101	0.406134058	0.51147497
cg10809134	2	2.12E-09	0.614691804	0.719962629
cg04004561	12	0.00395612	0.328741103	0.43389218
cg11823603	5	0.00012475	0.654701165	0.759843582
cg00270974	6	0.00370653	0.15681102	0.261914783
cg18250736	3	3.45E-06	0.595157349	0.700258574
cg02015741	5	5.74E-07	0.212316987	0.317358655
cg20389063	6	0.00023594	0.365646011	0.470647738
cg27535214	2	0.00035408	0.627601176	0.732588049
cg11584101	1	1.28E-10	0.445421031	0.550401742

cg14272084	14	0.00331898	0.361888009	0.466849236
cg08024548	7	5.30E-10	0.444970906	0.549924506
cg08299265	12	0.00115425	0.511979292	0.616836409
cg00354775	20	3.15E-07	0.567671061	0.672480976
cg23884406	20	3.53E-06	0.512167719	0.616943747
cg22905192	4	7.43E-07	0.221594757	0.326317064
cg00017429	14	0.0001766	0.359111313	0.46378526
cg06581409	19	0.00479601	0.371373064	0.476045193
cg10506844	10	0.00061602	0.2575325	0.362142702
cg18307783	5	2.29E-05	0.375884284	0.480459719
cg13076829	18	3.54E-06	0.258494215	0.362993012
cg02560081	7	7.70E-09	0.319964982	0.42442229
cg22611523	10	7.54E-07	0.184968282	0.289413162
cg19596983	15	0.00034393	0.274367203	0.378594239
cg07533422	5	1.53E-06	0.2699321	0.374122357
cg10969209	1	2.61E-05	0.149896561	0.254050212
cg24458756	2	2.84E-10	0.642523418	0.746659752
cg25438876	5	0.00034417	0.244290629	0.348390332
cg05376017	6	0.00072427	0.299340897	0.403357522
cg08951452	8	9.21E-05	0.226822666	0.330830807
cg19547330	5	0.01317264	0.213715257	0.317690927
cg07557630	5	2.75E-08	0.598457029	0.702426303
cg15026265	12	4.91E-05	0.207791172	0.311743577
cg07077965	2	5.61E-07	0.243601837	0.347481903
cg24979167	7	2.00E-10	0.121933185	0.225801996
cg00490004	3	0.00053179	0.556722556	0.660536291
cg16059991	15	1.83E-06	0.302239551	0.406052997
cg06784545	1	8.66E-07	0.256586397	0.36035935
cg21540970	2	0.00038139	0.461091959	0.564864845
cg12039595	1	2.43E-05	0.327224371	0.430984518
cg13824877	6	1.73E-05	0.552987616	0.656731902
cg17059694	2	0.00053285	0.275848518	0.379550178
cg13877452	9	0.00062184	0.565260073	0.668883772
cg02283204	6	3.07E-08	0.134025804	0.237623148
cg24090990	1	8.64E-05	0.20474732	0.308320549
cg05047706	8	0.03966059	0.657802965	0.761367839
cg01091645	16	0.0111434	0.244340277	0.347832004
cg03465049	16	1.29E-05	0.49009716	0.59348439
cg01450566	20	1.59E-05	0.476134552	0.579504625
cg05509190	2	9.69E-08	0.220224842	0.323576091
cg27156041	7	5.84E-09	0.598802073	0.70213857
cg07316846	2	2.79E-05	0.531108173	0.634436327
cg15672653	11	1.84E-06	0.2320767	0.335378324
cg02391713	6	2.44E-06	0.271921179	0.375200124
cg11078040	17	2.87E-07	0.669801245	0.773038235
cg00278984	6	0.00031168	0.429899355	0.533119338

cg11212451	5	9.99E-07	0.136389153	0.239603823
cg13026629	14	0.00011633	0.248499099	0.351695714
cg13891768	4	9.48E-07	0.117982153	0.221157085
cg06596221	12	0.00010535	0.437310557	0.540419701
cg22006640	4	2.33E-11	0.157026451	0.260124245
cg23229143	6	0.00169853	0.614731358	0.717773831
cg19481513	5	0.0012829	0.220513074	0.323485441
cg20797188	16	0.01783221	0.46176576	0.564737293
cg09631769	22	2.61E-06	0.244132943	0.34707724
cg22620090	6	4.19E-06	0.224507275	0.327397107
cg17258364	17	0.00010923	0.607383156	0.710272318
cg15089826	1	0.00411062	0.293423601	0.396279545
cg14538785	9	0.00010483	0.141813521	0.24466613
cg27336587	15	0.00322707	0.618859728	0.72160132
cg25370567	13	1.09E-06	0.126467256	0.229134854
cg13226457	2	5.46E-10	0.268170884	0.370829098
cg09765089	7	3.74E-06	0.230195799	0.332844362
cg02067239	16	0.00936092	0.257404712	0.360050141
cg17667035	10	0.00079091	0.510329781	0.612928497
cg13116158	8	0.0101495	0.442192573	0.544749965
cg15281710	15	0.02088504	0.649848709	0.752386173
cg09283120	10	0.00025812	0.400405496	0.502868879
cg02595114	7	5.60E-10	0.576186369	0.678467152
cg19888684	7	0.00063857	0.211317346	0.313590667
cg14671000	2	3.32E-09	0.714072481	0.81626357
cg02995791	10	1.74E-06	0.726087858	0.827955604
cg21244580	8	0.00187647	0.310916971	0.412736235
cg16405960	8	0.00843688	0.327053002	0.428766838
cg04022561	5	4.56E-14	0.070396429	0.172088702
cg02260710	16	2.14E-06	0.617389211	0.719078917
cg01994252	12	2.46E-08	0.439094917	0.54077037
cg08958251	11	2.78E-05	0.290809198	0.392456745
cg23244948	14	1.02E-05	0.424190888	0.525819895
cg13165983	2	0.02721855	0.259474712	0.361022286
cg16811851	16	0.000109	0.501483494	0.602955538
cg00442205	2	4.65E-05	0.24246894	0.343928546
cg20486986	1	3.18E-05	0.427879499	0.529270798
cg21015808	7	7.27E-09	0.269870499	0.371251782
cg20786730	11	9.45E-05	0.421813525	0.523162491
cg11182160	5	2.87E-07	0.313736066	0.415061151
cg11165960	15	0.00035994	0.669767586	0.771003825
cg20987429	8	2.82E-08	0.174067877	0.275289463
cg08262608	13	3.14E-07	0.316022448	0.417223969
cg27626334	11	1.53E-13	0.428098958	0.529251138
cg25503888	3	3.01E-06	0.269892929	0.3709994
cg05135499	10	9.52E-09	0.214280178	0.315365115

cg01150411	2	0.00215788	0.368020134	0.469067016
cg17466658	15	0.00369526	0.618115961	0.719153455
cg09007841	16	0.00181223	0.231890691	0.332905997
cg27243507	3	0.00011131	0.453017829	0.554007358
cg17943922	4	9.33E-05	0.560435768	0.661423455
cg01281649	15	5.93E-05	0.386653872	0.487561302
cg13388769	3	9.14E-05	0.32683265	0.427691112
cg23403144	5	7.89E-08	0.485949634	0.586707977
cg17767057	5	0.00011311	0.523243478	0.623998264
cg12379383	15	0.0002805	0.538824265	0.639572878
cg07644196	2	0.00017411	0.318345358	0.419092139
cg07419795	4	0.00288435	0.269959587	0.370653485
cg18915691	17	5.42E-11	0.603633537	0.704296907
cg23510764	5	0.00031133	0.241848482	0.342506781
cg09309112	17	2.55E-06	0.487556574	0.588203865
cg09371042	12	0.00081097	0.442914683	0.543543474
cg18449426	10	2.37E-05	0.665900322	0.766432501
cg26856596	11	8.92E-05	0.591992676	0.692523606
cg18207201	4	0.00322363	0.223212105	0.32371052
cg20312077	8	0.00069841	0.40106398	0.501482046
cg21103316	7	1.63E-07	0.713298236	0.813658989
cg25024214	1	5.31E-08	0.578136755	0.678479078
cg20083186	3	0.00188161	0.302531534	0.402873619
cg11350504	13	6.30E-07	0.558181461	0.658519896
cg22253129	3	1.21E-06	0.572775424	0.673058941
cg06329392	13	1.85E-05	0.455113338	0.555294749
cg25973445	7	0.00021264	0.211385073	0.311547894
cg11152463	1	5.41E-08	0.366270577	0.466422895
cg15556591	4	0.00323796	0.295831188	0.395952973

Hypomethylated in OA hip

Delta Beta	Probe	Gene	CHR	adj.p.val	Mean β - value OA Knee
-0.139287664	cg25710107	A2LD1	13	2.73E-07	0.64148526
-0.168044102	cg24545728	AATK	17	6.57E-07	0.55139488
-0.144168925	cg21660392	ABCA8	17	0.00023836	0.59723997
-0.123346991	cg02470904	ABCB5;ABCB	7	0.00620433	0.56160941
-0.128540688	cg02776283	ABCB6	2	4.31E-05	0.79824358
-0.110570312	cg01332683	ABCC1;ABCC	16	7.35E-10	0.32616676
-0.11613205	cg02672229	ABCC2	10	4.31E-06	0.83427152
-0.164580377	cg27243685	ABCG1;ABCG	21	1.81E-07	0.76418016
-0.103054058	cg17574812	ABHD6	3	7.34E-07	0.43480919
-0.238247257	cg01104073	ABP1	7	1.68E-09	0.47915859
-0.121452702	cg03703887	ABTB2	11	5.83E-06	0.33700247
-0.123716321	cg08866695	ACACB	12	7.66E-09	0.5310322
-0.112358593	cg08931456	ACAP2	3	8.25E-05	0.66691546
-0.139495406	cg22675767	ACAP3	1	1.84E-07	0.4527709
-0.168173758	cg14527333	ACCN4;ACCN	2	4.01E-06	0.32063249
-0.136052453	cg00555456	ACN9	7	0.00019477	0.38195536
-0.115259111	cg18038894	ACSF2	17	2.24E-06	0.5154131
-0.238510981	cg06572911	ACSF3;ACSF3	16	4.98E-05	0.81212527
-0.110820384	cg07474797	ACSF3;ACSF3	16	0.00020855	0.79236925
-0.150249719	cg18381395	ACTN2	1	1.13E-07	0.83156374
-0.131200155	cg07504040	ACTN2	1	1.94E-08	0.66149777
-0.109872279	cg18412431	ACTN2	1	2.77E-10	0.62970026
-0.10038427	cg24368226	ADAMTS17	15	3.93E-05	0.41168859
-0.123893194	cg15180869	ADAMTS2;AI	5	0.03473458	0.84544362
-0.141787828	cg07075085	ADAMTS9	3	0.00036329	0.41955933
-0.148138779	cg05904016	ADAP1	7	0.00922188	0.43499812
-0.126918104	cg21842920	ADAP1	7	0.0079746	0.54525133
-0.105216402	cg00363080	ADARB2	10	6.91E-06	0.75276748
-0.145479863	cg19254118	ADAT3;SCAM	19	1.11E-09	0.79003885
-0.14448936	cg01294521	ADAT3;SCAM	19	2.77E-07	0.63583152
-0.107449883	cg20243900	ADAT3;SCAM	19	2.60E-09	0.77728108
-0.101965788	cg01397065	ADAT3;SCAM	19	1.27E-06	0.62929026
-0.210940252	cg14396328	ADCY1	7	0.00013367	0.7695229
-0.184381519	cg05765011	ADCY9	16	2.12E-08	0.74388385
-0.18182162	cg00162104	ADD1;ADD1;	4	1.03E-06	0.66572686
-0.155486721	cg08826152	ADORA2B	17	6.33E-05	0.70258335
-0.130795609	cg01833057	AFAP1;AFAP:	4	0.00047364	0.50977999
-0.117377355	cg07109358	AFAP1;AFAP:	4	4.10E-06	0.50627162
-0.112332084	cg17455261	AFF1	4	6.42E-06	0.39021747

-0.111201626	cg23497683	AFF3	2	0.00034163	0.77290821
-0.108762286	cg23856611	AGAP1;AGAF	2	0.02340364	0.39819847
-0.108270927	cg23836814	AGBL2	11	0.00059845	0.63248144
-0.102048807	cg15664152	AHCYL2;AHC	7	1.79E-05	0.31572884
-0.143564771	cg14426428	AIM1	6	0.00177421	0.73653539
-0.113219003	cg00031779	ALPK2	18	0.00020685	0.51560094
-0.102630711	cg13061976	ALPK3	15	3.30E-10	0.7308318
-0.123847097	cg10063575	AMHR2;AMH	12	2.78E-05	0.51272994
-0.105285968	cg23937993	AMPD3;AMP	11	5.96E-05	0.4697376
-0.113085249	cg22308970	AMPH;AMPH	7	2.52E-07	0.69885246
-0.113669482	cg06618764	AMZ1	7	3.10E-07	0.49111485
-0.10253393	cg07677598	ANK2	4	0.00012436	0.6604483
-0.103022789	cg09291474	ANKDD1A	15	3.09E-10	0.37625987
-0.139965867	cg06567829	ANKRD11	16	0.0001177	0.55372811
-0.142829561	cg01543603	ANKRD11	16	1.18E-07	0.39771326
-0.13259433	cg08583277	ANKRD11	16	5.41E-07	0.51418485
-0.109404693	cg02950892	ANKRD2;ANK	10	7.27E-08	0.54136432
-0.134759203	cg22889914	ANKRD2;ANK	10	1.54E-09	0.68565171
-0.126573346	cg00794673	ANKS1A	6	0.03229354	0.68194109
-0.115746888	cg18447785	ANKS1B	12	1.83E-06	0.75037222
-0.159349094	cg26340149	ANO1;ANO1	11	7.94E-07	0.47835116
-0.158237484	cg00557996	ANO1;ANO1	11	6.12E-07	0.46228243
-0.116112883	cg18771737	ANO10	3	2.12E-11	0.85415908
-0.134654982	cg14107382	ANO4	12	3.85E-08	0.48512054
-0.112655093	cg14707353	AOX1	2	6.74E-06	0.81112302
-0.159583926	cg15908627	AP2A2	11	0.00094693	0.65638883
-0.11318212	cg19220825	AQP5	12	0.00120725	0.37115354
-0.232188512	cg19599611	AQR	15	0.00024233	0.61430081
-0.123425612	cg06570358	ARHGAP10	4	0.00072657	0.65877441
-0.153266385	cg03244997	ARHGAP27	17	8.36E-09	0.44541406
-0.105850273	cg25246246	ARHGAP27	17	1.73E-07	0.5377372
-0.107469302	cg27060340	ARHGAP27;A	17	0.00017519	0.42075785
-0.1384547	cg14802312	ARHGAP9;AR	12	0.01624699	0.48760353
-0.110123779	cg07694735	ARHGEF10	8	0.0028893	0.58114425
-0.180414771	cg01824603	ARHGEF10	8	2.06E-10	0.71837412
-0.144460135	cg27638453	ARID1B;ARID	6	3.56E-07	0.65603975
-0.11553523	cg02466798	ARID3A	19	2.45E-11	0.28916694
-0.229368106	cg08553572	ARID3A	19	0.00062429	0.86704664
-0.171538012	cg02001279	ARID3A	19	7.09E-14	0.46984422
-0.10071247	cg18598117	ARID3A	19	5.33E-16	0.60618463
-0.128593057	cg08894487	ARID3A	19	1.23E-17	0.55837762
-0.121345735	cg06318796	ARID5B	10	0.0001728	0.55934345
-0.107053143	cg27168076	ARMC9	2	7.49E-08	0.34047871
-0.105576709	cg16468417	ARPP-21	3	3.15E-09	0.49542645
-0.182028318	cg21852346	ARPP-21;ARF	3	2.77E-05	0.7365128
-0.111754041	cg23219253	ASAP2;ASAP:	2	4.52E-06	0.56308155

-0.100008267	cg01956154	ASB2;ASB2	14	6.84E-06	0.31007503
-0.196854748	cg21092030	ASPG	14	0.00066017	0.64777536
-0.14093857	cg22293261	ASPSCR1	17	0.00128781	0.80231063
-0.139644638	cg01461067	ATOH8	2	7.26E-05	0.6160844
-0.123662027	cg19970086	ATP11A;ATP:	13	8.78E-10	0.77052427
-0.135855854	cg02873074	ATP11A;ATP:	13	3.23E-07	0.58225391
-0.14724707	cg14355581	ATP5EP2	13	1.08E-12	0.57638283
-0.160397399	cg22288309	ATP8B4	15	0.0022634	0.65851948
-0.131957957	cg20663852	ATP9A	20	0.01934606	0.5160514
-0.180225659	cg00151370	ATXN1;ATXN	6	0.00157946	0.40356654
-0.147402209	cg18411108	ATXN7;ATXN	3	0.00023364	0.69662966
-0.173901145	cg19793499	AUTS2;AUTS:	7	0.00012095	0.48213313
-0.111982319	cg04601228	AUTS2;AUTS:	7	0.00077074	0.59728809
-0.294852243	cg01045337	AXIN1;AXIN1	16	2.82E-05	0.68942294
-0.110210686	cg02086790	AXIN1;AXIN1	16	8.57E-05	0.89397599
-0.131768108	cg27549619	AXIN1;AXIN1	16	0.0007925	0.48838067
-0.105192658	cg12549411	B3GALT5;B3G	21	0.00018821	0.4272523
-0.170949776	cg05617307	BAG3	10	0.0009764	0.64858417
-0.142843094	cg00504599	BAHCC1	17	0.00019113	0.83777525
-0.122512995	cg22230229	BAHCC1	17	1.81E-05	0.78712722
-0.155779667	cg23515853	BAHCC1	17	1.30E-09	0.77734067
-0.170658167	cg12846139	BAHCC1	17	5.45E-11	0.84897175
-0.170001927	cg12349181	BAIAP2;BAIA	17	0.0003563	0.65086541
-0.186032753	cg00935421	BANP;BANP	16	0.00035163	0.61765267
-0.10006456	cg15055782	BARX2	11	2.81E-07	0.59130437
-0.101233996	cg09800500	BCAT1	12	2.44E-06	0.61695795
-0.115476008	cg09911747	BCL11B;BCL1	14	4.20E-06	0.60543899
-0.146425782	cg19450111	BCL11B;BCL1	14	0.00027455	0.61386112
-0.2003778	cg14841828	BCL11B;BCL1	14	2.73E-06	0.59231351
-0.110061183	cg10020892	BCL9	1	0.00158298	0.60010871
-0.103166441	cg15110101	BEST1;BEST1	11	0.00133453	0.36156249
-0.100834199	cg13533456	BET3L	6	0.00350219	0.62346545
-0.132583278	cg26427090	BID;BID;BID	22	5.68E-07	0.58906319
-0.103920588	cg27405400	BIN1;BIN1;BI	2	1.78E-07	0.53390817
-0.140559641	cg27496339	BLVRA	7	4.23E-09	0.36031807
-0.100979415	cg23623251	BMP6	6	0.00113712	0.31019446
-0.166728047	cg20955836	BMP7	20	0.00063019	0.61663177
-0.109008929	cg26760589	BMP7	20	2.15E-06	0.45554553
-0.11799471	cg07781736	BMP7	20	1.70E-05	0.59146655
-0.143738598	cg14478713	BNC2	9	0.00144938	0.45225767
-0.107947251	cg12160741	BRF1	14	2.16E-05	0.60786406
-0.106304418	cg19977004	BRSK2	11	1.40E-09	0.65819957
-0.158150543	cg10002860	BRSK2	11	4.32E-11	0.63743329
-0.103142017	cg08458711	BSND	1	0.00054115	0.35410039
-0.127420144	cg02405193	BTBD12	16	2.53E-06	0.73980138
-0.183766007	cg18286127	C10orf84;C10	10	3.91E-05	0.54521402

-0.132850246	cg21201830	C11orf21;C1:	11	0.002434	0.71333596
-0.110559459	cg21027517	C11orf21;TSF	11	0.00028407	0.66115191
-0.112101056	cg25961099	C11orf21;TSF	11	0.00018407	0.7554237
-0.108499541	cg01211906	C11orf21;TSF	11	6.72E-06	0.49536636
-0.125466102	cg09549304	C11orf70	11	1.77E-06	0.68654608
-0.11407049	cg06579738	C11orf92	11	0.00071126	0.6495219
-0.110656299	cg26467753	C12orf59	12	1.20E-11	0.37013008
-0.177932746	cg21368143	C12orf77	12	1.27E-05	0.70134871
-0.174375548	cg16484526	C12orf77	12	4.45E-06	0.64079848
-0.108744201	cg14384178	C13orf16	13	0.00324552	0.5423255
-0.114330991	cg13251181	C13orf33	13	1.97E-05	0.39121742
-0.128615648	cg01533082	C14orf37	14	1.07E-05	0.72363414
-0.161172242	cg05168580	C14orf73	14	2.46E-05	0.63982837
-0.152369624	cg12861771	C15orf27	15	1.00E-05	0.75934104
-0.149593536	cg12609829	C15orf53	15	0.00642254	0.77426967
-0.141947886	cg20678353	C15orf53	15	0.00109184	0.37532914
-0.131367416	cg08274633	C15orf53	15	1.39E-05	0.82062645
-0.122831369	cg07835443	C16orf55	16	0.00271523	0.55776824
-0.114555192	cg16725984	C16orf55	16	0.00183284	0.770481
-0.114285458	cg15531249	C16orf74	16	0.00357246	0.40224617
-0.110485448	cg05612839	C16orf74	16	2.55E-09	0.30147414
-0.12657896	cg01713348	C16orf91	16	8.81E-08	0.48515787
-0.13548544	cg22595391	C17orf62;C1:	17	0.00030428	0.53821925
-0.11146658	cg14145667	C19orf22	19	1.25E-06	0.73647001
-0.10327186	cg23357435	C19orf26	19	1.62E-06	0.77067296
-0.103879682	cg17344770	C19orf71	19	2.79E-07	0.61516096
-0.100273425	cg23068939	C1orf162	1	0.0005613	0.73798705
-0.100627097	cg23894854	C1orf162;C1:	1	2.57E-07	0.66775354
-0.109020966	cg14658964	C1orf228	1	1.20E-07	0.65508438
-0.117910869	cg20793071	C1orf83;TME	1	8.54E-10	0.54359159
-0.105418626	cg06874172	C1orf92	1	2.23E-06	0.32966976
-0.123929861	cg00076653	C1QTNF7	4	8.86E-06	0.57142242
-0.136654741	cg09695996	C1QTNF8	16	0.00095814	0.50476726
-0.102037573	cg01512084	C21orf2	21	0.0057029	0.69561693
-0.103431898	cg24316255	C21orf2	21	0.00036838	0.50793975
-0.103399491	cg19902195	C21orf67;C2:	21	4.16E-07	0.66834564
-0.100317413	cg06684407	C21orf67;C2:	21	7.04E-08	0.55014286
-0.10844136	cg16071713	C21orf96;RU	21	1.53E-06	0.72168949
-0.100475959	cg05644223	C21orf96;RU	21	0.00065487	0.57386222
-0.125141144	cg04237429	C22orf34	22	1.22E-06	0.58182827
-0.118769935	cg03461851	C2CD4B	15	4.69E-07	0.40154998
-0.140621927	cg15490643	C2orf34	2	0.00106117	0.50573381
-0.114798377	cg17979068	C2orf48	2	2.87E-08	0.73936503
-0.108137474	cg23422170	C2orf48	2	1.47E-12	0.79337851
-0.120731429	cg08692541	C3orf20	3	0.00027105	0.63682858
-0.176802592	cg15912390	C3orf21	3	0.00015877	0.45888915

-0.110204516	cg23528247	C3orf26;FILIF	3	5.56E-11	0.62936566
-0.192775809	cg04246167	C3orf67	3	0.00214848	0.54520667
-0.142001443	cg09373597	C3orf72	3	0.00037663	0.68526219
-0.107312234	cg24851181	C3orf72	3	1.49E-05	0.45282258
-0.13219391	cg04301614	C4orf19;C4o	4	5.94E-07	0.8290108
-0.117856625	cg01170196	C4orf31	4	9.11E-14	0.63782104
-0.134850771	cg13784474	C4orf44;C4o	4	0.00036019	0.75612773
-0.12680405	cg15841665	C4orf50	4	0.00135941	0.7775391
-0.122881841	cg06358671	C4orf50	4	1.62E-06	0.50363575
-0.109791325	cg08651538	C5orf13;C5o	5	5.69E-06	0.58770222
-0.126252419	cg04122815	C5orf39	5	0.02373028	0.44766028
-0.14948055	cg04159302	C5orf62	5	3.90E-06	0.53064882
-0.121887516	cg17039645	C6orf10	6	4.72E-06	0.73978765
-0.163984489	cg03626892	C6orf176	6	0.00273682	0.55698894
-0.104577704	cg19274606	C6orf223	6	5.82E-08	0.35147726
-0.155387625	cg10009497	C7orf50;C7o	7	0.00559138	0.81654454
-0.145564166	cg09526129	C7orf50;C7o	7	0.00056637	0.84614369
-0.12103276	cg07538944	C7orf50;C7o	7	5.76E-05	0.66116689
-0.102319131	cg18315380	C7orf50;C7o	7	0.00040526	0.64752851
-0.106024381	cg19276186	C8orf12	8	8.90E-05	0.65538889
-0.172153216	cg00420997	C8orf75	8	4.19E-07	0.64890888
-0.152402631	cg13941801	C9orf130	9	0.00057188	0.55160587
-0.248497263	cg06948222	CA5A	16	0.0002081	0.55929093
-0.197916628	cg04874511	CAB39L;CAB3	13	0.00020059	0.71929078
-0.196171671	cg02468320	CACNA1C;CA	12	0.03895887	0.61908139
-0.120947611	cg23475725	CACNA1C;CA	12	0.00021792	0.4433581
-0.1111090264	cg10516516	CACNA2D3	3	5.57E-08	0.58742771
-0.110045253	cg12289251	CACNB2;CAC	10	7.86E-06	0.57053876
-0.112083351	cg20697044	CACNG4	17	5.49E-06	0.44596646
-0.10561023	cg14201467	CADM1;CADM	11	0.00504006	0.72382394
-0.123241379	cg03505501	CADM1;CADM	11	0.00260025	0.77542267
-0.130619404	cg03472610	CADM2;CADM	3	4.62E-08	0.78050291
-0.121936211	cg26378073	CALHM1	10	0.00013147	0.76214287
-0.156201083	cg09958065	CAMK1D;CAI	10	0.0094561	0.58579041
-0.11205474	cg14160433	CAMSAP1	9	6.21E-07	0.59630966
-0.233864608	cg09889997	CAMTA1	1	1.65E-13	0.82750607
-0.160286255	cg12097989	CAMTA1	1	8.06E-13	0.71237557
-0.138750542	cg03762572	CAMTA1	1	1.37E-11	0.64996988
-0.109603454	cg06800235	CAMTA1	1	3.57E-16	0.75272263
-0.115289889	cg27090078	CAPG	2	3.65E-05	0.66589288
-0.343151839	cg04652208	CAPN8	1	0.00669996	0.6417589
-0.251826946	cg13545089	CAPS;CAPS	19	1.28E-06	0.66100369
-0.180982625	cg00876266	CAPS;CAPS	19	5.63E-10	0.73945855
-0.180367776	cg27202779	CARD11	7	1.06E-07	0.7690589
-0.108765146	cg17643624	CARKD	13	1.77E-10	0.52899529
-0.245899208	cg02922734	CARKD	13	1.17E-09	0.78215315

-0.17959994	cg01016030	CASZ1;CASZ1	1	1.43E-08	0.64854498
-0.103428689	cg13330050	CCDC112;CCI	5	9.49E-06	0.62896457
-0.114627141	cg10194602	CCDC40	17	0.00211828	0.61663097
-0.148294228	cg20348765	CCDC85A	2	0.00082334	0.54296064
-0.131952475	cg27621997	CCDC86	11	4.89E-08	0.5307995
-0.107625844	cg13359689	CCDC88A;CC	2	1.25E-12	0.44073768
-0.250783059	cg05233289	CCDC88B	11	5.31E-07	0.52253599
-0.13073921	cg15175716	CCDC88B	11	2.31E-10	0.52859981
-0.116759237	cg22663489	CCDC88B;CCI	11	3.95E-07	0.7408955
-0.106624232	cg14916288	CCL23;CCL23	17	0.00026144	0.66515491
-0.112259546	cg11584277	CCL23;CCL23	17	2.00E-07	0.28269308
-0.209138449	cg12594237	CCND2	12	1.90E-06	0.86132085
-0.105253627	cg27317813	CCND2	12	2.85E-08	0.73492274
-0.182141632	cg09799980	CCND2	12	2.91E-08	0.67434473
-0.107227614	cg00417288	CCND2	12	7.00E-07	0.82574323
-0.122077274	cg14834893	CCND2	12	3.16E-12	0.44007347
-0.101731209	cg02021919	CCNH	5	0.00023699	0.5042509
-0.23783398	cg04110105	CCR2;CCR2;C	3	0.00034667	0.64835387
-0.191062056	cg07513332	CCR6	6	2.04E-07	0.66301302
-0.178013974	cg19688584	CCR6	6	4.22E-07	0.52315177
-0.139013578	cg01606773	CD109;CD109	6	0.00089843	0.59361021
-0.189712417	cg08614201	CD160	1	0.00021027	0.74778691
-0.156769668	cg19355763	CD1A	1	7.83E-07	0.83016304
-0.153986654	cg04332373	CD38	4	0.00034035	0.61620808
-0.118192141	cg05200628	CD48	1	0.00364007	0.66127913
-0.153182035	cg10180415	CD58;CD58	1	0.00417973	0.53629301
-0.105649501	cg26427109	CD6	11	0.0004534	0.84304677
-0.121760785	cg08792703	CD6	11	1.01E-15	0.74193203
-0.164541424	cg19966212	CD74;CD74;C	5	2.21E-08	0.29078652
-0.104892289	cg08355301	CD79B;CD79	17	3.16E-05	0.81956587
-0.139041809	cg21454485	CD84	1	2.79E-06	0.48433907
-0.167241081	cg14276584	CDC14B;CDC	9	0.00018958	0.67330958
-0.143398088	cg08080195	CDC42EP3	2	0.00654368	0.55556754
-0.121016277	cg05236720	CDC42EP3	2	0.00165117	0.57554678
-0.105337582	cg15703377	CDC42EP4	17	1.73E-05	0.79906782
-0.123597363	cg16696923	CDH17	8	5.30E-06	0.62751794
-0.103653369	cg03845852	CDH18;CDH1	5	5.11E-06	0.68173028
-0.119558717	cg07975680	CDH23;CDH2	10	3.64E-05	0.47176199
-0.156120313	cg19615295	CDH26;CDH2	20	0.00193522	0.45697079
-0.126304766	cg05086443	CDH5	16	1.29E-06	0.65196163
-0.135623181	cg11468993	CDSN;PSORS	6	0.00041102	0.53105262
-0.100201271	cg04148753	CDYL;CDYL;C	6	4.17E-08	0.70433526
-0.127781277	cg03187073	CDYL;CDYL;C	6	3.55E-08	0.6221584
-0.224944721	cg27307183	CDYL;CDYL;C	6	1.62E-12	0.57151125
-0.12091593	cg07599389	CDYL;CDYL;C	6	4.69E-09	0.31208732
-0.132634841	cg00511167	CEP63;CEP63	3	3.55E-05	0.75834788

-0.145137158	cg01446692	CER1	9	2.32E-07	0.65502561
-0.106268419	cg05922384	CFH	1	5.20E-10	0.86914432
-0.100530771	cg15084803	CHCHD4;CHC	3	5.16E-13	0.73857565
-0.104256195	cg07373212	CHCHD6	3	2.07E-07	0.6002299
-0.11729973	cg15672498	CHD5	1	3.73E-05	0.28912145
-0.102704887	cg01186595	CHORDC1;CH	11	2.11E-11	0.72648036
-0.108742346	cg01796225	CHORDC1;CH	11	1.45E-11	0.56366714
-0.146161794	cg10276834	CHRM2;CHRI	7	8.29E-13	0.63778021
-0.14254898	cg11117177	CHST11	12	0.00086293	0.54954122
-0.100854529	cg09237846	CHST11	12	2.63E-06	0.65077411
-0.1614763	cg06930722	CHST11	12	9.11E-06	0.63787875
-0.136394082	cg14496909	CHSY1	15	4.31E-05	0.72089206
-0.115025264	cg11684450	CIRBP;CIRBP;	19	0.00240137	0.73393774
-0.142786438	cg24809529	CLDN15	7	6.82E-06	0.28007412
-0.171385604	cg00027155	CLEC16A	16	0.01653968	0.71500625
-0.13342358	cg04952324	CLIP2;CLIP2	7	5.57E-08	0.76923152
-0.112359193	cg02330500	CLMN	14	0.0048366	0.50337087
-0.103541002	cg13717541	CLMN	14	2.32E-08	0.78531218
-0.102358063	cg03516335	CLPB	11	5.13E-09	0.56979694
-0.144481201	cg24721964	CLRN1;CLRN:	3	7.83E-10	0.47907016
-0.105754425	cg06627532	CMIP	16	2.34E-06	0.53723614
-0.218170546	cg09685472	CMIP	16	1.05E-10	0.51985222
-0.177094464	cg07285481	CMIP;CMIP	16	5.54E-07	0.36978544
-0.144919831	cg09742346	CMIP;CMIP	16	7.78E-08	0.78436405
-0.206781136	cg01425762	CMIP;CMIP	16	1.60E-07	0.28720629
-0.111780606	cg08766256	CMIP;CMIP	16	2.48E-07	0.44143522
-0.111831977	cg27133780	CMTM7;CMT	3	1.76E-05	0.71079231
-0.195138637	cg11207515	CNTNAP2	7	3.65E-05	0.34511961
-0.19330296	cg02673107	COL11A2;CO	6	3.50E-09	0.59569508
-0.178333069	cg20631997	COL11A2;CO	6	6.95E-06	0.33425051
-0.140090242	cg01212562	COL18A1	21	1.80E-10	0.68360071
-0.12000019	cg16942644	COL18A1	21	1.79E-08	0.64160209
-0.112949959	cg11113589	COL18A1;CO	21	0.00133556	0.5632348
-0.110930095	cg22978940	COL18A1;CO	21	1.21E-05	0.76552069
-0.128145302	cg11043002	COL23A1	5	2.98E-07	0.52924146
-0.148341302	cg03842822	COL23A1	5	1.56E-08	0.63534421
-0.181819344	cg01561304	COL23A1	5	1.77E-12	0.41772494
-0.105101579	cg25153741	COL23A1	5	7.40E-19	0.64240331
-0.130970689	cg16872841	COL4A2	13	1.30E-06	0.65307377
-0.132070959	cg00765737	COL4A2	13	2.04E-07	0.60047193
-0.132436847	cg12665414	CPEB4	5	0.00012735	0.56957506
-0.108850396	cg09715009	CPLX2	5	1.48E-07	0.49060476
-0.103396285	cg23756264	CPT1A;CPT1A	11	0.00139939	0.77755952
-0.106572434	cg23100692	CPZ;CPZ;CPZ	4	8.46E-12	0.73407982
-0.155405591	cg20315150	CREB5;CREB5	7	1.74E-08	0.72130544
-0.147045982	cg09930712	CREB5;CREB5	7	4.61E-05	0.33464008

-0.134487258	cg13995399	CREB5;CREB5	7	7.19E-09	0.42400789
-0.119898332	cg21159940	CREB5;CREB5	7	5.21E-07	0.51363093
-0.119748632	cg17679427	CREM;CREM	10	0.0004438	0.47510528
-0.10865242	cg16545105	CRHBP;CRHB	5	1.11E-05	0.58761139
-0.100157879	cg05588903	CRISPLD2	16	8.60E-07	0.77842563
-0.114339741	cg02069721	CRISPLD2	16	0.0001416	0.39214694
-0.196701551	cg09967633	CRISPLD2	16	5.88E-10	0.7424882
-0.2443669	cg07015183	CRTC1;CRTC1	19	1.03E-06	0.76081438
-0.101341068	cg01129958	CSGALNACT1	8	4.24E-05	0.63969159
-0.108870064	cg10085474	CTBP1;CTBP1	4	5.02E-05	0.60392318
-0.119323428	cg18499250	CTDSPL;CTDS	3	9.04E-08	0.57398367
-0.165258926	cg13753435	CTNNA2;CTN	2	2.07E-05	0.42254259
-0.110419456	cg27004195	CTNNA2;CTN	2	2.23E-06	0.49064918
-0.132567444	cg04141648	CTNNA3	10	3.35E-14	0.80171101
-0.132680591	cg19996026	CTNNA3;CTN	10	1.00E-06	0.60676645
-0.10232606	cg24141382	CTPS	1	1.73E-06	0.72080768
-0.169284236	cg18245281	CTSZ	20	0.00074494	0.83809411
-0.129974846	cg14191688	CTTN;CTTN	11	5.41E-06	0.88368854
-0.149118189	cg15465439	CTTN;CTTN	11	8.17E-05	0.76337501
-0.145357938	cg08914150	CTTN;CTTN	11	1.16E-11	0.87992262
-0.120792611	cg02011981	CTTN;CTTN	11	1.08E-16	0.88498066
-0.127841208	cg22720428	CTTN;CTTN	11	6.44E-17	0.77281015
-0.127088214	cg12756527	CUGBP2;CUC	10	6.43E-12	0.47143503
-0.122835037	cg25042258	CUL1	7	5.43E-09	0.45835445
-0.192530277	cg12349350	CUX1;CUX1;(	7	0.0081975	0.55129763
-0.149047254	cg07266412	CUX1;CUX1;(	7	0.00289173	0.51415143
-0.13412289	cg14203426	CUX1;CUX1;(	7	1.53E-06	0.63057277
-0.218643828	cg18483404	CUZD1	10	4.95E-13	0.61343941
-0.164863884	cg01555705	CX3CL1	16	9.72E-11	0.52672816
-0.179210017	cg14622819	CXCL10;ARTE	4	3.22E-06	0.42077397
-0.108273359	cg01288089	CXCL10;ARTE	4	4.29E-05	0.32514631
-0.128870897	cg22122808	CYB561;CYB5	17	2.87E-05	0.63481222
-0.139601816	cg23378365	CYFIP2;CYFIP	5	3.67E-06	0.40936336
-0.1304573	cg08289350	CYGB	17	6.64E-05	0.4248795
-0.15885123	cg17347634	CYP7B1	8	1.60E-05	0.46045809
-0.133257287	cg24921319	CYTH3	7	9.28E-10	0.77214876
-0.183778507	cg07026918	DAB1	1	5.62E-05	0.4783302
-0.101808141	cg08465708	DAB1	1	1.28E-06	0.78100533
-0.206222704	cg15602972	DACT3	19	0.00243815	0.68071377
-0.168951819	cg24754277	DAPK1	9	1.58E-05	0.43218504
-0.184235051	cg13752933	DAPK1	9	7.21E-10	0.48780578
-0.147378693	cg21244322	DAPK2	15	0.02837318	0.74545865
-0.151789051	cg17450733	DBX2	12	8.30E-08	0.3159356
-0.110690939	cg18729001	DBX2	12	1.90E-07	0.48177986
-0.107519612	cg14943002	DDB2	11	4.53E-11	0.58364142
-0.112462184	cg02872426	DDO;DDO	6	0.00015878	0.49741677

-0.138790014	cg10546888	DDX17;DDX1	22	1.09E-06	0.61322463
-0.106750645	cg09375756	DEAF1	11	0.00041301	0.64306697
-0.105099916	cg11721464	DEDD2	19	0.00530012	0.75119185
-0.142616219	cg14189583	DEDD2	19	0.00112372	0.62413996
-0.103926251	cg05254143	DENND1A	9	6.01E-11	0.752912
-0.126894617	cg00619207	DENND2D	1	1.06E-06	0.74340889
-0.119720227	cg24641737	DENND2D;DI	1	5.05E-08	0.64721658
-0.114495193	cg13636371	DFNB31;DFN	9	0.0050994	0.75200931
-0.120655566	cg00029246	DGKI	7	4.04E-05	0.77247503
-0.126742123	cg10059056	DGKZ	11	6.85E-06	0.64729953
-0.12754506	cg03519157	DGKZ;DGKZ;I	11	1.59E-06	0.60055237
-0.112625549	cg04300065	DIO3OS	14	8.65E-05	0.41563764
-0.204270288	cg20065520	DIO3OS	14	2.08E-09	0.7097849
-0.200622095	cg04806237	DIP2C	10	6.84E-05	0.89617516
-0.183215388	cg13387972	DIP2C	10	3.45E-08	0.71004693
-0.182467144	cg10494981	DIP2C	10	2.01E-07	0.87406479
-0.146488459	cg04720116	DIP2C	10	0.00336225	0.70542496
-0.121043255	cg13775636	DIP2C	10	6.07E-05	0.73111606
-0.120809427	cg08079763	DIP2C	10	0.0006122	0.4729191
-0.15838652	cg10441401	DIP2C	10	7.36E-08	0.4820634
-0.135317039	cg17333886	DIP2C	10	1.18E-11	0.68302665
-0.125098472	cg25787984	DKK3;DKK3;I	11	5.71E-08	0.38904731
-0.117451631	cg16749785	DLC1;DLC1;D	8	0.00356356	0.70690997
-0.12096688	cg20607577	DLC1;DLC1;D	8	0.00264607	0.63753279
-0.15263632	cg20733077	DLEU2	13	9.39E-06	0.69254194
-0.128935208	cg01404873	DLEU2	13	6.28E-07	0.69570908
-0.230099331	cg07422669	DLGAP2	8	0.00018576	0.70397363
-0.170710701	cg27351978	DLGAP2	8	4.09E-05	0.40789448
-0.207190158	cg09359114	DLX5	7	0.00028049	0.73640684
-0.142847459	cg20250426	DLX5	7	8.58E-05	0.84143798
-0.126476599	cg00400832	DLX5	7	3.87E-05	0.69351802
-0.220450464	cg08101303	DLX5	7	6.07E-05	0.39297538
-0.11653019	cg20377305	DLX5	7	1.56E-09	0.62775042
-0.127255498	cg00503840	DLX5	7	0.00027972	0.50669837
-0.108013907	cg13462129	DLX5	7	1.51E-05	0.50663199
-0.103890573	cg13286614	DLX5	7	6.95E-07	0.83181378
-0.118123924	cg12041387	DLX5	7	0.00034369	0.70307476
-0.159733413	cg15339231	DLX5	7	5.89E-07	0.44715435
-0.101183415	cg27016494	DLX5	7	0.00276603	0.7168885
-0.113781815	cg18873386	DLX5	7	0.00057108	0.65718557
-0.177133393	cg05597836	DLX5	7	8.69E-09	0.83883059
-0.124204478	cg08835113	DLX5	7	2.70E-06	0.63676251
-0.14668238	cg20080624	DLX5	7	0.00013411	0.69882119
-0.122552539	cg15732768	DLX5	7	0.00011265	0.54180655
-0.113025564	cg26075150	DLX6AS	7	7.30E-05	0.89317528
-0.106452547	cg13019143	DLX6AS	7	8.09E-06	0.34048971

-0.106307196	cg01759597	DLX6AS	7	6.76E-07	0.37244509
-0.118920747	cg20109856	DLX6AS	7	6.69E-05	0.78831308
-0.16435244	cg04832767	DLX6AS	7	3.29E-06	0.28434436
-0.120395438	cg25930591	DLX6AS	7	3.27E-06	0.33720865
-0.171827403	cg00774005	DLX6AS	7	0.00092223	0.73565698
-0.162336115	cg25430192	DLX6AS	7	5.20E-06	0.66716068
-0.130776098	cg15199678	DLX6AS	7	1.83E-06	0.34412409
-0.113966795	cg16961816	DLX6AS	7	1.49E-07	0.69684233
-0.101073114	cg25678088	DLX6AS	7	3.47E-06	0.42502509
-0.119653447	cg10690003	DLX6AS	7	1.03E-06	0.71207152
-0.118549449	cg00337916	DLX6AS	7	4.92E-06	0.74795045
-0.132523209	cg26033466	DLX6AS	7	0.00016332	0.47792659
-0.145604964	cg04088697	DLX6AS	7	5.78E-08	0.36562195
-0.134243926	cg10205928	DLX6AS	7	4.48E-07	0.49539266
-0.143942961	cg07788369	DLX6AS	7	9.83E-09	0.44545497
-0.127909222	cg18502142	DLX6AS	7	2.23E-09	0.77948214
-0.107857964	cg25707676	DLX6AS	7	5.26E-06	0.58226161
-0.122352851	cg02530022	DLX6AS	7	1.26E-06	0.38624863
-0.148053065	cg11113469	DLX6AS	7	1.01E-07	0.71603547
-0.203545698	cg10659805	DLX6AS	7	3.99E-10	0.76558448
-0.105277528	cg23767994	DLX6AS	7	5.60E-07	0.65873878
-0.259463761	cg26251506	DLX6AS	7	9.20E-07	0.56374008
-0.132458335	cg21545390	DLX6AS	7	6.39E-07	0.4770258
-0.144013159	cg09803262	DLX6AS	7	3.70E-07	0.63809713
-0.127723264	cg19722748	DLX6AS	7	2.13E-07	0.54868645
-0.205188837	cg22616881	DLX6AS	7	5.71E-07	0.56847434
-0.100044141	cg12055395	DLX6AS	7	8.26E-07	0.68179199
-0.114191333	cg26668276	DLX6AS	7	1.85E-06	0.56154762
-0.116303514	cg11070059	DLX6AS	7	8.76E-08	0.5823514
-0.101981122	cg08598654	DLX6AS	7	8.85E-07	0.59986243
-0.108689836	cg13799941	DLX6AS	7	2.16E-10	0.672978
-0.144305831	cg16758800	DLX6AS	7	1.31E-09	0.76746538
-0.12004358	cg21945930	DLX6AS	7	1.15E-06	0.67617494
-0.113731814	cg22505086	DLX6AS;DLX6AS	7	5.04E-07	0.71288554
-0.241429128	cg08745288	DLX6AS;DLX6AS	7	0.00173484	0.75053572
-0.134178724	cg16243019	DLX6AS;DLX6AS	7	1.90E-07	0.66474506
-0.175206562	cg03774463	DLX6AS;DLX6AS	7	5.63E-09	0.69165931
-0.223808795	cg13946956	DMRT1	9	3.16E-06	0.67845124
-0.102279026	cg13863701	DMRT2;DMR	9	6.11E-06	0.83197231
-0.145242525	cg00290086	DMRT2;DMR	9	2.23E-05	0.7297692
-0.129617377	cg00934355	DMRT2;DMR	9	5.11E-13	0.55796499
-0.127038244	cg14067101	DMRT3	9	2.37E-05	0.41623506
-0.127905715	cg26489108	DMRT3	9	3.45E-05	0.46909907
-0.117432819	cg25507226	DNAJB6	7	9.92E-05	0.46193374
-0.161762095	cg10161638	DNAJB6	7	3.19E-05	0.54396008
-0.223423399	cg14297444	DNM1;DNM1	9	0.00159067	0.50210553

-0.109623986	cg17742416	DNMT3A;DN	2	2.97E-05	0.46417641
-0.105346465	cg26544247	DNMT3A;DN	2	0.00018102	0.5447124
-0.119926797	cg13444670	DNTT;DNTT	10	0.00044918	0.64343622
-0.212233599	cg03752935	DOCK1	10	0.01028362	0.72304412
-0.136688978	cg26717418	DOCK1	10	3.97E-14	0.71570912
-0.148879595	cg00255726	DOK2	8	0.00038648	0.84638878
-0.132212774	cg04065210	DPY19L1	7	1.52E-09	0.57159186
-0.131680365	cg00576650	DSCAM	21	6.74E-08	0.80905933
-0.196767835	cg19869037	DSE;DSE	6	0.00027699	0.3098363
-0.114599061	cg05789595	DST;DST;DST	6	6.62E-05	0.33427177
-0.103763743	cg07151117	DUSP4;DUSP	8	8.94E-05	0.74592224
-0.124874743	cg09172244	EBF1	5	6.86E-06	0.59995747
-0.199679241	cg27417526	EBF3	10	0.00018407	0.74501002
-0.103502286	cg19074393	EBF3	10	3.11E-05	0.54052924
-0.170405974	cg09096787	EBF3	10	0.00013403	0.44430921
-0.144363059	cg02584267	EBF3	10	8.77E-08	0.59283396
-0.236666203	cg00459904	EBF3	10	1.44E-08	0.47234555
-0.134829855	cg24553417	EBPL	13	6.02E-07	0.81673721
-0.160065098	cg21221557	EDIL3	5	5.63E-05	0.77188233
-0.154978227	cg21875980	EGLN1	1	4.48E-09	0.62942986
-0.100894987	cg07202353	EHD4	15	0.00202628	0.53987096
-0.117421359	cg10142436	EHD4	15	4.85E-08	0.33058334
-0.155212443	cg04614155	EHD4	15	3.54E-08	0.45285032
-0.108293604	cg18440839	EIF2C2;EIF2C	8	2.55E-05	0.84742424
-0.124224646	cg00288598	EIF2C2;EIF2C	8	0.0015877	0.56353483
-0.136649136	cg09976893	EIF3H	8	1.98E-09	0.82306017
-0.137848057	cg21301240	EIF3H	8	1.51E-05	0.74997168
-0.107489807	cg26561681	EIF4G3	1	0.00070065	0.65355381
-0.102459337	cg18429196	EIF4H;EIF4H	7	1.70E-06	0.59501623
-0.153997277	cg13353389	EIF4H;EIF4H	7	6.68E-11	0.30928033
-0.140743924	cg07213289	EIF4H;EIF4H	7	2.15E-12	0.41862255
-0.117732546	cg08044454	ELMO1;ELMO	7	5.14E-05	0.60172392
-0.139983194	cg15552238	EMR3	19	2.89E-10	0.71744708
-0.160533472	cg13973985	EMR3;EMR3	19	2.37E-05	0.72153351
-0.130175202	cg19925204	EMX2;EMX2	10	0.00077028	0.50672509
-0.138061604	cg17320707	EMX2;EMX2	10	1.49E-05	0.44065817
-0.117116809	cg16234557	EMX2OS	10	0.00013595	0.35506797
-0.10176458	cg17167253	EN1	2	1.66E-07	0.28248878
-0.122555803	cg14274989	EN1	2	2.66E-08	0.27223455
-0.124072293	cg04034583	EN1	2	9.03E-12	0.54569345
-0.107002169	cg03883295	EN1	2	1.41E-07	0.36948879
-0.101667026	cg12305200	EN1	2	8.28E-11	0.31484029
-0.147605641	cg26990102	EN1	2	3.99E-08	0.25158359
-0.131374022	cg01165776	EN1	2	2.39E-07	0.39593242
-0.155152614	cg22007486	EN1	2	7.85E-08	0.4283243
-0.107782595	cg16794506	EN1	2	1.93E-11	0.38227718

-0.127489624	cg02739346	EN1	2	4.15E-15	0.39496782
-0.210495813	cg15724256	EN1	2	9.70E-17	0.50091632
-0.220442258	cg13305444	ENAH;ENAH	1	0.00127083	0.35190417
-0.154967124	cg00049892	ENPP1	6	5.87E-06	0.66158473
-0.108560554	cg19270309	ENPP7	17	5.84E-05	0.46013402
-0.40117192	cg06458086	EPB41L2;EPB	6	1.61E-08	0.49903769
-0.103338642	cg26392737	EPB49;EPB49	8	3.76E-09	0.25237869
-0.150095294	cg16678564	EPB49;EPB49	8	8.99E-09	0.63844107
-0.143183488	cg27214730	EPHB3	3	9.40E-09	0.80039802
-0.13154779	cg18990407	EPHB3	3	1.75E-07	0.7321414
-0.109296153	cg15334250	EPHB3	3	2.45E-08	0.63473207
-0.114500103	cg10378735	EPHB6	7	9.78E-10	0.72328188
-0.218650573	cg16597993	EPS15L1	19	2.10E-05	0.39625111
-0.182041302	cg11414610	EPS15L1	19	0.00278588	0.61827356
-0.162486975	cg26435149	ERC2	3	5.04E-06	0.59406984
-0.122619328	cg05070265	ERC2	3	8.80E-06	0.57583893
-0.11370963	cg18220666	EREG	4	2.16E-05	0.6974142
-0.112786711	cg00768179	ERRFI1	1	0.0012941	0.57222129
-0.102597541	cg04118119	ESD	13	0.00025947	0.59279491
-0.176779692	cg22157087	ESR1	6	6.83E-06	0.35522222
-0.156048309	cg09826050	ESRRG	1	4.12E-05	0.38646851
-0.10597329	cg05212892	ESYT2	7	0.00726971	0.53983574
-0.101290115	cg06390643	ETV5	3	0.00076208	0.65318419
-0.125239962	cg18763536	ETV6	12	9.95E-07	0.5318659
-0.151596753	cg14830166	ETV6	12	7.61E-09	0.6327837
-0.149190468	cg13013841	EVPLL	17	0.00015833	0.68975925
-0.118503178	cg09071155	EVX1	7	3.39E-05	0.41536874
-0.110194204	cg13942186	EXD3	9	2.65E-06	0.44415644
-0.117445599	cg19431495	EXOC3	5	2.74E-05	0.61986745
-0.217896078	cg22747380	EXT1	8	0.00247457	0.45622569
-0.156797671	cg07551677	EXTL3	8	1.23E-06	0.85237675
-0.122191661	cg14866547	EYA4;EYA4;E	6	3.10E-07	0.75661273
-0.10363039	cg26827458	FAF2	5	1.87E-06	0.76496606
-0.104711938	cg12803754	FAM105B	5	7.33E-07	0.76970273
-0.196811317	cg06381463	FAM125B;FA	9	0.00428247	0.67364413
-0.107798813	cg12463883	FAM155A	13	2.97E-08	0.28989805
-0.102231349	cg15683970	FAM165B	21	0.00244593	0.84609489
-0.109084985	cg16720807	FAM176A;FA	2	1.26E-08	0.90230275
-0.104119199	cg02630819	FAM178B	2	8.35E-10	0.44461325
-0.100247731	cg24657419	FAM184A;FA	6	2.02E-06	0.75271336
-0.132811267	cg02262221	FAM190A	4	2.22E-06	0.34653383
-0.100035803	cg14711869	FAM193A	4	9.24E-15	0.55586059
-0.101654542	cg27640234	FAM20C	7	1.32E-05	0.70196051
-0.107441851	cg21640865	FAM20C	7	7.22E-07	0.6493224
-0.173148678	cg11045746	FAM26F	6	0.00547033	0.69960018
-0.104529176	cg15361215	FAM45B;FAM	10	2.65E-10	0.66635515

-0.112912676	cg07229893	FAM53A	4	0.0017201	0.72198224
-0.100152434	cg07765262	FAM53A	4	1.42E-07	0.74091487
-0.13250593	cg17936488	FAM78A	9	0.00284684	0.86601459
-0.112167872	cg22384356	FAM83A;FAM	8	1.47E-12	0.65165815
-0.106649729	cg15425827	FAM83A;FAM	8	6.33E-12	0.52846486
-0.164642165	cg15217784	FAM83B	6	2.85E-05	0.44062952
-0.179724902	cg06450397	FAS;FAS;FAS;	10	0.01300023	0.68326324
-0.150938074	cg24298860	FAT3	11	9.45E-05	0.83973362
-0.107831371	cg07452842	FAT3	11	1.34E-08	0.87736094
-0.150404049	cg20664313	FBRSL1	12	3.12E-06	0.58443711
-0.130051137	cg07880971	FBRSL1	12	1.31E-07	0.35170123
-0.104631409	cg07050611	FBXW8;FBXV	12	0.00010078	0.65052255
-0.116592979	cg24496021	FCHSD2	11	1.21E-05	0.68596247
-0.12427367	cg13912027	FCHSD2	11	6.34E-05	0.55441044
-0.124836962	cg07206630	FGF1;FGF1;F	5	0.00839679	0.66487921
-0.141580636	cg15986555	FGFR2;FGFR2	10	4.19E-05	0.66680541
-0.17857377	cg02137691	FGFR3;FGFR3	4	0.00058482	0.55789971
-0.104110891	cg08145949	FGFR3;FGFR3	4	0.00145196	0.5272587
-0.112889441	cg14988083	FGFR3;FGFR3	4	0.02819419	0.71440389
-0.102298594	cg03874978	FGFR3;FGFR3	4	0.00014185	0.65856229
-0.101407888	cg14869372	FGFRL1;FGFF	4	0.01343406	0.65134898
-0.10173932	cg19586143	FHOD3	18	0.00158807	0.79571054
-0.128017441	cg01620164	FIGN	2	3.99E-08	0.39192225
-0.274478069	cg13167816	FITM1	14	3.76E-11	0.83067293
-0.224941254	cg10327980	FITM1	14	5.57E-08	0.62392614
-0.185596375	cg20306574	FITM1	14	5.00E-08	0.74780701
-0.183957133	cg03546163	FKBP5;FKBP5	6	0.00113394	0.77557741
-0.17173876	cg24859352	FLJ22536	6	3.33E-05	0.63595314
-0.144956371	cg15541384	FLJ22536	6	0.00070097	0.39414822
-0.136347264	cg00783006	FLJ41350	10	3.30E-07	0.56010629
-0.130764074	cg24579887	FLJ42709;FLJ	5	9.97E-05	0.64433832
-0.117706865	cg06991974	FLJ42875;FLJ	1	0.01691136	0.5723456
-0.114524721	cg07946633	FLJ42875;PRI	1	0.00581788	0.52722644
-0.108312106	cg15928106	FLJ43663;FLJ	7	0.00300209	0.73481755
-0.105715176	cg14761417	FLJ43663;FLJ	7	3.44E-05	0.60139645
-0.155397868	cg19646759	FLVCR2	14	1.21E-13	0.83136018
-0.107123429	cg12495731	FN3K	17	0.00400043	0.69136153
-0.106034717	cg04002794	FNDC3B;FND	3	0.00051146	0.33399668
-0.128645435	cg11637968	FNIP2	4	0.00957827	0.65540626
-0.118372467	cg09562426	FOLR1;FOLR1	11	1.32E-05	0.61347833
-0.136869362	cg01243371	FOXF1	16	0.00058982	0.5480898
-0.110754432	cg06496454	FOXK1	7	1.10E-08	0.88380379
-0.129568645	cg05066096	FOXK1	7	5.11E-05	0.65310434
-0.108556299	cg11931953	FOXK1	7	1.05E-07	0.86391677
-0.114671573	cg05102770	FOXK1	7	4.04E-10	0.85837688
-0.100781682	cg06114605	FOXK1	7	1.81E-12	0.76829092

-0.203120786	cg25330264	FOXK1	7	3.30E-14	0.77506872
-0.166968658	cg01467047	FOXL1	16	5.82E-05	0.74410235
-0.160844901	cg06114987	FOXL1	16	1.13E-07	0.80789901
-0.140094282	cg25509697	FOXL2;C3orf	3	0.00014476	0.67526173
-0.126823857	cg15821562	FOXN3	14	7.14E-06	0.75960588
-0.141024162	cg05053979	FOXN3;FOXN	14	1.66E-06	0.72636557
-0.142068404	cg18546840	FOXP2;FOXP	7	0.00270258	0.39647505
-0.148653854	cg18871253	FOXP2;FOXP	7	0.00027455	0.41383286
-0.122421377	cg24786986	FOXP2;FOXP	7	1.14E-06	0.48036386
-0.119806151	cg17631429	FOXS1	20	0.00510996	0.79700941
-0.100480981	cg06447378	FREM2	13	1.71E-05	0.74834234
-0.158579062	cg05859842	FRMPD2;FRM	10	1.43E-12	0.61041847
-0.147611649	cg19348484	FURIN	15	0.00857697	0.56315709
-0.12769392	cg05374956	FUT6;FUT6;F	19	1.06E-07	0.76510499
-0.122661184	cg12036924	FUT6;FUT6;F	19	1.04E-08	0.71983032
-0.12182309	cg16701258	FUT6;FUT6;F	19	1.28E-13	0.58655744
-0.115259522	cg01913259	GABRA5;GAE	15	3.15E-05	0.56356514
-0.104970713	cg00408567	GALNT10;GA	5	1.04E-05	0.41336736
-0.116264441	cg00772774	GALNT9	12	2.09E-08	0.46451281
-0.174102217	cg21790587	GALNT9	12	7.16E-12	0.66731059
-0.165969336	cg10016608	GAS2L2	17	5.10E-10	0.40671744
-0.157114728	cg12229387	GAST	17	0.00122947	0.50809678
-0.150801909	cg07195926	GATA2;GATA	3	8.87E-05	0.73514021
-0.13108191	cg01102073	GATA2;GATA	3	0.00022457	0.5828944
-0.124853539	cg06796779	GATA2;GATA	3	7.83E-07	0.66275118
-0.11730334	cg07263393	GATA2;GATA	3	0.00025073	0.49288096
-0.125491356	cg04492228	GATA3;GATA	10	8.11E-07	0.34444592
-0.326252759	cg10163955	GATA3;GATA	10	1.13E-07	0.81744425
-0.296005282	cg10089865	GATA3;GATA	10	4.90E-06	0.78880914
-0.268823636	cg03669298	GATA3;GATA	10	4.94E-09	0.46765057
-0.264750002	cg22892607	GATA3;GATA	10	8.40E-07	0.47984706
-0.26302357	cg03935183	GATA3;GATA	10	9.33E-07	0.82282032
-0.256264939	cg17830204	GATS;GATS;C	7	6.48E-11	0.84396243
-0.243039472	cg06510261	GCET2;GCET	3	1.90E-07	0.31231817
-0.240416161	cg25462303	GCET2;GCET	3	2.82E-11	0.62411568
-0.222065804	cg08062713	GDF5	20	4.94E-05	0.85094382
-0.219676432	cg27141850	GDF7	2	0.00023713	0.78137695
-0.20356702	cg09169739	GFPT2	5	3.13E-08	0.63391333
-0.201179925	cg26338723	GFRA1;GFRA	10	1.76E-07	0.61737563
-0.194745743	cg22123459	GGT1;GGT1;(	22	3.61E-08	0.43583421
-0.191826941	cg07223253	GIMAP8;GIM	7	1.18E-05	0.51003269
-0.17439178	cg17337670	GIT2;GIT2;GI	12	1.14E-07	0.73954748
-0.17438594	cg02774705	GLI2	2	0.0001387	0.70723587
-0.170244244	cg00842259	GLI3	7	0.0002081	0.60832328
-0.163429696	cg11306767	GLRX;GLRX	5	2.45E-05	0.51732244
-0.151889807	cg16762849	GMDS	6	0.00205249	0.50900748

-0.144624422	cg05308829	GNA12	7	2.19E-06	0.8354668
-0.139522315	cg12444411	GNA12	7	0.00427171	0.48024147
-0.132962304	cg01492538	GNA12	7	1.05E-10	0.44076218
-0.123015648	cg23285459	GNA12	7	0.00182452	0.47985389
-0.119372896	cg11967765	GNA12	7	0.00044704	0.76659561
-0.113598748	cg21143896	GNA12	7	0.00631045	0.55953938
-0.108306295	cg26912314	GNAO1;GNA	16	8.76E-05	0.41454348
-0.101970843	cg01286319	GNG7	19	6.07E-05	0.59301571
-0.296985109	cg16078863	GOLGA3	12	0.00732582	0.33928366
-0.281481895	cg06804344	GP9	3	2.20E-05	0.63039412
-0.27794778	cg00545232	GPC6	13	0.00015363	0.41809431
-0.175530745	cg15318697	GPD1L	3	0.0012501	0.51817291
-0.213065753	cg06976482	GPR123	10	1.19E-05	0.4348879
-0.129901854	cg03906820	GPR123	10	1.03E-10	0.75635569
-0.314613858	cg01109135	GPR132	14	1.28E-09	0.45809147
-0.19027825	cg05361273	GPR17;LIMS2	2	2.42E-08	0.47542133
-0.24472747	cg17095652	GPR176	15	4.93E-05	0.49820202
-0.154185555	cg20814312	GPR39	2	1.06E-06	0.42181069
-0.104271326	cg06543615	GPR39;LYPD1	2	2.23E-08	0.49937513
-0.132280238	cg00519299	GPR44	11	9.91E-05	0.50086393
-0.121564262	cg13077745	GPR44	11	3.61E-10	0.46859372
-0.114597434	cg26643476	GPR81	12	6.87E-05	0.42278047
-0.103622733	cg14555265	GPSM1;GPSM	9	5.82E-11	0.80118347
-0.100764006	cg13247967	GRAMD1B	11	4.93E-05	0.65636259
-0.173208555	cg13333800	GRAMD3	5	0.00086837	0.55427881
-0.129868866	cg07316730	GRB2;GRB2	17	3.03E-10	0.55181771
-0.117753513	cg21273275	GRHL3;GRHL	1	1.08E-05	0.44127922
-0.111111941	cg02063520	GRIK2;GRIK2	6	2.06E-05	0.4544632
-0.112342104	cg05666036	GRIK2;GRIK2	6	1.81E-05	0.45102523
-0.176261412	cg10961484	GRIK4	11	3.25E-05	0.73132035
-0.129414727	cg04740679	GRTP1	13	0.0026261	0.74655009
-0.115190229	cg05279772	GRXCR1	4	8.42E-09	0.84043745
-0.103188928	cg06866686	GSC	14	1.10E-09	0.24974464
-0.101101495	cg18687675	GSC	14	4.28E-09	0.32336616
-0.118048739	cg10771489	GSC	14	6.98E-13	0.25311844
-0.106985681	cg23695707	GSC	14	4.80E-09	0.28414262
-0.123415396	cg13073773	GSC	14	2.11E-12	0.59777959
-0.166704699	cg15440688	GSC	14	2.44E-15	0.75145518
-0.171537473	cg01695643	GSC	14	1.86E-20	0.87314894
-0.111024866	cg23074992	GSC	14	4.25E-20	0.83492588
-0.121367114	cg27372015	GTF3C1	16	0.00086727	0.43093534
-0.100276706	cg20911180	GUCY2E	11	0.00321164	0.75204483
-0.11524673	cg19202813	GULP1	2	0.00183322	0.65516927
-0.115514325	cg13431800	GXYLT1;GXYL	12	2.85E-12	0.46556031
-0.11121377	cg22491680	HAL	12	7.82E-05	0.89004101
-0.153105354	cg24974365	HAND2	4	1.26E-08	0.27175018

-0.106128599	cg05155840	HAND2	4	9.69E-10	0.32291202
-0.108030174	cg08297751	HAND2	4	1.04E-15	0.57905791
-0.233456849	cg10933003	HAND2	4	6.01E-10	0.54494831
-0.153843415	cg01967399	HAND2	4	2.08E-17	0.73978654
-0.12227691	cg27218796	HAND2	4	8.35E-16	0.74498271
-0.108210152	cg01566965	HAND2	4	2.97E-18	0.75615046
-0.107705562	cg22006672	HAPLN1	5	6.76E-09	0.71500447
-0.251634343	cg21915449	HAVCR1;HAV	5	4.59E-12	0.58696683
-0.125606154	cg26892308	HCCA2	11	1.32E-07	0.59696029
-0.16002859	cg22979615	HCCA2	11	6.97E-08	0.76517278
-0.138911842	cg07635249	HCCA2	11	9.54E-09	0.49741519
-0.124802237	cg24803059	HCCA2	11	2.91E-10	0.83945159
-0.110093246	cg25050723	HCCA2;CTSD	11	0.00048408	0.51494494
-0.107890264	cg02167021	HCLS1	3	1.83E-07	0.42155695
-0.164257067	cg06577710	HCLS1;HCLS1	3	7.76E-06	0.6269189
-0.1099133	cg14979674	HCN1	5	1.87E-05	0.68340776
-0.102989146	cg16348668	HDAC4	2	0.04028714	0.57313178
-0.183354469	cg24360993	HDC	15	3.50E-06	0.6267046
-0.102403438	cg18008247	HEG1	3	1.74E-07	0.74491919
-0.111724627	cg03440673	HEG1	3	1.93E-08	0.38282182
-0.146973809	cg20695534	HHAT;HHAT;	1	6.81E-06	0.50746734
-0.116998634	cg16395183	HHAT;HHAT;	1	7.26E-09	0.42274816
-0.107241683	cg07616394	HHEX	10	4.40E-05	0.34686609
-0.157547905	cg14689537	HHEX	10	7.66E-05	0.52586424
-0.186372979	cg24787755	HHEX	10	0.00030349	0.71098691
-0.227060899	cg16272084	HIP1	7	3.77E-07	0.60053084
-0.138352062	cg17738521	HIVEP2	6	0.00046541	0.66086094
-0.11909953	cg13423554	HIVEP3;HIVE	1	0.00113711	0.40085343
-0.107477952	cg17098103	HIVEP3;HIVE	1	1.05E-12	0.50257799
-0.137967058	cg23427945	HLA-B	6	0.01069922	0.69957561
-0.119132069	cg05525374	HLA-DMB	6	0.00580361	0.63696326
-0.211549008	cg07623567	HLA-DMB	6	2.20E-08	0.63964048
-0.131528256	cg22797644	HMGA1;HMC	6	5.26E-05	0.74384605
-0.161103456	cg24895871	HOTAIR	12	0.00753861	0.73473343
-0.172829872	cg02371798	HOTAIR	12	3.86E-08	0.38583662
-0.129204611	cg06850442	HOTAIR	12	6.96E-13	0.39529421
-0.104153534	cg12121660	HOXB2	17	6.09E-10	0.31800085
-0.128893614	cg16898193	HOXC10	12	2.03E-10	0.25640028
-0.133569622	cg16295056	HOXC10	12	2.71E-07	0.38764657
-0.143867332	cg20403938	HOXC10	12	6.22E-16	0.54285266
-0.169601468	cg06708937	HOXC11	12	2.23E-09	0.45901193
-0.152244946	cg07697238	HOXC11	12	1.64E-10	0.47441247
-0.100148654	cg08857479	HOXC11	12	5.32E-08	0.58832719
-0.116553749	cg18054172	HOXC4;HOXC	12	3.45E-10	0.68823247
-0.174432163	cg00040312	HOXC4;HOXC	12	1.69E-09	0.76830157
-0.150052722	cg10005224	HOXC4;HOXC	12	4.10E-06	0.45514679

-0.103446917	cg18843682	HOXC4;HOXC	12	7.29E-07	0.52452775
-0.240837357	cg21041775	HOXC4;HOXC	12	5.05E-11	0.63867649
-0.108038737	cg03305955	HOXC4;HOXC	12	1.77E-08	0.79537261
-0.104831363	cg15772924	HOXC4;HOXC	12	6.84E-08	0.26958651
-0.112178917	cg00567703	HOXC4;HOXC	12	1.25E-14	0.53271499
-0.106329272	cg19164987	HOXC4;HOXC	12	8.05E-15	0.49996146
-0.106219478	cg11941633	HOXC4;HOXC	12	3.65E-11	0.42028641
-0.179816781	cg03892356	HOXC4;HOXC	12	1.13E-06	0.84369183
-0.180731078	cg07545037	HOXC4;HOXC	12	2.78E-09	0.91120111
-0.102649442	cg23697546	HOXC4;HOXC	12	1.24E-09	0.35351954
-0.106364686	cg00506343	HOXC4;HOXC	12	4.07E-12	0.3881606
-0.116401806	cg21582112	HOXC4;HOXC	12	4.60E-08	0.61479424
-0.151130433	cg22378817	HOXC4;HOXC	12	1.36E-09	0.34735277
-0.12812976	cg13826247	HOXC4;HOXC	12	6.13E-12	0.67900268
-0.104149919	cg12905836	HOXC4;HOXC	12	0.00025594	0.79262822
-0.184206039	cg22621272	HOXC4;HOXC	12	0.00011866	0.78578652
-0.159574168	cg01473837	HOXC4;HOXC	12	2.83E-09	0.38944939
-0.22131143	cg13726459	HOXC4;HOXC	12	2.32E-09	0.43216996
-0.145014704	cg04704531	HOXC4;HOXC	12	9.51E-11	0.79667269
-0.111817801	cg06714180	HOXC4;HOXC	12	3.05E-14	0.52867077
-0.110249302	cg15817960	HOXC4;HOXC	12	6.17E-10	0.59121259
-0.156871997	cg16937769	HOXC4;HOXC	12	5.00E-14	0.75319156
-0.121822804	cg23618344	HOXC4;HOXC	12	6.85E-11	0.46171667
-0.110624361	cg07687119	HOXC4;HOXC	12	6.77E-13	0.73236836
-0.101574489	cg03255182	HOXC4;HOXC	12	4.68E-13	0.75468653
-0.173312353	cg13545297	HOXC8	12	4.22E-11	0.86375966
-0.105667418	cg14301713	HOXC8	12	2.39E-07	0.39440629
-0.144132995	cg22660542	HOXC8	12	3.83E-07	0.76786667
-0.12809888	cg02344911	HOXC8	12	3.86E-14	0.33734142
-0.10794559	cg16908257	HOXC8	12	2.35E-14	0.7737358
-0.167546676	cg23685155	HOXC9	12	1.47E-09	0.38975487
-0.123277286	cg15819717	HOXC9	12	3.46E-10	0.48485923
-0.27013183	cg22679316	HOXC9	12	2.72E-17	0.84484923
-0.191393	cg02227188	HOXC9	12	4.54E-15	0.60138612
-0.107255099	cg03553278	HOXD1	2	2.10E-12	0.53459548
-0.150032154	cg08992581	HOXD10	2	2.09E-09	0.40153526
-0.111766915	cg10393811	HOXD10	2	2.17E-06	0.59279379
-0.14447779	cg06005169	HOXD10	2	2.55E-06	0.66444272
-0.137800051	cg07566169	HOXD11	2	3.22E-07	0.4033019
-0.113394295	cg22455694	HOXD11	2	3.42E-12	0.31853614
-0.126948444	cg01708273	HOXD11	2	2.07E-14	0.58639657
-0.120388528	cg20605061	HOXD11	2	1.29E-11	0.47389606
-0.109514381	cg01405040	HOXD12	2	3.39E-08	0.26489912
-0.182259867	cg05864326	HOXD3	2	3.60E-07	0.28550428
-0.118582704	cg15812753	HOXD3	2	2.45E-11	0.38154369
-0.100636446	cg00586420	HOXD3	2	7.24E-07	0.83659688

-0.104803093	cg12634591	HOXD3	2	2.36E-10	0.29168016
-0.118105314	cg02773086	HOXD3	2	2.46E-07	0.31720197
-0.109523824	cg13316854	HOXD3	2	7.53E-12	0.43365641
-0.117795018	cg05021643	HOXD3	2	2.63E-13	0.37003931
-0.400597633	cg04316624	HOXD3	2	2.20E-10	0.4468909
-0.364683277	cg24541426	HOXD3	2	8.41E-15	0.55593477
-0.355403866	cg06145336	HOXD3	2	3.03E-09	0.51590607
-0.320406916	cg10159630	HOXD3	2	8.67E-13	0.78016107
-0.245168857	cg01128482	HOXD3	2	2.38E-15	0.7727987
-0.218293368	cg09387749	HOXD3	2	9.82E-14	0.75861343
-0.166314789	cg13053653	HOXD3	2	2.91E-15	0.81467836
-0.16451643	cg23981871	HOXD3	2	1.36E-15	0.81078122
-0.145803077	cg00005847	HOXD3	2	2.06E-14	0.68423998
-0.142814919	cg00278547	HOXD3	2	1.31E-13	0.77071309
-0.131876563	cg10304824	HOXD3;HOXI	2	3.94E-13	0.87225736
-0.1167356	cg18750960	HOXD4	2	7.80E-06	0.40284236
-0.114985521	cg25951210	HOXD4	2	1.88E-09	0.77262927
-0.112229011	cg19509393	HOXD4	2	3.65E-10	0.72776184
-0.101942377	cg04843067	HOXD4	2	1.27E-06	0.75085721
-0.101158464	cg21011616	HOXD4	2	6.03E-12	0.65004808
-0.100318877	cg25304107	HOXD4	2	4.80E-09	0.82092051
-0.14296196	cg10803577	HOXD4	2	2.88E-11	0.78762835
-0.133992199	cg12539415	HOXD4;HOXI	2	1.74E-09	0.85790902
-0.127782092	cg17104824	HOXD4;MIR1	2	4.80E-08	0.91536197
-0.111603925	cg08717880	HOXD4;MIR1	2	3.27E-08	0.88852766
-0.131532384	cg00014998	HOXD4;MIR1	2	9.38E-08	0.85719386
-0.10434692	cg12127282	HOXD4;MIR1	2	1.01E-10	0.87306279
-0.120886163	cg00767581	HOXD4;MIR1	2	1.07E-07	0.77824196
-0.110547556	cg01152019	HOXD4;MIR1	2	6.67E-10	0.6795046
-0.167721647	cg23068499	HOXD9	2	0.00012291	0.38013689
-0.101016841	cg00036110	HPCAL4	1	4.98E-07	0.52020777
-0.116107702	cg11702866	HRH1;HRH1;	3	0.00164189	0.460418
-0.11391623	cg24366429	HRNBP3	17	8.31E-14	0.48535564
-0.134744873	cg17077641	HS3ST3A1	17	1.64E-12	0.86083661
-0.13066553	cg02400773	HS3ST3A1	17	3.98E-05	0.79448675
-0.205385506	cg20928777	HS3ST3B1	17	9.67E-08	0.36536238
-0.181694864	cg20731875	HS3ST3B1;M	17	0.00248078	0.47529055
-0.17022999	cg24895178	HS3ST3B1;M	17	3.73E-08	0.8132817
-0.173008607	cg11119340	HS6ST3	13	0.00010772	0.6877031
-0.173634616	cg01559300	HSD11B1L;H'	19	5.01E-06	0.73621951
-0.159873847	cg14356530	HSD17B3	9	1.03E-06	0.50268183
-0.111030183	cg00543840	HSPG2	1	0.00039225	0.81213971
-0.10095183	cg20022118	ICA1;ICA1;IC	7	3.86E-06	0.62564876
-0.24706862	cg10262052	IDO1	8	8.44E-06	0.21381037
-0.176316043	cg27176729	IER5	1	8.93E-05	0.68020139
-0.133599363	cg10231067	IFFO2	1	0.00011453	0.67687696

-0.249953708	cg11186344	IFFO2	1	2.72E-11	0.472127
-0.206223391	cg26550235	IFFO2	1	0.00042741	0.37811047
-0.184733712	cg03065308	IFNGR1	6	0.00012842	0.48399678
-0.162280491	cg02102832	IFT140	16	0.00158606	0.74941909
-0.120039316	cg00939684	IFT140;TMEN	16	8.41E-05	0.73004856
-0.10018587	cg07013955	IFT140;TMEN	16	8.56E-08	0.62591729
-0.187775117	cg08006309	IFT140;TMEN	16	2.73E-06	0.76362385
-0.150833599	cg07994487	IFT140;TMEN	16	2.10E-12	0.83383651
-0.114872826	cg08182270	IGDCC4	15	0.00065665	0.68114231
-0.189388773	cg26577252	IGF1R	15	0.03264322	0.59953477
-0.103784743	cg08729686	IGF1R	15	5.69E-05	0.64307525
-0.130018279	cg08778287	IGF1R	15	1.51E-07	0.85311535
-0.282788407	cg02350767	IGF1R	15	1.43E-09	0.86167449
-0.234306786	cg05103581	IGF1R	15	4.19E-07	0.73261528
-0.174642395	cg03240301	IGF2BP3	7	0.00282796	0.69043303
-0.125796096	cg10494770	IGLL1;IGLL1;I	22	4.39E-07	0.68637224
-0.171210959	cg13088568	IHH	2	4.02E-07	0.56851394
-0.165241585	cg00489539	IKZF1	7	2.00E-06	0.71233455
-0.129338835	cg10978799	IL10	1	1.82E-05	0.68699644
-0.112108405	cg03876697	IL17B	5	3.73E-09	0.60641109
-0.127966691	cg16324121	IL17RE;IL17R	3	0.00135877	0.71530319
-0.123823755	cg13897122	IL18RAP	2	7.77E-06	0.50152606
-0.117808406	cg00810939	IL22RA1	1	1.26E-16	0.74975236
-0.101657734	cg10805880	IL4I1;IL4I1	19	0.00240219	0.47109484
-0.103901109	cg11555067	INPP4A;INPP	2	1.59E-06	0.75036863
-0.113690884	cg16469046	INPP4A;INPP	2	8.70E-07	0.56995985
-0.21580299	cg01169610	INPP4A;INPP	2	2.60E-12	0.74102611
-0.125781659	cg24608475	INPP5A	10	2.17E-08	0.70747538
-0.13538173	cg01140244	INPP5A	10	5.34E-09	0.41659128
-0.135452908	cg12507869	INPP5A	10	3.50E-06	0.57638477
-0.122833901	cg00862314	INPP5A	10	0.00845551	0.59642263
-0.120430703	cg26193427	INPP5A	10	3.27E-08	0.59597968
-0.162727176	cg14953730	INPP5A	10	9.32E-08	0.53681633
-0.103021875	cg06272010	INPP5D;INPP	2	0.0023371	0.54910071
-0.107093851	cg16321975	INPP5D;INPP	2	0.00173309	0.62162648
-0.115359556	cg13577194	IPPK	9	5.94E-05	0.68047562
-0.139076497	cg16686273	IQCE;IQCE	7	5.62E-05	0.50572926
-0.135509332	cg18527651	IRAK2	3	0.00095204	0.76878584
-0.10637882	cg01183510	IRAK3;IRAK3	12	1.36E-05	0.56647496
-0.106140496	cg26266708	ISL2	15	0.01701391	0.65317377
-0.100911699	cg25789916	ISLR2;ISLR2;I	15	0.00024617	0.5256696
-0.10923757	cg05036937	ITGA2	5	0.00392993	0.62369763
-0.11668754	cg08446038	ITGA2	5	0.00018519	0.52179509
-0.134623442	cg01167274	ITGB2;ITGB2	21	1.66E-08	0.47184151
-0.103535271	cg07274406	ITGB2;ITGB2	21	6.33E-08	0.65998075
-0.105028387	cg07464094	ITI1H3	3	2.50E-10	0.6265847

-0.276657006	cg08972954	ITK	5	0.00077186	0.6063417
-0.110544152	cg18665334	ITM2C;ITM2C	2	0.00032604	0.63518268
-0.103495037	cg21097788	ITPK1;ITPK1;ITPK1	14	0.00060503	0.40574482
-0.132389047	cg25287071	ITPKB	1	3.98E-11	0.73209568
-0.112912151	cg05139187	ITSN2;ITSN2;	2	3.86E-08	0.49162507
-0.102891143	cg26005086	JAG1	20	2.85E-06	0.58279617
-0.200394041	cg22945413	JAK1	1	0.00011913	0.32072708
-0.16361693	cg26128456	JAKMIP1;JAK	4	1.49E-09	0.73456469
-0.268868361	cg17052756	JAZF1	7	7.61E-07	0.718889
-0.102028179	cg21919820	JAZF1	7	8.60E-05	0.58175415
-0.101120329	cg23657393	JPH2	20	1.18E-10	0.61893454
-0.147591533	cg23440058	KALRN;KALRI	3	6.07E-06	0.58560727
-0.140813155	cg15731035	KCNAB2;KCN	1	1.38E-11	0.75578426
-0.117816459	cg15510325	KCNH2;KCNH	7	4.44E-11	0.84772638
-0.104629935	cg11005943	KCNJ12	17	5.02E-05	0.71374454
-0.109306139	cg25508319	KCNJ5	11	0.01406669	0.7385864
-0.121765784	cg19427642	KCNMA1;KCN	10	0.000447	0.59882223
-0.134237957	cg18315680	KCNN3;KCNN	1	8.14E-05	0.58799279
-0.180582453	cg02258534	KCNQ1;KCNQ	11	0.00046836	0.82862152
-0.139348427	cg23531340	KCNS3	2	0.00012842	0.46367629
-0.155313776	cg06844968	KCTD1	18	5.84E-06	0.73634191
-0.131333986	cg10646179	KCTD16	5	1.83E-16	0.65261428
-0.139704679	cg26780042	KDELR2;KDEI	7	0.00068617	0.38143973
-0.132770321	cg10958452	KDM4A	1	0.00963519	0.7819157
-0.212496712	cg17416338	KDM4B	19	0.03006659	0.67060025
-0.106527762	cg15705062	KDM4B	19	2.05E-08	0.84974932
-0.104056463	cg15621731	KDM4B	19	0.00016705	0.87272016
-0.13116737	cg05441854	KIAA0182;KIA	16	3.24E-09	0.54321255
-0.110717884	cg26723054	KIAA0182;KIA	16	3.55E-13	0.79942108
-0.163516394	cg10482057	KIAA0319;KIA	6	0.01187047	0.40664136
-0.115762748	cg05105330	KIAA0513	16	3.45E-10	0.74803335
-0.119970507	cg07005506	KIAA0513	16	2.70E-08	0.5797464
-0.107784994	cg27260684	KIAA0513	16	3.89E-10	0.79652792
-0.113304788	cg11964773	KIAA1026;KIA	1	0.00021994	0.70291533
-0.104258842	cg16985952	KIAA1026;KIA	1	7.15E-07	0.77386484
-0.136934766	cg15733729	KIAA1026;KIA	1	2.74E-05	0.72900242
-0.102012721	cg01017257	KIAA1026;KIA	1	6.31E-07	0.6942725
-0.132735907	cg24350475	KIAA1462	10	0.00025378	0.41268241
-0.11283142	cg12786570	KIAA1462	10	2.45E-11	0.39322892
-0.107444877	cg04173688	KIAA1530	4	1.45E-07	0.84815175
-0.170066651	cg08908131	KIAA1598;KIA	10	0.00138309	0.60405826
-0.145824697	cg23977002	KIDINS220	2	2.71E-11	0.86498586
-0.125273172	cg15414930	KIF13A;KIF13	6	0.00045265	0.57895033
-0.146299557	cg20106866	KIF13B	8	0.03800487	0.68850976
-0.105367517	cg09888753	KIF13B	8	1.51E-07	0.75451518
-0.10631889	cg12459000	KIF17;KIF17	1	0.0044795	0.68744938

-0.124714468	cg03877174	KIF1C	17	2.15E-05	0.42436618
-0.131405873	cg19800856	KIF26A	14	8.67E-06	0.75829848
-0.118370221	cg15206171	KIFC1	6	0.00037601	0.62953358
-0.126381529	cg20176989	KIR3DL2	19	1.26E-10	0.71735158
-0.121019252	cg24717078	KIRREL3;KIRF	11	5.11E-09	0.67800364
-0.104114205	cg01304993	KLHDC4	16	0.00013913	0.66416523
-0.109805511	cg18774642	KLHL14	18	6.25E-07	0.74889862
-0.104255957	cg09606470	KLHL6	3	0.00135866	0.58932833
-0.102812292	cg25104107	KPRP	1	2.46E-05	0.58857239
-0.127034277	cg24340657	KRT24	17	9.06E-08	0.47441635
-0.150410397	cg04918314	KRT75	12	3.03E-11	0.85575742
-0.114876813	cg04911139	KSR1	17	1.38E-07	0.4398242
-0.176926356	cg17863139	LAD1	1	1.01E-10	0.37353644
-0.109934325	cg02052536	LAMB1	7	2.51E-09	0.56795324
-0.102266811	cg19471856	LAMB4	7	5.59E-08	0.82880376
-0.10105085	cg03801871	LBH	2	0.00084148	0.4885491
-0.294048233	cg15923484	LCE1E	1	9.63E-05	0.43557687
-0.131825044	cg11807188	LEPR;LEPR;LE	1	5.65E-12	0.51040531
-0.126750067	cg17830682	LGR6;LGR6;L	1	0.00015552	0.44860548
-0.132870169	cg13385220	LGR6;LGR6;L	1	9.48E-06	0.43747787
-0.172424485	cg21902325	LHFPL2	5	0.00240753	0.45295353
-0.124251354	cg14425564	LHX2	9	7.09E-07	0.34969056
-0.164046556	cg17040753	LIMS3-LOC4	2	0.00038991	0.6319046
-0.176269514	cg09610311	LIPC	15	2.86E-05	0.54807809
-0.107903629	cg15539962	LLGL2;LLGL2	17	5.46E-06	0.56916883
-0.106194777	cg18087306	LMNB2	19	1.04E-08	0.66430926
-0.108625339	cg14905657	LMO3;LMO3	12	5.71E-09	0.35148873
-0.124587551	cg26575637	LMO3;LMO3	12	4.38E-09	0.38201051
-0.100272821	cg15003194	LOC1001282	11	5.86E-05	0.69078779
-0.113442013	cg05304979	LOC1001296	16	1.98E-08	0.52312034
-0.161729352	cg06928952	LOC1001296	16	3.77E-08	0.68756163
-0.117751238	cg21916479	LOC1001315	3	0.00012331	0.70055887
-0.107344124	cg18034368	LOC1001697	10	4.43E-08	0.76286564
-0.1601252	cg05177746	LOC1002160	10	6.47E-06	0.48837363
-0.106862898	cg03184472	LOC1002717	2	0.00027928	0.48167447
-0.221119229	cg04831076	LOC153328	5	0.00083407	0.5281793
-0.109378332	cg15400629	LOC285548	4	0.00011785	0.68257386
-0.11791937	cg17809748	LOC285548	4	3.19E-08	0.60933224
-0.102221729	cg11582018	LOC339524;L	1	1.86E-06	0.35612661
-0.100959262	cg06811361	LOC399959;L	11	0.02303542	0.70122991
-0.188856647	cg16396919	LOC400043	12	2.38E-08	0.6859815
-0.150169963	cg03536711	LOC400804	1	2.33E-06	0.64069418
-0.111806028	cg08460812	LOC641518;L	4	5.66E-10	0.57311317
-0.216692711	cg10803722	LOC642852	21	0.0003744	0.69535803
-0.141949814	cg12204343	LOC645323;L	5	8.22E-05	0.50373973
-0.104362512	cg13750802	LOC646982;L	13	3.91E-07	0.64027681

-0.105034404	cg20148389	LOC646982;L	13	4.43E-10	0.79148083
-0.108460721	cg08569979	LOC646982;L	13	5.34E-10	0.68600999
-0.102820167	cg09153895	LOC653653	17	2.32E-05	0.67461641
-0.251342352	cg14550519	LOC653653	17	3.79E-06	0.53669703
-0.17774154	cg08715187	LOC91316;RC	22	1.68E-13	0.6208349
-0.165816831	cg07902156	LPCAT1	5	4.21E-05	0.87425056
-0.162272807	cg07627639	LPCAT2	16	2.71E-08	0.39281006
-0.146473176	cg04773529	LPP;LPP;LPP	3	0.00042944	0.42724434
-0.145809124	cg19935951	LRBA	4	8.16E-05	0.61722567
-0.136680776	cg03521113	LRMP	12	0.00027938	0.40128919
-0.111117246	cg05336056	LRP2	2	2.82E-11	0.70429614
-0.111261422	cg20437668	LRPAP1	4	7.85E-10	0.85000466
-0.103272553	cg26466258	LRRC14B	5	4.16E-14	0.89600352
-0.172692426	cg00428692	LRRC14B	5	3.26E-09	0.40754265
-0.100395515	cg15726700	LRRC33	3	6.09E-09	0.7592173
-0.172726215	cg24602245	LRRC47	1	6.37E-15	0.76973065
-0.142768966	cg25577090	LRRC61;LRRC	7	1.01E-10	0.79493841
-0.121255441	cg09037813	LRRFIP1;LRRF	2	7.37E-06	0.69753634
-0.144467097	cg10984625	LRRFIP1;LRRF	2	7.76E-05	0.57332851
-0.123377403	cg03077671	LYL1	19	3.47E-08	0.4950457
-0.174429652	cg21301224	LYN;LYN	8	4.26E-06	0.46837001
-0.171307062	cg19753174	LYPLAL1	1	0.00141103	0.45261444
-0.166156392	cg22367631	MACF1	1	0.03107121	0.53031795
-0.109904119	cg22963979	MAD1L1;MA	7	0.01096989	0.46280379
-0.109658489	cg26584120	MAD1L1;MA	7	1.05E-07	0.52508412
-0.207668231	cg23080908	MAGI1;MAG	3	3.54E-08	0.78142566
-0.136510588	cg18405299	MAGI2	7	0.0001455	0.64284045
-0.101772412	cg19554257	MAP1LC3B2	12	0.00068643	0.42062887
-0.206872102	cg17875657	MAP2	2	7.16E-09	0.63216459
-0.196198633	cg04789365	MAP3K6	1	7.30E-05	0.64250811
-0.132481676	cg19808085	MAPK8IP2;IV	22	4.46E-05	0.42895397
-0.236418703	cg24228559	MAPK8IP2;IV	22	0.00334139	0.75017463
-0.138973525	cg17852224	MAPK8IP2;IV	22	6.22E-08	0.35990523
-0.202378323	cg09877744	MAPK8IP2;IV	22	2.54E-09	0.36511387
-0.164238824	cg10447222	MATN2;MAT	8	8.84E-09	0.46408603
-0.126808834	cg21847368	MCF2L;MCF2	13	0.00132052	0.50713445
-0.120037474	cg16325826	MCF2L;MCF2	13	2.27E-14	0.84850293
-0.11808016	cg04708126	MCF2L;MCF2	13	7.61E-15	0.86776008
-0.110438537	cg20732304	MCF2L;MCF2	13	8.78E-07	0.53224543
-0.128278646	cg25307724	MCF2L;MCF2	13	5.07E-13	0.84955546
-0.126899198	cg14783051	MCF2L;MCF2	13	9.76E-17	0.88359493
-0.103500658	cg21067465	ME3;ME3;MI	11	2.72E-06	0.68698736
-0.130247857	cg09416908	ME3;ME3;MI	11	0.00022751	0.61495052
-0.116532197	cg01384290	MECOM	3	2.92E-06	0.70149853
-0.135255041	cg10600701	MECOM	3	1.57E-05	0.39779145
-0.107227256	cg12962542	MECOM	3	4.93E-09	0.57004528

-0.273285386	cg21545313	MECOM	3	1.14E-10	0.36462737
-0.188889753	cg00024967	MECOM	3	4.41E-07	0.42689331
-0.102031518	cg08004073	MECOM	3	3.80E-09	0.46347652
-0.321139078	cg00962903	MECOM;MEI	3	2.61E-09	0.79192921
-0.129124553	cg04754652	MED12L;GPR	3	1.68E-05	0.69897675
-0.105491254	cg02955098	MEGF6	1	1.58E-12	0.44370855
-0.161302503	cg05334053	MEGF6	1	3.09E-10	0.79423055
-0.131395825	cg05496203	MEIS1	2	7.23E-05	0.19080197
-0.105772921	cg06796713	MEIS1	2	0.00030809	0.23971497
-0.102379555	cg23497016	MEIS1	2	8.71E-12	0.24466047
-0.109706389	cg04751149	MEIS1	2	2.14E-14	0.28688688
-0.101651255	cg03589296	MEIS1	2	6.67E-08	0.30830242
-0.134973624	cg23398076	MEIS1	2	1.03E-09	0.44450379
-0.152061442	cg16178603	MEIS1	2	2.56E-13	0.38303328
-0.103516345	cg09462924	MEIS1	2	1.43E-16	0.42198139
-0.11168245	cg00995986	MEIS1	2	5.11E-11	0.44578563
-0.288624444	cg23972738	MEIS1	2	5.82E-13	0.48251388
-0.243799587	cg14775296	MEIS1	2	6.02E-12	0.51244994
-0.147915754	cg06994420	MEIS1	2	4.07E-15	0.74197076
-0.11239178	cg02551743	MEIS1	2	4.70E-12	0.5104379
-0.106519014	cg17945976	MEIS1	2	4.61E-13	0.48045621
-0.105790086	cg22731271	MEIS1	2	1.59E-16	0.53833898
-0.210781921	cg17107572	MEIS1	2	7.25E-16	0.5111432
-0.104454929	cg08238215	MEIS1	2	2.32E-17	0.57362245
-0.138007785	cg11433622	MEIS1	2	2.26E-17	0.54124309
-0.112386843	cg04288999	MEIS1	2	4.78E-18	0.58004045
-0.102245972	cg09535924	MEIS1	2	2.49E-17	0.74538926
-0.10012476	cg12082609	MEIS1	2	5.33E-16	0.64850486
-0.132065822	cg06833110	MEIS1	2	1.61E-19	0.64702628
-0.110733406	cg26537478	MEIS1	2	5.46E-19	0.67230433
-0.129271789	cg10464312	MEIS1	2	6.92E-12	0.73018634
-0.111203735	cg01271812	MEIS1	2	2.18E-18	0.72505366
-0.116196441	cg09550083	MEIS1	2	1.76E-19	0.85733483
-0.118272976	cg05877497	MEIS1	2	1.37E-19	0.75531025
-0.102581793	cg06933370	MEIS2;MEIS2	15	5.07E-11	0.28819179
-0.114859393	cg09896544	MEIS2;MEIS2	15	0.00026454	0.35577035
-0.126595674	cg09863630	MEIS2;MEIS2	15	1.80E-05	0.68162124
-0.122210125	cg11362604	MEIS2;MEIS2	15	4.79E-10	0.30940058
-0.115019056	cg25221496	MEIS2;MEIS2	15	2.73E-09	0.84115515
-0.103641186	cg04339553	MEIS2;MEIS2	15	2.36E-09	0.68992511
-0.135722414	cg00691830	MEIS2;MEIS2	15	6.52E-17	0.44750327
-0.158395873	cg23677243	MEIS2;MEIS2	15	3.76E-17	0.56735255
-0.116432688	cg03396151	MEIS2;MEIS2	15	1.28E-11	0.46038556
-0.104444865	cg02377544	MEIS2;MEIS2	15	3.76E-18	0.69986673
-0.171050641	cg24357619	MEIS2;MEIS2	15	1.65E-12	0.48271268
-0.170274347	cg19010490	MEIS2;MEIS2	15	1.17E-15	0.75183046

-0.117770879	cg26708220	MEIS2;MEIS2	15	2.54E-16	0.65387678
-0.11707481	cg13181974	MEIS2;MEIS2	15	2.24E-18	0.59540332
-0.104579521	cg15902390	MEIS2;MEIS2	15	1.84E-17	0.65090805
-0.127281631	cg21177426	MEIS2;MEIS2	15	8.06E-17	0.85276589
-0.102837993	cg13181164	MEIS2;MEIS2	15	6.28E-16	0.62457254
-0.10355486	cg19560971	MFRP;C1QTN	11	6.29E-09	0.62253326
-0.168359623	cg04212021	MGAT1;MGA	5	0.00048918	0.82533641
-0.164409081	cg09277376	MGC12982	1	0.00377238	0.53599567
-0.100692739	cg18595867	MGC12982	1	0.00648775	0.70483715
-0.134904967	cg15590989	MGC45800	4	3.93E-07	0.28465127
-0.149708636	cg03867465	MGC45800	4	4.90E-06	0.54835811
-0.154870965	cg08985979	MGC45800	4	0.00016335	0.43073378
-0.106762851	cg01922891	MGRN1;MGF	16	2.23E-09	0.34567167
-0.194090232	cg06323332	MGRN1;MGF	16	1.71E-12	0.48086493
-0.173112407	cg07635227	MGRN1;MGF	16	1.68E-07	0.6193929
-0.379869483	cg01156249	MGRN1;MGF	16	7.95E-09	0.59631197
-0.366701517	cg04962621	MGRN1;MGF	16	1.14E-08	0.54902828
-0.251983731	cg00078456	MIB2;MIB2;M	1	0.00012651	0.62557924
-0.24897866	cg02884661	MICA	6	0.02473464	0.70313456
-0.238097747	cg11268327	MICA	6	0.01448182	0.6479526
-0.232908293	cg02759751	MICALL2	7	1.44E-05	0.75187557
-0.215388917	cg11251690	MICALL2	7	3.89E-08	0.72577489
-0.207801313	cg02492818	MICALL2	7	2.46E-06	0.72043521
-0.173611025	cg15930380	MIER1;MIER:	1	9.15E-11	0.54212716
-0.16236262	cg17940587	MINPP1	10	0.00021349	0.48423914
-0.150194288	cg19519747	MIR10B	2	1.18E-07	0.80435415
-0.121511911	cg27083040	MIR145;LOC	5	1.68E-05	0.59955125
-0.283625525	cg11574092	MIR149;PP14	2	9.17E-06	0.6075466
-0.278465618	cg08053137	MIR196A2	12	1.45E-07	0.2715568
-0.263579651	cg18771937	MIR196A2	12	2.80E-09	0.50020988
-0.260535135	cg14679255	MIR196A2	12	2.14E-09	0.49950606
-0.252691342	cg07641807	MIR19A;MIR	13	2.59E-05	0.51311583
-0.220321055	cg02297838	MIR19A;MIR	13	3.21E-07	0.64214231
-0.199674427	cg00215432	MIR375	2	1.89E-06	0.4239817
-0.19886263	cg04916802	MIR548F5;NI	13	6.66E-05	0.39742153
-0.19866894	cg12029639	MIR548F5;NI	13	8.58E-05	0.32126972
-0.179990973	cg07554357	MIR548F5;NI	13	8.68E-05	0.78785488
-0.172125625	cg24185852	MIR585;SLIT:	5	1.94E-12	0.4651482
-0.153909771	cg13767001	MIR759	13	0.00808977	0.51674809
-0.149935386	cg09099500	MIR942;TTF2	1	2.51E-05	0.46810833
-0.137808122	cg02558684	MIRLET7A1	9	0.00280648	0.5230623
-0.135180074	cg15672749	MKS1;MKS1	17	0.00311931	0.42220391
-0.119731179	cg14070755	MLPH;MLPH	2	5.00E-05	0.46678174
-0.320564841	cg02081327	MMEL1	1	2.08E-08	0.53791419
-0.264082658	cg00667048	MORN1	1	1.02E-06	0.61082037
-0.259188033	cg08868601	MORN1	1	0.0017005	0.62329485

-0.258616207	cg05787839	MORN1	1	6.33E-06	0.45727226
-0.254362377	cg13659446	MRC2	17	1.22E-05	0.38599201
-0.209257972	cg02556430	MRPS6;SLC5	21	0.00367391	0.62746819
-0.207324709	cg07377994	MSI2;MSI2	17	0.00109784	0.8820997
-0.199703821	cg13654836	MSI2;MSI2	17	1.69E-05	0.49048638
-0.196056517	cg08185808	MSLN;MSLN	16	7.81E-08	0.56803839
-0.193389034	cg16584392	MST1P9	1	5.89E-06	0.4648589
-0.188833903	cg12296269	MST1P9	1	9.12E-08	0.40122404
-0.184140665	cg24183741	MTA1	14	2.96E-12	0.83344829
-0.152009335	cg19001023	MTA1	14	2.17E-14	0.83018335
-0.134612662	cg18238340	MTA1	14	1.15E-16	0.67980554
-0.120882784	cg18920088	MTHFD1L	6	0.0090899	0.53446806
-0.119813408	cg04718883	MTHFD1L	6	2.65E-10	0.84874555
-0.10728844	cg06094043	MTMR6	13	4.61E-09	0.66146786
-0.105279171	cg22718696	MTOR	1	8.75E-06	0.52913347
-0.265659119	cg15589427	MUC4;MUC4	3	1.77E-08	0.57154012
-0.195726324	cg04524478	MYF5	12	2.95E-05	0.36891769
-0.11718937	cg25176746	MYF6	12	9.24E-06	0.41338829
-0.115163603	cg01828111	MYH11;NDE	16	7.16E-13	0.85671275
-0.198118715	cg23400451	MYH4	17	3.00E-05	0.66194179
-0.294564026	cg14067524	MYO16	13	0.00982173	0.56943213
-0.101482755	cg17856559	MYO16	13	1.36E-07	0.63003596
-0.129868412	cg03134230	MYO1B;MYC	2	2.82E-07	0.61867677
-0.113133666	cg13887966	MYO1E	15	3.45E-05	0.48036697
-0.12935797	cg13523014	MYO1F	19	9.93E-09	0.85439235
-0.10062133	cg22111043	MYO1G	7	1.73E-06	0.63354926
-0.136248778	cg21512773	MYO7B	2	2.94E-05	0.6253792
-0.111212664	cg16526705	MYO9B;MYC	19	1.98E-09	0.77461062
-0.107737892	cg15438314	MYO9B;MYC	19	1.55E-07	0.54268642
-0.173739857	cg12229979	MYO9B;MYC	19	2.21E-07	0.53823114
-0.100089733	cg20816077	MYOM2	8	1.04E-08	0.85014377
-0.105411067	cg03243893	MYOM2	8	2.54E-06	0.64994672
-0.102382566	cg19368031	MYST4	10	1.53E-06	0.68941759
-0.120199306	cg07410339	MYST4	10	6.84E-05	0.53136747
-0.109989193	cg27319917	N4BP1	16	0.00057457	0.7336582
-0.104633995	cg01701649	N4BP1	16	0.00174508	0.70698623
-0.122877296	cg02659217	N4BP3	5	2.28E-08	0.56740127
-0.178596865	cg15067606	NAA50	3	0.00118739	0.48555886
-0.11171931	cg02493986	NACC2	9	0.02729949	0.60697243
-0.122864925	cg09185911	NADK	1	4.14E-09	0.83753531
-0.102950879	cg23089913	NANOS1	10	6.44E-05	0.42184308
-0.143809021	cg15539330	NANOS1	10	1.53E-06	0.57957043
-0.224293976	cg19565262	NAT8	2	2.99E-05	0.54376206
-0.154436309	cg05029983	NAT8L	4	7.05E-06	0.46401007
-0.13649556	cg24253904	NAV1	1	0.00033307	0.31651659
-0.125590919	cg14969261	NAV2	11	1.53E-09	0.66256298

-0.106900966	cg09175834	NAV3	12	0.0114531	0.63246456
-0.101573794	cg01816186	NBAS	2	7.61E-06	0.63482835
-0.100424719	cg00729885	NBEA	13	0.00061639	0.4617611
-0.106898516	cg14774585	NBEA	13	5.46E-08	0.6378905
-0.106428092	cg25546488	NBN	8	0.01044262	0.47906389
-0.153535468	cg27110054	NCALD;NCAL	8	1.02E-06	0.37331886
-0.138299508	cg01579216	NCF2;NCF2	1	3.58E-05	0.50936027
-0.104133411	cg03729042	NCF2;NCF2	1	5.23E-14	0.63663391
-0.129288747	cg18123344	NCKAP5;NCK	2	8.10E-06	0.22973689
-0.148825165	cg22247748	NCKAP5;NCK	2	1.02E-06	0.81813978
-0.121069047	cg19676227	NCKAP5;NCK	2	1.02E-05	0.54657009
-0.158055959	cg18984282	NCKAP5;NCK	2	3.44E-06	0.37935433
-0.100509778	cg17081914	NCKAP5;NCK	2	2.85E-08	0.38194159
-0.113895585	cg26428069	NCKAP5;NCK	2	2.10E-12	0.62633849
-0.111562108	cg01586116	NCKAP5;NCK	2	2.16E-13	0.52452061
-0.289976235	cg26794830	NCLN	19	4.15E-06	0.66608425
-0.279587873	cg02983759	NCRNA00111	21	5.11E-06	0.53514359
-0.109434777	cg11798406	NCRNA00114	21	0.00126018	0.41163043
-0.200696464	cg08636922	NCRNA00162	21	0.00026015	0.43584877
-0.142090243	cg26868806	NCRNA00200	10	1.60E-06	0.62814497
-0.119916922	cg16674484	NDST1	5	2.24E-05	0.46000428
-0.282114116	cg08580187	NECAB2	16	0.03696657	0.64203901
-0.24918089	cg15972264	NEDD9	6	1.24E-12	0.66356294
-0.172049164	cg16955407	NEDD9	6	1.58E-12	0.8039565
-0.169030745	cg18627677	NEDD9	6	1.25E-13	0.70942492
-0.165578503	cg27426044	NFASC;NFAS	1	1.93E-08	0.56517806
-0.161424369	cg13098379	NFASC;NFAS	1	1.66E-07	0.75400723
-0.160022292	cg11147886	NFAT5;NFAT	16	0.00324579	0.53108375
-0.153322452	cg06499262	NFAT5;NFAT	16	0.0003069	0.5120925
-0.151992631	cg01514831	NFATC1;NFA	18	0.0011534	0.33796818
-0.150589572	cg16421653	NFATC1;NFA	18	0.00010094	0.80866595
-0.149720861	cg11321921	NFATC1;NFA	18	1.79E-05	0.79939837
-0.136875465	cg18590092	NFATC1;NFA	18	5.79E-06	0.53758952
-0.131232733	cg21192698	NFATC1;NFA	18	2.52E-10	0.60027457
-0.128812924	cg23384027	NFE2;NFE2	12	1.10E-05	0.49986726
-0.125565975	cg12499092	NFYB	12	1.11E-07	0.85334275
-0.125144514	cg14911689	NINJ2	12	0.02249384	0.62274611
-0.120332942	cg26654770	NINJ2	12	0.02656237	0.63622742
-0.117701956	cg01201512	NINJ2	12	0.01604892	0.65988292
-0.116147163	cg13081568	NKAIN2	6	3.91E-13	0.72079595
-0.114674695	cg24721899	NKX3-2	4	8.78E-08	0.46378065
-0.112093589	cg02268561	NMT2	10	8.42E-09	0.58661612
-0.111246542	cg01243823	NOD2	16	7.41E-05	0.4432545
-0.109680846	cg09479286	NOSTRIN;NO	2	0.02252778	0.35400641
-0.108010012	cg14205001	NOTCH1	9	3.38E-07	0.81670308
-0.105622374	cg14120703	NOTCH1	9	1.46E-05	0.81198807

-0.105191507	cg14065526	NOTCH1	9	8.78E-06	0.7114626
-0.103277875	cg19687075	NOTCH1	9	3.01E-06	0.48156639
-0.101215902	cg13861904	NOTCH1	9	5.77E-11	0.61696318
-0.112667827	cg09744036	NOTUM	17	0.00039761	0.61104339
-0.133944365	cg10543035	NPHS2	1	0.00142374	0.71791894
-0.138232032	cg05445244	NPY1R	4	0.00012032	0.47171596
-0.101313866	cg13772742	NR2F2;NR2F1	15	3.65E-06	0.76053799
-0.143672032	cg00426720	NR4A2	2	2.88E-06	0.32145222
-0.119588757	cg20570611	NR4A2	2	0.00022067	0.6966868
-0.101358545	cg06101180	NR4A2	2	0.00037635	0.75988101
-0.113971575	cg13229857	NR5A2;NR5A1	1	2.31E-06	0.53184631
-0.145636009	cg23221090	NRBF2	10	9.99E-11	0.37990838
-0.121594623	cg13216112	NRBF2	10	1.37E-13	0.58386063
-0.127788047	cg00565348	NRN1	6	2.40E-06	0.37532226
-0.115090744	cg03707308	NRN1	6	3.17E-06	0.35285254
-0.140281626	cg05265020	NRN1	6	0.00305136	0.5300967
-0.101015349	cg10304637	NRN1	6	2.11E-08	0.57178359
-0.106323859	cg17658634	NRN1	6	3.85E-05	0.45060667
-0.147744991	cg06609051	NRXN1;NRXN1-AS1	2	4.07E-05	0.53869696
-0.145482165	cg09989847	NT5E	6	0.000191	0.43591661
-0.12498171	cg18377376	NTM	11	9.53E-06	0.71383905
-0.109580295	cg27083553	NTM	11	2.06E-09	0.71274089
-0.100978286	cg11362049	NTM;NTM;NTM	11	3.15E-09	0.74220907
-0.129876551	cg21658372	NTN5;SEC1	19	8.37E-07	0.73734823
-0.112725527	cg07452706	NUDT14	14	2.52E-12	0.63172026
-0.105332942	cg14717116	NXN	17	3.13E-06	0.58604263
-0.159712428	cg06604589	NXN	17	0.00358111	0.3578983
-0.15379092	cg24101979	NXN	17	0.00020297	0.58340601
-0.130965315	cg08190450	NXN	17	0.00191028	0.55629287
-0.109191335	cg20633370	NXN	17	1.85E-05	0.72724481
-0.100184614	cg23644589	OBSCN;OBSCN	1	1.19E-05	0.89434057
-0.120907239	cg06651505	ODZ2	5	6.19E-14	0.8243434
-0.157102818	cg16658460	ODZ2	5	9.69E-08	0.61039277
-0.115028781	cg09171112	ODZ2	5	5.42E-10	0.5300233
-0.118954477	cg14653988	ODZ2	5	2.46E-17	0.52305697
-0.110022239	cg08734703	ODZ4	11	5.03E-07	0.52843656
-0.154360914	cg27153782	OLAH;OLAH	10	7.78E-05	0.51528417
-0.11153798	cg13822849	OLFM1	9	0.00017728	0.60695549
-0.126355721	cg18858676	OR10G8	11	2.03E-10	0.60926495
-0.240252318	cg22082267	OR8K1	11	2.73E-05	0.71155612
-0.104532061	cg03199926	OSBPL2;OSBI	20	1.81E-05	0.87906027
-0.141772351	cg04525464	OSBPL3;OSBI	7	1.51E-06	0.59408997
-0.141075417	cg16746576	OSR2;OSR2	8	0.00015504	0.60545936
-0.105366731	cg16595607	OTX1	2	0.00254829	0.84773392
-0.265753825	cg04276301	OTX1	2	0.01621321	0.6646504
-0.197358934	cg09830083	P4HA2;P4HA1	5	0.00059719	0.51937235

-0.151356352	cg17861653	P4HA2;P4HA	5	0.00014923	0.44947112
-0.11649026	cg09428340	PACRG;PACR	6	7.45E-05	0.58470392
-0.144726257	cg07098722	PARK2;PARK	6	6.84E-09	0.42622504
-0.101434167	cg15123662	PARVA	11	2.32E-08	0.49572287
-0.166087257	cg11283289	PATE1	11	2.37E-08	0.60840389
-0.145462374	cg10913846	PAX9	14	7.18E-05	0.39160959
-0.110571388	cg04415798	PAX9	14	2.44E-08	0.35610399
-0.229557728	cg09814975	PAX9	14	1.69E-09	0.75632498
-0.178742821	cg22238122	PBX1	1	0.00240478	0.59011471
-0.1650032	cg26026748	PBX1	1	0.00013075	0.36886591
-0.112847418	cg00160440	PCDH10	4	0.00280611	0.5636003
-0.109044531	cg17705041	PCGF3	4	4.39E-05	0.5421712
-0.257141589	cg17265115	PCGF3	4	1.63E-08	0.5684754
-0.137867867	cg09149851	PCNT	21	0.00067181	0.71602989
-0.100349666	cg26100986	PCOLCE	7	0.00015101	0.46412977
-0.110943531	cg01889899	PCSK6;PCSK6	15	1.07E-05	0.5074928
-0.138427356	cg21470711	PCYT1A	3	1.68E-05	0.53869882
-0.111611369	cg22623236	PDE10A;PDE	6	0.00654703	0.83271752
-0.102436409	cg04989278	PDE4B;PDE4	1	1.97E-07	0.65436147
-0.335600221	cg18688704	PDGFC	4	0.00011494	0.47527293
-0.182396794	cg23496331	PDGFRB	5	2.61E-06	0.65606542
-0.173637613	cg20714347	PDLIM1	10	1.91E-10	0.61661661
-0.145874153	cg20449614	PDLIM2;PDLI	8	0.00337324	0.8050185
-0.14346099	cg11769400	PEBP4	8	0.00034328	0.43933713
-0.13485623	cg12308675	PER2	2	0.00067164	0.6972307
-0.123703886	cg07719617	PER2	2	9.06E-06	0.53263948
-0.115124539	cg22879834	PER2	2	9.04E-06	0.62744025
-0.109490896	cg25310676	PEX14	1	8.01E-05	0.48924945
-0.166571228	cg03261682	PFKFB3	10	9.45E-06	0.62919655
-0.152232353	cg08289056	PFKFB3	10	4.42E-07	0.76775494
-0.117348707	cg19705197	PFKFB3;PFKF	10	1.21E-13	0.72353889
-0.113984165	cg16546349	PFKFB3;PFKF	10	3.19E-09	0.44707759
-0.123025923	cg14038949	PFKFB3;PFKF	10	6.17E-06	0.66095876
-0.106036137	cg13782176	PFKFB3;PFKF	10	5.39E-13	0.75993601
-0.102871384	cg08568670	PFKFB4	3	1.71E-05	0.72093887
-0.13620138	cg23840010	PFKP	10	0.006979	0.60879405
-0.105074109	cg19758448	PGAP3	17	9.69E-05	0.2709763
-0.11928546	cg09980384	PGS1	17	0.00069555	0.66852523
-0.103452359	cg10619379	PHF12;PHF1	17	9.06E-05	0.47130225
-0.122549805	cg00582531	PHF15	5	1.30E-10	0.78140825
-0.103251945	cg02304370	PHRF1	11	0.00184172	0.57568146
-0.186201874	cg20557688	PID1;PID1	2	0.00027091	0.67591484
-0.137268759	cg19397801	PIP4K2A	10	0.03810062	0.64120518
-0.119249813	cg19423978	PIP5K1C	19	1.87E-06	0.53436014
-0.101076119	cg26049998	PITPNC1;PITP	17	5.26E-06	0.72818157
-0.10359465	cg14644204	PITPNM2	12	2.10E-05	0.77287669

-0.176043043	cg07036112	PKD1;MIR12:	16	2.56E-05	0.80298271
-0.162173048	cg11550234	PKN1;PKN1	19	0.00028922	0.45898748
-0.145418963	cg12611897	PLCH1;PLCH1	3	2.98E-05	0.83669457
-0.120866476	cg17560015	PLEC1;PLEC1	8	7.99E-09	0.3388331
-0.105217062	cg25720264	PLEKHA5;PLE	12	1.17E-06	0.40144418
-0.100151481	cg26895569	PLEKHA6	1	2.72E-06	0.34214931
-0.100256003	cg19771173	PLEKHA6	1	1.02E-09	0.58223126
-0.115594389	cg09368486	PLEKHM3	2	5.91E-09	0.42681985
-0.101603	cg10709246	PLVAP;PLVAF	19	9.47E-10	0.40316506
-0.100771045	cg19431623	PLXDC2	10	0.00011185	0.60011076
-0.106036197	cg16357930	PLXNB1;PLXN	3	0.00024866	0.56290114
-0.100418831	cg05490233	PLXND1	3	5.36E-06	0.60319889
-0.157178612	cg17751430	PNLIPRP1	10	2.74E-13	0.7946356
-0.128938797	cg06072036	PNPLA2	11	6.21E-06	0.76179343
-0.102156939	cg16956999	POLE	12	1.27E-08	0.77983389
-0.128863281	cg27197524	POLE	12	8.94E-06	0.80870595
-0.211079067	cg23671319	POU6F2;POL	7	1.43E-08	0.21909162
-0.157334616	cg15896446	PPAPDC1A	10	7.09E-09	0.6846183
-0.126835977	cg10955995	PPARGC1A	4	0.00182582	0.33132478
-0.111039893	cg21187108	PPFIA1;PPFIA	11	0.00413707	0.6807261
-0.199398014	cg01800253	PPM1F	22	0.00043367	0.67161175
-0.131949671	cg21113446	PPP2R2B;PPF	5	0.0007711	0.40771092
-0.209006131	cg12789488	PPP2R2D;PPI	10	0.00398401	0.53298046
-0.131698492	cg15444217	PPP2R2D;PPI	10	4.45E-06	0.81551945
-0.114284466	cg24878051	PRDM16;PRC	1	4.71E-05	0.83466679
-0.113459819	cg21475097	PRDM16;PRC	1	0.01134844	0.5906425
-0.157570455	cg23025459	PRDM16;PRC	1	1.16E-07	0.59482814
-0.127421552	cg22726349	PRDM16;PRC	1	0.00232027	0.81611295
-0.150509055	cg11251399	PRDM16;PRC	1	5.56E-10	0.77200312
-0.119928281	cg24968931	PRDM16;PRC	1	2.22E-05	0.7700667
-0.106417473	cg01203812	PRDM16;PRC	1	2.04E-05	0.77691177
-0.184235522	cg08160128	PRDM16;PRC	1	4.41E-07	0.77268517
-0.100877068	cg26938014	PRDM6	5	0.00310017	0.67501885
-0.108085367	cg26403580	PRDX3;PRDX	10	1.35E-08	0.56629338
-0.134545585	cg15262954	PRIC285;PRIC	20	0.00102885	0.7589729
-0.113671247	cg11779113	PRIC285;PRIC	20	0.00022032	0.7122789
-0.145152364	cg07303091	PRICKLE1;PRI	12	4.41E-09	0.60025539
-0.167166463	cg07650392	PRICKLE2	3	0.0022825	0.61179389
-0.122501539	cg08108224	PRIM2	6	6.22E-07	0.62049799
-0.106362396	cg26284782	PRKAG2;PRK	7	7.53E-05	0.45057716
-0.12145744	cg17814717	PRKAG2;PRK	7	4.19E-06	0.50059952
-0.101425266	cg26482626	PRKAG2;PRK	7	2.11E-08	0.65874705
-0.125805517	cg12889538	PRKAG2;PRK	7	1.73E-05	0.60128045
-0.184530219	cg09397579	PRKAG2;PRK	7	3.63E-06	0.42330404
-0.137695995	cg16581738	PRKAR1B;PRI	7	0.00029782	0.74710983
-0.109808561	cg06878741	PRKAR1B;PRI	7	0.00146096	0.55301346

-0.22510532	cg11315991	PRKAR1B;PRI	7	2.42E-06	0.7166104
-0.123597053	cg00498360	PRKCA	17	2.47E-07	0.5935835
-0.109785154	cg17799599	PRKCA	17	9.12E-07	0.49381303
-0.102913881	cg09655520	PRKCA	17	1.68E-06	0.74173825
-0.131029674	cg22632947	PRKCA	17	2.42E-08	0.64085043
-0.10543377	cg14121185	PRKCA	17	1.14E-14	0.54193676
-0.224236399	cg12256705	PRKCE	2	0.00450998	0.74984509
-0.124583854	cg23924526	PRKCE	2	9.85E-08	0.70042922
-0.104131704	cg24447775	PRKCZ	1	6.86E-06	0.59916571
-0.144801509	cg23682913	PRKCZ;PRKCZ	1	8.15E-07	0.41191188
-0.124175926	cg07671644	PRKD3	2	1.92E-06	0.72685177
-0.107450447	cg17757778	PRKG1;PRKG	10	1.08E-08	0.61355312
-0.228985298	cg15121267	PRL;PRL	6	2.50E-06	0.57159779
-0.100505937	cg22799510	PROK2;PROK	3	0.00129867	0.67927854
-0.106645991	cg01904145	PROK2;PROK	3	3.27E-07	0.77369794
-0.100131254	cg22264409	PROK2;PROK	3	8.97E-09	0.67181314
-0.140191253	cg12459923	PRPF6	20	0.0001846	0.59669876
-0.135037406	cg23256579	PRR4;PRR4	12	0.00052713	0.38456411
-0.121134411	cg20478080	PRR5;PRR5;P	22	7.44E-05	0.4585649
-0.201247192	cg21544931	PRR5L;PRR5L	11	0.00026987	0.39126003
-0.147023115	cg08682153	PSD2	5	5.12E-06	0.40088408
-0.131268242	cg01203766	PSORS1C1	6	0.01642431	0.55202635
-0.181010289	cg10575846	PTDSS2	11	0.00044531	0.67038105
-0.119796873	cg08251761	PTDSS2	11	4.03E-07	0.66218538
-0.115525036	cg18336453	PTK7;PTK7;P	6	2.86E-05	0.44970285
-0.125917048	cg26842815	PTPN6;PTPN	12	0.00021875	0.74719607
-0.109277014	cg09017928	PTPRN2;PTPI	7	2.48E-06	0.5632638
-0.109487467	cg13736939	PTPRN2;PTPI	7	9.23E-05	0.80384087
-0.102186374	cg13357408	PTPRN2;PTPI	7	0.01457814	0.58415329
-0.102589088	cg09845489	PTPRN2;PTPI	7	4.98E-07	0.4881166
-0.218735891	cg04864441	PTPRN2;PTPI	7	0.00196747	0.53078492
-0.124267261	cg24842334	PTPRN2;PTPI	7	6.26E-05	0.57751288
-0.139365026	cg11111139	PTPRN2;PTPI	7	2.86E-11	0.64557583
-0.129837391	cg21323106	PTPRN2;PTPI	7	7.70E-08	0.66761015
-0.110855042	cg02505956	PTPRN2;PTPI	7	9.09E-09	0.6275991
-0.123939074	cg27572053	PTPRN2;PTPI	7	1.03E-14	0.65693967
-0.118966042	cg15085205	PTPRR	12	2.28E-05	0.5734189
-0.104567784	cg02100150	PVT1	8	2.77E-08	0.50028941
-0.164037047	cg00045902	PWWP2B;PV	10	0.00022173	0.42954632
-0.102578931	cg15893360	PXN;PXN	12	1.79E-07	0.73579047
-0.101477851	cg27168573	PXN;PXN	12	8.48E-07	0.41541498
-0.123080554	cg14136168	QSOX2	9	4.77E-07	0.71735722
-0.110115422	cg09408143	RAB11FIP3;R	16	6.73E-09	0.56797743
-0.10220235	cg17833066	RAB11FIP4	17	2.25E-12	0.55871795
-0.102442497	cg06755297	RAB3GAP2;A	1	4.03E-06	0.83048216
-0.10406619	cg22213445	RAB7A	3	3.76E-05	0.71118561

-0.144398998	cg14891022	RAC2	22	9.75E-08	0.62711742
-0.161705248	cg18825221	RAD51L1;RAI	14	0.01248006	0.57451833
-0.157204486	cg01348584	RADIL	7	6.66E-12	0.80832951
-0.129234744	cg04105416	RADIL	7	3.79E-14	0.7575391
-0.161085303	cg22283115	RADIL	7	6.57E-15	0.83598074
-0.198274211	cg01363736	RALGAPB	20	4.27E-08	0.84575647
-0.154760403	cg18361425	RAMP1	2	0.00029301	0.33009509
-0.101792139	cg07213181	RAMP1	2	0.00578845	0.43845356
-0.124858706	cg14819160	RAMP1	2	0.0001657	0.47552163
-0.240436271	cg22396755	RAP1GAP;RA	1	4.33E-05	0.28387166
-0.197023455	cg10038867	RAP1GAP;RA	1	5.28E-05	0.5446628
-0.161464766	cg18553223	RAP1GAP2;R	17	0.01355135	0.66212077
-0.139155692	cg11869193	RAP1GAP2;R	17	4.45E-05	0.74934051
-0.120187216	cg13784312	RAPGEF1	9	0.00033269	0.80517686
-0.101714328	cg13555415	RAPGEF1;RAI	9	1.79E-09	0.83957517
-0.110023955	cg01811815	RASA3	13	0.00488158	0.7852406
-0.14739696	cg21749794	RASA3	13	2.10E-07	0.75955233
-0.120990844	cg11686792	RASA3	13	0.00099262	0.62227929
-0.114818846	cg24701606	RASA3	13	2.82E-06	0.75488128
-0.107101782	cg05266142	RASA3	13	4.79E-06	0.74073526
-0.104829641	cg24126698	RASA3	13	0.00018093	0.46177998
-0.211645296	cg04493793	RASGRF2	5	1.19E-09	0.79630644
-0.156273095	cg15335334	RECQL5;LOC	17	6.04E-06	0.49782051
-0.144556357	cg26870936	RECQL5;LOC	17	2.23E-12	0.45429424
-0.135801196	cg05679403	RELL1;RELL1	4	8.42E-09	0.79526811
-0.127481822	cg04212651	RFPL4B	6	0.0001639	0.74965867
-0.111370711	cg11184109	RFT1	3	0.01322646	0.55268132
-0.11026947	cg01336231	RFTN1	3	0.00055794	0.6204628
-0.19253015	cg01766396	RFTN2	2	8.91E-08	0.45976026
-0.107431887	cg02874031	RFX4	12	0.00098916	0.71637275
-0.395283933	cg00450784	RFX4	12	9.02E-05	0.69410528
-0.186571567	cg18075315	RFX4	12	0.00022156	0.52437501
-0.144570557	cg17851046	RFX4	12	0.00053308	0.45741117
-0.125865482	cg20896113	RFX4;RFX4	12	5.34E-05	0.52507978
-0.123195765	cg14819229	RGMA;RGM/	15	5.75E-05	0.81447153
-0.120431469	cg01919885	RGS12;RGS1	4	0.00226975	0.80954534
-0.113186207	cg18127398	RGS6	14	0.00021132	0.4988206
-0.159308721	cg03054541	RIC3;RIC3	11	5.96E-10	0.73674422
-0.104405563	cg06002952	RICS	11	0.0010614	0.44582794
-0.171959357	cg18393905	RICTOR	5	1.76E-05	0.83352799
-0.112179595	cg17556421	RIMBP2	12	0.00050889	0.70085193
-0.100105346	cg10612692	RIMBP2	12	2.07E-09	0.53432634
-0.108927191	cg20934105	RIN3	14	8.66E-07	0.47769539
-0.10176537	cg25992382	RIN3	14	5.42E-07	0.43108184
-0.120186245	cg07965041	RINL	19	1.30E-05	0.61347657
-0.118337289	cg08776014	RIPK4	21	7.40E-06	0.79223269

-0.214735469	cg00085061	RIPK4	21	2.97E-09	0.81384196
-0.186306124	cg27417606	RNASE13	14	0.00025367	0.58956234
-0.117401106	cg06073041	RNF14	5	0.00032272	0.79371434
-0.106864996	cg12745289	RNF19B;RNF	1	5.60E-06	0.6152433
-0.143057445	cg18196453	RNF217	6	6.00E-06	0.5297344
-0.179274344	cg08147563	ROBO1;ROBO	3	8.77E-07	0.61588618
-0.179680057	cg14216252	ROR1;ROR1	1	0.00030956	0.51213859
-0.242871715	cg25839727	ROR1;ROR1	1	0.00055767	0.59442839
-0.165129808	cg13300480	ROR1;ROR1	1	1.71E-06	0.32518576
-0.138936891	cg20021790	RPH3AL	17	8.04E-07	0.37515824
-0.124897164	cg15609308	RPIA	2	3.06E-13	0.52153086
-0.157864664	cg11407989	RPL13AP17;M	7	5.38E-11	0.62112617
-0.133510897	cg09226288	RPL23AP82;F	22	5.56E-10	0.5329611
-0.120699032	cg00278517	RPS6KA2	6	0.00073942	0.71639138
-0.10733207	cg24327522	RPTOR;RPTO	17	0.00657577	0.5409808
-0.144267761	cg18951390	RPTOR;RPTO	17	1.43E-06	0.75024701
-0.116694823	cg16565901	RPTOR;RPTO	17	3.46E-09	0.76198986
-0.126321028	cg06412669	RPTOR;RPTO	17	1.30E-09	0.73692375
-0.133301352	cg25902229	RPTOR;RPTO	17	3.05E-14	0.4867909
-0.105779207	cg09516200	RPTOR;RPTO	17	2.70E-09	0.62468496
-0.138732991	cg24899545	RREB1;RREB	6	1.29E-06	0.61424372
-0.104131567	cg04935109	RTP4	3	0.00334001	0.52642353
-0.106808239	cg14656093	RUNX3;RUNX	1	1.18E-06	0.51694483
-0.114294453	cg26861995	RUVBL1	3	1.20E-05	0.52269499
-0.1111290957	cg14545975	RXRA	9	4.42E-05	0.67119426
-0.104612957	cg14236758	RXRA	9	0.00471424	0.79066092
-0.114901897	cg02127980	RXRA	9	0.00090811	0.72926624
-0.107122884	cg19825483	RYR2	1	4.39E-05	0.48229537
-0.142564961	cg00299070	RYR2	1	2.82E-13	0.54862144
-0.102071813	cg20847746	S100A13;S10	1	0.00944731	0.38753266
-0.134298507	cg10224088	S100A13;S10	1	1.87E-17	0.60329411
-0.224001346	cg14333338	S100B	21	5.04E-06	0.35690284
-0.168536339	cg00025591	S100B	21	1.88E-05	0.66499509
-0.100204064	cg18576206	SAMM50	22	0.00075546	0.76832397
-0.119026382	cg13951664	SAMSN1	21	3.78E-07	0.28484894
-0.100982422	cg13717350	SARDH;SARD	9	1.31E-07	0.76190848
-0.226515039	cg25513433	SBF2	11	0.00038226	0.52056612
-0.20219915	cg23698269	SBF2	11	2.86E-05	0.69058224
-0.133728175	cg08286551	SBNO2	19	0.00100655	0.55263155
-0.129471847	cg26529239	SCAND3	6	0.00018573	0.72687891
-0.203168287	cg12895179	SCARF2;SCAF	22	0.00251274	0.42335187
-0.123592788	cg04097078	SCARF2;SCAF	22	0.00160346	0.79991892
-0.106245567	cg04881673	SCD5;SCD5	4	2.14E-05	0.6991755
-0.169177878	cg19752565	SCN7A	2	4.09E-08	0.47632945
-0.11732331	cg26842303	SDC2	8	6.67E-05	0.65110767
-0.113201333	cg23166773	SDCCAG8;AK	1	2.72E-10	0.78450853

-0.101622325	cg02491557	SDK1	7	8.45E-13	0.53246155
-0.115475961	cg16339286	SDK1	7	1.05E-13	0.43552208
-0.108878362	cg04609841	SDK1	7	2.48E-18	0.66446074
-0.102789297	cg14295306	SDK2	17	7.36E-09	0.73596157
-0.14467834	cg08413419	SECTM1	17	3.27E-08	0.47197121
-0.170121594	cg09811393	SEMA3B;SEM	3	0.01397779	0.73615046
-0.121793578	cg10819708	SEMA4B	15	6.33E-07	0.38298488
-0.107980615	cg18241962	SEPT9;SEPT9	17	5.72E-05	0.4481165
-0.121289645	cg02277530	SEPT9;SEPT9	17	0.00020234	0.4466554
-0.17549963	cg03236137	SEPT9;SEPT9	17	4.31E-11	0.53550588
-0.151531393	cg07827420	SEPT9;SEPT9	17	7.27E-07	0.56720356
-0.103577791	cg00871371	SEPT9;SEPT9	17	8.05E-06	0.68612931
-0.19099278	cg26415789	SEPT9;SEPT9	17	8.74E-06	0.66963733
-0.119895461	cg15229994	SEPT9;SEPT9	17	0.00034191	0.62799706
-0.105699507	cg14773822	SEPT9;SEPT9	17	0.00016088	0.63201799
-0.108133196	cg04548336	SEPT9	17	0.00040191	0.55502744
-0.203194365	cg06677021	SERINC5	5	0.00018244	0.78791769
-0.104490978	cg23374863	SERPINA12;S	14	4.04E-08	0.30270149
-0.127578724	cg07348591	SERPINE2;SE	2	2.53E-06	0.84557992
-0.101538492	cg08305533	SFI1;SFI1	22	6.14E-09	0.32575916
-0.272200878	cg11956866	SFI1;SFI1	22	3.87E-09	0.55157001
-0.13150772	cg16498741	SFRP1	8	7.24E-06	0.49726516
-0.238075384	cg02154585	SFRP1	8	2.17E-10	0.73179228
-0.118944378	cg22499893	SFRS13A;SFR	1	0.00663335	0.60210471
-0.140017428	cg25713214	SFXN4	10	7.10E-06	0.64392772
-0.125478358	cg23375247	SGTA	19	9.02E-06	0.58261656
-0.225276168	cg24544047	SH2B2	7	0.00073582	0.80549611
-0.205837342	cg16880396	SH2B2	7	4.76E-05	0.70846368
-0.122852509	cg03802185	SH2B2	7	3.12E-09	0.78337918
-0.11995236	cg24545967	SH2D3C;SH2	9	3.48E-05	0.63458011
-0.128382047	cg24170085	SH3BP5;SH3I	3	5.22E-13	0.38134172
-0.163155476	cg02030270	SH3GL3;SH3C	15	8.57E-12	0.74062844
-0.110220969	cg03880642	SH3PXD2A	10	0.0029547	0.5060842
-0.1284244	cg05696969	SH3RF2	5	0.00019457	0.62116755
-0.172720627	cg14795555	SH3RF3	2	2.67E-08	0.35749575
-0.171665294	cg09548638	SH3TC2	5	0.0071501	0.43273949
-0.119942331	cg27643147	SHANK2	11	2.79E-08	0.46384561
-0.12368675	cg06868991	SHANK2	11	1.04E-14	0.73514093
-0.106003899	cg27112585	SHANK2;SHA	11	1.70E-06	0.47180822
-0.105424712	cg00303223	SHOX2;SHOX	3	0.00028948	0.7101698
-0.135151123	cg16609957	SHROOM1;SI	5	6.19E-08	0.763374
-0.114514365	cg12979844	SIAH3	13	1.74E-09	0.33235593
-0.104567025	cg11803771	SIPA1;SIPA1	11	0.00225349	0.81706449
-0.140981001	cg13395086	SIPA1;SIPA1	11	0.00037293	0.70951967
-0.102566334	cg07386008	SIPA1L2	1	2.60E-09	0.57287415
-0.112798524	cg25104437	SIX3	2	0.00068158	0.5269704

-0.105838839	cg02372786	SIX3	2	4.71E-05	0.42369503
-0.107722282	cg11126767	SIX6	14	3.10E-07	0.34103783
-0.1995545	cg18997983	SLC12A7	5	0.00637511	0.84789403
-0.167319298	cg17221813	SLC17A9	20	1.70E-06	0.81297913
-0.127437639	cg13844463	SLC1A2	11	1.79E-05	0.60806975
-0.106177656	cg10159951	SLC1A2	11	0.00623781	0.55863692
-0.100910789	cg08258650	SLC1A2	11	0.00096925	0.68926642
-0.126394988	cg12882392	SLC22A11	11	1.77E-06	0.66690984
-0.111799712	cg01822289	SLC22A11	11	1.58E-08	0.66811603
-0.115974852	cg00552892	SLC23A3;SLC	2	0.00136589	0.46718952
-0.112071397	cg03493774	SLC24A4;SLC	14	3.31E-12	0.40909916
-0.139643614	cg08244301	SLC27A1	19	3.45E-06	0.39775831
-0.12667044	cg15089806	SLC2A1	1	2.27E-06	0.47223015
-0.114424205	cg27391816	SLC35E2	1	0.00797318	0.61784655
-0.107218841	cg15215033	SLC38A10;SL	17	2.97E-05	0.46465605
-0.115586582	cg27062060	SLC38A10;SL	17	2.67E-07	0.56341379
-0.175576656	cg25692139	SLC38A10;SL	17	3.70E-07	0.56116996
-0.131420384	cg16710042	SLC38A11	2	0.00033631	0.57009894
-0.12073237	cg27025137	SLC39A11;SL	17	4.66E-07	0.73821159
-0.263270924	cg05200373	SLC39A7;SLC	6	7.36E-06	0.5325204
-0.171494845	cg21580456	SLC41A3;SLC	3	7.86E-09	0.66195358
-0.153804521	cg04204452	SLC43A2	17	0.00421572	0.77654324
-0.107248685	cg23691006	SLC43A2	17	1.25E-06	0.57068708
-0.158050725	cg19880947	SLC43A2	17	3.36E-07	0.73981595
-0.127491977	cg22284058	SLC45A4	8	0.00741049	0.72592413
-0.114578357	cg03988700	SLC6A3	5	1.09E-06	0.6140688
-0.107815158	cg15454698	SLC6A6;SLC6	3	0.03033403	0.53963851
-0.127287653	cg05327789	SLC04A1	20	2.27E-07	0.75713649
-0.105072362	cg26164234	SLIT1	10	4.39E-07	0.60302973
-0.130500717	cg06569542	SLIT1	10	1.85E-12	0.66204256
-0.210051867	cg17229698	SLIT3	5	0.002292	0.6019217
-0.107627286	cg05906024	SLIT3	5	0.0003501	0.64984367
-0.167495008	cg08712336	SLIT3	5	3.57E-13	0.7510972
-0.117253153	cg13008977	SLIT3	5	7.83E-09	0.67435519
-0.101930351	cg16679297	SLIT3	5	5.53E-15	0.78664615
-0.102696236	cg11855741	SLIT3;MIR58!	5	0.0003676	0.44915051
-0.177180214	cg02184281	SMAD7	18	1.79E-06	0.78103344
-0.179791548	cg13783238	SMC4;MIR15	3	2.07E-07	0.71892771
-0.176769195	cg19926852	SMOC2;SMO	6	1.66E-06	0.82689147
-0.103226757	cg04967737	SMOC2;SMO	6	0.00198908	0.64449245
-0.285077593	cg17297775	SMOC2;SMO	6	6.44E-06	0.74111833
-0.269553364	cg07250916	SMOC2;SMO	6	2.91E-05	0.74782004
-0.165561208	cg24114708	SMOC2;SMO	6	2.64E-05	0.63686819
-0.134608406	cg22796363	SMYD2	1	8.84E-13	0.74317869
-0.386559738	cg22171145	SND1	7	0.00043422	0.45557518
-0.356636686	cg15889424	SNORA80;UR	21	1.17E-05	0.59843401

-0.355185099	cg22407942	SNORD93	7	0.0070672	0.50545457
-0.330377609	cg08330349	SNX20;SNX20	16	5.90E-07	0.68409361
-0.31945298	cg18515303	SORCS1;SORCS1	10	1.65E-05	0.44255806
-0.315070812	cg18658556	SORCS2	4	0.00010459	0.55570219
-0.310694365	cg03166265	SORCS2	4	0.0053032	0.6798248
-0.304245491	cg09789721	SORCS2	4	4.56E-05	0.7223162
-0.302424915	cg12716837	SORCS2	4	0.00039395	0.45638262
-0.300918235	cg18803251	SORCS2	4	2.69E-07	0.8410127
-0.298938587	cg10879992	SORCS2	4	4.69E-11	0.29874301
-0.296661738	cg06875488	SORCS2	4	5.66E-10	0.61792899
-0.29464198	cg19593680	SORCS2	4	2.80E-07	0.53542326
-0.293860408	cg13318771	SORCS2	4	1.54E-13	0.46105201
-0.288608307	cg14180415	SORCS2	4	2.44E-08	0.61253811
-0.287322718	cg21254939	SORCS2	4	2.57E-11	0.33296875
-0.284888544	cg15970640	SORCS2	4	0.00611237	0.79854998
-0.282603999	cg14084689	SORCS2	4	1.50E-12	0.46343064
-0.281506883	cg06173889	SOX11;SOX11	2	2.95E-06	0.40864048
-0.278563182	cg11864574	SPAG6;SPAG6	10	0.00051063	0.59114033
-0.277719638	cg25008858	SPEG	2	0.0076266	0.57597723
-0.269413047	cg11841522	SPEG	2	1.12E-06	0.62870008
-0.265809256	cg07110801	SPG7	16	6.03E-06	0.49051577
-0.263243742	cg26691434	SPN;SPN	16	0.00124966	0.73261922
-0.262062035	cg01138020	SPNS3	17	4.30E-06	0.44833886
-0.261531959	cg20551922	SPNS3	17	3.14E-08	0.57831054
-0.25846234	cg21582240	SPOCK1	5	3.71E-08	0.48220954
-0.257816556	cg08651590	SPRED2;SPRED2	2	0.00854248	0.46511842
-0.255749983	cg19809157	SPSB1	1	1.86E-06	0.49655747
-0.254135849	cg20017590	SPTBN1;SPTEN1	2	2.22E-09	0.84456285
-0.253575599	cg15602548	SPTBN1;SPTEN1	2	5.99E-05	0.59578357
-0.252241611	cg23630380	SRCIN1	17	4.22E-07	0.42983635
-0.252078571	cg01177100	SRGAP3;SRGAP3	3	1.12E-05	0.76678906
-0.249727032	cg18278184	SRGN	10	0.00013366	0.49961461
-0.249311302	cg09890699	SSBP3;SSBP3	1	4.53E-05	0.69805937
-0.248739786	cg04561731	SSBP3;SSBP3	1	6.98E-09	0.70116875
-0.245461802	cg19963589	SSBP3;SSBP3	1	0.00197917	0.74819575
-0.244935281	cg08644381	SSPO	7	5.18E-11	0.5211633
-0.244563053	cg04273299	ST3GAL1;ST3GAL1	8	1.83E-10	0.82213731
-0.242133878	cg13072717	ST6GAL1;ST6GAL1	3	2.24E-10	0.55764059
-0.241459482	cg15588258	ST6GALNAC1	17	1.57E-08	0.62241983
-0.241034307	cg25312440	ST6GALNAC3	1	1.04E-06	0.78873541
-0.23893138	cg05787129	ST8SIA2	15	1.90E-06	0.55883311
-0.237675019	cg25498969	STAG1	3	0.00093352	0.5915203
-0.236524778	cg09632271	STAP1	4	3.80E-15	0.64270544
-0.235623952	cg20173260	STAT1;STAT1	2	0.00278722	0.52720821
-0.235562112	cg19728382	STC2	5	5.82E-06	0.436894
-0.235562022	cg14394126	STIM2;STIM2	4	0.00071541	0.70751183

-0.234322131	cg09110502	STK24	13	0.00016329	0.72400999
-0.233863953	cg05459190	STK32C	10	1.07E-06	0.75257796
-0.233168739	cg07400503	STK32C	10	8.53E-06	0.65415393
-0.232803526	cg03766264	STK38L	12	0.00706155	0.47620534
-0.231887377	cg07240557	STK38L	12	7.87E-06	0.37428866
-0.231436016	cg23433370	STK38L	12	8.02E-11	0.62644066
-0.231335741	cg05798664	STK40	1	4.06E-05	0.42161533
-0.230601165	cg06631999	STMN1	1	0.0005616	0.63012539
-0.230449887	cg24222546	STRA6;STRA6	15	3.48E-07	0.43380338
-0.230234165	cg27641801	STX18	4	0.00120414	0.69863454
-0.22947991	cg20663219	STX1A;STX1A	7	1.72E-09	0.43976748
-0.22913152	cg08493590	SUPT3H	6	1.23E-05	0.79082394
-0.228747299	cg05814312	SVIL;SVIL	10	0.00164302	0.44702932
-0.227831894	cg23646360	SYCP2L	6	0.00047149	0.37635482
-0.226715494	cg00971175	SYDE1	19	0.00080936	0.75888149
-0.224641483	cg04078115	SYN3;SYN3;S	22	2.41E-07	0.48902335
-0.224023087	cg20476019	SYN3;SYN3;S	22	0.00367546	0.70205107
-0.223857344	cg24080529	SYN3;TIMP3;	22	6.76E-05	0.48176297
-0.223273321	cg08130912	SYNE2;SYNE2	14	1.01E-07	0.44059692
-0.221853688	cg14533068	SYNJ2	6	2.07E-05	0.52530689
-0.22168494	cg27039501	SYNPO;SYNP	5	4.77E-06	0.69318226
-0.221438015	cg27550918	SYNPO2L;SYN	10	4.87E-15	0.62940027
-0.220009606	cg24720849	SYT8	11	1.17E-05	0.56786468
-0.219588583	cg26186546	TACC2;TACC2	10	3.27E-07	0.74189274
-0.218916603	cg27143703	TBC1D16	17	1.30E-09	0.60586251
-0.218770822	cg03837680	TBC1D16	17	1.13E-09	0.39055016
-0.21817672	cg16461139	TBC1D16	17	0.00247046	0.66246195
-0.21810791	cg04157865	TBC1D16	17	1.23E-06	0.71738477
-0.217891464	cg16030878	TBC1D16	17	1.09E-06	0.76964324
-0.217799392	cg06119477	TBC1D20	20	5.59E-09	0.38826956
-0.217200604	cg09692364	TBC1D4	13	0.00113852	0.61443709
-0.216304047	cg02768197	TBCD	17	0.00102403	0.65171624
-0.213406054	cg00830755	TBCD	17	0.00023281	0.74919189
-0.212934975	cg13304638	TBCD	17	8.82E-07	0.61785204
-0.212907399	cg06218079	TBCD	17	2.64E-08	0.44105831
-0.212607184	cg02362103	TBX15	1	2.26E-07	0.28200935
-0.212566138	cg23371746	TBX15	1	1.86E-08	0.28801428
-0.212100522	cg18002447	TBX2	17	7.64E-08	0.71326379
-0.210708949	cg01438365	TBX2	17	2.93E-08	0.7077966
-0.21014519	cg27027242	TBX2	17	0.00037097	0.77691954
-0.209605452	cg05477823	TBX2	17	0.00415394	0.46185811
-0.209401676	cg11631427	TBX2	17	0.03308433	0.75748055
-0.208873006	cg21389753	TBX2	17	5.26E-06	0.31902252
-0.208660275	cg03753391	TBX2	17	0.01324265	0.67653378
-0.208533287	cg27470066	TBX2	17	9.05E-05	0.57482081
-0.206611923	cg26660800	TBX2	17	1.27E-05	0.50664641

-0.206538379	cg26983835	TBX2	17	3.54E-05	0.52178282
-0.206418797	cg07095230	TBX2	17	9.33E-08	0.64804702
-0.206415833	cg06211872	TBX3;TBX3	12	5.22E-08	0.42843806
-0.206120036	cg09413529	TBX3;TBX3	12	0.00044236	0.58595537
-0.2055748	cg09053536	TBX3;TBX3	12	0.00156961	0.80008779
-0.204790059	cg18161956	TBX3;TBX3	12	0.00436388	0.38400709
-0.204624695	cg13829104	TBX3;TBX3	12	0.00061188	0.66479656
-0.204576917	cg11246938	TBX3;TBX3	12	0.00025337	0.71759543
-0.2042418	cg16277169	TBX3;TBX3	12	0.0068392	0.70695694
-0.20273969	cg01078446	TBX3;TBX3	12	2.20E-05	0.59995663
-0.202648682	cg13930596	TBX3;TBX3	12	1.45E-05	0.70416636
-0.202057539	cg22635491	TBX3;TBX3	12	1.04E-06	0.60833426
-0.201358744	cg16406892	TBX3;TBX3	12	1.37E-06	0.73208324
-0.200897171	cg03843000	TBX5;TBX5	12	7.29E-16	0.22381383
-0.200731861	cg14431443	TBX5;TBX5	12	1.17E-09	0.37811379
-0.199878363	cg05929882	TBX5;TBX5	12	7.23E-13	0.28123937
-0.199752905	cg17645823	TBX5;TBX5	12	5.39E-12	0.39243564
-0.199748129	cg12670347	TBX5;TBX5	12	5.68E-15	0.67011244
-0.199327909	cg16458436	TBX5;TBX5	12	1.61E-16	0.62506385
-0.198987549	cg19290410	TBX5;TBX5	12	5.11E-13	0.4401457
-0.198590772	cg23827572	TBX5;TBX5	12	8.59E-14	0.47236797
-0.198128424	cg05769349	TBX5;TBX5	12	1.35E-18	0.51541944
-0.197851308	cg10281002	TBX5;TBX5	12	1.27E-13	0.58910094
-0.197221682	cg16559598	TBX5;TBX5	12	5.34E-20	0.65928834
-0.196990681	cg05555207	TBX5;TBX5	12	1.78E-19	0.71806444
-0.196851726	cg06911121	TBX5;TBX5	12	6.65E-19	0.68556119
-0.196432928	cg26196480	TBX5;TBX5	12	5.75E-18	0.76725928
-0.196301882	cg14264795	TBX5;TBX5;T	12	1.82E-05	0.7786699
-0.196211115	cg08318726	TBX5;TBX5;T	12	8.97E-14	0.47728247
-0.196114049	cg21611810	TBX5;TBX5;T	12	0.004883	0.28029621
-0.19607922	cg08900101	TBX5;TBX5;T	12	1.74E-07	0.28039184
-0.195914956	cg22628281	TBX5;TBX5;T	12	0.00052745	0.3099927
-0.195109193	cg25556579	TBX5;TBX5;T	12	4.67E-10	0.72730822
-0.19448239	cg00642359	TBX5;TBX5;T	12	1.49E-06	0.44163033
-0.194124219	cg17462200	TBX5;TBX5;T	12	0.00020637	0.36911616
-0.193402448	cg02712224	TBX5;TBX5;T	12	4.02E-07	0.33258478
-0.192656686	cg05065572	TBX5;TBX5;T	12	5.81E-08	0.33183446
-0.19261873	cg00590029	TBX5;TBX5;T	12	3.08E-05	0.54154997
-0.192263732	cg20099830	TBX5;TBX5;T	12	1.44E-05	0.52304591
-0.192026632	cg11841394	TBX5;TBX5;T	12	9.04E-06	0.44364619
-0.191990773	cg27072153	TBX5;TBX5;T	12	3.89E-05	0.40275146
-0.191558765	cg21907579	TBX5;TBX5;T	12	1.19E-09	0.45560376
-0.191238865	cg06717565	TBX5;TBX5;T	12	1.11E-15	0.6552129
-0.191023661	cg14126466	TBX5;TBX5;T	12	1.15E-16	0.82015482
-0.190503463	cg03877376	TBX5;TBX5;T	12	2.26E-11	0.52018976
-0.190126878	cg12610207	TBX5;TBX5;T	12	5.01E-16	0.54271028

-0.190092011	cg04562909	TBX5;TBX5;T	12	5.05E-19	0.69043007
-0.189685244	cg11357746	TBX5;TBX5;T	12	2.79E-16	0.62856312
-0.189646462	cg08184159	TBX5;TBX5;T	12	1.61E-19	0.73085967
-0.189253213	cg03559073	TBX5;TBX5;T	12	1.30E-15	0.63219781
-0.189030405	cg17554126	TBX5;TBX5;T	12	1.26E-16	0.75783643
-0.188287813	cg25399352	TBX5;TBX5;T	12	1.52E-18	0.74610306
-0.187319654	cg18689332	TBX5;TBX5;T	12	1.34E-13	0.67312493
-0.187310806	cg07658357	TBX5;TBX5;T	12	8.22E-17	0.76847399
-0.187280605	cg22929859	TBX5;TBX5;T	12	1.27E-20	0.77449629
-0.187250568	cg06725552	TBX5;TBX5;T	12	2.48E-18	0.78899036
-0.187015323	cg18006379	TCERG1L	10	2.07E-07	0.78387223
-0.187001221	cg12452800	TCERG1L	10	7.21E-09	0.5580321
-0.186867602	cg22207584	TCF7L1	2	4.79E-09	0.61219092
-0.186521566	cg05235151	TCP11;TCP11	6	9.18E-05	0.69937577
-0.185987929	cg04435320	TCP11L1;TCP	11	3.39E-05	0.67172615
-0.185865446	cg17485717	TCP11L1;TCP	11	8.55E-07	0.73363544
-0.185503215	cg12399536	TEAD1	11	0.00072975	0.60679043
-0.185489063	cg14381919	TEAD1	11	0.00171249	0.39394943
-0.185325821	cg08537660	TEAD1	11	3.11E-05	0.59457733
-0.185223795	cg27240158	TEAD1	11	0.00262454	0.58276807
-0.184637978	cg15722533	TEAD1	11	4.07E-05	0.62979334
-0.184549349	cg14665901	TEAD1	11	2.31E-08	0.61371054
-0.184409626	cg01039401	TEAD4;TEAD	12	1.42E-08	0.64887167
-0.184250843	cg27152208	TFAP2A	6	5.12E-06	0.33466576
-0.183859125	cg24286789	TFAP2A	6	2.90E-11	0.67884254
-0.183704051	cg26149682	TFAP2A	6	4.46E-14	0.53090781
-0.182536018	cg14683017	TFAP2A	6	9.99E-11	0.64763604
-0.182525546	cg10899301	TFAP2A;TFAF	6	6.34E-07	0.3862318
-0.182515311	cg13298147	TFAP2A;TFAF	6	1.23E-12	0.56140511
-0.182163952	cg24902920	TFAP2A;TFAF	6	8.88E-09	0.43150019
-0.181895066	cg08178786	TFAP2A;TFAF	6	2.55E-06	0.41278483
-0.181869462	cg06630455	TFAP2A;TFAF	6	9.59E-07	0.34310801
-0.180863839	cg21661837	TFAP2A;TFAF	6	0.00014436	0.3101655
-0.18051881	cg12659952	TFAP2A;TFAF	6	7.75E-09	0.43833848
-0.179875386	cg16199280	TFAP2A;TFAF	6	3.77E-12	0.4938071
-0.179787193	cg22315453	TFAP2A;TFAF	6	8.77E-16	0.61601878
-0.179107504	cg04066190	TFAP2A;TFAF	6	4.08E-14	0.68377509
-0.179094738	cg17707487	TFDP1;TFDP1	13	4.50E-10	0.7757581
-0.178657078	cg21082644	TFDP1;TFDP1	13	1.86E-08	0.70317209
-0.178332932	cg21814995	TGFBR2;TGFI	3	0.00648968	0.59453879
-0.177741622	cg20629315	THADA;THAL	2	5.00E-05	0.52945941
-0.17770271	cg21679402	THAP4	2	1.86E-06	0.79867368
-0.177447542	cg14627862	THBS2	6	0.01552694	0.59386779
-0.177352946	cg16504696	THEMIS;THEI	6	3.36E-10	0.8399921
-0.176998098	cg05590818	TLK1;TLK1	2	0.00033821	0.52990582
-0.17655539	cg23206630	TLN2	15	3.37E-06	0.4919263

-0.17634676	cg06800962	TM4SF1	3	8.09E-06	0.40686583
-0.176337181	cg19056418	TMC8;TMC6	17	0.00096631	0.63492844
-0.176123256	cg03190661	TMC8;TMC6	17	1.33E-05	0.73519175
-0.175896586	cg00447208	TMC8;TMC6;	17	8.04E-06	0.63376316
-0.175678312	cg06630988	TMEM132B	12	2.84E-10	0.55320233
-0.175138375	cg19793904	TMEM132C	12	0.00024723	0.5448982
-0.175022237	cg02501166	TMEM132C	12	2.56E-11	0.58940269
-0.174683104	cg15936861	TMEM132D	12	1.27E-08	0.50082814
-0.174627644	cg13799986	TMEM141	9	5.86E-05	0.55578012
-0.174151484	cg06000732	TMEM144	4	2.74E-05	0.82252357
-0.174038554	cg15685988	TMEM201;T	1	9.27E-11	0.83441633
-0.173933718	cg17950169	TMEM63A	1	2.03E-08	0.32322262
-0.173555589	cg13672106	TMEM99	17	6.24E-05	0.71831268
-0.173024013	cg14918744	TNFRSF10D	8	8.26E-11	0.60332814
-0.172824965	cg15526535	TNFRSF1B	1	8.82E-08	0.45770836
-0.172800324	cg08048178	TNK2;TNK2	3	0.02260876	0.84127292
-0.172791675	cg04923875	TNR	1	2.86E-06	0.64270266
-0.172771686	cg14517056	TNRC18	7	4.39E-07	0.81656227
-0.172446957	cg01950495	TPPP	5	4.22E-05	0.49158865
-0.171893143	cg10177080	TPPP	5	3.23E-06	0.7702412
-0.171546417	cg14064762	TRAF1	9	3.90E-05	0.49998822
-0.171434643	cg11723904	TRAP1	16	0.00024927	0.70845974
-0.170743139	cg24062157	TRAP1	16	5.23E-05	0.75980378
-0.170468129	cg24317069	TRAPPC9;TR	8	2.42E-07	0.81082516
-0.170127031	cg02528189	TRAPPC9;TR	8	2.61E-06	0.49811419
-0.169970041	cg05583014	TREX1;TREX1	3	0.00026664	0.6326617
-0.169668489	cg14023589	TRHDE	12	1.07E-07	0.87492532
-0.16934158	cg06200244	TRIB2;TRIB2	2	1.52E-14	0.58512413
-0.169141286	cg13513229	TRIM14;TRIM	9	4.62E-07	0.57965232
-0.167377993	cg09409585	TRIM27	6	0.00023648	0.66530556
-0.16644879	cg20986887	TRIM27	6	3.27E-08	0.69459554
-0.166336196	cg11389756	TRIM27	6	1.28E-05	0.45483829
-0.166282662	cg10179300	TRIO	5	1.68E-08	0.83093162
-0.166275872	cg00277165	TRIP13	5	4.23E-09	0.86929709
-0.165937964	cg21500005	TRPC7;TRPC7	5	2.26E-11	0.78506095
-0.165733029	cg18062245	TRPC7;TRPC7	5	3.22E-07	0.30569796
-0.1657184	cg00530568	TRPC7;TRPC7	5	6.88E-10	0.66903324
-0.165706262	cg07379888	TRPM8	2	3.76E-06	0.87344905
-0.165636838	cg03388266	TRPM8	2	0.00017384	0.47951851
-0.16530064	cg23750361	TRPV1;TRPV:	17	7.58E-07	0.67861749
-0.165237404	cg01401641	TSHZ3	19	7.39E-06	0.56406116
-0.165148052	cg21663359	TSNARE1	8	1.03E-05	0.41603852
-0.164965874	cg11384744	TSPAN13	7	2.80E-05	0.44414537
-0.164936847	cg18044967	TSPAN32	11	4.86E-06	0.51380962
-0.164639937	cg14020320	TSPAN32;C1:	11	0.00024979	0.29338832
-0.164495974	cg06766636	TSPYL1;TSPYI	6	6.90E-08	0.48233709

-0.164494061	cg12620005	TTC39A;TTC3	1	8.56E-08	0.51895964
-0.164268719	cg02639095	TTC39B;TTC3	9	1.40E-05	0.56763633
-0.164137263	cg10062874	TTC7B	14	0.01659679	0.42629208
-0.163997755	cg14525390	TTC7B	14	1.55E-05	0.64595654
-0.163739308	cg04458567	TTL	2	3.64E-05	0.65720017
-0.163578503	cg25414370	TTLL8	22	0.00022457	0.45765593
-0.163479243	cg07031797	TTLL8	22	6.58E-11	0.79703526
-0.163174536	cg09057412	TULP4;TULP4	6	0.00034312	0.49067334
-0.163031575	cg23877497	TULP4;TULP4	6	2.37E-08	0.72645952
-0.162895198	cg12601856	TULP4;TULP4	6	0.00371709	0.61177289
-0.162373772	cg02060443	TULP4;TULP4	6	0.00038207	0.7745773
-0.161794974	cg13068216	TULP4;TULP4	6	0.000117	0.59550646
-0.161719721	cg04677937	TXN	9	0.00307997	0.81032638
-0.161682269	cg07450210	UBAC2;UBAC	13	0.00492874	0.72646589
-0.161367279	cg20555462	UBASH3B	11	0.00019229	0.67191339
-0.161278603	cg16635874	UBE2E3;UBE	2	1.72E-05	0.76563001
-0.161006313	cg09826973	UBL4B;UBL4I	1	1.12E-13	0.58409533
-0.160907645	cg18901104	UHRF1;UHRF	19	0.01233417	0.69174441
-0.160807912	cg03240473	UMODL1;UM	21	0.00619895	0.67018743
-0.160741916	cg09682183	UNC93A;UNC	6	9.57E-05	0.54848425
-0.160661883	cg07512971	USP3	15	2.22E-06	0.24667614
-0.160628359	cg22599514	USP3	15	2.40E-07	0.37649962
-0.160383013	cg10752190	USP43	17	9.29E-07	0.52352543
-0.160353009	cg13106430	USP43	17	7.00E-09	0.41596783
-0.160150105	cg06528737	USP6NL;USP	10	1.24E-05	0.70021182
-0.160029636	cg10853431	USP6NL;USP	10	1.35E-07	0.63245896
-0.160009974	cg18766900	USP6NL;USP	10	3.02E-07	0.62871007
-0.159910147	cg19109601	UTP20	12	4.56E-09	0.63595709
-0.159795497	cg14084888	UTP23	8	1.95E-07	0.86323747
-0.159674883	cg09305680	UTP23	8	6.63E-10	0.3777926
-0.159402004	cg20625138	UTS2;UTS2	1	2.46E-07	0.61971043
-0.159362967	cg17836145	VNN2	6	4.42E-06	0.34161478
-0.159330532	cg10044101	VNN2	6	9.44E-07	0.40745256
-0.158811128	cg13824500	VTI1A	10	1.18E-05	0.70019251
-0.158794549	cg22923514	VWA2	10	6.03E-07	0.59899004
-0.158634741	cg02107824	VWA2	10	1.38E-11	0.60430665
-0.158280998	cg23363263	WDFY1	2	0.00044845	0.40768073
-0.158114877	cg09897604	WDFY4;WDF	10	0.00019522	0.69931697
-0.158111453	cg27531366	WDTC1	1	7.38E-07	0.56056515
-0.158062683	cg17165848	WIPF1;WIPF	2	0.0449908	0.39751981
-0.157976085	cg05639533	WIPI2;WIPI2	7	7.02E-05	0.54336648
-0.157896525	cg13497926	WNK2	9	2.54E-06	0.40159078
-0.157878409	cg03630015	WNT10A	2	1.09E-05	0.66610269
-0.157661201	cg18562578	WNT5A	3	2.05E-09	0.50921845
-0.157481989	cg24216596	WNT5A	3	9.67E-08	0.6117556
-0.157262794	cg01777121	WNT5A	3	0.0001823	0.49781685

-0.157242598	cg02298472	WNT5A	3	3.42E-08	0.69574967
-0.157208001	cg20746482	WNT5A	3	3.00E-07	0.4547336
-0.157160411	cg04941246	WNT5A	3	3.63E-09	0.51323181
-0.157143984	cg06830692	WNT9B	17	1.53E-07	0.65188383
-0.156987045	cg20464884	WRNIP1;WRI	6	2.69E-08	0.75254691
-0.156834893	cg05941376	WWC1;WWC	5	0.00305083	0.6008911
-0.156812548	cg02559817	WWOX	16	2.89E-13	0.90176469
-0.156698321	cg07493562	WWOX;WWC	16	2.61E-05	0.40605424
-0.156659459	cg04215287	WWTR1;WW	3	7.96E-05	0.79314741
-0.156621586	cg18940763	XBP1;XBP1	22	1.50E-08	0.46394198
-0.155900141	cg11845168	XPO4	13	0.00921537	0.60564665
-0.15563161	cg02889774	XPO7;XPO7;	8	0.00869604	0.75936805
-0.155543272	cg00347643	YWHAG	7	0.02365282	0.57211037
-0.155438253	cg10738119	YWHAG	7	3.70E-05	0.71007525
-0.155355737	cg20457523	YWHAG	7	1.57E-07	0.53861342
-0.155200249	cg13616508	YWHAG	7	9.82E-06	0.81042611
-0.155090357	cg21364719	ZADH2	18	6.45E-05	0.73346874
-0.15496866	cg16353800	ZADH2	18	9.86E-08	0.82604362
-0.154937173	cg22088248	ZADH2	18	2.46E-11	0.86615389
-0.154898484	cg03972071	ZADH2	18	6.54E-15	0.80590389
-0.154831881	cg17518710	ZBTB16;ZBTE	11	6.98E-06	0.51100459
-0.154675543	cg19981243	ZBTB20;ZBTE	3	2.86E-09	0.57919371
-0.15454696	cg10532384	ZBTB38	3	2.28E-11	0.83731956
-0.154516928	cg14918743	ZBTB42	14	1.58E-07	0.58829115
-0.154432667	cg08380064	ZC3H3	8	3.68E-06	0.70752557
-0.154095868	cg19598713	ZC3H3	8	0.00027982	0.39576513
-0.154003866	cg07894883	ZCCHC24	10	3.46E-09	0.67711617
-0.153908029	cg17852032	ZDHHC14;ZD	6	4.36E-06	0.50326519
-0.153697935	cg27634344	ZFP42	4	3.19E-08	0.53470582
-0.153525462	cg08489478	ZFYVE27;ZFY	10	1.11E-09	0.80709221
-0.153522166	cg23859313	ZFYVE28	4	0.00013587	0.62665992
-0.153482712	cg23822407	ZHX2	8	1.13E-10	0.53989822
-0.153461309	cg02458516	ZMAT4;ZMA	8	1.27E-08	0.31419799
-0.153352947	cg23414595	ZMAT5;ZMA	22	8.38E-11	0.32985805
-0.15326627	cg03552937	ZMIZ2;ZMIZ2	7	3.47E-07	0.41461871
-0.153159151	cg05716726	ZNF204P	6	0.00060743	0.63490337
-0.152970543	cg02335656	ZNF423	16	2.83E-09	0.66393667
-0.152846279	cg17219326	ZNF445	3	0.00031178	0.34477655
-0.152798275	cg00698602	ZNF445	3	4.70E-10	0.61455829
-0.15271456	cg05024961	ZNF469	16	0.00047076	0.51187353
-0.152530869	cg03487027	ZNF503	10	5.07E-14	0.83174709
-0.152352103	cg13997975	ZNF503	10	2.94E-15	0.86569119
-0.152302925	cg12019801	ZNF516	18	7.37E-06	0.88688708
-0.152238395	cg08576185	ZNF598	16	4.22E-09	0.49146142
-0.152061492	cg05211189	ZNF598	16	2.17E-06	0.54458257
-0.152047141	cg05957504	ZNF608	5	0.0061078	0.55600232

-0.151814925	cg11964338	ZNF610;ZNF6	19	1.09E-08	0.64877548
-0.151775968	cg22598458	ZNF92;ZNF92	7	8.58E-06	0.42706038
-0.151641881	cg06000330		7	0.00397081	0.54523284
-0.15155728	cg04226804		1	8.08E-10	0.53703661
-0.151509045	cg21814185		4	0.0005584	0.58114137
-0.15149868	cg26885400		13	0.00025212	0.41106934
-0.151099988	cg09385093		2	7.26E-07	0.20654346
-0.15106272	cg15773072		3	1.95E-05	0.65149179
-0.150935783	cg14463995		9	0.00090078	0.48114101
-0.150932686	cg18122743		2	1.36E-06	0.63355459
-0.150888823	cg11869018		5	0.00059878	0.48785428
-0.150796086	cg17587456		6	0.00090661	0.60192257
-0.150717974	cg15897209		11	0.00019367	0.38257912
-0.15066614	cg14758812		10	0.00032825	0.60085381
-0.150126736	cg04508739		14	0.00074802	0.44470352
-0.149686748	cg05656990		13	8.65E-05	0.40582717
-0.149177853	cg24794669		10	0.00667766	0.62352228
-0.149076676	cg08498322		7	0.00018678	0.84594288
-0.149023637	cg00022054		1	1.72E-06	0.54702922
-0.148915221	cg25795290		10	6.01E-05	0.43441018
-0.148855292	cg02005873		6	0.00023147	0.29553119
-0.148757486	cg10898989		22	2.22E-06	0.42464201
-0.148639312	cg26068090		13	0.00025217	0.61783357
-0.148638146	cg06276810		6	0.00082351	0.66228335
-0.148156188	cg15654025		1	0.00041817	0.75636646
-0.148110874	cg11685134		19	7.13E-07	0.34589938
-0.147882584	cg01942106		16	5.60E-05	0.53092144
-0.147830405	cg11030264		17	0.00083829	0.74254455
-0.147703729	cg08422793		15	0.0257781	0.67537398
-0.147380877	cg14830791		6	7.19E-06	0.3496623
-0.1467929	cg04960065		4	0.0250768	0.7441775
-0.146691631	cg01491910		2	9.11E-06	0.35137336
-0.146688757	cg26283879		8	0.00356356	0.71777046
-0.146610924	cg06814469		1	0.00050495	0.478437
-0.14650907	cg27203560		3	0.00166378	0.84223462
-0.146498322	cg08543278		7	2.78E-14	0.48386719
-0.14628136	cg01708458		2	0.00040171	0.38661567
-0.146153108	cg20549620		2	0.00131088	0.74301551
-0.145933006	cg00720159		2	4.08E-05	0.77516198
-0.145913169	cg06137123		11	2.50E-11	0.87658431
-0.145875939	cg10276948		8	2.59E-06	0.59476985
-0.145799631	cg12100721		17	3.72E-06	0.23792683
-0.145700111	cg03982831		1	0.00024845	0.47872324
-0.145480995	cg18220920		12	0.00236582	0.22052459
-0.145467261	cg05895376		15	1.83E-05	0.2683537
-0.14515996	cg00392155		2	0.01218433	0.62504373

-0.144887529	cg08543028	12	0.00119863	0.80022045
-0.144883339	cg19396666	10	0.0024819	0.50262028
-0.144744747	cg12526091	12	6.17E-06	0.47860993
-0.144744595	cg08938448	9	7.86E-08	0.43602506
-0.144595918	cg01978937	20	0.00024177	0.81878496
-0.144543417	cg08683644	10	1.71E-05	0.31688402
-0.144439083	cg03464765	11	0.01006716	0.74686334
-0.144387757	cg11106652	4	7.64E-05	0.82011834
-0.144375539	cg17642941	7	0.01401617	0.85319251
-0.144317436	cg24935598	3	0.00043768	0.86096465
-0.144305192	cg01903420	13	2.52E-05	0.46055556
-0.144173725	cg09682128	13	0.00012888	0.33788801
-0.14411982	cg02650127	6	3.30E-05	0.31847781
-0.144111956	cg20778022	7	1.38E-05	0.75605392
-0.144063904	cg12039766	2	9.91E-06	0.42260203
-0.144020882	cg15582138	12	0.00293532	0.67813373
-0.144014626	cg16446721	2	1.95E-08	0.25624036
-0.143810444	cg08125436	16	0.00974894	0.46463425
-0.143806177	cg23080060	5	0.00175466	0.63042063
-0.143781267	cg13944018	17	2.41E-10	0.2792214
-0.143750127	cg23633059	1	0.00300646	0.77057415
-0.143744493	cg22166728	1	2.03E-07	0.36545509
-0.143669221	cg02490659	9	0.00072002	0.46489509
-0.143637834	cg25019989	4	2.04E-06	0.31447774
-0.142936251	cg15699099	2	0.00246331	0.52240812
-0.142747766	cg23190268	7	0.00931791	0.82480061
-0.142648383	cg19102120	5	2.44E-08	0.85565191
-0.142621645	cg07847452	16	4.12E-06	0.57936844
-0.142439279	cg24700929	12	2.56E-10	0.8465249
-0.142338942	cg04198042	17	1.01E-08	0.28976407
-0.142097228	cg18489994	4	0.01314519	0.39186267
-0.141993106	cg02319354	5	4.04E-08	0.3440265
-0.141937093	cg12883629	6	0.00139792	0.5971839
-0.141526806	cg14462369	6	0.03303307	0.51604858
-0.141383906	cg03055271	1	0.00454813	0.54439895
-0.141348758	cg19719391	4	6.83E-06	0.65188868
-0.141321956	cg06619938	12	3.04E-11	0.2644767
-0.141314923	cg11936809	8	0.0040882	0.55575674
-0.141264199	cg05081908	4	0.00072627	0.4436194
-0.141231031	cg17160525	6	7.86E-08	0.34749063
-0.141155482	cg11465213	15	0.00994085	0.64978315
-0.141027271	cg07076850	6	2.58E-07	0.39450668
-0.1410146	cg01246444	2	3.14E-06	0.41253482
-0.140820403	cg20625523	2	0.00012756	0.6421709
-0.140820245	cg14679668	8	0.00045907	0.44449959
-0.140672192	cg15989167	10	0.00017095	0.71408604

-0.140649808	cg05000994	7	1.73E-05	0.48468141
-0.140548534	cg14147498	9	2.04E-05	0.49848698
-0.140533292	cg12656085	2	0.00497211	0.58331103
-0.140439211	cg26241893	5	0.00165157	0.60656726
-0.140430075	cg05215481	2	2.20E-06	0.38294986
-0.140254474	cg21348406	17	0.00306065	0.71279863
-0.140201633	cg22004089	2	6.79E-07	0.80337897
-0.140114351	cg21393885	17	6.78E-05	0.74913871
-0.140010264	cg05339976	2	1.15E-05	0.50834755
-0.139856707	cg02516703	5	0.00032642	0.57989858
-0.139798295	cg09394306	2	1.28E-06	0.69932916
-0.139707375	cg05468948	6	0.00040222	0.4492905
-0.139646743	cg09894814	1	2.83E-08	0.83934428
-0.139572694	cg00197266	6	0.02212032	0.76962559
-0.139543475	cg02071418	4	1.02E-07	0.65016382
-0.139469799	cg06575772	8	0.00014343	0.74194794
-0.139407609	cg25156960	7	0.00039911	0.36628088
-0.139171898	cg10227629	1	5.31E-08	0.69707813
-0.139168138	cg04789475	4	4.55E-08	0.33866007
-0.139011177	cg14232108	9	0.03888454	0.59632446
-0.138715367	cg09317676	12	0.00164546	0.6804945
-0.138660554	cg19683821	10	0.00048935	0.81182916
-0.138614524	cg16097858	2	0.00511473	0.61422394
-0.138489091	cg05933510	1	0.00616104	0.79634737
-0.138163734	cg00291837	1	0.00103901	0.68013879
-0.13811574	cg25338818	18	0.00011451	0.66628495
-0.138081635	cg25601481	6	2.65E-06	0.56864349
-0.138075753	cg10234991	12	1.38E-07	0.39225106
-0.13806204	cg26538035	1	0.0003735	0.61662541
-0.13792912	cg03257930	9	0.00121155	0.83943446
-0.137853379	cg15244101	12	0.0019141	0.88245162
-0.137852299	cg05698294	2	0.01599617	0.6590057
-0.137602694	cg20366218	2	7.82E-07	0.67997389
-0.137415093	cg08980304	2	3.04E-08	0.70051789
-0.137322395	cg11874976	14	5.90E-12	0.64903395
-0.137259729	cg27584135	3	0.01302457	0.65669065
-0.136706548	cg21229570	12	0.00016862	0.22188805
-0.136695438	cg10163220	12	4.47E-09	0.57470478
-0.136640549	cg01612883	12	0.00011197	0.77416124
-0.136549689	cg14283944	12	4.56E-05	0.19274282
-0.136480406	cg07029024	11	0.00136858	0.59053048
-0.136462477	cg12934366	8	0.00014457	0.56817972
-0.136441026	cg27560481	17	6.12E-06	0.75207829
-0.136234671	cg12775181	7	6.30E-09	0.36876862
-0.13622867	cg02249233	2	0.00497774	0.54977867
-0.136168713	cg00931957	1	9.30E-05	0.76544165

-0.136035413	cg05937055	1	1.20E-06	0.5767397
-0.135956843	cg11958666	8	0.01384411	0.53530475
-0.135956481	cg12177851	15	0.00298927	0.7629937
-0.135953406	cg25471923	7	0.00093162	0.5241616
-0.135951729	cg03209395	7	2.10E-12	0.27978358
-0.135784311	cg15488963	2	1.49E-05	0.75069574
-0.135769949	cg08161142	13	0.01179134	0.75300288
-0.135725629	cg01510278	16	0.04683169	0.4411094
-0.135522003	cg26472938	2	4.50E-06	0.85375133
-0.1355169	cg13936452	1	5.00E-05	0.75945396
-0.135415946	cg23202167	19	0.00032188	0.52237419
-0.135329542	cg15899743	14	3.92E-05	0.3014746
-0.135192597	cg01240056	7	1.14E-06	0.29519631
-0.135107255	cg12830569	14	4.03E-05	0.75131864
-0.135077319	cg26235369	5	1.91E-06	0.62535907
-0.134942527	cg09091941	6	0.00282002	0.60197005
-0.134780833	cg24611709	7	1.85E-06	0.82854921
-0.13473847	cg15682797	8	0.00301196	0.70846941
-0.134690772	cg03149058	1	2.27E-07	0.69625536
-0.134675751	cg08178956	2	0.0018302	0.36296521
-0.1345459	cg21233675	12	0.00279379	0.73016125
-0.13441554	cg07296447	7	4.88E-08	0.3241671
-0.134266675	cg19566906	4	8.92E-11	0.78270967
-0.134231682	cg02063817	7	0.01675848	0.76229846
-0.134201548	cg21186560	9	5.86E-05	0.6499496
-0.134194204	cg21059878	4	0.00048667	0.65352255
-0.134132582	cg05908442	15	2.31E-05	0.36698561
-0.134132098	cg10086659	2	1.47E-08	0.84222493
-0.134068538	cg07211768	12	0.00776015	0.34136154
-0.133954923	cg09546889	2	5.04E-05	0.72761227
-0.133859315	cg26425256	2	2.28E-08	0.25133763
-0.133783798	cg04369350	7	1.03E-05	0.39192126
-0.133717222	cg25702651	3	0.01834283	0.37672147
-0.133513163	cg14495514	9	0.00140372	0.55765436
-0.133248682	cg12656681	5	0.03675244	0.57487903
-0.133245802	cg26076724	6	5.59E-11	0.68694075
-0.133217768	cg16976599	2	0.00218514	0.7081098
-0.132938307	cg08456051	4	0.00851887	0.48695981
-0.132853265	cg08823554	21	1.52E-14	0.87977742
-0.132671698	cg00632007	6	0.00025174	0.748307
-0.132613867	cg27426921	10	5.48E-08	0.48081162
-0.132534895	cg11694776	12	2.71E-06	0.71781989
-0.132227511	cg02924972	13	3.32E-05	0.75019192
-0.132210892	cg10103266	2	3.20E-12	0.26285239
-0.132171726	cg20536364	5	2.99E-08	0.82829563
-0.13211047	cg13106758	15	0.04615624	0.59415906

-0.132007022	cg26437203	5	1.31E-07	0.33627393
-0.131887895	cg11234447	5	1.52E-05	0.76227956
-0.131875589	cg27142530	4	0.00031089	0.48811215
-0.131845892	cg19034132	10	2.54E-05	0.57542626
-0.131824033	cg05342515	2	2.46E-10	0.28990128
-0.131682051	cg06655665	2	9.47E-05	0.50853601
-0.131420036	cg17180237	1	0.01177978	0.68358855
-0.131259898	cg26213663	6	0.00132807	0.67155131
-0.131106047	cg12133423	8	0.00130988	0.74967903
-0.130898828	cg01928206	2	1.89E-05	0.75793041
-0.130787939	cg19907968	7	1.92E-06	0.79417208
-0.130723977	cg12570032	11	0.00080235	0.72657776
-0.130657518	cg05988548	7	6.63E-11	0.32427104
-0.130588056	cg10108888	7	6.68E-07	0.80433738
-0.130580137	cg15476396	15	0.00061631	0.5447149
-0.130517177	cg20141398	1	7.40E-09	0.76018994
-0.130431999	cg10522770	7	7.11E-10	0.27237354
-0.130263324	cg27162882	7	0.00035775	0.78574507
-0.130245307	cg25773259	12	0.00785557	0.41305489
-0.130165488	cg13050802	3	5.58E-05	0.56498294
-0.129990087	cg05861512	14	2.78E-05	0.51381138
-0.129805975	cg02210967	7	7.77E-10	0.55779246
-0.129755664	cg08260398	1	0.00232416	0.71621338
-0.129736688	cg04341343	2	0.00121925	0.60721753
-0.129674226	cg01899355	2	1.03E-07	0.58171084
-0.129576748	cg20364222	8	0.00675103	0.40771775
-0.129569082	cg23605284	10	0.01807557	0.41748654
-0.129382659	cg12389397	1	4.87E-05	0.61570295
-0.12910476	cg16506426	5	0.0038303	0.80318925
-0.12907514	cg25243082	4	2.38E-06	0.54459608
-0.129056829	cg26785370	17	0.00038827	0.53243258
-0.12905321	cg23076949	12	0.00012032	0.58222739
-0.129034266	cg08056069	1	3.89E-07	0.23370343
-0.129033322	cg11502555	13	6.27E-08	0.26122146
-0.128927098	cg09467433	3	2.46E-05	0.60864691
-0.128838097	cg26573923	16	2.75E-05	0.59249001
-0.128732688	cg17993313	5	3.11E-09	0.85181957
-0.128703098	cg26875626	4	0.0010905	0.84713232
-0.128634213	cg10525394	6	3.30E-07	0.6007409
-0.128625801	cg03310906	20	4.85E-07	0.74321608
-0.128583698	cg13753662	17	1.28E-10	0.7801752
-0.128480558	cg26411222	12	0.007249	0.26258468
-0.128432825	cg10624395	11	0.00647552	0.41501347
-0.128365574	cg23464619	13	0.00400606	0.62191702
-0.128332082	cg03022510	2	4.54E-10	0.6939983
-0.128124418	cg26880708	11	0.00032507	0.54168275

-0.128072136	cg16497945	15	1.18E-05	0.70446372
-0.12794369	cg06005173	8	0.04923994	0.79455658
-0.127813727	cg16800228	15	4.23E-08	0.85220081
-0.12780641	cg16927416	8	0.00027477	0.54241782
-0.12769115	cg26780125	8	0.01301974	0.66386161
-0.127677104	cg19235893	2	8.20E-05	0.31370316
-0.127589662	cg14859350	14	4.88E-08	0.70035515
-0.127459356	cg25203286	18	1.09E-06	0.32346856
-0.127448374	cg09266144	14	3.97E-06	0.60615741
-0.127293619	cg09207762	6	3.54E-06	0.24874576
-0.127251689	cg01169559	10	0.00214951	0.4450913
-0.127126016	cg23198815	11	1.58E-06	0.70029941
-0.127112186	cg09205293	16	5.84E-09	0.61782219
-0.127068638	cg02707307	9	0.00023462	0.64688341
-0.127040062	cg15317129	3	2.35E-05	0.74034735
-0.126822726	cg05798996	7	2.21E-06	0.73242522
-0.126741897	cg21171610	4	1.24E-05	0.65683361
-0.126707028	cg26785499	1	8.38E-07	0.5382332
-0.12657592	cg12532966	5	3.64E-08	0.34210685
-0.126491017	cg20099104	10	5.91E-07	0.29305577
-0.126401417	cg23067466	3	1.23E-08	0.59675369
-0.126223977	cg25095187	2	3.42E-08	0.64349912
-0.126189559	cg14480446	5	4.71E-05	0.42142149
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-0.1259906	cg27620317	7	0.00013911	0.30185205
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-0.125814443	cg24052851	9	1.39E-06	0.90016966
-0.1256839	cg16966496	12	6.54E-06	0.30405339
-0.125669991	cg06910580	12	4.59E-05	0.53556946
-0.125575991	cg10979436	7	2.42E-05	0.59402642
-0.125556089	cg13564816	9	0.00426229	0.57358913
-0.125502529	cg07645809	6	6.69E-07	0.75452029
-0.125475582	cg22992137	2	1.48E-06	0.73035513
-0.125339289	cg11007850	2	5.88E-05	0.69999662
-0.125308939	cg09264231	1	0.01064823	0.64641135
-0.125241272	cg06371502	1	6.77E-06	0.3206207
-0.125196714	cg26013992	1	9.93E-05	0.69201935
-0.125158173	cg01231009	8	2.17E-07	0.77012132
-0.125110441	cg19580937	15	2.01E-06	0.78011218
-0.124985123	cg24969303	13	2.12E-07	0.72610143
-0.124905986	cg13543355	14	2.65E-06	0.41463911
-0.124741864	cg16873443	2	4.63E-05	0.42267484
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-0.124002743	cg07019835	7	1.93E-11	0.67375866
-0.123985006	cg16656979	15	2.68E-09	0.26601837
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-0.123550358	cg04560093	8	0.00644428	0.82151271
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-0.123404443	cg10244770	12	4.29E-05	0.64159907
-0.123372	cg16163826	11	4.30E-05	0.70443727
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-0.123229762	cg22026918	15	1.64E-05	0.6919107
-0.123044283	cg10932486	5	4.79E-09	0.49196396
-0.122981621	cg13746740	11	5.28E-06	0.76438127
-0.122893528	cg24899558	5	9.93E-07	0.76072741
-0.122814037	cg25496627	7	0.00067811	0.4108445
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-0.12240536	cg24155427	1	1.31E-07	0.45507186
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-0.120393537	cg14200631	14	1.05E-05	0.54502844
-0.120384598	cg08574915	17	3.50E-07	0.6253909
-0.120279542	cg04423493	14	0.00045233	0.44538783
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-0.12017737	cg12784272	17	2.19E-05	0.42892331
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-0.119806089	cg16776035	17	2.20E-08	0.34734501
-0.119791695	cg21740232	2	2.92E-06	0.44134554
-0.119774408	cg07621853	2	2.68E-05	0.8040289
-0.119727975	cg26407841	7	0.00524053	0.55301372
-0.119674408	cg00106345	7	0.00010489	0.58246166
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-0.119647552	cg08078751	12	3.37E-06	0.80975686
-0.119621466	cg07965110	1	6.30E-06	0.41746137
-0.119507533	cg16264616	12	1.82E-08	0.26720107
-0.11947722	cg08985530	12	0.0002237	0.63101326
-0.119063728	cg26752576	6	0.00238362	0.54773844
-0.119014083	cg04234923	5	6.84E-06	0.62250384
-0.119008065	cg25059408	22	1.76E-05	0.6853365
-0.119005769	cg21644489	15	9.62E-05	0.56582817
-0.118987605	cg13993183	9	2.23E-09	0.6061591
-0.118987407	cg16153549	2	6.75E-06	0.29705607
-0.118963762	cg16619576	2	0.01470428	0.48770516
-0.118894111	cg12977346	8	0.00178063	0.4543699
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-0.118700908	cg23462772	10	0.03126115	0.55061246
-0.118643038	cg08954863	10	1.72E-07	0.69915246
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-0.118086963	cg24420742	12	1.98E-08	0.79037128
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-0.117919303	cg01141339	5	6.54E-09	0.3198934
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-0.117611891	cg08244518	22	4.69E-07	0.69133662
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-0.117401741	cg08321483	4	2.17E-05	0.48771913
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-0.117277078	cg12153794	12	5.71E-05	0.25988964
-0.117154001	cg18692070	10	8.52E-05	0.67342134
-0.117135421	cg24936799	10	1.95E-06	0.5741845
-0.117118627	cg24617444	10	7.67E-05	0.4859668
-0.117089172	cg25943481	15	7.45E-05	0.5832572
-0.117069251	cg07948085	10	4.00E-06	0.66158286
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-0.116990844	cg09610558	16	2.10E-07	0.66820856
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-0.116955591	cg11332163	4	0.01696672	0.78670206
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-0.116779671	cg12668649	3	2.59E-06	0.67741194
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-0.116549031	cg14761514	12	3.96E-07	0.7698105
-0.11652947	cg09294739	16	2.55E-06	0.36847743
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-0.116344794	cg07311659	4	5.38E-09	0.27309578
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-0.116175071	cg22046201	1	0.00106556	0.62481775
-0.116097452	cg00602295	16	0.00511363	0.49626613
-0.116094587	cg10020890	16	1.33E-06	0.62971042
-0.116060345	cg17745697	2	7.15E-05	0.62419476
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-0.115889067	cg20268039	7	2.18E-05	0.30597755
-0.115819192	cg01924952	2	1.95E-06	0.404413
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-0.115587801	cg16017420	12	0.00125832	0.6009969
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-0.115337591	cg04522596	12	0.00060503	0.3932111
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-0.115143697	cg23843705	1	2.60E-05	0.7968595
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-0.114943261	cg07612923	3	0.00220674	0.32656273
-0.114939198	cg07673103	8	1.70E-07	0.39427522
-0.114909917	cg09265016	12	1.14E-06	0.75995316
-0.114898958	cg04224786	8	3.08E-07	0.43601131
-0.114870248	cg12741572	18	0.00114535	0.55277463
-0.11484151	cg03989749	5	6.12E-10	0.75160213
-0.114837966	cg00362657	21	0.00108625	0.62578201
-0.114810279	cg10665065	15	6.15E-08	0.57352509
-0.114557837	cg05777602	16	1.22E-06	0.75055984
-0.114517685	cg14533595	10	1.23E-11	0.84495327
-0.114493347	cg22521263	4	5.72E-05	0.46369515
-0.114487646	cg26944426	7	1.09E-06	0.61889702
-0.114425643	cg00317585	4	9.67E-06	0.55560029
-0.114310879	cg26076119	14	3.93E-08	0.38295083
-0.114295553	cg21077684	14	6.87E-07	0.27235799
-0.114179558	cg03510528	10	2.66E-06	0.43109699
-0.114122268	cg02164574	2	0.01291129	0.45457707
-0.114073314	cg15389025	12	0.00099617	0.47187361
-0.114017331	cg12417603	12	4.45E-08	0.2539895
-0.113895179	cg00161791	21	0.00146085	0.51153191
-0.113837628	cg21908664	1	0.00159038	0.49264777
-0.113737217	cg12443853	12	3.97E-09	0.39897338
-0.113567805	cg14779327	7	8.31E-07	0.76187027
-0.11337854	cg01871127	2	4.22E-11	0.28614256
-0.113361291	cg01413522	16	1.11E-08	0.26569507
-0.113272988	cg23101776	2	0.00031176	0.63079197
-0.113208482	cg15384383	10	8.94E-07	0.4655601
-0.113161869	cg22141235	11	2.58E-06	0.38947874
-0.113124412	cg15559833	2	0.01034197	0.40882386
-0.113030098	cg25516823	7	1.79E-05	0.5578128
-0.113029014	cg07613047	2	0.00036018	0.37275599
-0.113007409	cg02421824	12	0.00102536	0.69767866
-0.112999698	cg10598503	3	0.00038528	0.74587926
-0.112739447	cg09442613	12	5.14E-05	0.60621851
-0.112525291	cg11646762	5	3.48E-07	0.68041754
-0.112465707	cg11236727	2	8.87E-06	0.30558878
-0.112427179	cg13117164	4	9.52E-06	0.74214982
-0.112393558	cg03281981	12	0.00346725	0.3250857
-0.112390727	cg05678033	12	9.87E-07	0.80811491

-0.112351158	cg23262036	7	0.00123678	0.6313977
-0.112280895	cg00709966	7	0.00157112	0.84189653
-0.112227189	cg08281415	16	6.67E-05	0.61272709
-0.112223764	cg17874109	16	0.00285416	0.65943453
-0.112150044	cg00095859	7	1.43E-09	0.41382325
-0.112094984	cg07175255	10	3.14E-05	0.65820555
-0.111990216	cg02202923	10	0.00040298	0.6830547
-0.11176856	cg22336669	12	0.00085497	0.64737603
-0.111726002	cg07313701	1	2.35E-08	0.65960964
-0.111660275	cg06770878	2	2.55E-05	0.4151005
-0.111585107	cg14770102	11	0.0001293	0.37512542
-0.111538004	cg02563349	12	3.24E-08	0.69440271
-0.111536497	cg27657363	22	5.98E-05	0.54191505
-0.111532132	cg09093150	5	1.03E-08	0.56405257
-0.111518361	cg09729012	3	0.00287713	0.39394052
-0.111482466	cg02958014	12	7.06E-09	0.464974
-0.111427601	cg16359424	10	2.39E-08	0.78241066
-0.111330102	cg02958634	2	7.07E-08	0.26978131
-0.111329284	cg18093372	2	7.12E-07	0.28152992
-0.111205957	cg24455158	7	8.48E-06	0.7690548
-0.11119758	cg02646251	10	1.45E-08	0.60547118
-0.111170745	cg18436984	7	0.01134754	0.71613946
-0.111069219	cg17677490	10	0.00013579	0.39174133
-0.111019249	cg27360992	22	0.00601589	0.4804133
-0.110890551	cg17966560	1	1.03E-12	0.31719964
-0.110830865	cg26449119	15	1.30E-07	0.43881375
-0.110821718	cg01394884	4	0.00015864	0.38149799
-0.110803709	cg10520672	16	4.90E-05	0.31718786
-0.11073468	cg09505233	10	0.00039305	0.6394464
-0.110728168	cg03827835	5	1.09E-07	0.68964582
-0.110681915	cg13261306	18	5.97E-11	0.81462389
-0.110672499	cg25771113	3	3.05E-05	0.75171495
-0.11057913	cg24527591	3	1.38E-05	0.44770525
-0.110519697	cg12363472	6	8.52E-05	0.47982915
-0.110400077	cg20421940	6	0.00256462	0.55634209
-0.110369198	cg19541916	2	2.42E-05	0.35732148
-0.110215959	cg01529365	12	3.64E-06	0.22421924
-0.110207231	cg09690449	4	6.87E-06	0.68830383
-0.110151346	cg02916283	14	3.20E-10	0.78901342
-0.110116539	cg09941406	12	4.27E-10	0.2269921
-0.110076955	cg08820025	22	9.56E-09	0.43942349
-0.110032128	cg16560272	14	1.11E-14	0.82061746
-0.110009091	cg16658616	16	1.15E-06	0.76465411
-0.109919918	cg21106695	14	1.72E-08	0.80273759
-0.109887893	cg14580747	3	0.00820633	0.50017518
-0.109816596	cg11467506	7	6.48E-05	0.5788752

-0.10967501	cg15516052	11	1.33E-05	0.5353867
-0.109671394	cg26118358	14	0.0095028	0.5941773
-0.109655547	cg04615460	12	3.26E-08	0.50111924
-0.109648974	cg04075986	7	3.41E-05	0.48166702
-0.1096064	cg17082026	13	5.47E-05	0.68102083
-0.10947083	cg25461801	13	5.47E-07	0.57879039
-0.109432636	cg06597413	11	1.30E-05	0.60680627
-0.109418141	cg06957447	14	1.67E-05	0.611848
-0.109415878	cg18077580	7	8.98E-08	0.77729481
-0.109334405	cg19633390	13	1.72E-06	0.55246314
-0.109275929	cg12474686	10	1.43E-11	0.82824337
-0.109268538	cg00465247	13	0.0002568	0.53538756
-0.109263979	cg20328167	1	2.62E-08	0.55650973
-0.10924252	cg02938414	4	9.82E-14	0.31110097
-0.109197216	cg06217230	4	4.34E-08	0.89616258
-0.109165503	cg09524658	3	1.95E-05	0.45059822
-0.109062029	cg02651190	21	9.91E-06	0.51112244
-0.109036223	cg20208979	6	0.00041051	0.56278664
-0.109001972	cg19662895	14	9.90E-07	0.5183157
-0.108743073	cg11034978	11	1.60E-07	0.49168127
-0.108671805	cg17837192	2	4.98E-06	0.71164963
-0.108664411	cg18790325	12	1.49E-06	0.56990868
-0.108662222	cg19129687	13	7.36E-07	0.69175415
-0.108613298	cg13018639	14	3.25E-05	0.72443322
-0.108533324	cg13641317	3	1.54E-09	0.72286864
-0.108490188	cg14508405	2	3.80E-09	0.51332647
-0.108440024	cg16069079	15	0.00408379	0.76935876
-0.108424958	cg16684184	5	0.01488383	0.69863429
-0.108404718	cg11667061	14	0.00577203	0.52253463
-0.108388851	cg11654321	12	2.95E-10	0.83649596
-0.108280492	cg06934774	7	0.00157103	0.85691026
-0.108218294	cg06194070	9	0.00135355	0.61846204
-0.108209932	cg17511968	2	1.55E-07	0.71385788
-0.108090155	cg06228857	15	2.99E-05	0.57964065
-0.108063463	cg07734975	11	1.15E-05	0.59261362
-0.108061338	cg09239705	11	8.20E-07	0.64676851
-0.108033662	cg06300264	16	1.65E-08	0.70307015
-0.107954975	cg20421446	6	7.86E-09	0.87063253
-0.107941375	cg20248163	11	2.33E-11	0.5193902
-0.107873648	cg10454327	16	0.00036111	0.72995308
-0.107823776	cg09113474	6	1.81E-09	0.88549467
-0.107810487	cg23779604	7	7.97E-05	0.32585945
-0.107804363	cg17077610	10	0.03361283	0.60085918
-0.107694291	cg12828729	5	4.29E-06	0.48961663
-0.107675694	cg22063206	15	1.30E-09	0.58657588
-0.107540024	cg14082061	10	3.15E-09	0.64267437

-0.107370283	cg03318593	2	3.67E-11	0.35510331
-0.107333343	cg18064824	2	1.03E-10	0.58238994
-0.107276932	cg11711501	8	2.08E-12	0.6343408
-0.107267008	cg14229071	15	3.97E-14	0.84661442
-0.107139046	cg10263737	16	7.95E-07	0.54717061
-0.107131428	cg15073631	13	1.69E-05	0.45699423
-0.107105006	cg10244364	1	0.00014921	0.40926662
-0.107078714	cg09248694	11	0.00262399	0.58797612
-0.107027977	cg17030488	12	7.30E-05	0.5790102
-0.10672759	cg00574742	5	1.02E-05	0.39335187
-0.106674355	cg07745344	8	9.41E-11	0.73365915
-0.106511639	cg10595547	10	2.91E-05	0.39200112
-0.106471833	cg22725830	13	9.65E-06	0.54285378
-0.106429453	cg19994384	10	1.51E-06	0.48973257
-0.106357146	cg21165255	9	1.15E-06	0.72109261
-0.106354133	cg07213685	5	3.99E-10	0.53777028
-0.106295523	cg26115531	12	2.60E-13	0.47439602
-0.106277883	cg14977433	4	3.31E-07	0.53223209
-0.106269555	cg17202717	7	0.00068564	0.52750582
-0.106255697	cg03274671	11	2.03E-05	0.60951301
-0.106219769	cg24725789	10	1.88E-05	0.33869362
-0.106151784	cg06993255	8	1.07E-08	0.49270532
-0.10604272	cg19124424	7	2.36E-07	0.55877382
-0.10594274	cg04536588	10	5.24E-05	0.6209949
-0.1059423	cg19747745	21	7.10E-06	0.61134274
-0.105803686	cg15808063	2	7.21E-06	0.54934989
-0.105761141	cg13807254	9	9.91E-06	0.38099897
-0.105734963	cg05563558	12	6.03E-09	0.61655384
-0.105616271	cg17431023	7	2.70E-08	0.4733045
-0.10561107	cg05219726	13	0.00067559	0.76181942
-0.105595491	cg04927345	8	4.38E-10	0.73458302
-0.105564151	cg25394782	6	6.56E-06	0.68007247
-0.105504031	cg16790844	2	2.91E-09	0.76044817
-0.10549931	cg17976588	5	6.38E-05	0.64962421
-0.105408984	cg20952257	5	8.04E-05	0.47038367
-0.105397282	cg25036357	8	3.76E-17	0.89886451
-0.105340911	cg01933477	5	4.79E-10	0.7831572
-0.105270825	cg03373714	2	0.00019609	0.35668862
-0.105151077	cg03092680	6	1.88E-06	0.38029216
-0.105142417	cg24720008	10	6.69E-05	0.48407518
-0.105103762	cg05521150	4	8.82E-06	0.5985549
-0.105101224	cg06710259	5	2.31E-06	0.47428937
-0.105041668	cg04201253	2	1.14E-11	0.56277617
-0.105001728	cg13768137	2	3.50E-06	0.31237781
-0.104986872	cg18798289	5	1.42E-10	0.41012582
-0.104980711	cg13575139	3	1.70E-07	0.33887028

-0.104961226	cg02486332	12	4.45E-13	0.42358496
-0.1049536	cg25343618	1	2.49E-05	0.3727321
-0.104857117	cg12584528	17	4.82E-06	0.64682162
-0.104809916	cg14445366	17	6.33E-09	0.53072422
-0.104776028	cg23480730	14	0.00074411	0.717537
-0.104722307	cg14118946	9	1.90E-06	0.53121212
-0.104673947	cg01510218	22	2.88E-09	0.51356675
-0.104672129	cg09837088	10	1.24E-11	0.67509221
-0.104610202	cg06544162	6	6.86E-08	0.52698165
-0.104575435	cg17136073	13	1.52E-05	0.65162646
-0.104498797	cg23758252	10	3.50E-06	0.69199998
-0.104457309	cg26104083	6	3.14E-07	0.29638602
-0.104444879	cg25156915	4	9.28E-06	0.38409488
-0.104227036	cg21240684	2	4.90E-09	0.65259006
-0.104190257	cg22912997	12	1.51E-10	0.44078913
-0.104153651	cg09380805	3	4.44E-06	0.63457595
-0.104136334	cg16695576	6	6.40E-06	0.31593934
-0.104099703	cg08069287	11	8.38E-08	0.49368615
-0.104016625	cg00532399	5	4.39E-07	0.58164555
-0.104008141	cg09722315	6	0.00051587	0.60103603
-0.10397567	cg13175329	6	1.78E-07	0.6326753
-0.103969274	cg02141498	16	0.00046058	0.57333646
-0.103952405	cg16282618	11	6.08E-11	0.69448382
-0.103880066	cg17787288	2	6.90E-07	0.64662817
-0.103868811	cg12613020	5	1.82E-07	0.53421294
-0.103813736	cg17335387	5	7.87E-05	0.46161699
-0.103813447	cg26362263	6	4.24E-09	0.47753467
-0.103772954	cg07007165	17	1.29E-15	0.84085757
-0.103772885	cg17811608	2	6.85E-07	0.48686283
-0.103760147	cg20852250	3	8.82E-07	0.44895295
-0.103744286	cg00095523	12	0.00132374	0.44084002
-0.10370166	cg11772020	6	2.11E-07	0.44621031
-0.103623699	cg19837174	10	5.59E-09	0.37464529
-0.103597344	cg02544658	21	8.03E-05	0.47316994
-0.103573229	cg22727965	7	6.12E-06	0.417427
-0.103564874	cg18640514	7	2.10E-05	0.47939227
-0.103491727	cg21507299	5	6.76E-05	0.73347054
-0.103387229	cg06876766	12	2.00E-11	0.71755301
-0.103370072	cg23640925	1	3.31E-07	0.48080143
-0.103351249	cg07834841	10	4.88E-11	0.71529001
-0.103336497	cg24025721	7	2.50E-10	0.47074315
-0.103328154	cg11438134	21	1.37E-08	0.80741835
-0.103301624	cg00369181	2	3.30E-09	0.60448132
-0.103278945	cg05876824	6	4.47E-07	0.69269359
-0.10323699	cg03256597	19	6.42E-15	0.70650762
-0.103219983	cg15996644	12	5.54E-12	0.53177006

-0.10321467	cg05801374	1	1.05E-07	0.58710544
-0.103196615	cg04700055	5	9.95E-07	0.60681963
-0.103174933	cg06918928	12	6.45E-07	0.41242697
-0.103109144	cg16531181	10	2.47E-08	0.80320798
-0.103097793	cg12756312	11	3.41E-09	0.83959556
-0.103042473	cg15198736	5	8.21E-05	0.77218322
-0.102972367	cg11202887	13	2.64E-07	0.51229245
-0.102971534	cg03677126	5	7.09E-06	0.61146562
-0.102944296	cg11928184	6	2.55E-08	0.74151894
-0.102889831	cg13654797	12	2.21E-12	0.45563198
-0.102889161	cg04697265	11	9.83E-05	0.40616183
-0.102855944	cg13038618	14	3.60E-08	0.38410859
-0.10285261	cg12799790	10	9.85E-08	0.57971657
-0.102741592	cg00310410	2	9.15E-11	0.37100157
-0.102667597	cg22049902	6	6.98E-09	0.87317572
-0.102658215	cg20463533	10	3.07E-07	0.76737661
-0.102648563	cg08663890	1	6.98E-06	0.57988234
-0.102645429	cg16642063	2	1.12E-10	0.70922625
-0.102598716	cg01043845	2	8.97E-07	0.82648925
-0.102557391	cg09221159	10	0.00015007	0.34898974
-0.102537463	cg07201717	1	2.74E-06	0.52852464
-0.102463383	cg26195356	5	1.02E-08	0.40051374
-0.102280783	cg27152312	7	1.88E-07	0.61342695
-0.102273321	cg13934308	12	0.00204683	0.42094591
-0.102191089	cg14569644	12	1.30E-06	0.2955035
-0.101867746	cg16498504	11	1.20E-10	0.84224128
-0.101819264	cg25160899	12	1.32E-10	0.3314541
-0.101713836	cg01519253	12	8.57E-13	0.24370151
-0.101692274	cg04562589	4	3.15E-08	0.57266687
-0.101689705	cg05970547	4	1.39E-09	0.86616669
-0.101675453	cg04495313	4	2.22E-05	0.42430772
-0.101647547	cg19857407	7	1.33E-09	0.64704827
-0.101629007	cg10787919	3	9.33E-07	0.52857587
-0.101547574	cg00664697	16	7.00E-06	0.36202472
-0.101472045	cg06878548	8	1.31E-11	0.68189732
-0.101459606	cg13523731	17	0.00052021	0.54994555
-0.101391299	cg03223172	2	2.42E-06	0.51525712
-0.101381283	cg20219053	11	3.35E-06	0.46217939
-0.101348966	cg27523087	10	1.55E-07	0.44094649
-0.101325086	cg03429569	2	5.27E-05	0.61331481
-0.101236239	cg23322546	2	6.48E-13	0.85635415
-0.101221586	cg15806306	11	4.73E-06	0.47897377
-0.101201521	cg18472549	8	8.63E-06	0.75576783
-0.10115218	cg25930440	8	1.34E-12	0.45836035
-0.101106471	cg15294263	21	1.83E-07	0.49196456
-0.101084937	cg07725206	1	2.43E-10	0.35686985

-0.101046882	cg10017260	10	0.00013399	0.63571229
-0.101037494	cg01947769	1	1.20E-08	0.49657019
-0.101015305	cg25575845	7	4.52E-08	0.67210741
-0.100989529	cg12501995	7	1.21E-07	0.66484736
-0.100987687	cg20940675	1	1.44E-05	0.45904293
-0.10090743	cg09113483	1	1.43E-07	0.34005061
-0.100858462	cg00790071	2	8.17E-11	0.6789274
-0.100758343	cg14260169	10	0.00112351	0.47620136
-0.100754786	cg16809762	16	0.00019064	0.47058161
-0.100748613	cg13081526	6	0.00018932	0.43057948
-0.100746781	cg04111577	11	3.48E-05	0.5856209
-0.100693898	cg05832070	7	1.39E-13	0.64348379
-0.100663371	cg26963632	16	3.29E-09	0.50271307
-0.100658299	cg10809958	7	0.00363931	0.62713128
-0.100647291	cg09214892	16	2.21E-07	0.79353182
-0.100628791	cg22673064	5	2.85E-06	0.38998671
-0.100532179	cg19517470	6	1.88E-07	0.55295726
-0.10053093	cg02305412	1	2.01E-06	0.63995904
-0.100498415	cg10795646	1	2.25E-06	0.37141497
-0.100418066	cg00604112	7	0.00046071	0.67121483
-0.100360753	cg08601192	10	4.00E-08	0.79027271
-0.100342323	cg11719362	7	1.49E-06	0.38240817
-0.100342085	cg24390428	17	7.25E-09	0.75532589
-0.100338436	cg09791621	16	1.06E-08	0.52336721
-0.100283516	cg27614376	3	1.38E-05	0.58867007
-0.100181411	cg19257832	11	1.25E-14	0.37677816
-0.100162821	cg15772157	10	0.00090156	0.79537705
-0.100152317	cg14552508	2	9.54E-12	0.63170579
-0.100121785	cg04869006	10	2.06E-10	0.45293719
	cg15258447	10	2.50E-07	0.57436018
	cg01984854	16	5.11E-07	0.52698495
	cg01355932	8	5.85E-10	0.65976757
	cg12397584	12	1.23E-16	0.92058802
	cg00879824	6	1.28E-06	0.57105804
	cg19730699	10	6.66E-10	0.47858757
	cg02393107	1	1.10E-11	0.36959525
	cg05545441	4	2.23E-09	0.34460002
	cg12042203	8	4.78E-12	0.46670853
	cg22117825	4	4.97E-07	0.71286179
	cg24030485	13	1.34E-07	0.5902757
	cg23745444	12	2.51E-05	0.73911838
	cg00205813	3	0.02650564	0.74695639
	cg15512289	1	5.53E-08	0.45836412
	cg18890892	12	1.32E-08	0.79412783
	cg20037088	7	8.30E-11	0.44239517
	cg03652525	3	5.93E-07	0.51430174

cg27492584	17	7.58E-05	0.51181086
cg13672200	12	6.96E-06	0.30835776
cg13824319	11	1.51E-10	0.74442891
cg23986620	2	1.11E-09	0.89643946
cg20207443	3	4.12E-07	0.54471045
cg16598508	16	2.74E-06	0.46541119
cg12524338	4	0.0019696	0.7245709
cg04213900	14	2.67E-09	0.74541104
cg16155923	6	1.19E-08	0.59854177
cg26343001	12	1.18E-05	0.55177882
cg07782112	2	5.26E-06	0.39666879
cg20982052	12	5.06E-11	0.78239357
cg19763682	13	8.33E-09	0.71402538
cg11002208	2	3.59E-05	0.56932935
cg21297493	1	3.50E-15	0.34471496
cg10096566	14	1.14E-13	0.42565025
cg23332827	11	1.40E-08	0.54150034
cg10987774	1	3.98E-12	0.81623888
cg13291570	8	1.17E-07	0.37161657
cg23314826	8	1.14E-14	0.84487825
cg22784078	6	8.62E-10	0.57458076
cg14434755	12	0.00031787	0.45508231
cg26267388	2	7.63E-10	0.45680862
cg14210817	13	3.14E-06	0.49824069
cg21770800	6	4.08E-08	0.45169946
cg27057027	7	4.95E-06	0.6148276
cg01551013	14	5.09E-07	0.43638895
cg09168808	12	9.29E-09	0.43638508
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cg21752211	7	1.03E-06	0.47075078
cg07005778	4	1.57E-08	0.39238385
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cg02244233	10	5.44E-07	0.50440957
cg00451491	2	1.27E-08	0.67834311
cg19451167	7	3.12E-10	0.69999423
cg09225462	6	7.78E-08	0.42001909
cg17774672	7	3.30E-05	0.48623289
cg24842815	8	1.74E-06	0.46356384
cg03532904	12	1.41E-06	0.28548729
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cg24048949	19	6.80E-13	0.55722607
cg14328408	9	7.14E-08	0.60162368
cg21479131	12	9.27E-11	0.69449281
cg18406000	6	2.96E-07	0.48018395
cg19394510	12	1.12E-11	0.658826
cg01834856	7	7.45E-08	0.73500783

cg19514381	7	1.17E-08	0.83387651
cg18417901	11	4.88E-05	0.59744744
cg00506828	4	3.50E-08	0.79138187
cg15741354	8	1.96E-08	0.44864248
cg17694351	7	0.00985648	0.69505794
cg25473201	6	5.83E-09	0.59614968
cg25278353	10	1.22E-09	0.75218997
cg02694521	13	8.89E-11	0.74543492
cg04492459	17	5.17E-06	0.56065452
cg16388178	4	4.95E-06	0.74491015
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cg08959182	5	2.23E-12	0.77523376
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cg25830548	6	8.23E-06	0.49943486
cg10421739	6	2.03E-07	0.64380288
cg13995497	2	2.09E-07	0.65648489
cg14250846	14	3.65E-11	0.5489704
cg17432647	5	4.98E-07	0.60909112
cg19704630	17	2.40E-16	0.83866549
cg16609260	12	2.42E-09	0.3675905
cg07779423	5	1.11E-06	0.59029215
cg01162224	16	7.84E-10	0.43601892
cg17537347	6	3.17E-06	0.62791447
cg06591613	5	2.23E-05	0.55682419
cg20481247	10	2.52E-10	0.78789505
cg05128922	12	2.75E-08	0.30348514
cg11236841	4	8.81E-10	0.46126234
cg11110759	14	3.88E-11	0.5038705
cg04799980	2	1.20E-05	0.60364694
cg08777421	7	2.12E-08	0.49512632
cg05817443	13	4.98E-11	0.68188996
cg15418593	14	5.89E-13	0.66396353
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cg01863398	6	0.00076529	0.56790803
cg09430738	3	1.41E-05	0.60779865
cg05283379	7	7.28E-08	0.47921441
cg05222995	12	2.03E-09	0.45532337
cg23612072	17	9.11E-10	0.47449009
cg10462643	6	8.14E-12	0.84975606
cg26943056	5	3.78E-15	0.86438861
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cg13441766	5	3.91E-11	0.41262903
cg06354392	2	2.44E-07	0.32638114
cg18944451	2	1.43E-09	0.46088115
cg00192220	16	1.24E-08	0.52577965

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cg12504882	2	5.20E-17	0.56703275
cg00238805	2	4.35E-13	0.76125601
cg16016888	2	4.99E-06	0.84605182
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cg19907293	2	1.85E-07	0.68826811
cg16469927	5	1.84E-05	0.58943078
cg03130530	2	2.97E-09	0.63981471
cg20906291	6	2.65E-12	0.42495226
cg24360892	13	1.38E-09	0.48891732
cg12219434	3	2.83E-10	0.43995255
cg27250634	6	9.04E-09	0.6646446
cg03383508	2	1.94E-10	0.43241312
cg21800284	12	1.01E-06	0.56364893
cg12310008	2	9.50E-09	0.61462576
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cg26471674	12	2.02E-08	0.41787513
cg08818377	7	1.22E-08	0.62244196
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cg20643952	12	3.04E-14	0.40334249
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cg22327646	12	6.56E-13	0.3548484
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cg20346503	2	9.10E-09	0.40647294
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cg08254359	12	7.14E-12	0.85848242
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cg07209009	2	5.30E-10	0.7501733
cg05525812	2	8.46E-12	0.79188655
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cg11302945	12	1.22E-10	0.54622773
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cg03218797	12	2.81E-08	0.51233836
cg10330950	2	5.18E-11	0.55885134
cg02327563	2	9.39E-10	0.74268978
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cg18712566	13	2.58E-12	0.71340807

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cg11444009	4	9.65E-13	0.59489805
cg19091036	12	2.22E-13	0.40931843
cg15584084	4	7.58E-12	0.7014206
cg08091328	12	6.64E-09	0.42276519
cg08355659	12	4.84E-14	0.82602978
cg18450319	7	8.47E-19	0.52787547
cg10932916	5	5.22E-13	0.68989427
cg10143823	14	1.81E-10	0.67623196
cg06929583	10	3.62E-14	0.60493995
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cg01471264	2	8.14E-09	0.59249681
cg10160614	2	1.04E-11	0.69900373
cg02506248	12	4.31E-11	0.57722897
cg11433866	12	2.76E-07	0.53716417
cg08548444	4	8.30E-12	0.82258928
cg14940165	2	5.18E-11	0.77170039
cg04392715	8	1.07E-13	0.71392581
cg01471428	12	4.58E-11	0.65046961
cg11412853	12	1.92E-06	0.46172661
cg14156498	9	2.59E-11	0.63918671
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cg24415066	4	1.97E-09	0.7860791
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cg25033380	12	6.32E-08	0.6186447
cg19575753	5	4.57E-07	0.69893982
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cg04032071	12	2.18E-14	0.46033751
cg04528829	12	7.61E-09	0.50374931
cg15990972	2	2.96E-08	0.79396841
cg19128113	4	4.29E-10	0.81427025
cg03401519	2	4.66E-13	0.75820233

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cg05266564	2	1.75E-08	0.55697778
cg10477905	2	1.54E-10	0.69243421
cg11775124	2	1.77E-11	0.48468235
cg03736795	4	1.33E-14	0.54995777
cg09590068	12	5.93E-07	0.69802241
cg12437821	12	2.24E-12	0.41244053
cg00423598	7	1.29E-17	0.70240124
cg21661379	2	2.86E-14	0.49393856
cg10297792	12	7.58E-12	0.70664313
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cg14123543	12	3.37E-10	0.46379757
cg13180315	2	4.00E-13	0.68349102
cg24800883	5	6.57E-15	0.65159204
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cg11692124	17	5.36E-12	0.54986973
cg11869862	15	1.71E-12	0.68576085
cg12756504	15	1.33E-12	0.75211872
cg10546817	14	1.67E-09	0.5546951
cg19067025	15	2.53E-13	0.79618217
cg16482878	15	2.45E-13	0.51113531
cg02140384	1	4.65E-12	0.73070222
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cg23442672	12	6.58E-11	0.51198549
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cg18677101	12	2.30E-13	0.56196525
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cg25935375	12	6.42E-17	0.69657489
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cg06821999	14	4.08E-11	0.661881
cg20249252	12	3.48E-17	0.65111678
cg22237668	12	3.20E-19	0.72992942
cg03104083	12	4.76E-16	0.76276776
cg07136646	12	8.55E-16	0.68144058

Mean β- value OA hip	Delta Beta
0.4834658	0.158019461
0.42652501	0.124869877
0.47854985	0.11869012
0.4585353	0.10307411
0.69535081	0.102892768
0.19939811	0.126768649
0.71717233	0.117099192
0.64494435	0.11923581
0.26862948	0.166179704
0.34014291	0.139015685
0.2256487	0.111353762
0.27279069	0.25824151
0.56553322	0.101382242
0.34500609	0.107764809
0.19708549	0.123546999
0.26849451	0.113460843
0.41156189	0.103851207
0.70932008	0.102805193
0.68280999	0.109559257
0.72313228	0.108431462
0.54414736	0.117350411
0.47024921	0.159451047
0.28527274	0.126415847
0.7296968	0.115746818
0.31063568	0.108923648
0.3224554	0.112542723
0.42204898	0.123202348
0.6218087	0.130958781
0.63093394	0.159104907
0.46914212	0.166689396
0.58502214	0.19225894
0.41885078	0.210439484
0.66950407	0.100018829
0.61624032	0.12764353
0.50255812	0.163168746
0.59072756	0.111855786
0.38776761	0.12201238
0.399349	0.106922616
0.27799102	0.112226447

0.67085447 0.102053742
0.29105735 0.107141121
0.52938654 0.103094894
0.18388046 0.131848379
0.63441346 0.10212193
0.3946569 0.120944042
0.58961346 0.141218346
0.36749337 0.145236573
0.36534795 0.104389656
0.57295899 0.125893464
0.38673483 0.104380018
0.54219032 0.118257976
0.2595842 0.116675668
0.44794056 0.105787551
0.27146669 0.126246562
0.33431617 0.179868679
0.39903989 0.14232443
0.52255547 0.163096238
0.57942375 0.102517335
0.64514385 0.105228379
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0.30361907 0.158663367
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