

Supplementary Table 3. DMLs identified between NOF and OA hip samples.

## Hypermethylated in Osteoarthritis

Probe	Gene	CHR	adj.P-value	Mean $\beta$ -value NOF	Mean $\beta$ -value OA.Hip samples
cg25710107	A2LD1	13	0.024211344	0.338919552	0.483465798
cg13776095	A2LD1;A2LD1	13	0.005558868	0.503828811	0.6233095
cg07431888	ABAT;ABAT;AE	16	0.001801364	0.447215952	0.560527972
cg06604249	ABAT;ABAT;AE	16	0.005736344	0.323381495	0.461758467
cg07372195	ABCA5;ABCA5;	17	0.016246651	0.613640907	0.732126344
cg00241432	ABCC4;ABCC4	13	0.023003589	0.418094094	0.573381365
cg27243685	ABCG1;ABCG1	21	0.001122543	0.520888398	0.644944346
cg25046274	ABLIM2;ABLIV	4	0.016695089	0.390874965	0.516148593
cg05633070	ABR;ABR;ABR	17	0.002417693	0.438594034	0.571668987
cg04724319	ABR;ABR;ABR	17	0.001006849	0.281265711	0.402898075
cg10370025	ABR;ABR;ABR	17	0.041606855	0.196691618	0.30342455
cg10803453	ABR;ABR;ABR	17	0.005677421	0.461352231	0.565335373
cg03131556	ABR;ABR;ABR	17	0.000707562	0.233271248	0.336188557
cg01760189	ACACA;ACACA	17	0.016840584	0.388525579	0.544621147
cg08931456	ACAP2	3	0.014037334	0.452701345	0.565533217
cg19414302	ACAP3	1	0.003785647	0.395501214	0.531590913
cg02506501	ACAP3	1	0.022172169	0.61890423	0.723486699
cg02583796	ACBD3	1	0.006287503	0.517445472	0.636484709
cg08614334	ACCN4;ACCN4	2	0.000949254	0.424939819	0.577054992
cg10710218	ACOT11;ACOT	1	0.011770232	0.565956463	0.694474826
cg26869512	ACOX3;ACOX3	4	0.007758229	0.421701426	0.602103567
cg24597207	ACOX3;ACOX3	4	0.003707341	0.565785408	0.689467203
cg18038894	ACSF2	17	2.25E-06	0.233991068	0.411561894
cg22002216	ACSF2	17	0.005589823	0.401303262	0.504359761
cg15871766	ACVR1B;ACVR	12	0.000907611	0.417701986	0.526422535
cg12845177	ADAMTS10	19	0.021253833	0.514030287	0.648036258
cg08709863	ADAMTS14;AC	10	0.034602099	0.53793513	0.643527972
cg24368226	ADAMTS17	15	8.75E-05	0.13803795	0.285272743
cg17212277	ADAMTS2;AD	5	0.008134325	0.474354319	0.58124893
cg06944693	ADAMTS8	11	0.000452509	0.489106467	0.595809321
cg13468759	ADAMTSL1;AD	9	0.03817897	0.355642084	0.510912183
cg16419019	ADARB2	10	0.010827539	0.407039591	0.515019253
cg01397065	ADAT3;SCAMP	19	0.008660745	0.268570614	0.418850778
cg19254118	ADAT3;SCAMP	19	0.006082154	0.491003226	0.630933939
cg20243900	ADAT3;SCAMP	19	0.01032549	0.455617539	0.585022143
cg00061520	ADCY9	16	0.007387708	0.337581099	0.52500444
cg03532879	ADIG	20	0.010744075	0.49459553	0.616252795
cg01012879	ADSS	1	0.013611736	0.681017322	0.790520991
cg21571135	AFF1;AFF1	4	1.00E-04	0.555169207	0.698454296

cg17875845	AFF1;AFF1	4	0.033123194	0.35701524	0.486945251
cg07164047	AGAP1;AGAP1	2	0.003770448	0.438962226	0.561631245
cg12859101	AGPAT6	8	0.027579388	0.440159327	0.543672429
cg06483820	AKAP1	17	0.013516259	0.477214306	0.602457276
cg21156756	AKAP6	14	0.000642263	0.713779	0.841219285
cg26824516	ALDH1A3	15	6.42E-05	0.231078205	0.349554962
cg11542394	ALDH1A3	15	0.009303791	0.627888092	0.7399852
cg10504066	ALDH1A3	15	0.005979699	0.483791435	0.592725581
cg23191950	ALDH1A3	15	0.042365302	0.399996353	0.500845642
cg12491555	ALDH8A1;ALDI	6	0.016532882	0.219751325	0.348334982
cg09795087	ALG14	1	0.002711637	0.293226601	0.399353102
cg10888461	ALPK1;ALPK1	4	0.003120092	0.351066168	0.504513549
cg03364781	ALPK1;ALPK1	4	0.005228749	0.579786617	0.693678206
cg27614534	ALPK2	18	0.000749526	0.532947347	0.656304562
cg00031779	ALPK2	18	0.038952059	0.283476317	0.394656901
cg00061629	ALX4	11	0.00019509	0.389250349	0.541297702
cg20406747	AMHR2;AMHR	12	0.036518812	0.203459381	0.317564223
cg18364120	AMICA1	11	0.012248457	0.499023343	0.637352248
cg09713896	AMOTL2	3	0.028965652	0.544380257	0.649607773
cg22308970	AMPH;AMPH	7	0.006638611	0.451095407	0.572958993
cg07677598	ANK2	4	0.04774186	0.418330859	0.542190324
cg24332570	ANK3	10	0.00056751	0.48961079	0.613131044
cg12354377	ANK3	10	0.003745012	0.545745714	0.646104064
cg09486407	ANKRD11	16	0.004337046	0.337111193	0.516823108
cg02917156	ANKRD11	16	0.001318156	0.477554594	0.607163599
cg01543603	ANKRD11	16	0.002235844	0.162983215	0.271466694
cg01167578	ANKRD11	16	0.005359893	0.334734294	0.437877421
cg10343327	ANKRD2;ANKR	10	0.003606401	0.390762496	0.530302753
cg22889914	ANKRD2;ANKR	10	0.00749051	0.383707319	0.522555472
cg02950892	ANKRD2;ANKR	10	0.009153227	0.284649455	0.399039892
cg02538681	ANKRD22	10	0.019861378	0.738769792	0.839923899
cg12284836	ANLN	7	0.012491319	0.397754149	0.53976705
cg03613003	ANO1;ANO1	11	0.01152239	0.233608623	0.370837103
cg20883194	ANO6;ANO6;A	12	0.047363799	0.115072737	0.222141508
cg24192660	ANO8	19	0.000239883	0.150746841	0.285971582
cg12526923	ANO8	19	0.001917807	0.215853603	0.341430876
cg13042288	ANPEP	15	0.006011049	0.544557964	0.691428644
cg24530041	ANPEP	15	0.03967596	0.343159592	0.454199979
cg16326777	ANTXR2	4	0.039023549	0.498790445	0.649908148
cg03164800	ANTXR2	4	0.006068642	0.424969845	0.567305191
cg15892650	ANXA6;ANXA6	5	0.000600748	0.283262626	0.398989684
cg00390511	AOAH	7	2.80E-05	0.364752347	0.528004413
cg16858211	AOAH	7	0.001585583	0.594396494	0.709191161
cg27205902	AP2A2	11	0.000817116	0.255207017	0.502842136
cg14389139	AP2A2	11	0.0034081	0.467801996	0.604911382
cg15908627	AP2A2	11	0.047759248	0.402779105	0.529148085

cg04880138	AP2A2	11	0.000498735	0.229473439	0.337720031
cg15989892	APBB2;APBB2;	4	0.010348157	0.587560213	0.701244345
cg17548735	APOBEC2;APO	6	0.02444669	0.272755427	0.391757519
cg24424889	APOBEC3H;AP	22	0.001308222	0.354366306	0.495910066
cg16546724	ARCN1;ARCN1	11	0.003261043	0.48440036	0.641905803
cg26282731	ARHGAP10	4	0.001874089	0.114305671	0.258399319
cg01381498	ARHGAP10	4	0.01723909	0.253423348	0.379026719
cg12058385	ARHGAP15	2	5.01E-05	0.251015459	0.408697346
cg17600630	ARHGAP15	2	0.022552378	0.201578465	0.302110355
cg14575356	ARHGAP18	6	4.26E-05	0.114647251	0.269606446
cg09023869	ARHGAP22	10	0.00425592	0.412622654	0.519357869
cg20784207	ARHGAP24	4	0.000579568	0.338464952	0.516279932
cg22062741	ARHGEF10	8	5.15E-05	0.52861141	0.718471935
cg20149022	ARHGEF10	8	0.000282053	0.227240365	0.406354832
cg03705571	ARHGEF10	8	0.003388613	0.218385509	0.374941405
cg01824603	ARHGEF10	8	0.014921066	0.348086363	0.498183937
cg06807837	ARHGEF10	8	0.004411643	0.484693434	0.63476161
cg22223001	ARHGEF10	8	0.019659391	0.501679308	0.638447226
cg07694735	ARHGEF10	8	0.03204638	0.33900042	0.474780104
cg22511775	ARHGEF10	8	0.001233032	0.380111778	0.512452258
cg21869174	ARHGEF16	1	0.001658877	0.712720963	0.816609258
cg16734017	ARHGEF16	1	0.000619471	0.760306862	0.860989204
cg00877708	ARID1B;ARID1	6	0.006348285	0.497944668	0.641041293
cg15618758	ARID1B;ARID1	6	0.000401772	0.612703105	0.744444911
cg03561416	ARID1B;ARID1	6	0.014014378	0.178422419	0.282178043
cg10845391	ARL10	5	0.032962099	0.182694217	0.291655821
cg08240466	ASIP	20	0.006149732	0.342454425	0.497596354
cg26955287	ASPSCR1	17	0.027177468	0.344308934	0.500802337
cg12374579	ASPSCR1	17	0.029301493	0.315701699	0.455884667
cg22949575	ASPSCR1	17	0.007437768	0.493451495	0.633587634
cg09925620	ASPSCR1	17	0.00052105	0.619570337	0.742640549
cg23928512	ASPSCR1	17	0.005984423	0.430840833	0.551419003
cg10624462	ASPSCR1	17	0.021661189	0.313661688	0.433946877
cg14529412	ASS1;ASS1	9	2.25E-06	0.433703779	0.577600249
cg14388093	ASS1;ASS1	9	0.007067412	0.603400397	0.726297164
cg14010829	ASS1;ASS1	9	0.035599516	0.267988919	0.389257613
cg13792444	ASTN2;ASTN2;	9	0.032458604	0.238023646	0.357063052
cg02019508	ATF7;ATF7;ATI	12	0.007067412	0.336552473	0.474376227
cg00977707	ATG7;ATG7;AT	3	0.01813195	0.444704786	0.56664079
cg05471373	ATM;ATM	11	0.000532616	0.565337743	0.731451765
cg12139707	ATM;ATM	11	0.001867143	0.619905472	0.749795821
cg07622521	ATOH8	2	0.022735795	0.473992522	0.650660775
cg20839205	ATOH8	2	0.007200249	0.142308685	0.278404974
cg19484164	ATP11A;ATP11	13	0.000318761	0.702877219	0.846782733
cg14381255	ATP11A;ATP11	13	0.028764112	0.276168773	0.407904428
cg02873074	ATP11A;ATP11	13	0.013624842	0.305542356	0.420685623

cg19970086	ATP11A;ATP11	13	0.016348273	0.507990032	0.619645515
cg10883123	ATP11A;ATP11	13	0.037601078	0.368705129	0.475072521
cg07674485	ATP11A;ATP11	13	5.54E-05	0.712326928	0.817860554
cg13858127	ATP11A;ATP11	13	0.026328656	0.519059068	0.624270307
cg13104274	ATP1B1;ATP1E	1	0.001981094	0.359734904	0.525157951
cg27347003	ATP2A1;ATP2A	16	0.00702893	0.419195586	0.556764206
cg05883442	ATP6V0D1	16	0.001738702	0.216956651	0.319116133
cg03640051	ATP8A1;ATP8A	4	0.003181651	0.412286307	0.584737888
cg02286270	ATP8A2	13	0.010287566	0.505503303	0.628111838
cg16280399	ATXN1;ATXN1	6	0.024522607	0.279047463	0.439439789
cg00151370	ATXN1;ATXN1	6	0.000928912	0.153509836	0.28932858
cg26843612	ATXN1;ATXN1	6	0.046985565	0.357475522	0.485256168
cg17242362	ATXN7L1;ATXN	7	7.29E-05	0.252425044	0.446432421
cg20186907	ATXN7L1;ATXN	7	0.027062916	0.387176003	0.493950645
cg08474953	AUTS2;AUTS2	7	0.001055363	0.625986332	0.736513848
cg03037437	B3GNT7	2	0.004836081	0.304471941	0.422739141
cg07139527	B3GNTL1	17	0.003158336	0.594022114	0.735986103
cg24962672	B3GNTL1	17	0.017258315	0.333121502	0.473439601
cg11472422	B3GNTL1	17	0.037868322	0.204228845	0.341466653
cg19877683	B3GNTL1	17	0.02892347	0.361440799	0.48839164
cg23532322	BAIAP2;BAIAP;	17	0.024002715	0.315979234	0.430253847
cg09840386	BAIAP2;BAIAP;	17	0.027126518	0.210177931	0.340349563
cg12097330	BAIAP2;BAIAP;	17	0.000942674	0.615603666	0.744268896
cg26979299	BANP;BANP	16	0.001731195	0.396927744	0.547575207
cg01256999	BANP;BANP	16	0.005111119	0.624060079	0.73098003
cg09870004	BANP;BANP	16	0.036302312	0.206539006	0.306975071
cg15647614	BAT1;BAT1	6	0.016982188	0.550326865	0.650922607
cg10660666	BAT2L1	9	0.035620328	0.509818315	0.621762506
cg07703690	BBOX1	11	0.00191677	0.244010497	0.400094436
cg17192381	BCL2	18	0.006976375	0.462745575	0.577011413
cg12392126	BCL2L14;BCL2I	12	0.000213817	0.55434315	0.719143048
cg01963573	BEND3	6	0.010287583	0.358723869	0.473531804
cg13533456	BET3L	6	0.005016093	0.320350279	0.521791161
cg07360805	BLCAP;BLCAP;I	20	0.017424948	0.211251789	0.311498644
cg14579118	BLVRA	7	0.0022441	0.197746335	0.337136717
cg15020132	BMPER	7	2.45E-05	0.39086761	0.582073603
cg19051661	BMPR1A	10	0.03792822	0.597184279	0.698531157
cg23210521	BMPR1B	4	3.08E-05	0.346902379	0.595683521
cg02365648	BNIP3	10	0.001036221	0.160400536	0.333887903
cg10206933	BNIP3	10	0.000210109	0.639795359	0.756487253
cg05762616	BNIP3	10	0.000632691	0.657768482	0.765815967
cg06147895	BNIP3	10	0.030983721	0.191434163	0.297158232
cg22987267	BNIP3L	8	0.024461355	0.322587222	0.453645737
cg13071869	BOC	3	0.004307176	0.370557089	0.562023684
cg25132931	BOC	3	0.017091848	0.374618033	0.527761575
cg26375587	BOC	3	0.027727594	0.410304241	0.54946213

cg15111495	BOC	3	0.007147513	0.252413638	0.386141326
cg13272743	BOC	3	0.005072861	0.506451619	0.635131782
cg11882488	BOC	3	0.022283539	0.606215882	0.72853475
cg01294253	BRD3	9	0.015193425	0.202203846	0.304402003
cg03657791	BRD4	19	0.013393218	0.594296579	0.694613643
cg11841741	BTBD11;BTBD1	12	0.004975905	0.143316782	0.268012754
cg25688060	BTBD3	20	0.014327187	0.471144877	0.587103368
cg02346282	BTF3;BTF3	5	0.008036499	0.462943765	0.599889547
cg14207539	C10orf11	10	0.002479818	0.451284066	0.628513087
cg23264016	C10orf11	10	0.005108316	0.298732651	0.423412002
cg00142482	C10orf128	10	3.02E-05	0.45592867	0.649715094
cg10775039	C10orf71;C10c	10	0.025317709	0.253892165	0.388751208
cg18895336	C10orf72	10	0.000217512	0.339351546	0.494253863
cg18286127	C10orf84;C10c	10	0.010735691	0.222874458	0.379479052
cg19879537	C12orf34	12	0.007824342	0.526739615	0.65651567
cg06530347	C12orf77	12	0.00026754	0.618410716	0.733483487
cg22591875	C13orf33	13	0.005138295	0.494050238	0.607373143
cg26938159	C13orf35	13	0.001269672	0.647696238	0.753300335
cg01904243	C14orf43	14	0.000208387	0.214770498	0.355603503
cg21032266	C14orf43;C14c	14	0.014218123	0.38659397	0.527635511
cg03536657	C15orf28;ANP1	15	0.000237192	0.408040359	0.564096638
cg20352178	C15orf28;ANP1	15	0.000655334	0.552767514	0.661979608
cg20602300	C15orf57;C15c	15	0.000133328	0.351343012	0.591664273
cg17140476	C15orf57;C15c	15	0.015678312	0.315261173	0.471591556
cg16900255	C15orf59	15	0.016271618	0.266430482	0.392019072
cg14346202	C15orf60	15	1.04E-05	0.487084515	0.60149343
cg26967566	C16orf74	16	0.022761836	0.338914542	0.45359506
cg25657222	C17orf100;ME	17	0.048466059	0.574782288	0.679139625
cg25309567	C17orf70;C17c	17	0.003849887	0.319855168	0.449221623
cg24780966	C18orf1;C18or	18	0.01592013	0.325689676	0.48287764
cg17344770	C19orf71	19	0.000189329	0.23012407	0.436102054
cg07582892	C1orf21	1	0.005433865	0.22493364	0.403873718
cg21777154	C1orf21	1	0.005955261	0.439545649	0.591733548
cg11855643	C1orf21	1	0.001759282	0.438917939	0.587225118
cg22039357	C1orf21	1	0.026818805	0.63673327	0.753947368
cg09753749	C1orf21	1	0.000368649	0.603598679	0.715184333
cg05392323	C1orf213;C1or	1	0.00444225	0.385905319	0.498072197
cg15644413	C1orf216	1	0.000746003	0.364688752	0.504862113
cg26227225	C1orf86;LOC10	1	0.023836608	0.098698122	0.235367571
cg05337761	C1orf86;LOC10	1	0.049461315	0.119666089	0.229732836
cg09695996	C1QTNF8	16	0.000329603	0.269937715	0.388152904
cg16125816	C20orf117;C20	20	0.023430112	0.612110895	0.721611557
cg06893362	C20orf199;C20	20	0.006517278	0.4454841	0.549918425
cg02341197	C21orf62;C21c	21	0.000424824	0.447878452	0.581621823
cg10007534	C21orf70	21	0.03009756	0.330573594	0.449699575
cg05644223	C21orf96;RUN	21	0.03391153	0.340482383	0.462158921

cg22948077	C2orf40	2	0.020517788	0.412586923	0.541260583
cg16171392	C2orf54;C2orf1	2	0.000452509	0.529042889	0.655691615
cg05486924	C3orf21	3	0.000823477	0.245412821	0.355949765
cg05966699	C3orf52;MIR56	3	0.006251956	0.539843203	0.640616322
cg22690884	C3orf74	3	0.003101712	0.456754192	0.578847834
cg06005199	C4orf23	4	0.001248994	0.39969434	0.601540893
cg11036672	C4orf23	4	0.004054434	0.178116008	0.300692167
cg01278041	C4orf38	4	0.000327845	0.442364229	0.596349804
cg15466157	C4orf44;C4orf4	4	0.001628074	0.683899697	0.81393543
cg15841665	C4orf50	4	0.015443007	0.569476043	0.674505266
cg06838283	C5orf13;C5orf1	5	0.00019977	0.447065987	0.609405829
cg26837896	C5orf13;C5orf1	5	0.011893118	0.505159623	0.643561389
cg08927631	C5orf33;C5orf1	5	0.001774731	0.268972347	0.430695728
cg19593009	C5orf36	5	0.035162545	0.395703501	0.50227626
cg13948857	C5orf56	5	0.028591098	0.490031342	0.594924404
cg14704780	C6orf10	6	0.004221989	0.177885522	0.294663819
cg17767198	C6orf170	6	0.005813349	0.681152169	0.806566827
cg03626892	C6orf176	6	0.039652293	0.333168996	0.435172711
cg22410568	C6orf176;C6orf	6	0.031280668	0.435089441	0.575677495
cg10938046	C6orf223	6	0.012766495	0.621466314	0.726267323
cg16672203	C6orf27	6	0.000194154	0.402983266	0.58301393
cg11360546	C7orf50;C7orf1	7	0.000114303	0.354420285	0.552881434
cg09526129	C7orf50;C7orf1	7	0.019863353	0.591914157	0.742371832
cg01343703	C7orf50;C7orf1	7	0.025108643	0.540744168	0.645176902
cg24777710	C7orf54;SND1	7	0.001704963	0.348758169	0.54406001
cg02923831	C8orf86	8	0.011583908	0.287601265	0.391802502
cg05823563	C9orf125	9	0.005403247	0.368372137	0.482170307
cg14394451	C9orf135	9	0.000851517	0.321030856	0.513569161
cg21189849	C9orf3	9	0.004677788	0.35423567	0.457816083
cg25919221	CA6	1	0.007117331	0.292301628	0.458730529
cg09890339	CACNA1C;CAC	12	4.30E-05	0.505864468	0.651473699
cg23475725	CACNA1C;CAC	12	0.002856736	0.224950168	0.330356333
cg19685491	CACNA1C;CAC	12	0.002318658	0.219289652	0.323637098
cg19542445	CACNA1C;CAC	12	0.001529019	0.525335525	0.628861283
cg21793437	CACNA1C;CAC	12	0.00886947	0.624505066	0.725700052
cg19075717	CACNA1G;CAC	17	0.010169218	0.314417123	0.434798146
cg16922523	CADM1;CADM	11	0.008421491	0.270636582	0.439521678
cg25418947	CALD1;CALD1;	7	0.016721689	0.39867876	0.524010206
cg12097989	CAMTA1	1	8.96E-05	0.354961473	0.527746132
cg12865675	CANX;CANX	5	0.024045499	0.482701551	0.584685492
cg27090078	CAPG	2	0.013653684	0.439996404	0.556729635
cg06970290	CAPN1	11	0.044266326	0.462950021	0.576453724
cg16615776	CAPN10;CAPN	2	0.010249789	0.276875481	0.444642724
cg22428691	CAPN2;CAPN2	1	0.001243278	0.490870722	0.599867437
cg04652208	CAPN8	1	0.026910325	0.384358325	0.528344466
cg27235315	CAPN8	1	0.042472639	0.472703088	0.586893776

cg11923724	CARD10	22	0.03649985	0.740783015	0.845267043
cg25709335	CARKD	13	0.028876778	0.478918704	0.588935963
cg17374433	CASC2;CASC2	10	0.000140776	0.267820485	0.396371761
cg19405868	CASP1;CASP1;	11	0.00390264	0.625684671	0.76925175
cg15064681	CASQ2	1	0.00644101	0.436473067	0.60462632
cg10296496	CBFA2T3;CBFA	16	0.001068152	0.623739316	0.734313681
cg01119453	CBWD6	9	0.016243112	0.55187716	0.674331682
cg22421579	CCDC149;CCDC	4	0.014375818	0.348524714	0.483609175
cg11134246	CCDC24	1	0.019034874	0.359020006	0.459026676
cg23197939	CCDC40	17	0.012363188	0.551379663	0.696366633
cg13389211	CCDC40	17	0.038098826	0.302662917	0.42738344
cg15394558	CCDC42;CCDC	17	0.045776317	0.375918456	0.482335985
cg14422366	CCDC88C	14	5.91E-07	0.623984693	0.778775846
cg02390084	CCDC91	12	0.00162382	0.542983501	0.703625971
cg06539449	CCND1	11	0.026882501	0.293737144	0.42086744
cg00417288	CCND2	12	0.020808739	0.537634898	0.680460329
cg12594237	CCND2	12	0.003656761	0.620904266	0.753984496
cg09799980	CCND2	12	0.02094595	0.414620219	0.539411113
cg08614201	CD160	1	0.004890358	0.52154332	0.646001002
cg10124993	CDCA4;CDCA4	14	0.000832229	0.443470551	0.562974692
cg06001205	CDH12	5	0.01570242	0.453924171	0.609610699
cg01090433	CDH13	16	0.034936174	0.478692774	0.591954678
cg09723511	CDH5	16	0.011024393	0.408614679	0.509857014
cg03112433	CDK14	7	0.008419349	0.474600518	0.586656599
cg24591042	CDYL;CDYL	6	0.000334806	0.717271216	0.828190861
cg03187073	CDYL;CDYL;CD	6	0.002310405	0.290372753	0.453935212
cg27307183	CDYL;CDYL;CD	6	0.000155409	0.207552434	0.365691524
cg11356375	CDYL;CDYL;CD	6	0.000394843	0.611524393	0.745786667
cg04148753	CDYL;CDYL;CD	6	0.030775562	0.460707841	0.574334928
cg03408904	CECR2	22	0.025477893	0.543552515	0.65995428
cg16767221	CGNL1	15	0.002946035	0.328875219	0.517726103
cg22608534	CHADL	22	0.031198159	0.324391629	0.425332527
cg09690040	CHCHD6	3	0.014839751	0.339016847	0.452366757
cg16087630	CHKA;CHKA	11	9.24E-05	0.528643556	0.668732807
cg07583137	CHMP4C	8	0.0471879	0.614195152	0.729046747
cg01186595	CHORDC1;CHC	11	0.023580928	0.431677242	0.536295598
cg11117177	CHST11	12	0.046650053	0.332359693	0.432382712
cg24186506	CHST15	10	2.00E-05	0.717489793	0.826624705
cg13356370	CILP	15	0.03416452	0.312658185	0.432060568
cg12051116	CLASP1;CLASP	2	0.001298866	0.393956669	0.516952254
cg10950615	CLASP1;CLASP	2	0.001406636	0.639602679	0.750734178
cg23933759	CLDN14;CLDN:	21	0.001531401	0.401800832	0.517243203
cg24794906	CLDN14;CLDN:	21	0.000375805	0.668331229	0.7689981
cg26597734	CLEC16A	16	0.02606354	0.136197187	0.250298317
cg04952324	CLIP2;CLIP2	7	0.000628494	0.516259356	0.659500271
cg15489693	CLNK	4	0.000228772	0.414649623	0.531585932

cg02020371	CLPX	15	5.95E-05	0.647158549	0.779657909
cg01995815	CLSTN2	3	0.004812298	0.275442552	0.377062835
cg07751214	CLUAP1;CLUAF	16	0.012694103	0.447119335	0.570142328
cg23284609	CMBL	5	0.011939689	0.329494258	0.450842692
cg16353318	CMIP;CMIP	16	0.000223459	0.35149606	0.511186365
cg03031932	CMIP;CMIP	16	0.000123727	0.633967872	0.743999271
cg01033642	CMIP;CMIP	16	4.39E-05	0.680018772	0.786367631
cg05477582	CMTM1;CMTN	16	0.029213023	0.687402952	0.794585068
cg06715352	CMTM4;CMTN	16	0.003471425	0.581092461	0.731677012
cg05226518	CNIH	14	0.03144671	0.3515399	0.486706769
cg27269110	CNKSR3	6	0.003669024	0.370292382	0.537145374
cg16175941	CNKSR3	6	0.016436382	0.2327608	0.382377102
cg12448539	CNN3	1	0.04733033	0.347662563	0.485515199
cg15009198	CNNM4	2	0.002034819	0.546688811	0.679888662
cg20539798	CNST;CNST	1	0.036578692	0.693751377	0.813143985
cg14418582	CNTLN	9	0.022794403	0.70487093	0.80832506
cg04723449	COG7	16	0.003129537	0.416073864	0.53772948
cg15818109	COL11A2;COL1	6	1.57E-05	0.240196036	0.454853905
cg21205776	COL11A2;COL1	6	4.85E-05	0.303047107	0.510847048
cg10736955	COL11A2;COL1	6	0.000618311	0.409254503	0.61359696
cg01180523	COL11A2;COL1	6	1.27E-05	0.269457519	0.470425924
cg18671115	COL11A2;COL1	6	0.001585649	0.269138742	0.469335416
cg22161893	COL11A2;COL1	6	0.000452879	0.385871315	0.582306044
cg18375610	COL11A2;COL1	6	0.00015362	0.44033603	0.61952297
cg15173443	COL11A2;COL1	6	0.000183204	0.382382739	0.560750688
cg26322749	COL11A2;COL1	6	0.001036221	0.420302049	0.598094347
cg20269729	COL11A2;COL1	6	0.001149127	0.298148627	0.475752588
cg00501482	COL11A2;COL1	6	0.002116913	0.365552018	0.541008627
cg02230225	COL11A2;COL1	6	0.005212866	0.368509913	0.543442743
cg12061370	COL11A2;COL1	6	0.002154019	0.264498017	0.428296867
cg09502339	COL11A2;COL1	6	0.003017277	0.258744677	0.419690714
cg22748722	COL11A2;COL1	6	0.000658547	0.434907201	0.594169107
cg17596257	COL11A2;COL1	6	0.002405814	0.382925779	0.539629509
cg24311693	COL11A2;COL1	6	0.018888916	0.258002998	0.410557233
cg09261794	COL11A2;COL1	6	0.003157694	0.172768919	0.325058313
cg20798604	COL11A2;COL1	6	0.000360905	0.218742842	0.369733092
cg22361816	COL11A2;COL1	6	3.81E-05	0.376995432	0.521840027
cg00936309	COL11A2;COL1	6	0.00015629	0.340170381	0.483479933
cg00920162	COL11A2;COL1	6	0.009200763	0.32599551	0.468841657
cg23912266	COL11A2;COL1	6	0.000735671	0.345589777	0.487303182
cg13617209	COL11A2;COL1	6	0.007140227	0.209804573	0.350010882
cg26981781	COL11A2;COL1	6	0.001505784	0.311744393	0.446612095
cg16139380	COL11A2;COL1	6	0.000491603	0.378562767	0.512514534
cg01412022	COL11A2;COL1	6	0.026120439	0.21657561	0.349529321
cg12947757	COL11A2;COL1	6	0.001049702	0.306315557	0.438258482
cg03260211	COL11A2;COL1	6	0.00188942	0.281599778	0.413370036



cg06113776	COL11A2;COL1	6	0.000152843	0.542647375	0.673266452
cg09344631	COL11A2;COL1	6	0.00156435	0.18276693	0.312582687
cg04653627	COL11A2;COL1	6	0.001594662	0.478571742	0.605412828
cg12228461	COL11A2;COL1	6	0.020645512	0.283034827	0.409514141
cg18624108	COL11A2;COL1	6	0.000270856	0.510279492	0.632920992
cg01320908	COL11A2;COL1	6	0.007761837	0.5559547	0.675151831
cg20427378	COL11A2;COL1	6	6.53E-05	0.225091827	0.344011182
cg13106156	COL11A2;COL1	6	1.32E-05	0.388854331	0.505818357
cg21240420	COL11A2;COL1	6	0.000121774	0.331164264	0.447409349
cg04249605	COL11A2;COL1	6	0.018352756	0.271919036	0.38638074
cg14683730	COL11A2;COL1	6	0.036899561	0.172297409	0.283230843
cg08077736	COL11A2;COL1	6	0.010537245	0.205190561	0.315614249
cg21696987	COL11A2;COL1	6	0.005035344	0.284957348	0.393346622
cg19887293	COL11A2;COL1	6	0.004452635	0.316650183	0.424344414
cg01828813	COL11A2;COL1	6	0.002421172	0.29891125	0.406434435
cg26079695	COL11A2;COL1	6	0.00464132	0.569213932	0.674422067
cg04399205	COL11A2;COL1	6	1.50E-05	0.453461403	0.556639278
cg14466923	COL11A2;COL1	6	0.008729858	0.312751426	0.414892336
cg17636806	COL11A2;COL1	6	0.006537063	0.334431592	0.434680906
cg03790047	COL11A2;COL1	6	0.001321098	0.374915534	0.538362582
cg11835806	COL11A2;COL1	6	0.003670959	0.252799596	0.402508379
cg22501449	COL11A2;COL1	6	0.002448996	0.182753244	0.323429124
cg04182805	COL11A2;COL1	6	0.010373042	0.4392282	0.575070601
cg24864639	COL11A2;COL1	6	0.000906451	0.257567034	0.386117877
cg23704085	COL11A2;COL1	6	0.014717196	0.148359992	0.275578824
cg21509966	COL11A2;COL1	6	0.034358171	0.31389489	0.436447405
cg03783258	COL11A2;COL1	6	0.026445757	0.177996133	0.29802407
cg01806857	COL11A2;COL1	6	0.016011862	0.188933397	0.301427499
cg01680268	COL11A2;COL1	6	0.049409418	0.164812507	0.270187452
cg20436086	COL13A1;COL1	10	0.017835394	0.212112088	0.333300315
cg24705158	COL23A1	5	0.000253928	0.417345348	0.531969035
cg13427810	COL27A1	9	0.009446412	0.3419053	0.533500821
cg08715466	COL2A1;COL2/	12	0.010020427	0.236100114	0.366824199
cg23889772	COL5A3	19	2.96E-05	0.28816406	0.420570212
cg00784153	COL5A3	19	0.00031136	0.342672729	0.44439812
cg22247792	COL6A2;COL6/	21	0.018270183	0.447764045	0.576861452
cg25142479	COL9A1;COL9/	6	0.006875534	0.440356131	0.580407424
cg09961397	COL9A1;COL9/	6	0.003468102	0.566047808	0.68584604
cg20682720	COL9A1;COL9/	6	0.030492138	0.597546102	0.702334676
cg10210510	COL9A2	1	0.008941875	0.298647509	0.419120334
cg07841132	COL9A3	20	0.011072151	0.414637198	0.560317387
cg07400741	COL9A3	20	0.009138486	0.273108808	0.377033726
cg26669806	COMP	19	0.000289768	0.232621089	0.334689612
cg12449974	CORO2B	15	0.044589076	0.245059421	0.404069734
cg26751588	COX10	17	0.000524496	0.649955456	0.796364263
cg24876069	CP	3	0.044435532	0.442270023	0.558641572

cg23427348	CPE	4	0.028977142	0.333441633	0.498170743
cg01708636	CPE	4	0.045150005	0.2476915	0.367969486
cg03101058	CPSF4L	17	0.008509079	0.367184724	0.491729282
cg02100918	CPT1A;CPT1A	11	0.000710639	0.718021834	0.821066743
cg26906629	CPT1A;CPT1A	11	0.038011002	0.420160095	0.521869394
cg04732324	CPT1A;CPT1A	11	0.012878502	0.595638694	0.696744227
cg23729283	CPVL;CPVL	7	0.040482524	0.441134909	0.568095361
cg01225238	CPVL;CPVL	7	0.022794403	0.431577139	0.55498334
cg05811904	CREB3L2	7	0.003215137	0.4097235	0.560307143
cg09271097	CREB3L2	7	0.002270738	0.252323184	0.395613619
cg19573230	CREB3L2	7	0.008437515	0.434969117	0.549369633
cg15975598	CREB3L2	7	0.013090124	0.50451555	0.606695199
cg12552104	CREB5;CREB5;C	7	0.027403566	0.268634528	0.394072813
cg05194552	CREBBP;CREBE	16	0.000229209	0.53734173	0.680282903
cg09967633	CRISPLD2	16	0.01826397	0.383143531	0.536530503
cg02455706	CRISPLD2	16	0.000149402	0.719934385	0.827952779
cg03379552	CRTAC1	10	0.000164066	0.389456991	0.565323076
cg19421526	CRTAC1	10	0.0028976	0.170032089	0.300275727
cg02455383	CRYBB1	22	0.033054401	0.446167889	0.555804075
cg03244494	CRYL1	13	0.024039679	0.338922561	0.485727559
cg26894278	CRYL1	13	0.001367167	0.611273646	0.712868138
cg07169233	CSGALNACT1;C	8	0.002930956	0.365862284	0.545423153
cg00158770	CSGALNACT1;C	8	0.00097795	0.337109629	0.477421944
cg03651021	CSGALNACT1;C	8	0.005573739	0.672819607	0.777809475
cg21440084	CSMD2	1	0.034674001	0.345802923	0.5491087
cg06734519	CSPG4	15	0.012810861	0.558860773	0.65924638
cg14029169	CST3	20	0.001200536	0.562024174	0.723543776
cg16399632	CTBP1;CTBP1;C	4	0.044487352	0.658843875	0.759570959
cg21373263	CTBP2;CTBP2	10	0.035559711	0.413030527	0.543645754
cg06240209	CTBP2;CTBP2;C	10	4.93E-06	0.562008759	0.777999692
cg07237540	CTDP1;CTDP1	18	0.018603039	0.440959411	0.564936745
cg05726118	CTNNB1;CTNN	3	0.000178093	0.220269285	0.353317664
cg16118839	CTSC;CTSC;CTSC	11	0.002420727	0.397792115	0.548641388
cg22720428	CTTN;CTTN	11	0.002652377	0.266476994	0.450464712
cg08914150	CTTN;CTTN	11	0.004545573	0.584685322	0.728804674
cg12450012	CTTN;CTTN	11	0.026404377	0.434266935	0.563802177
cg02011981	CTTN;CTTN	11	0.021253833	0.554147785	0.680577893
cg02743342	CTXN3	5	0.007915919	0.59155429	0.705130279
cg07157169	CTXN3;CTXN3	5	0.001102157	0.52368192	0.643990401
cg11987802	CUGBP1	11	0.028173633	0.346449388	0.484775905
cg25119743	CUGBP2;CUGB	10	0.00700107	0.332950182	0.442129336
cg12349350	CUX1;CUX1;CL	7	0.010444241	0.26629219	0.444943572
cg26570844	CUX1;CUX1;CL	7	0.015052525	0.186470276	0.360515993
cg14466759	CUX1;CUX1;CL	7	0.049390062	0.222506394	0.363643085
cg02911387	CUX1;CUX1;CL	7	0.003648471	0.216372276	0.344255893
cg07266412	CUX1;CUX1;CL	7	0.025992121	0.277765164	0.405205053

cg14203426	CUX1;CUX1;CL	7	0.021558858	0.37789772	0.491788251
cg18483404	CUZD1	10	0.022430727	0.257833843	0.38665394
cg17793354	CXCR7	2	0.009101092	0.659374973	0.759732366
cg04406620	CYB5B	16	0.006591112	0.638255212	0.73959073
cg07750741	CYFIP2;CYFIP2	5	1.28E-05	0.408328734	0.527723179
cg02603251	CYFIP2;CYFIP2	5	0.041602559	0.344707247	0.445215858
cg21181051	CYP20A1	2	0.01856772	0.265491009	0.397325619
cg15160709	CYP26B1	2	0.003886032	0.387519934	0.502148273
cg01959421	CYP26B1	2	0.04414976	0.137526491	0.248406682
cg02394395	CYP26C1	10	0.028439565	0.399785524	0.515422479
cg20492034	CYTH3	7	0.021463918	0.245612278	0.368123689
cg24921319	CYTH3	7	0.015104258	0.450245108	0.566376849
cg08893109	CYTH3	7	0.015131512	0.645273532	0.75205655
cg25151803	D2HGDH	2	0.000763942	0.67817515	0.778258275
cg05609656	DAAM2	6	0.000640551	0.333140159	0.530725542
cg21115558	DAAM2	6	0.000238852	0.168315325	0.271313946
cg18801045	DAP	5	0.006020328	0.207926984	0.385891116
cg05473987	DAP	5	0.000165284	0.31311907	0.484740366
cg24754277	DAPK1	9	0.007100288	0.194012339	0.2949718
cg11775215	DAPK2	15	0.015462241	0.443693031	0.56021768
cg02973883	DCAF4;DCAF4;	14	0.008990691	0.574752864	0.761410523
cg16177647	DCAKD;DCAKD	17	0.013976516	0.346892853	0.502490853
cg11325273	DCLK1	13	0.031822843	0.173819227	0.29184364
cg18969798	DCLK2;DCLK2	4	0.000535104	0.558030086	0.722623559
cg22806908	DCP1A	3	0.018012836	0.368753674	0.526124927
cg01820584	DCUN1D4;DCL	4	0.002173925	0.274938338	0.515064186
cg16707952	DDR1;DDR1	6	0.007493589	0.442143387	0.570336917
cg07194374	DDX24	14	0.010169218	0.41249821	0.55969771
cg05587627	DDX6	11	0.004594394	0.307734712	0.427034852
cg21156386	DEAF1	11	0.016832673	0.259016947	0.389831628
cg21442881	DENND3	8	6.89E-06	0.215354365	0.450911437
cg07580128	DENND3	8	0.009274538	0.638161434	0.743583926
cg02919712	DEPDC6	8	0.02261037	0.292596647	0.40617829
cg13826055	DFNB31;DFNB	9	0.024958832	0.446967519	0.605887807
cg15815084	DGKE	17	0.001583817	0.209293392	0.341113461
cg02085942	DGKI	7	0.001404867	0.524745716	0.653710468
cg20291423	DHCR24	1	0.029828046	0.363932581	0.483120409
cg10523319	DHRS3	1	0.000599105	0.571495836	0.715136657
cg02228675	DHX58	17	0.000321173	0.182824368	0.288392008
cg10085203	DIAPH3	13	0.003508968	0.420260037	0.558842091
cg15283194	DIAPH3	13	0.005557211	0.440277039	0.543167595
cg10948630	DICER1;DICER1	14	0.013425943	0.599806175	0.734915053
cg25301103	DIP2C	10	0.002229165	0.492612296	0.716151852
cg09782637	DIP2C	10	0.006978937	0.439992152	0.632696554
cg11423998	DIP2C	10	0.001711462	0.512037297	0.693857912
cg04806237	DIP2C	10	0.012883452	0.63440808	0.788830662

cg08306029	DIP2C	10	0.003059973	0.577204303	0.71082503
cg08079763	DIP2C	10	0.000217662	0.206311897	0.33405585
cg17333886	DIP2C	10	0.007894736	0.325442995	0.451143781
cg04720116	DIP2C	10	0.034632307	0.457905302	0.581514545
cg13477178	DIP2C	10	0.006178496	0.166358385	0.28995157
cg17905091	DIP2C	10	0.048113387	0.411241162	0.53326939
cg06156195	DIP2C	10	0.01313551	0.54698041	0.665401846
cg12519998	DIP2C	10	0.005326132	0.598237787	0.716050823
cg10494981	DIP2C	10	0.014904156	0.636817595	0.75183499
cg20251943	DIP2C	10	0.011617554	0.25208739	0.362545817
cg02594677	DIP2C	10	0.014336297	0.651240784	0.757878091
cg18962750	DIXDC1;DIXDC	11	0.015449173	0.561451058	0.66490248
cg16749785	DLC1;DLC1;DL	8	0.042903717	0.4801951	0.604472075
cg27126505	DLEU7	13	0.021888518	0.481202859	0.59791193
cg24182581	DLG2;DLG2;DL	11	0.019209382	0.323183909	0.452546284
cg25804443	DLGAP1	18	0.017332133	0.598858774	0.709088124
cg00495303	DLGAP1;DLGA	18	0.019989075	0.338511865	0.484746197
cg09803262	DLX6AS	7	0.038783312	0.328291875	0.45902581
cg06710981	DMPK;DMPK;I	19	4.45E-05	0.210611906	0.334157355
cg25700533	DNAJC17;C15c	15	0.011074884	0.075393319	0.179246309
cg10703481	DNHD1;DNHD	11	0.000723471	0.565888194	0.698411621
cg21500354	DNHD1;DNHD	11	0.006173779	0.289819867	0.392255491
cg06748978	DNMT3A;DNM	2	0.020540363	0.318202567	0.442256957
cg15676916	DOCK1	10	0.002089357	0.48456922	0.625545747
cg05046083	DOCK4	7	0.018811131	0.232907865	0.369116331
cg13690241	DOK1	2	0.000751549	0.518389198	0.659556397
cg11800635	DOK1	2	0.000270781	0.169205954	0.29065043
cg14293102	DOT1L	19	0.001986558	0.530780815	0.672639746
cg01901381	DPF3	14	0.001438695	0.450081127	0.562605645
cg14116056	DPY19L1	7	0.015985301	0.496972013	0.603609451
cg04065210	DPY19L1	7	0.040120063	0.268852236	0.370526267
cg02643433	DSP;DSP	6	0.020873108	0.264654292	0.370071529
cg26562772	DUSP10;DUSP	1	0.024622862	0.48951877	0.624626005
cg10539173	DUSP16	12	0.000195287	0.583748759	0.730554372
cg12245706	DYSF;DYSF;DYS	2	0.001144054	0.266287909	0.472027377
cg14196395	DYSF;DYSF;DYS	2	0.003367228	0.281715209	0.479617196
cg14689456	DYSF;DYSF;DYS	2	0.027966732	0.53350693	0.64145085
cg19400179	DZIP3	3	0.015526846	0.402396744	0.53384042
cg22480875	E2F7	12	0.04263191	0.578801613	0.68070041
cg14731044	E2F8	11	5.50E-06	0.546310578	0.717482233
cg11690724	EBF1	5	1.90E-05	0.42376707	0.649688816
cg09172244	EBF1	5	0.034365055	0.305171117	0.445969
cg16093296	EBF3	10	0.017917924	0.615741051	0.771275962
cg13638229	EBF3	10	0.017179479	0.443908592	0.554517704
cg05881068	EBF3	10	0.000586806	0.780633893	0.881538905
cg17906168	EFNB2	13	0.000105491	0.367059837	0.560507659

cg18815120	EGLN1	1	0.010612109	0.556787706	0.662646399
cg19770715	EHMT2;SLC44/	6	0.003175472	0.261733101	0.395136863
cg13582226	EIF2C2;EIF2C2	8	0.004566792	0.471316452	0.57620146
cg11832601	EIF3F	11	0.037210467	0.479219905	0.583307284
cg25768108	EIF3H	8	0.002034819	0.707684869	0.823068949
cg17868307	EIF4H;EIF4H	7	0.002477853	0.476625645	0.623587288
cg12691679	ELF1	13	0.001620224	0.326366974	0.485052501
cg07897871	ELF3;ELF3;ELF3	1	0.003967894	0.459618376	0.609476661
cg02076020	ELF3;ELF3;ELF3	1	0.010237104	0.275934371	0.41402559
cg26328757	ELF3;ELF3;ELF3	1	0.011363075	0.447519254	0.562308195
cg08044454	ELMO1;ELMO1	7	3.63E-05	0.318244185	0.494269461
cg24859546	ELOVL4	6	0.000452509	0.493581293	0.653145299
cg01389032	ENHO	9	0.003545468	0.493170057	0.615886202
cg26938599	ENKUR	10	0.032523466	0.310981888	0.434733197
cg13777984	ENOX1;ENOX1	13	0.047446032	0.154342222	0.277206142
cg18334681	ENPP3	6	0.004324095	0.22341212	0.357540697
cg19270309	ENPP7	17	0.003537857	0.244686402	0.359056101
cg14090400	EPB41L3	18	0.025452908	0.582407452	0.723787001
cg15447913	EPHB2;EPHB2	1	0.000769191	0.681399163	0.796365503
cg13694876	EPHB3	3	0.014770664	0.419848446	0.546517779
cg15334250	EPHB3	3	0.041957427	0.34112962	0.452328638
cg10378735	EPHB6	7	0.007287708	0.459925981	0.588259766
cg22303758	EPHX2	8	0.003867871	0.267066992	0.4234448284
cg25673598	EPN2;EPN2;EP	17	0.002478873	0.121780683	0.22811589
cg11414610	EPS15L1	19	0.002383727	0.324856357	0.499275616
cg06146977	EPSTI1;EPSTI1	13	0.001555562	0.339250722	0.47611208
cg26108843	ERG;ERG	21	0.000981443	0.370973774	0.518298904
cg06638529	ERI3	1	5.55E-05	0.201999589	0.33482701
cg15858679	ERP27	12	0.006227819	0.449036378	0.623485683
cg15676711	ERRF1	1	0.029793288	0.419862904	0.521689774
cg04044203	ESAM	11	0.002568859	0.475222971	0.602605039
cg04118119	ESD	13	0.035993969	0.344726198	0.457370652
cg09646983	ESR1;ESR1	6	0.00816076	0.542231265	0.645782433
cg07019303	ETV6	12	0.000100711	0.408392473	0.538343351
cg13654884	EXOC6	10	0.008377456	0.548567593	0.655820269
cg26227044	EXOC8	1	0.002709433	0.320852126	0.432467246
cg24892992	EXT1	8	0.002431457	0.406304462	0.563334488
cg04395788	EXT1	8	0.011648298	0.302142017	0.450956258
cg02925848	EXT1	8	0.005406175	0.315813827	0.456842289
cg22271457	EXT1	8	0.01473963	0.600320929	0.730954604
cg07551677	EXTL3	8	0.006664699	0.626791294	0.749958877
cg18817392	EYA4;EYA4;EY/	6	0.008425624	0.453783582	0.559107569
cg02716952	EZH2;EZH2	7	0.009849422	0.446527276	0.564567845
cg18868540	F2	11	0.046908283	0.330801837	0.448198077
cg26667735	FAAH	1	1.15E-05	0.546208085	0.716342054
cg18672389	FAM101A	12	0.015605767	0.292660853	0.450614266

cg14273093	FAM101A	12	0.011466706	0.251568681	0.391689142
cg05712979	FAM101A	12	0.002478873	0.466117978	0.568480954
cg08608727	FAM109A	12	6.77E-05	0.514903879	0.6255909
cg23013850	FAM124B;FAM	2	0.015718313	0.503733095	0.611394459
cg25182523	FAM129A	1	0.000353369	0.283603661	0.422143708
cg17156402	FAM131C	1	0.003664424	0.501995103	0.607783377
cg04860977	FAM155A	13	0.037207114	0.320893096	0.47609924
cg18345406	FAM160A1	4	0.000155381	0.285721496	0.468704883
cg02564061	FAM186B;FAM	12	0.000799207	0.425385447	0.560090684
cg19619956	FAM193B;FAM	5	4.27E-05	0.213736455	0.31903991
cg24286414	FAM20C	7	0.013463222	0.484684428	0.604960356
cg25929664	FAM20C	7	0.038406352	0.186945927	0.304319061
cg23782833	FAM20C	7	0.022344342	0.247645469	0.35781756
cg18234533	FAM20C	7	0.017540877	0.348907995	0.45841103
cg27539806	FAM38A	16	0.013536666	0.406708574	0.542767515
cg07765262	FAM53A	4	0.021964297	0.426573707	0.561133022
cg19975346	FAM53B	10	1.22E-05	0.169006579	0.387054931
cg24916358	FAM53B	10	0.001055398	0.368917048	0.524591053
cg23088510	FAM53B	10	0.026663173	0.282562117	0.422504016
cg00557402	FAM55D;FAM!	11	0.003127665	0.426568142	0.571342691
cg18086635	FAM59A	18	0.000198478	0.261774079	0.375247542
cg07890785	FAM64A	17	0.043587475	0.489475247	0.602914573
cg21217092	FAM82A2	15	0.002487826	0.631732544	0.751119704
cg21670708	FAM84B	8	0.012653379	0.484605689	0.588502504
cg13791971	FANCC	9	0.011392032	0.282608648	0.393094442
cg04213384	FARP1	13	0.007031181	0.514135679	0.622306804
cg25678270	FARP1	13	2.30E-05	0.579624539	0.681837252
cg16689193	FARP1;FARP1	13	0.008377456	0.613252516	0.721356216
cg06450397	FAS;FAS;FAS;F	10	0.000789844	0.392926024	0.578809307
cg01880399	FAT1	4	0.027120634	0.307944378	0.433595812
cg20656964	FAT1	4	0.019024706	0.507221724	0.616345955
cg16251130	FAT1	4	0.001494811	0.568871676	0.677184296
cg04907084	FAT3	11	0.00724137	0.321202861	0.459954322
cg08351489	FAT3	11	0.041644088	0.301483317	0.403869591
cg18183817	FBLN2;FBLN2;I	3	0.000720479	0.650123435	0.786446224
cg00498816	FBLN2;FBLN2;I	3	0.01251511	0.67000248	0.777251862
cg18982384	FBLN5	14	0.000372302	0.666835332	0.770224162
cg04956944	FBLN7;FBLN7	2	0.015756377	0.398158459	0.519932553
cg20664313	FBRSL1	12	0.000942674	0.363288265	0.484393605
cg23985408	FBXW11;FBXW	5	0.012931474	0.274403699	0.416343173
cg07050611	FBXW8;FBXW	12	0.00684948	0.380922122	0.534445712
cg26549860	FCHSD2	11	0.006316824	0.302281883	0.449382618
cg09718347	FGD5	3	0.001768597	0.384097451	0.561935711
cg20684197	FGF1;FGF1;FGI	5	0.007611524	0.212242885	0.38693798
cg07206630	FGF1;FGF1;FGI	5	0.04292727	0.41689146	0.558401467
cg19576738	FGF2	4	0.013450273	0.109739528	0.228375218

cg20336472	FGFR1;FGFR1;l	8	0.023256013	0.535248673	0.648547464
cg17235897	FGFR2;FGFR2;l	10	4.52E-05	0.218792326	0.381433011
cg20277356	FGFR2;FGFR2;l	10	0.046787267	0.250097653	0.383097011
cg14834653	FGFR2;FGFR2;l	10	0.031061472	0.197725956	0.329091366
cg25294906	FGFR2;FGFR2;l	10	0.032390375	0.36401181	0.489791855
cg10280007	FGFR2;FGFR2;l	10	0.032822973	0.228041146	0.350143294
cg13734061	FGFR2;FGFR2;l	10	0.04623681	0.528892659	0.636881275
cg10362842	FGFR2;FGFR2;l	10	0.003836569	0.300391178	0.425620502
cg21311834	FGFR3;FGFR3;l	4	0.007094393	0.209177882	0.404332584
cg08145949	FGFR3;FGFR3;l	4	0.006245013	0.27719307	0.422081412
cg15697036	FGFR3;FGFR3;l	4	0.02843986	0.390489721	0.491028973
cg14869372	FGFRL1;FGFRL	4	0.013408793	0.397816048	0.538015035
cg11411884	FGFRL1;FGFRL	4	0.01508316	0.543576513	0.650744102
cg06839424	FGFRL1;FGFRL	4	0.001471131	0.373163356	0.475303198
cg11815980	FHIT;FHIT	3	0.002344105	0.416871866	0.566480447
cg08223225	FHIT;FHIT	3	5.57E-05	0.605238464	0.719565474
cg20306574	FITM1	14	0.047973178	0.464993027	0.583269519
cg25877553	FKBP1A;FKBP1	20	0.002764953	0.623263441	0.724154547
cg19226017	FKBP5;LOC285	6	0.029399116	0.280673811	0.406512333
cg08373323	FLJ32810	11	0.0152083	0.209613951	0.367799875
cg24579887	FLJ42709;FLJ4;	5	0.000409889	0.348873739	0.520920363
cg00434461	FLJ42709;FLJ4;	5	0.02032421	0.573414461	0.707822298
cg04837616	FLJ45079	17	9.99E-07	0.45585316	0.57725319
cg03243768	FLJ46111	11	0.042222558	0.73026029	0.83829694
cg05116002	FLNB;FLNB;FLN	3	0.010600611	0.188884251	0.307708618
cg13619277	FMN1	15	0.038517968	0.15985878	0.27586859
cg12495731	FN3K	17	0.009138486	0.428692256	0.591290389
cg04239247	FNBP1L;FNBP1	1	6.54E-05	0.289084001	0.408328196
cg19244312	FNDC3B;FNDC	3	0.000586993	0.599832265	0.713660306
cg13017471	FNDC3B;FNDC	3	0.001702436	0.561588872	0.670730387
cg00360324	FNDC4	2	0.007716638	0.631709978	0.752202675
cg09562426	FOLR1;FOLR1;l	11	0.027440743	0.378722862	0.501936016
cg01243371	FOXF1	16	0.016028751	0.345830779	0.446689147
cg25330264	FOXK1	7	0.002268463	0.338048291	0.498700636
cg06114605	FOXK1	7	0.016046364	0.408238299	0.549250121
cg05102770	FOXK1	7	0.023086362	0.575457261	0.701796947
cg14391345	FOXN3	14	0.000223115	0.645121937	0.768404706
cg24714561	FOXN3	14	0.003271439	0.513468173	0.632917563
cg19484481	FOXO3;FOXO3	6	0.004053307	0.302628466	0.506843402
cg07580479	FOXO3;FOXO3	6	0.015309065	0.535303115	0.659997117
cg20847580	FOXP4;FOXP4;	6	6.53E-05	0.084631762	0.207134704
cg07588430	FOXP4;FOXP4;	6	0.011097457	0.515743678	0.621032486
cg06127202	FRK	6	0.042487143	0.206391003	0.308341932
cg27572370	FRMD4A	10	0.019482936	0.439162325	0.553028578
cg27423627	FRMD4B	3	0.006104718	0.486885524	0.6134399
cg25274185	FRY	13	0.008992625	0.231500419	0.362162137

cg07352158	FSTL1	3	0.011327461	0.574134489	0.705609912
cg05642923	FTSJ3	17	0.004913159	0.477807151	0.606076926
cg00758797	FURIN	15	0.034284584	0.386656413	0.501333415
cg14738670	FXVD1;FXVD7;I	19	7.59E-05	0.301745271	0.405512122
cg22335223	FXVD2	11	0.000261968	0.297045311	0.414919409
cg00161459	FZD6;FZD6;FZD	8	0.0470618	0.515523228	0.636209482
cg17453767	GAB1;GAB1	4	0.008582921	0.609256984	0.723102379
cg10227830	GAB1;GAB1	4	0.006918751	0.315825075	0.425011023
cg14142817	GAB1;GAB1	4	0.005417017	0.636642964	0.739881929
cg03286735	GAK	4	0.049162621	0.369189524	0.477516387
cg04412054	GALNS	16	0.019688739	0.777585788	0.882484582
cg05784532	GALNT2	1	0.000720542	0.397273505	0.541656885
cg15817769	GALNT2	1	0.025441668	0.210983093	0.354646747
cg11795921	GALNT2	1	0.029428352	0.351823831	0.482066955
cg17954142	GALNT2	1	0.002720778	0.326741531	0.446925952
cg05527856	GALNTL4	11	0.031976142	0.202359553	0.316049483
cg10296867	GAS7	17	0.000284686	0.604241819	0.759313489
cg21089050	GAS7	17	0.011846327	0.644133964	0.747475367
cg17489908	GATA3;GATA3	10	0.001256605	0.206399274	0.308857239
cg00329157	GCET2;GCET2	3	0.004264456	0.565370299	0.666365202
cg02868790	GCLC	6	0.019894596	0.307823973	0.46137705
cg17240133	GCOM1;GCOM	15	0.001024842	0.363201614	0.50485426
cg01804528	GDPD5	11	0.000570001	0.704617939	0.805722946
cg25320328	GFI1;GFI1	1	0.000214531	0.500805033	0.649780641
cg26338723	GFRA1;GFRA1;	10	0.024141668	0.392322553	0.497083383
cg17337670	GIT2;GIT2;GIT2	12	0.005431037	0.504746587	0.613000495
cg08541962	GJD4	10	0.0049525	0.373946423	0.483298475
cg01791238	GLI2	2	0.012370893	0.202131473	0.336109197
cg03962451	GLS	2	0.018637241	0.350110461	0.450544131
cg25605307	GLT25D2	1	0.020447901	0.291850986	0.424089523
cg03704673	GLTPD2;GLTPC	17	0.019539651	0.294778185	0.413243376
cg16762849	GMDS	6	0.013849047	0.253924246	0.398418806
cg13394216	GMDS	6	0.020342802	0.240610275	0.359492963
cg14694205	GMPS	3	0.03208434	0.31008192	0.455177268
cg05308829	GNA12	7	0.022529537	0.588187776	0.714433308
cg06173857	GNA12	7	0.019938902	0.672480372	0.782211394
cg16433737	GNB3	12	0.029215239	0.283823264	0.397062148
cg08001559	GNG2	14	0.033917644	0.294581467	0.400462121
cg03070741	GNG7	19	0.005244	0.583541193	0.709674384
cg12435059	GOLGA4	3	0.000260289	0.56426631	0.697481267
cg16626318	GOLGA4	3	0.029586669	0.469176121	0.569733541
cg17346500	GOLIM4	3	0.033598593	0.348276651	0.503040074
cg27357134	GOLIM4	3	0.018908396	0.389258104	0.525498934
cg25189241	GORASP2	2	0.010263693	0.627880127	0.729184358
cg17676994	GPC1	2	0.005115377	0.383130756	0.48348176
cg11772527	GPC6	13	0.011897273	0.232716842	0.419514527



cg20091187	GPC6	13	0.001551137	0.433607046	0.580382184
cg18880946	GPC6	13	0.001512188	0.551882623	0.687515604
cg06047020	GPC6	13	0.009165681	0.232833347	0.364705758
cg13393408	GPR107;GPR10	9	0.022846725	0.43338118	0.565714926
cg16204524	GPR113	2	0.029572758	0.380428759	0.49930759
cg27641482	GPR124	8	0.001774731	0.516896392	0.656585043
cg09103234	GPR133	12	0.010716335	0.639222006	0.750794087
cg14211097	GPR135;GPR13	14	0.049026647	0.570769721	0.682466899
cg05361273	GPR17;LIMS2;G	2	0.000225975	0.207032102	0.32494758
cg11962524	GPR44	11	0.031638296	0.634703692	0.737095066
cg15390894	GPR68	14	0.017176287	0.285295641	0.386097853
cg04556210	GPR77	19	0.009200763	0.477535782	0.6003914
cg10451565	GPR77	19	0.038335178	0.544847857	0.655276045
cg18421360	GPR98;GPR98	5	0.041810732	0.378147113	0.523722081
cg14213590	GPSM1	9	0.000539424	0.111618468	0.262834548
cg14489965	GPSM1;GPSM1	9	0.001909577	0.365529227	0.526104412
cg14040131	GPSM1;GPSM1	9	0.024575095	0.230897869	0.342201466
cg15983520	GPT	8	0.019844552	0.385826374	0.515836645
cg07658280	GPT	8	0.041671212	0.328233609	0.452718619
cg05380921	GPT2;GPT2	16	0.025547603	0.194733149	0.311614166
cg07041565	GRAMD2	15	0.013306894	0.486036559	0.640382398
cg14605150	GREM1	15	0.00754341	0.37402972	0.544333541
cg00522048	GRK5	10	3.82E-05	0.29394953	0.470931751
cg23537932	GRK5	10	0.000145062	0.478557084	0.653230239
cg17897352	GRK5	10	0.007756493	0.359228889	0.459920738
cg04020590	G RTP1	13	0.003537804	0.288866178	0.433410972
cg01695643	GSC	14	0.006207193	0.216323272	0.414808382
cg23074992	GSC	14	0.017475408	0.166562851	0.348974748
cg15440688	GSC	14	0.019412766	0.339968524	0.466897675
cg13868361	GTF2B	1	0.006352695	0.241488818	0.341520081
cg05426006	GTF2F2	13	0.022231612	0.611213498	0.71781208
cg27372015	GTF3C1	16	0.028538415	0.18721349	0.316676876
cg16335858	GYLTL1B	11	0.000249371	0.242008229	0.383687903
cg27218796	HAND2	4	0.014176238	0.174153186	0.344983105
cg01566965	HAND2	4	0.019043329	0.165502503	0.321042588
cg01967399	HAND2	4	0.013557942	0.21932438	0.369041469
cg08297751	HAND2	4	0.018269387	0.18182336	0.310986239
cg10933003	HAND2	4	0.009224042	0.13193058	0.249495572
cg12828294	HAS2	8	0.008316875	0.397007862	0.553998726
cg24803059	HCCA2	11	0.025771717	0.511666913	0.640324661
cg03565674	HCCA2	11	0.004153394	0.210017073	0.329900981
cg15470102	HCCA2	11	0.009888326	0.25772723	0.375373661
cg25050723	HCCA2;CTSD	11	0.023275252	0.260906823	0.400607307
cg13978447	HCCA2;LOC40	11	0.043561731	0.478514407	0.585057445
cg25893831	HDAC1	1	0.021119736	0.408740936	0.571062279
cg03475776	HDAC4	2	0.000628494	0.262039383	0.36634045

cg01743658	HEATR5A	14	0.014728214	0.369317517	0.472760006
cg02514318	HECW2	2	0.044735102	0.32162413	0.433072724
cg10839322	HERC2	15	0.000114778	0.383907764	0.611417801
cg25958716	HIBCH;HIBCH	2	0.001792882	0.436544158	0.589635542
cg00911794	HIC1;HIC1	17	2.27E-06	0.393604629	0.554645295
cg23621097	HIC1;HIC1	17	2.96E-05	0.310951371	0.446199966
cg24173182	HIC1;HIC1	17	9.92E-06	0.572893066	0.678768643
cg00008621	HIF1A;HIF1A	14	0.00097795	0.31908541	0.444676202
cg26025557	HIGD1A;HIGD1	3	0.013813842	0.553299078	0.707106013
cg16272084	HIP1	7	0.03610927	0.30922813	0.43659645
cg27169610	HIVEP3;HIVEP3	1	0.027680954	0.515677169	0.628887385
cg00542261	HK1;HK1;HK1;H	10	0.031264663	0.146713608	0.280076742
cg20520115	HK2	2	0.000154325	0.216686792	0.33003044
cg25149637	HLA-C	6	0.019409668	0.571857126	0.694798794
cg24389386	HLA-H	6	0.001923522	0.600285084	0.749288503
cg09515921	HLX	1	0.023995	0.480093424	0.594301035
cg14531576	HMCN1;MIR54	1	0.021587425	0.167885445	0.281422535
cg16965605	HMGA2	12	0.029989366	0.3882751	0.527050402
cg07355069	HMGCS1;HMG	5	0.014728116	0.462234822	0.588253724
cg03107888	HOXA13	7	0.036410301	0.480527253	0.590802312
cg19817912	HOXA3	7	0.011081505	0.554678142	0.682156034
cg07094847	HOXA3;HOXA3	7	0.021870617	0.458291667	0.593921892
cg20712820	HOXA3;HOXA3	7	0.030640131	0.480989328	0.586832393
cg12538674	HOXA3;HOXA3	7	0.001018865	0.418046495	0.577569877
cg26127662	HOXA3;HOXA3	7	0.000931875	0.618724042	0.764982434
cg07917150	HOXA3;HOXA3	7	0.028884953	0.491087693	0.624223167
cg24389585	HOXA5	7	0.026069078	0.392115751	0.529370744
cg19196335	HOXA5	7	0.0226678	0.685180116	0.800419207
cg14044640	HOXA6	7	3.38E-06	0.114455988	0.264854688
cg19183743	HOXA6	7	2.22E-05	0.142430821	0.250541121
cg23129930	HOXA6	7	0.000598826	0.295563901	0.402678137
cg17994139	HOXA6	7	0.000213855	0.109963275	0.212372798
cg00567703	HOXC4;HOXC5	12	0.00035739	0.163391869	0.325590954
cg19164987	HOXC4;HOXC5	12	0.003468102	0.171974327	0.278781148
cg22660542	HOXC8	12	0.016232431	0.468965244	0.605853605
cg02227188	HOXC9	12	0.020976635	0.202505256	0.316163714
cg00036110	HPCAL4	1	0.013557063	0.28551699	0.397524347
cg11416620	HS6ST1	2	0.00030776	0.333897263	0.470047607
cg05315365	HSD17B2	16	0.014608055	0.25630825	0.361253479
cg00672936	HTRA4	8	2.84E-05	0.336925269	0.464973731
cg04771100	HTRA4	8	7.85E-05	0.118261052	0.223835785
cg08898569	HYLS1;HYLS1	11	0.038411444	0.291686637	0.403962641
cg04359753	ID4	6	0.000527436	0.13488632	0.270248282
cg24850296	IFLTD1;IFLTD1;	12	0.027297399	0.534072286	0.637960897
cg03065308	IFNGR1	6	0.017826227	0.219258206	0.338385422
cg02102832	IFT140	16	0.041429308	0.512332496	0.647060477

cg12402183	IGF1R	15	0.000707955	0.172521213	0.364509443
cg02350767	IGF1R	15	0.001755759	0.570295067	0.730495892
cg03795574	IGF1R	15	0.006624224	0.426875861	0.585025384
cg08920032	IGF1R	15	0.002651473	0.594710145	0.741500557
cg20388729	IGF1R	15	0.00533313	0.538566963	0.667562313
cg08778287	IGF1R	15	0.025160162	0.618912619	0.728970915
cg00416645	IGFBP5	2	0.032505511	0.472100879	0.586967682
cg27292389	IL15RA;IL15RA	10	0.01176566	0.496395061	0.637882803
cg05042034	IL16	15	0.041584254	0.379392945	0.490267402
cg05860978	IL17B	5	0.00604118	0.321046874	0.424249442
cg26534425	IL18	11	0.04257952	0.491770458	0.608103429
cg13897122	IL18RAP	2	0.004653251	0.234113381	0.371872382
cg24394667	IL1RL2	2	0.007570125	0.374928879	0.510861055
cg06796611	IL24;IL24;IL24;	1	0.036594286	0.387339669	0.495281143
cg12602851	IMPG1	6	8.79E-05	0.565601483	0.66664533
cg05132222	INO80	15	0.038495104	0.278305956	0.378957995
cg16228077	INO80D	2	0.001521985	0.208082457	0.311830143
cg16469046	INPP4A;INPP4A;	2	0.024045499	0.276516449	0.408580195
cg11555067	INPP4A;INPP4A;	2	0.000264414	0.519994373	0.649905507
cg03476007	INPP4B;INPP4I	4	2.10E-05	0.206233553	0.365244022
cg14953730	INPP5A	10	5.52E-05	0.158843474	0.35582406
cg12449716	INPP5A	10	0.002323061	0.454055856	0.617089811
cg02836764	INPP5A	10	0.001865039	0.58475553	0.739603488
cg26193427	INPP5A	10	0.001610553	0.294547592	0.416249714
cg12507869	INPP5A	10	0.012565081	0.329856289	0.437582347
cg02465282	INPP5A	10	0.012701093	0.37669818	0.48005186
cg21140843	INPP5K;INPP5I	17	0.020078082	0.212604934	0.328839621
cg06049367	INSC;INSC	11	0.005792559	0.222414881	0.36285595
cg25940517	IQCD	12	0.028489212	0.274855854	0.378725192
cg04919592	IQCE;IQCE	7	0.000994434	0.238296803	0.355436011
cg22581187	IQGAP2	5	0.009891909	0.401306468	0.534649154
cg26348614	IQGAP2	5	0.014294088	0.400829212	0.525299371
cg14283647	IRS1	2	0.004774075	0.254961504	0.408552566
cg13008631	IRS1	2	0.002836712	0.276345745	0.400506982
cg04129548	IRS1	2	0.003367544	0.215714103	0.334823473
cg00912573	IRS1	2	0.028337145	0.281982258	0.390513715
cg17848496	IRS1	2	0.031292503	0.382213072	0.483320893
cg27552679	ISLR2;ISLR2;ISL	15	0.000480936	0.324437409	0.430476931
cg19650573	ITGA11	15	0.000272237	0.568009917	0.69609722
cg08446038	ITGA2	5	0.021167934	0.2784111	0.40419095
cg05742728	ITGB2;ITGB2	21	0.025794221	0.553233158	0.67564759
cg21105318	ITGB6	2	0.002836712	0.622927829	0.726361135
cg18994033	ITM2C;ITM2C;	2	0.002930956	0.160648924	0.265517255
cg16426321	ITPK1;ITPK1;IT	14	0.018782227	0.534938023	0.640103775
cg25338454	ITPR2	12	0.000150404	0.737698138	0.845309187
cg17052756	JAZF1	7	0.002975878	0.504963362	0.618149765

cg06133771	KATNB1	16	0.033340723	0.384145248	0.496117528
cg14983936	KCNH7	2	0.015743213	0.316756454	0.453639205
cg12746557	KCNJ15;KCNJ1	21	0.000628781	0.401113301	0.519594345
cg08320524	KCNJ15;KCNJ1	21	0.019267804	0.439136775	0.539985282
cg21388745	KCNK5	6	0.001608251	0.277570265	0.458690055
cg14691388	KCNK9	8	0.007536111	0.475810243	0.590570454
cg26504422	KCNN4	19	0.040921587	0.312902777	0.476627383
cg04907802	KCNQ1;KCNQ1	11	0.010395526	0.497955116	0.658893014
cg08376310	KCNQ1;KCNQ1	11	0.031854847	0.222515066	0.3231063
cg02969426	KCTD4;GTF2F2	13	1.95E-05	0.214823719	0.405909583
cg19935055	KDM2A;KDM2	11	0.009372976	0.567308114	0.705737065
cg16062733	KDM2B;KDM2	12	0.002346105	0.231959286	0.391280291
cg11724984	KDM2B;KDM2	12	0.001512188	0.53951669	0.651165121
cg03358468	KDM4B	19	0.002847458	0.349369672	0.54974186
cg22079102	KDM4B	19	0.009317051	0.37411237	0.483122411
cg06884029	KDM4B	19	0.018122452	0.604166054	0.712313351
cg11782515	KDM4B	19	0.015966223	0.763084857	0.864475574
cg14161821	KDM4C;KDM4	9	0.0007845	0.727074653	0.830422897
cg24128630	KDM6B;TMEM	17	0.007689895	0.664647958	0.774721288
cg26723054	KIAA0182;KIAA	16	0.022509615	0.461470666	0.581013041
cg05441854	KIAA0182;KIAA	16	0.003022657	0.320789606	0.425436005
cg22455529	KIAA0195	17	0.018861085	0.280750469	0.4067642
cg03543954	KIAA0513	16	0.000836043	0.584594121	0.703183172
cg06407371	KIAA0513	16	0.01982028	0.263379035	0.373499038
cg05522042	KIAA0513	16	0.010825398	0.158085221	0.260801891
cg27498545	KIAA0802	18	0.005847556	0.465190528	0.604375316
cg03182584	KIAA0895;KIAA	7	8.51E-06	0.354457832	0.500815324
cg17226446	KIAA0922;KIAA	4	0.000884727	0.203392878	0.385585592
cg15733729	KIAA1026;KIAA	1	0.000107723	0.428195997	0.615780148
cg19626253	KIAA1026;KIAA	1	0.037502775	0.602750691	0.730710738
cg22723001	KIAA1026;KIAA	1	0.000293772	0.545251104	0.672482511
cg02232840	KIAA1026;KIAA	1	7.97E-06	0.724142889	0.843088747
cg12380772	KIAA1161	9	0.004181989	0.169711389	0.275966166
cg09579081	KIAA1199	15	0.017794066	0.673639844	0.785262213
cg13732302	KIAA1267	17	0.001799405	0.399491203	0.532163528
cg24350475	KIAA1462	10	0.000133159	0.159353951	0.284188197
cg19603836	KIAA1462	10	0.046648757	0.48751294	0.594095967
cg12478578	KIAA1522	1	0.019088102	0.418733989	0.56077187
cg16007395	KIAA1522	1	0.007543009	0.510126212	0.614203357
cg23977002	KIDINS220	2	0.015986586	0.565293079	0.695156043
cg10091458	KIF12	9	0.000729865	0.646463532	0.754132934
cg20147400	KIF13B	8	2.27E-06	0.756523675	0.872401061
cg09888753	KIF13B	8	0.013761811	0.501181704	0.609165559
cg26186408	KIF2A;KIF2A	5	0.026907475	0.514607303	0.618343395
cg02161701	KIF7	15	0.0154304	0.46884949	0.589657186
cg20176989	KIR3DL2	19	0.034118471	0.422052548	0.529746971

cg14043104	KLF12	13	0.000519283	0.50355474	0.629558902
cg01179818	KLHDC4	16	0.024394336	0.611474123	0.756118009
cg01304993	KLHDC4	16	0.021157388	0.448826533	0.549374732
cg09502111	KLHDC8A	1	0.034285256	0.560368534	0.669521609
cg03445244	KLHL29	2	0.012134422	0.282252446	0.430428691
cg25560443	KLHL29	2	6.01E-06	0.180444459	0.32040479
cg27297315	KLHL29	2	0.010228552	0.350981482	0.460600131
cg00746446	KLHL29	2	0.025624903	0.512320455	0.617326263
cg14551881	KLHL29	2	0.00464132	0.187017542	0.29118592
cg04747180	KLHL5;KLHL5;K	4	0.003652024	0.506729508	0.629715641
cg15241779	KLRD1;KLRD1;I	12	0.004769333	0.532803889	0.68323212
cg04468334	KRBA1	7	0.000640551	0.429265007	0.546010446
cg04918314	KRT75	12	0.016748449	0.576742204	0.69265019
cg07636477	KRT79	12	0.00416437	0.401709151	0.50379084
cg13506670	KTN1;C14orf35	14	0.039367467	0.341402196	0.442709803
cg10191002	LAG3	12	0.002407219	0.178345949	0.290505328
cg09803764	LAMB1	7	0.00218797	0.411299793	0.558059228
cg19471856	LAMB4	7	0.004470123	0.540011288	0.688414768
cg01550161	LAMB4	7	0.002257292	0.628745081	0.743795066
cg13689073	LARP1	5	0.039222094	0.124672218	0.231821539
cg05380759	LARS2	3	0.000424824	0.106376883	0.223142644
cg09045552	LASS6	2	8.15E-06	0.606772869	0.756928443
cg08822578	LATS2	13	0.035513361	0.527177264	0.636003881
cg25589001	LCOR;LCOR;LC	10	0.019590545	0.576332407	0.681361667
cg00547480	LDB1;LDB1	10	0.001532422	0.343824948	0.445746657
cg17607330	LDHA;LDHA;LE	11	0.02555741	0.362559008	0.472236662
cg27179622	LEFTY2	1	0.011696913	0.204827789	0.313246803
cg14150727	LGR6;LGR6;LG	1	0.000632124	0.231490752	0.350226796
cg06817772	LIMA1;LIMA1	12	0.000567209	0.305878554	0.42422426
cg06354975	LIMCH1;LIMCH	4	0.003226746	0.645204846	0.785231536
cg01578293	LIMCH1;LIMCH	4	0.011389263	0.517998223	0.639721653
cg01942372	LIMS1	2	0.003563552	0.41779141	0.574308776
cg08441822	LIPC	15	0.004119243	0.488747231	0.603767081
cg25416605	LIPG	18	0.003309353	0.285045295	0.41851104
cg08972916	LLGL2;LLGL2;LI	17	0.026032853	0.354114876	0.471158639
cg16515546	LMF1	16	0.010252716	0.426603053	0.550759897
cg04554272	LMF1	16	0.001866714	0.386108827	0.495780065
cg23886165	LMO7	13	0.01012781	0.409875466	0.532694474
cg06946543	LMO7;LMO7	13	0.00499449	0.256464765	0.37590908
cg15003194	LOC100128239	11	0.000373084	0.458509553	0.589617166
cg05304979	LOC100129637	16	0.004581375	0.232351094	0.356278143
cg01624637	LOC100129637	16	0.036034067	0.44031752	0.551411298
cg02272576	LOC100132354	6	0.034767919	0.204106335	0.318012267
cg04859117	LOC100133549	11	0.01715518	0.33348371	0.487961523
cg24143374	LOC100133617	1	0.008036499	0.334787594	0.445570259
cg04517258	LOC100133669	8	0.031310688	0.197045521	0.316454563

cg25265234	LOC100302640	3	0.034828721	0.330422351	0.445132315
cg14892517	LOC100302657	2	0.023290837	0.518317097	0.623291871
cg27053629	LOC145474	14	0.01723909	0.514385445	0.641665239
cg23093870	LOC145837	15	0.000247772	0.510430535	0.615188885
cg22793142	LOC148696	1	0.002736654	0.483781646	0.600784083
cg24921186	LOC153684	5	0.00027627	0.50107998	0.657420097
cg07580867	LOC283050;LC	10	0.004940142	0.314620283	0.467168162
cg01291863	LOC283332	12	0.026701761	0.493559168	0.614295547
cg26616201	LOC283867	16	0.001916157	0.244747368	0.370126784
cg06306519	LOC285074	2	0.02420259	0.453863538	0.565064158
cg03772511	LOC285419;LC	4	0.030823657	0.55571968	0.658216268
cg24288715	LOC285796	6	0.015145803	0.49255311	0.605779162
cg11382529	LOC401463	8	0.000253928	0.296054973	0.437346106
cg00842231	LOC55908;DO	19	0.000770524	0.518118131	0.637250249
cg21424595	LOC646762	7	0.000665345	0.426065513	0.573545866
cg13750802	LOC646982;LC	13	0.01210248	0.371379157	0.507269609
cg08569979	LOC646982;LC	13	0.012871732	0.387727531	0.507733338
cg13159985	LOC646982;LC	13	0.000823477	0.706285111	0.807523996
cg16314851	LOC723809	7	0.041155941	0.304507406	0.450231452
cg06768079	LOXL2	8	0.029433901	0.41356792	0.552112333
cg00326251	LOXL2	8	0.000224798	0.285225233	0.405137984
cg21422605	LPAR3	1	0.000683849	0.328136599	0.451660443
cg00281273	LPCAT1	5	0.001232932	0.186782475	0.314628394
cg15052335	LPIN2;LPIN2	18	0.01349356	0.328650513	0.46226221
cg11198596	LRIG1	3	0.001417556	0.100650611	0.23100465
cg16931822	LRIG1	3	0.018338726	0.516836188	0.641820475
cg16409259	LRP5	11	0.008699203	0.242221117	0.397289926
cg13738327	LRP5	11	0.018282774	0.302726851	0.457044387
cg12832726	LRP5	11	0.000463686	0.106075792	0.21104996
cg11950754	LRP8;LRP8;LRP	1	0.002635339	0.262220126	0.428612617
cg27022531	LRRC1	6	0.005710525	0.299320628	0.415267525
cg26466258	LRRC14B	5	0.010066284	0.644562321	0.747645684
cg17031967	LRRC16A	6	0.016176006	0.406512776	0.548054772
cg16875182	LRRC2;TDGF1;	3	0.001080098	0.299769225	0.423115094
cg07566790	LRRC48;LRRC4	17	0.021702738	0.255887493	0.356944678
cg17718703	LRRC8D;LRRC8	1	0.030960168	0.359307915	0.493490491
cg15579587	LRRFIP1;LRRFII	2	0.000102627	0.367452597	0.491224658
cg07165120	LRRK1	15	0.02539017	0.237359202	0.387857695
cg01330815	LRRN2;LRRN2	1	0.034674001	0.447315491	0.555159682
cg09245582	LSM4	19	0.015033657	0.386861983	0.534805485
cg13432911	LSM6	4	0.005911757	0.60913359	0.72932086
cg23272978	LTBP3;LTBP3;L	11	0.004978935	0.489304387	0.597007323
cg19753174	LYPLAL1	1	0.014855871	0.208057346	0.342288899
cg02357637	LYSMD4	15	0.009674064	0.199590917	0.304736125
cg24704593	MACC1	7	0.013478846	0.484876408	0.613280266
cg03840849	MACC1	7	0.006591112	0.471626391	0.579638462

cg04683210	MACROD1	11	0.007920225	0.334686037	0.515445833
cg19324462	MACROD1	11	0.00480381	0.36030931	0.509343155
cg09705456	MACROD1	11	0.005485428	0.560523565	0.668111357
cg16222367	MAD1L1;MAD	7	0.00929332	0.350894692	0.505266519
cg17103856	MAD1L1;MAD	7	0.006508834	0.457878021	0.596683535
cg21004924	MAD1L1;MAD	7	0.008116924	0.468033777	0.606773764
cg22963979	MAD1L1;MAD	7	0.016461817	0.213869374	0.352525442
cg06994282	MAD1L1;MAD	7	1.46E-05	0.621386738	0.758042007
cg08722586	MAD1L1;MAD	7	4.27E-05	0.564812845	0.693403497
cg25744355	MAD1L1;MAD	7	0.036199165	0.209144888	0.322593343
cg17551891	MAD1L1;MAD	7	0.005353266	0.642238844	0.752718134
cg27238358	MAD1L1;MAD	7	0.000947134	0.552095672	0.661981343
cg24295561	MAD1L1;MAD	7	0.015138641	0.391702331	0.498714905
cg19624444	MAD1L1;MAD	7	0.001836677	0.233135198	0.339726331
cg03043709	MAD1L1;MAD	7	0.000106049	0.701114003	0.80536549
cg26672959	MAGI1;MAGI1	3	0.004548588	0.43919449	0.541297636
cg18405299	MAGI2	7	0.030911853	0.385469646	0.511369764
cg19755714	MAML3	4	0.0275256	0.428234983	0.53762881
cg24661274	MAP1B	5	0.002602803	0.378657993	0.537195572
cg26779305	MAP2K4;MIR7	17	0.036214931	0.167516519	0.277318799
cg02634454	MAP4;MAP4	3	0.011067944	0.477062082	0.587045354
cg18013356	MAP4K2	11	0.044305472	0.593171457	0.69713358
cg18489755	MAP6D1	3	0.017360264	0.153536294	0.263158128
cg14622443	MARCH10	17	0.022686524	0.329071852	0.432199261
cg18640536	MARCH3	5	0.025232497	0.192554687	0.327059082
cg18140824	MASP1;MASP1	3	0.043474485	0.342809631	0.476058435
cg19458529	MAST4;MAST4	5	0.000162138	0.324055374	0.448642117
cg21745307	MATN4;RBPJL;	20	0.001177156	0.385606312	0.547608784
cg12429065	MB	22	0.019040947	0.234409045	0.384340043
cg25006077	MBNL1;MBNL1	3	0.002787342	0.094025953	0.224195035
cg11862665	MBNL2;MBNL2	13	0.001289184	0.438245074	0.591938098
cg07289766	MBNL2;MBNL2	13	0.036756489	0.525632648	0.634998951
cg26358590	MBP;MBP	18	0.000736656	0.690743446	0.80218145
cg15730074	MCF2L;MCF2L	13	0.009057986	0.557678876	0.691056004
cg10588471	MCF2L;MCF2L	13	0.014722349	0.444295606	0.551175
cg16043368	MCF2L;MCF2L	13	0.004286607	0.458157163	0.563153929
cg24796644	MDGA1	6	3.63E-05	0.43231757	0.539695171
cg12328429	ME3;ME3;ME3	11	0.005469098	0.419168253	0.569743132
cg21067465	ME3;ME3;ME3	11	0.005485142	0.439074804	0.575642003
cg09416908	ME3;ME3;ME3	11	0.035159281	0.361734347	0.475781672
cg20777829	MED13L	12	0.001818583	0.238012976	0.371447817
cg15412772	MED24;MED24	17	7.89E-05	0.111332769	0.247674956
cg09550083	MEIS1	2	0.026269544	0.207668346	0.391133889
cg05877497	MEIS1	2	0.030867531	0.096565686	0.266988641
cg01271812	MEIS1	2	0.025496974	0.126579741	0.283954263
cg06833110	MEIS1	2	0.018507085	0.092139825	0.242865736

cg26537478	MEIS1	2	0.03446599	0.110112135	0.256894981
cg09535924	MEIS1	2	0.048581068	0.218022354	0.354196071
cg12082609	MEIS1	2	0.034344805	0.121548304	0.25673156
cg10464312	MEIS1	2	0.040577356	0.17336793	0.306172605
cg23398076	MEIS1	2	0.0077635	0.093671337	0.218742098
cg11433622	MEIS1	2	0.023325203	0.070867734	0.19478847
cg17107572	MEIS1	2	0.025217098	0.058401566	0.178327985
cg22731271	MEIS1	2	0.029215239	0.107161545	0.224043694
cg17945976	MEIS1	2	0.045465711	0.05555594	0.171187531
cg08238215	MEIS1	2	0.020620548	0.121356212	0.233236861
cg00995986	MEIS1	2	0.020389595	0.068679135	0.18027142
cg23972738	MEIS1	2	0.046509667	0.091202285	0.201101177
cg21177426	MEIS2;MEIS2;I	15	0.002472404	0.23197456	0.468328285
cg26708220	MEIS2;MEIS2;I	15	0.003288448	0.159023825	0.304122211
cg19010490	MEIS2;MEIS2;I	15	0.026921356	0.269010773	0.412346205
cg13181164	MEIS2;MEIS2;I	15	0.017009848	0.097028398	0.233033178
cg15902390	MEIS2;MEIS2;I	15	0.007101507	0.132876481	0.268720003
cg23677243	MEIS2;MEIS2;I	15	0.000709763	0.16468712	0.299366272
cg13181974	MEIS2;MEIS2;I	15	0.017577555	0.111983208	0.239075434
cg02377544	MEIS2;MEIS2;I	15	0.028690784	0.302145493	0.418400411
cg00691830	MEIS2;MEIS2;I	15	0.007877167	0.095929696	0.199114487
cg25447144	MEIS2;MEIS2;I	15	0.019785013	0.530562915	0.63285265
cg26585007	MERTK	2	0.019046024	0.539563102	0.64998279
cg03260530	METRNL	17	0.019651366	0.272126709	0.401836895
cg01574390	METTL9;METT	16	0.000860898	0.220022822	0.338880305
cg11717597	MEX3A	1	0.000539146	0.186485023	0.308886769
cg09831055	MEX3A	1	0.025820492	0.460760906	0.566697653
cg13870275	MFAP3L;MFAP	4	0.000907999	0.368615899	0.528396504
cg04498801	MFSD10;MFSC	4	0.029789719	0.476096863	0.577490975
cg15394255	MGAT4C	12	0.00813935	0.439667184	0.598992443
cg07382437	MGC14436;MGC	12	0.005013231	0.436560225	0.556463053
cg01254644	MGC15885	15	0.006480493	0.479989558	0.592492172
cg22559013	MGC27382	1	0.000244716	0.525483394	0.653709443
cg17761538	MGC70857;LR	8	0.005542799	0.472832083	0.590676518
cg07638938	MGMT	10	0.002836712	0.350230983	0.500209909
cg10505257	MGRN1;MGRN	16	0.031690649	0.238280572	0.357420573
cg01156249	MGRN1;MGRN	16	0.011469181	0.309880342	0.427236199
cg02492818	MICALL2	7	0.039794181	0.459350016	0.571708833
cg02759751	MICALL2	7	0.034543674	0.539975137	0.647497656
cg15857635	MICALL2	7	0.017955692	0.602632518	0.705620106
cg01940297	MIR1207;PVT1	8	0.00339825	0.476129292	0.62939158
cg07281938	MIR140;WWP1	16	0.001407052	0.225083561	0.395991471
cg00699693	MIR140;WWP1	16	0.021194991	0.202223502	0.338168373
cg03549146	MIR140;WWP1	16	0.000310444	0.111179875	0.233661475
cg03417340	MIR140;WWP1	16	0.020168152	0.121837363	0.230787531
cg15426815	MIR200C	12	0.005377492	0.400175331	0.512824617



cg02268620	MIR24-1;C9orf	9	0.009948342	0.614183265	0.733851431
cg04522625	MIR548A2	3	0.008744587	0.447612667	0.579330594
cg14048837	MIR548Q;ZNF4	9	0.001736213	0.556649232	0.687790624
cg18156845	MIR744;MAP2	17	0.000589934	0.345719022	0.559511427
cg08652499	MITF;MITF;MI	3	0.000360517	0.367585864	0.491188748
cg18503031	MITF;MITF;MI	3	5.20E-05	0.616382088	0.729485218
cg00434573	MKNK2;MKNK	19	0.00027078	0.256631182	0.369188593
cg07746514	MLEC	12	0.009120781	0.491377664	0.620851575
cg25076197	MLL5;MLL5	7	0.015499645	0.285781865	0.428675623
cg06639874	MLPH;MLPH	2	0.013332275	0.624468004	0.747254728
cg07072391	MLPH;MLPH	2	0.000938025	0.586335105	0.699894171
cg12854428	MMP16;MMP1	8	0.000205017	0.631472558	0.745360442
cg05270866	MMP28	17	0.033914398	0.662742537	0.769665377
cg14589810	MMP28	17	0.013725329	0.388155758	0.488185008
cg00514241	MN1	22	0.023167291	0.434217974	0.573590071
cg06004017	MN1	22	0.01508316	0.323529788	0.44058953
cg08868601	MORN1	1	0.028924973	0.38689338	0.499958619
cg02473847	MORN1;LOC10	1	5.04E-05	0.454944039	0.651775916
cg09811127	MORN1;LOC10	1	0.001906863	0.454496988	0.581591138
cg14133850	MPP7	10	0.007152857	0.394590879	0.567340266
cg15406585	MPP7	10	0.001774731	0.592561121	0.711105793
cg16527477	MPP7	10	0.042554021	0.246109933	0.357346215
cg23508908	MRAP2	6	0.043136977	0.411985938	0.523536061
cg10119160	MREG	2	0.00124537	0.591907235	0.69519402
cg15897435	MRPL1	4	0.031236217	0.145192175	0.351981074
cg00510149	MRVI1;MRVI1;	11	0.000139435	0.40306369	0.586298977
cg07861448	MSC	8	0.000975879	0.198365083	0.333438253
cg26794715	MSC	8	0.000199677	0.24838223	0.358074283
cg13654836	MSI2;MSI2	17	0.001066383	0.202112575	0.35338197
cg12441066	MSI2;MSI2	17	0.008962803	0.634403419	0.760968919
cg06966839	MSI2;MSI2	17	0.002431457	0.698852689	0.801874661
cg08677210	MSI2;MSI2	17	0.034050048	0.377685092	0.480135377
cg21538208	MSX1	4	0.000140459	0.213895058	0.367051602
cg09748975	MSX1	4	0.011510744	0.368606825	0.489675366
cg18920088	MTHFD1L	6	0.015756377	0.25543505	0.420359839
cg24683185	MTMR15	15	0.021548823	0.304185473	0.435922794
cg07128900	MTSS1L	16	0.019590545	0.549594097	0.658078232
cg07813065	MTSS1L	16	0.019070095	0.357756609	0.463317406
cg01304894	MTSS1L	16	0.028375155	0.304900801	0.409510176
cg06722630	MUC12;MUC1	7	0.000140489	0.399766846	0.523148213
cg25566714	MUM1;MUM1	19	0.002820889	0.717590418	0.843128367
cg13986417	MVK;MMAB;N	12	0.002781413	0.514539429	0.657832959
cg17797848	MYBPHL	1	0.03079154	0.527413066	0.658248014
cg25930644	MYH10	17	0.007684906	0.352058837	0.472313394
cg10123201	MYL3	3	0.007091623	0.350229261	0.47272583
cg25513776	MYLK4	6	0.003623655	0.51383964	0.669337395

cg20029153	MYO18A;MYO	17	0.004846976	0.182920354	0.317001115
cg15799605	MYO1D	17	0.00442044	0.276857694	0.407896368
cg22031252	MYO1D	17	0.008457061	0.367076741	0.473766041
cg14100211	MYO9A;SENP8	15	0.00361097	0.427640425	0.579175936
cg11424828	MYOM2	8	0.031976142	0.142334245	0.295426991
cg21847720	MYOM2	8	0.00751785	0.070570163	0.192482211
cg19368031	MYST4	10	0.000253928	0.387819429	0.563799478
cg06098530	MYST4	10	0.000931376	0.272447609	0.414994861
cg11849327	MYST4	10	0.018662624	0.346107662	0.478035537
cg20721467	MYST4	10	0.000458204	0.327083423	0.457072588
cg15067606	NAA50	3	0.008910952	0.25074182	0.379429268
cg16204989	NALCN	13	0.016510842	0.384127778	0.488010592
cg04277574	NAV1	1	0.000100772	0.639668102	0.802920964
cg14969261	NAV2	11	0.008408817	0.306125067	0.463607349
cg24137774	NAV2	11	0.005516871	0.520699785	0.628441482
cg23371436	NAV2;NAV2;N	11	0.003016714	0.28931753	0.426832445
cg01816186	NBAS	2	0.002539921	0.329554571	0.494134259
cg27110054	NCALD;NCALD	8	0.00013064	0.170298215	0.271710809
cg21160372	NCAM2	21	0.003713714	0.337172835	0.437190186
cg19865916	NCDN;NCDN;N	1	0.001091572	0.398000125	0.55653301
cg02099877	NCEH1;NCEH1	3	0.006062957	0.243987442	0.368995542
cg01579216	NCF2;NCF2	1	0.009200763	0.232264176	0.368512035
cg03729042	NCF2;NCF2	1	0.032111096	0.288147367	0.404760839
cg26428069	NCKAP5;NCKA	2	0.019377585	0.293378395	0.41693503
cg27044649	NCOR2;NCOR2	12	0.002318658	0.293172389	0.47231262
cg20494738	NCOR2;NCOR2	12	0.000775846	0.587482924	0.766608323
cg11197258	NCOR2;NCOR2	12	0.014774313	0.222676092	0.387851487
cg10996589	NCOR2;NCOR2	12	0.004375526	0.293613253	0.452284289
cg19341309	NCOR2;NCOR2	12	0.01016484	0.181225446	0.306130313
cg22611259	NCOR2;NCOR2	12	5.26E-05	0.677247477	0.790546104
cg23128949	NCOR2;NCOR2	12	0.001811824	0.538123368	0.643961272
cg11607710	NCOR2;NCOR2	12	0.027512219	0.413337805	0.514579854
cg04579183	NCRNA00052	15	0.006893737	0.409116932	0.616696201
cg17519645	NCRNA00085	19	0.000700227	0.138612071	0.246761193
cg10859327	NCRNA00093;I	10	0.049743819	0.215496547	0.377915247
cg02983759	NCRNA00111	21	0.001009975	0.308780424	0.429598636
cg01753209	NCRNA00111	21	0.000391538	0.369746566	0.470682019
cg13049432	NCRNA00114;I	21	0.032108071	0.481862998	0.589176014
cg01828328	NDRG1;NDRG1	8	0.003228523	0.480891341	0.582486085
cg16674484	NDST1	5	0.002574412	0.199817697	0.332034354
cg06677890	NDST1	5	0.000425843	0.115946997	0.229263214
cg16018002	NEDD9	6	0.004401874	0.626960574	0.727128435
cg25408950	NEK7	1	0.026936379	0.675904267	0.77672185
cg11706790	NEU4;NEU4	2	0.001608251	0.380855248	0.560310348
cg16660312	NEU4;NEU4	2	0.000380013	0.271365169	0.426032992
cg10504150	NEU4;NEU4	2	0.001101047	0.509795466	0.639419218

cg24429037	NEU4;NEU4	2	0.005714077	0.44865005	0.577291211
cg18095041	NEU4;NEU4	2	0.003200997	0.338379335	0.463377101
cg22399646	NEU4;NEU4;NI	2	0.001132461	0.593013513	0.717157083
cg20791593	NEU4;NEU4;NI	2	0.030190573	0.223241606	0.333153218
cg13098379	NFASC;NFASC;	1	0.048581068	0.481849816	0.600242718
cg27426044	NFASC;NFASC;	1	0.010408838	0.317955354	0.418162253
cg04110750	NFAT5;NFAT5;	16	0.029176731	0.256222674	0.410471107
cg14715383	NFATC1;NFATC	18	0.016620703	0.303286296	0.452435012
cg16536399	NFATC1;NFATC	18	0.002547534	0.273059589	0.415041031
cg05718035	NFATC1;NFATC	18	0.006226904	0.297540745	0.414379324
cg15517343	NFATC1;NFATC	18	0.026148648	0.419737333	0.527668429
cg23240477	NFATC1;NFATC	18	0.023382676	0.181692389	0.287475305
cg07342752	NFATC1;NFATC	18	0.000930639	0.40135632	0.596237785
cg23384027	NFE2;NFE2	12	0.000266325	0.256681993	0.385022757
cg09773897	NFIC	19	0.008725087	0.386752156	0.500889679
cg13649253	NFIX	19	0.011373085	0.262222431	0.39622288
cg11135080	NFYC;NFYC;NF	1	0.021608959	0.411480134	0.534074059
cg26152051	NHEJ1	2	0.002487806	0.486040739	0.652997188
cg03438773	NHEJ1	2	0.000905894	0.290459499	0.428135939
cg06132620	NHSL1;NHSL1;	6	0.043412301	0.494467954	0.61632684
cg07573797	NIPA1;NIPA1	15	0.001525471	0.737000809	0.858715498
cg13386926	NIPAL4	5	0.022819511	0.634280287	0.757165127
cg05475440	NLK	17	0.021794138	0.382229362	0.487266246
cg09624807	NLRC5	16	0.001585583	0.343417238	0.509436738
cg14528979	NOTCH1	9	0.01318878	0.290437232	0.498211046
cg14494733	NOTCH1	9	0.007322273	0.320045109	0.52428962
cg21245132	NOTCH1	9	0.000251179	0.587406285	0.733777424
cg13613245	NOTCH1	9	0.019027757	0.422010908	0.568113103
cg14205001	NOTCH1	9	0.0040926	0.583805767	0.703048394
cg23156439	NPFFR1	10	0.007733218	0.62113643	0.728600905
cg22082015	NR1D1	17	0.000254433	0.345785538	0.499320407
cg02863947	NR1I2;NR1I2	3	0.001293444	0.687113146	0.795047576
cg17841545	NRAP;NRAP	10	0.006992343	0.3745611	0.52925712
cg20712980	NRF1;NRF1	7	0.006315762	0.254854197	0.370819004
cg03896273	NRF1;NRF1	7	0.005052758	0.563942832	0.670744708
cg05802704	NRG3;NRG3;N	10	0.0256188	0.382042882	0.482947293
cg21660452	NRXN2;NRXN2	11	0.011486078	0.425789969	0.580955074
cg09803321	NT5C2;NT5C2	10	5.08E-05	0.142848961	0.243255728
cg25064331	NT5C3;NT5C3;	7	0.011720613	0.33307238	0.467778142
cg12620806	NTF3;NTF3	12	0.017002334	0.420737333	0.568843135
cg02926307	NUAK1	12	0.014596215	0.193335078	0.313051361
cg20075675	NUAK1	12	3.91E-05	0.497371112	0.609333347
cg13301931	NUDCD3	7	0.006668209	0.51514703	0.615386029
cg20633370	NXN	17	0.007454281	0.440772082	0.584597964
cg19669385	NXN	17	0.041126563	0.291782989	0.421172492
cg24101979	NXN	17	0.009783689	0.352114292	0.470937289

cg19956147	NXN	17	0.014481784	0.172789181	0.276477976
cg19775582	ODZ2	5	0.000978657	0.678618578	0.781089892
cg19468534	OIP5;NUSAP1;	15	0.018616109	0.341369319	0.454271478
cg13822849	OLFM1	9	0.000700541	0.32117516	0.487587694
cg04370634	OSBPL10	3	0.003880599	0.580289896	0.684151829
cg05358575	OTOF	2	0.000885129	0.578464061	0.699978285
cg23675000	OTUD7A	15	0.000949348	0.49113924	0.613933527
cg09428340	PACRG;PACRG	6	0.012766495	0.356455049	0.468176267
cg15976636	PACRG;PARK2;	6	0.000459882	0.489119925	0.610484015
cg07521618	PACS2;PACS2	14	0.004653975	0.278674931	0.399488993
cg27545565	PALLD;PALLD;f	4	0.006269444	0.344389274	0.505284315
cg16633925	PALM;PALM	19	0.004508356	0.691162577	0.846821203
cg21204870	PALM2;PALM2	9	0.015765973	0.53787947	0.673091706
cg17259761	PAM;PAM;PAM	5	0.014737554	0.526637065	0.628817438
cg22365313	PAPSS1	4	0.033657763	0.43485468	0.545444003
cg09720012	PAPSS1	4	0.038145562	0.521699188	0.625198071
cg11646078	PARD3	10	0.000459033	0.51790351	0.628339861
cg08623277	PARD3B;PARD	2	0.031799919	0.531353581	0.659474212
cg21038418	PARD3B;PARD	2	0.001213293	0.632830411	0.742145595
cg13069815	PAWR	12	0.018655282	0.395351045	0.538720926
cg05923681	PBRM1;PBRM:	3	0.012878502	0.546446281	0.664092852
cg06022884	PCCB	3	0.025715583	0.499920364	0.607125741
cg00160440	PCDH10	4	0.000586686	0.246341763	0.453783327
cg18869485	PCDHGA4;PCD	5	0.022027448	0.508781849	0.625404311
cg14110086	PCTP;PCTP	17	0.006338488	0.165545654	0.265749164
cg19316405	PDDC1	11	0.049306185	0.257912574	0.37550012
cg06492024	PDE1A;PDE1A	2	0.011941083	0.637401713	0.744091221
cg25660428	PDE4C;PDE4C	19	0.00248841	0.629571953	0.74131746
cg23987137	PDE4D;PDE4D;	5	0.000581377	0.321338516	0.48902059
cg25317315	PDE4DIP;PDE4	1	0.018766664	0.273297417	0.379611729
cg24674437	PDE6B;PDE6B;	4	0.039213786	0.423347441	0.538624117
cg07576186	PDHB	3	0.005632837	0.339148434	0.523437094
cg10093934	PDK1	2	0.013931325	0.344728563	0.49166221
cg20714347	PDLIM1	10	0.021005211	0.317145997	0.439996218
cg01244128	PDPK1;LOC652	16	0.017762899	0.388561053	0.494602428
cg00551589	PDPK1;PDPK1	16	0.048260354	0.726480418	0.830168101
cg16590190	PDPN;PDPN	1	1.45E-05	0.260683785	0.394657966
cg24720151	PDS5A;PDS5A;	4	0.008509249	0.419906311	0.529874319
cg16724811	PDXDC1	16	0.00010986	0.617594371	0.738187991
cg11565786	PDZD2	5	0.008504995	0.635813157	0.745432272
cg13019092	PDZK1	1	0.005940671	0.277543798	0.418233238
cg13050115	PDZRN3	3	0.031484549	0.415619314	0.571842727
cg25688523	PDZRN3	3	0.007331002	0.307547948	0.44254502
cg27202075	PDZRN3	3	0.001022547	0.60994696	0.731022945
cg13521002	PEBP4	8	0.006548911	0.378228194	0.518996824
cg09327610	PER3	1	0.014720275	0.29600778	0.469898681

cg25821223	PERP	6	0.000726527	0.358847235	0.536827484
cg08289056	PFKFB3	10	4.27E-05	0.438207139	0.634476816
cg03261682	PFKFB3	10	0.015758067	0.390776173	0.509444677
cg07102808	PFKFB3;PFKFB3	10	0.008408703	0.231819041	0.359455556
cg19084628	PFKFB3;PFKFB3	10	0.038416235	0.297783075	0.413318935
cg13782176	PFKFB3;PFKFB3	10	0.036761844	0.480204929	0.580900008
cg08568670	PFKFB4	3	0.010081254	0.398642477	0.55885131
cg04026948	PGCP	8	0.02188311	0.183704619	0.330061872
cg04839673	PGM1	1	0.00143112	0.411091172	0.584195596
cg03891302	PHACTR1	6	0.017036871	0.580042667	0.704953888
cg01192112	PHACTR2;PHACTR1	6	0.008473969	0.263429687	0.401493499
cg16220788	PHF21A;PHF21A	11	0.022750531	0.191042409	0.330956322
cg13471712	PHF21A;PHF21A	11	0.00041814	0.445232855	0.55250416
cg20131219	PHLDB2;PHLDB2	3	0.026569784	0.308223355	0.456396098
cg21857668	PHLDB2;PLCX1	3	0.001990794	0.605115167	0.711909644
cg00416882	PIAS2;PIAS2	18	0.007824392	0.343846536	0.477872204
cg16508714	PIK3AP1	10	0.003115838	0.39539319	0.514448756
cg03771739	PIP4K2A	10	1.19E-06	0.319660189	0.612229127
cg11327029	PIP4K2A	10	0.003356076	0.324195195	0.560447291
cg19397801	PIP4K2A	10	0.004979705	0.312127357	0.536634509
cg19423978	PIP5K1C	19	0.002558931	0.30215355	0.42338575
cg12148647	PIP5K1C	19	0.001252221	0.16587788	0.278003261
cg15756507	PITPNC1;PITPNC1	17	0.000145802	0.455022375	0.576692421
cg07284476	PITPNC1;PITPNC1	17	0.015731543	0.637444822	0.742753303
cg24967811	PITPNM2	12	0.002749537	0.324568636	0.45925491
cg15466933	PITPNM2	12	0.007347152	0.530508255	0.648306655
cg05399718	PITPNM2	12	0.022320841	0.230312917	0.341187247
cg13037550	PITPNM2	12	0.033668449	0.560872622	0.666951751
cg13168187	PKP4;PKP4	2	0.002714744	0.322004343	0.51530747
cg20438915	PKP4;PKP4	2	0.000172829	0.690029287	0.792066003
cg11131599	PLEKHA6	1	9.47E-05	0.413062938	0.60424367
cg25407979	PLEKHA6	1	0.004258657	0.520625636	0.662677105
cg08445687	PLEKHF1	19	0.00901897	0.158609142	0.275179345
cg16274899	PLEKHG3	14	0.000424028	0.212551675	0.312637803
cg11546777	PLXDC2	10	0.003316883	0.330958324	0.506977293
cg03631457	PLXDC2	10	0.005849846	0.441451781	0.577361413
cg20130744	PLXDC2	10	0.02274478	0.343140805	0.46098483
cg14899131	PLXDC2	10	0.001198472	0.586181428	0.704010075
cg02536263	PLXDC2	10	0.007733218	0.673027654	0.788088138
cg24161018	PLXNA4	7	0.002587583	0.414553119	0.584349364
cg09837648	PLXNB1;PLXNE1	3	0.00028008	0.254992981	0.442641046
cg11602148	PLXNB1;PLXNE1	3	0.028361861	0.471519707	0.608024314
cg27206976	PLXNB2	22	0.011331436	0.270511199	0.380740535
cg23347790	PLXNC1	12	5.66E-05	0.639325683	0.750637471
cg07078269	PLXND1	3	0.002706966	0.364336608	0.54132934
cg15629311	PLXND1	3	2.60E-05	0.231417513	0.379123267

cg27353085	PLXND1	3	0.026076455	0.270530785	0.413700397
cg07908223	PMEPA1;PMEF	20	0.013460264	0.320150251	0.467093149
cg23148094	PNLIPRP1	10	0.016030855	0.432523349	0.547685255
cg27178772	PNRC1	6	0.024972741	0.340198019	0.448309008
cg14682080	POLS	5	0.002008862	0.608656299	0.737719903
cg18241308	PON3	7	0.004909496	0.576443821	0.682961182
cg21286173	PPAPDC1B	8	0.047361191	0.217933885	0.35281571
cg20484417	PPFIA2	12	0.026607516	0.447533326	0.558165236
cg10952234	PPFIA4;PPFIA4	1	0.001469397	0.358398732	0.478008051
cg24000087	PPFIA4;PPFIA4	1	0.008619508	0.30556332	0.419946202
cg21058511	PPM1H	12	0.029337085	0.439756558	0.562435785
cg06740440	PPM1J	1	7.80E-06	0.590459011	0.815352148
cg24520381	PPP1R1B;PPP1	17	0.027816583	0.39170584	0.506169079
cg25409308	PPP2R1B	11	0.00934056	0.475434375	0.588738982
cg02265810	PPP2R2D;PPP2	10	0.045008242	0.453160975	0.594097053
cg12417775	PPP2R5A	1	3.09E-06	0.289394907	0.482676526
cg09112613	PRAM1	19	0.017655149	0.63608864	0.739201277
cg22731637	PRDM11	11	4.81E-06	0.140898826	0.249804771
cg06911744	PRDM16;PRDM	1	0.00708809	0.275170452	0.432207154
cg26425711	PRDM16;PRDM	1	0.002033837	0.288334277	0.422816982
cg11138362	PRDM16;PRDM	1	4.49E-05	0.139879799	0.267577097
cg11392550	PRDM16;PRDM	1	0.039386231	0.224213443	0.346942031
cg17601209	PRDM16;PRDM	1	0.030708578	0.308707714	0.428816072
cg22497969	PRDM16;PRDM	1	0.032957179	0.133190072	0.245383224
cg23025459	PRDM16;PRDM	1	0.000480997	0.362722316	0.469264513
cg22720392	PRDM16;PRDM	1	0.027840903	0.19773912	0.303224806
cg19644991	PRDM6	5	0.007493589	0.434906447	0.595484036
cg03311556	PRDM8	4	0.000612653	0.287350346	0.497643271
cg04858148	PRDM8	4	0.001071656	0.345318403	0.52653165
cg06440348	PRDM8	4	0.027386211	0.324678798	0.433122427
cg09595050	PRDM8	4	0.002466292	0.338655923	0.439980481
cg02732915	PRDM8;PRDM	4	0.020600841	0.434701702	0.603915208
cg02941135	PRDM8;PRDM	4	0.009983483	0.504205464	0.664035162
cg05522011	PRDM8;PRDM	4	0.00157639	0.34689371	0.499967473
cg05452645	PRDM8;PRDM	4	0.000158433	0.220573231	0.370321893
cg00138041	PRDM8;PRDM	4	0.00044896	0.210567372	0.347187034
cg11388320	PRDM8;PRDM	4	0.00033796	0.220166546	0.334972165
cg27242132	PRDM8;PRDM	4	3.02E-05	0.147425205	0.255553893
cg26403580	PRDX3;PRDX3	10	0.009437351	0.190648774	0.318273089
cg06068369	PREP	6	0.012458969	0.720732173	0.82479602
cg26206598	PREX1	20	0.001005528	0.355643813	0.458331948
cg11409510	PRICKLE1	12	0.043302227	0.590221325	0.693158578
cg20525037	PRICKLE2	3	0.019751035	0.558842332	0.672354257
cg26284782	PRKAG2;PRKA	7	0.001361284	0.179063015	0.326159793
cg26482626	PRKAG2;PRKA	7	0.00159655	0.376131739	0.511167237
cg22719878	PRKAG2;PRKA	7	0.004463839	0.394585096	0.522492493

cg16581738	PRKAR1B;PRK/	7	0.002173925	0.437420447	0.628730558
cg11315991	PRKAR1B;PRK/	7	0.041546874	0.379006287	0.513882016
cg10127554	PRKAR1B;PRK/	7	0.000735199	0.456420335	0.586886874
cg16808922	PRKCA	17	0.002876115	0.600562955	0.73966764
cg09655520	PRKCA	17	0.025652062	0.464822404	0.603390049
cg10460643	PRKCD;PRKCD	3	0.000439528	0.349284638	0.488037568
cg02840585	PRKCZ;PRKCZ;I	1	0.000649711	0.40029748	0.58995373
cg25727019	PRKCZ;PRKCZ;I	1	0.00621812	0.340921186	0.47102758
cg17156349	PRKCZ;PRKCZ;I	1	0.029753134	0.264712971	0.392501351
cg22128985	PRKCZ;PRKCZ;I	1	0.029881076	0.341957082	0.457994685
cg15121267	PRL;PRL	6	0.011900454	0.320182342	0.437176918
cg09196146	PRO1768;FOXI	14	0.040250844	0.31997851	0.434199821
cg18014186	PRR16	5	3.09E-06	0.611737787	0.714951981
cg13942826	PRR4;PRR4	12	0.004704828	0.648206184	0.762141899
cg00702561	PRRX2	9	0.001470507	0.197903271	0.364694767
cg03251852	PRX;PRX	19	0.00040458	0.619062175	0.743146664
cg01560422	PSIP1;PSIP1;PS	9	0.027384561	0.471452618	0.577097345
cg26227523	PSTPIP1	15	0.000262392	0.449119399	0.5754143
cg01025800	PTBP1;PTBP1;I	19	0.00305866	0.485913125	0.620079832
cg13563132	PTCH1;PTCH1;	9	0.003628888	0.623578814	0.732771642
cg15684702	PTCH2;PTCH2	1	0.003100403	0.377913512	0.485231666
cg09267188	PTDSS1	8	0.0093943	0.331275668	0.452429371
cg14914552	PTDSS1	8	0.017209964	0.503744637	0.620677516
cg10575846	PTDSS2	11	0.044797926	0.448269444	0.557003536
cg13712952	PTENP1	9	0.045562316	0.476467794	0.59290123
cg02335533	PTHLH;PTHLH;	12	3.02E-05	0.153144253	0.282651187
cg23913941	PTK2;PTK2	8	9.23E-05	0.625662555	0.745194436
cg17146731	PTPN13;PTPN1	4	0.033461147	0.336652401	0.464779503
cg04956511	PTPN6	12	7.72E-05	0.093987234	0.213988184
cg11073811	PTPRF;PTPRF	1	0.000522497	0.092030487	0.193459858
cg18022607	PTPRG	3	0.014191102	0.593482531	0.696221498
cg07143125	PTPRJ;PTPRJ	11	0.0256797	0.605407237	0.725711539
cg20847701	PVT1	8	0.033289933	0.116337854	0.22680184
cg26691059	PXMP2	12	0.014494974	0.325670651	0.446329696
cg25963540	RAB11B	19	0.045978792	0.63021541	0.737884015
cg09408143	RAB11FIP3;RA	16	0.015086074	0.324227049	0.436302507
cg17833066	RAB11FIP4	17	0.013217527	0.190555527	0.319375865
cg05000339	RAB11FIP4	17	0.00566021	0.235034343	0.351963991
cg25709050	RAB11FIP4	17	0.006910414	0.224863884	0.33948822
cg24174232	RAB11FIP4	17	0.005138467	0.155361593	0.262037299
cg02005758	RAB7A	3	0.004113178	0.527210205	0.630827032
cg18825221	RAD51L1;RAD!	14	0.020307383	0.33873687	0.467543716
cg22283115	RADIL	7	0.020531302	0.541327698	0.649827684
cg19447962	RAI1	17	0.000320986	0.18861306	0.386669687
cg03791861	RAI1	17	0.001966561	0.444577004	0.581074717
cg19147912	RAI1	17	0.029275249	0.292975186	0.39948818

cg07505049	RAI14;RAI14;R	5	0.00208543	0.555141298	0.679285879
cg13993179	RALBP1	18	0.01579313	0.435115322	0.542295454
cg01363736	RALGAPB	20	0.013038447	0.555902041	0.701287946
cg14819160	RAMP1	2	0.003105072	0.188198962	0.3196865
cg02909097	RAP1GAP2;RAI	17	0.003899168	0.20665221	0.330340354
cg07211684	RAPGEF2	4	0.009723018	0.543678868	0.646589071
cg26878655	RARA;RARA;R/	17	0.000958508	0.485059938	0.618970923
cg08977270	RARRES1;RARF	3	0.000124995	0.449229299	0.58871273
cg00502575	RASA3	13	0.004603086	0.345909642	0.510883687
cg07869232	RASA3	13	6.81E-05	0.31146295	0.430345899
cg22730327	RASAL2;RASAL	1	0.00518832	0.458057714	0.577609905
cg06464781	RASGRP2;RASG	11	0.02565087	0.38336885	0.493199746
cg16025118	RBM19;RBM19	12	0.003483604	0.57389492	0.701163938
cg22992279	RBPJ;RBPJ;RBP	4	0.000285404	0.30937668	0.487338599
cg10143543	RCHY1;RCHY1;	4	5.87E-05	0.570072151	0.72001748
cg10823566	RCSD1	1	0.013153771	0.207963864	0.333905406
cg01782826	RCSD1	1	0.003115838	0.339202388	0.460989802
cg09354263	RECQL5;LOC64	17	0.015834539	0.258504736	0.374196877
cg11937768	REEP3	10	0.01624919	0.249631274	0.426527458
cg25722041	RERE;RERE	1	0.002975878	0.364203048	0.488489614
cg18645642	RERE;RERE	1	0.019574443	0.261610715	0.373326147
cg02780029	RET;RET	10	0.020737701	0.375893127	0.482616408
cg23527387	REV1;REV1	2	0.014791679	0.177557451	0.293908559
cg04212651	RFPL4B	6	0.008656416	0.462520924	0.633801337
cg15952465	RFPL4B	6	0.018953285	0.521277715	0.634231054
cg12728543	RFWD2;RFWD2	1	0.029494	0.597288638	0.718274314
cg07205154	RFWD2;RFWD2	1	0.031310688	0.529037757	0.63199654
cg26905931	RGMA;RGMA;I	15	0.003960981	0.185308996	0.341632325
cg03462901	RGMA;RGMA;I	15	0.003528583	0.264704687	0.410917689
cg03971808	RGS12;RGS12	4	0.000619904	0.614765457	0.726927253
cg01008894	RGS12;RGS12	4	0.000322494	0.489719919	0.592822944
cg08403043	RGS12;RGS12;	4	0.02234362	0.32274838	0.43287317
cg16324409	RGS12;RGS12;	4	0.001866714	0.123801517	0.225285001
cg24928726	RGS8;RGS8	1	0.016220597	0.180873431	0.292541642
cg07405083	RHBDF1	16	0.008375787	0.186560649	0.303337461
cg26737223	RHBDF2;RHBD	17	0.024392358	0.663819205	0.799708115
cg11164618	RHBDF2;RHBD	17	0.0024936	0.373481295	0.490013086
cg11863380	RHOBTB3	5	0.00155473	0.470829779	0.628117381
cg00219210	RICH2	17	0.04877379	0.33559662	0.473401781
cg06466839	RICS	11	0.007761837	0.508169153	0.615626617
cg23825057	RILPL1	12	4.15E-05	0.477523395	0.610442045
cg22107662	RIMBP3	22	0.009214894	0.268651064	0.393558677
cg01288337	RIN3	14	0.00012746	0.174512246	0.326006012
cg26282025	RING1	6	0.001074222	0.475613836	0.629930239
cg00085061	RIPK4	21	0.011278547	0.516548997	0.641314688
cg20989926	RLBP1	15	0.018068354	0.352745699	0.463608999



cg10173075	RLBP1;RLBP1	15	0.012674802	0.347326291	0.463601599
cg16989837	RLF	1	0.013851157	0.607575807	0.722374286
cg06073041	RNF14	5	0.016928397	0.556291288	0.684734254
cg04182865	RNF14	5	0.018251647	0.404412931	0.512058087
cg13464573	RNF144A	2	0.000921354	0.263960016	0.39607154
cg22163472	RNF19B;RNF19B	1	0.005958829	0.567667631	0.683540387
cg20433382	RNF217	6	0.004940263	0.651050762	0.779132909
cg18196453	RNF217	6	0.004622814	0.267361932	0.385749152
cg12152193	RNF44	5	0.00018242	0.340804166	0.451277335
cg03163812	RNF5P1	8	0.002707807	0.209295342	0.423374525
cg19311055	RNF5P1	8	0.012182763	0.369063005	0.542347848
cg24933651	ROBO2;ROBO2	3	0.004276769	0.702328385	0.821317945
cg14216252	ROR1;ROR1	1	0.015921784	0.28591056	0.405292143
cg14044388	ROR2	9	0.012277327	0.345424824	0.446212779
cg16964728	RORA	15	9.28E-06	0.664561634	0.777525668
cg08106764	RORA	15	0.041142705	0.342978329	0.446832888
cg09021817	RPA1	17	0.031683364	0.691374767	0.795791118
cg21040096	RPH3AL	17	0.037506803	0.401379133	0.537609288
cg01886663	RPTOR;RPTOR	17	0.000409178	0.34100022	0.470028079
cg00549398	RPTOR;RPTOR	17	0.004057358	0.61036074	0.71574183
cg12434898	RPTOR;RPTOR	17	0.035313417	0.26795581	0.372361466
cg01358966	RRN3P2	16	0.018947494	0.415236428	0.539521347
cg17142404	RTN4RL1	17	0.005030914	0.581008058	0.697205792
cg04194479	RUNDC2C	16	0.006993475	0.308686111	0.474548096
cg14545975	RXRA	9	1.50E-05	0.321599635	0.539136372
cg02319187	RXRA	9	0.005107042	0.415431435	0.591199249
cg13425135	RXRA	9	0.001702436	0.379105102	0.499601891
cg10805254	RYBP	3	0.013912186	0.556398192	0.667210067
cg08092515	RYK;RYK	3	0.047030345	0.552556531	0.652990107
cg00299070	RYR2	1	0.045325687	0.160672657	0.273673795
cg17080740	S100A1;S100A1	1	0.006908021	0.200450721	0.306551305
cg14467840	S100A13;S100A13	1	0.009274856	0.132534004	0.251244816
cg10963218	S100A13;S100A13	1	0.005706792	0.187760465	0.345452196
cg15559456	S100A13;S100A13	1	0.017045296	0.132457878	0.237621173
cg09171874	S100A3	1	0.003131992	0.540538887	0.668475734
cg07685786	S100B	21	0.000223703	0.492976547	0.61059706
cg18384226	S1PR2	19	0.000696503	0.577668847	0.690569787
cg21042285	SACS	13	0.000195799	0.600175711	0.717053222
cg01030747	SAMD4A;SAMD4A	14	0.029497732	0.451858158	0.562158122
cg18693051	SBNO2	19	0.016784624	0.154586735	0.263626312
cg01663970	SCARB1;SCARB1	12	0.006201051	0.756593155	0.872658809
cg22091609	SCARF2;SCARF2	22	4.09E-05	0.164181768	0.303138426
cg06059069	SCG5;SCG5	15	0.008164371	0.531574415	0.650818296
cg20341535	SCN4B;SCN4B	11	0.000960263	0.483710338	0.592415179
cg19752565	SCN7A	2	0.001742536	0.233865574	0.348754873
cg23245485	SCNN1A;SCNN1A	12	0.000380535	0.351780281	0.477681973

cg04858110	SCRN1;SCRN1;	7	0.000119848	0.503507062	0.645265055
cg24733126	SCUBE2;SCUBE	11	0.043238875	0.434323573	0.549942699
cg23356017	SDC2	8	0.000720542	0.243176564	0.417853312
cg12190613	SDC2	8	0.048224152	0.298167025	0.415245075
cg05374982	SDC3	1	4.55E-06	0.247091504	0.377532819
cg14836522	SDC3	1	0.001074053	0.140238298	0.26950232
cg24655777	SDHAP3	5	0.002489672	0.46471949	0.570966336
cg04609841	SDK1	7	0.04208757	0.218673316	0.346552168
cg02491557	SDK1	7	0.044168789	0.20357939	0.30877209
cg22677475	SDK1;SDK1	7	0.012974048	0.61874337	0.721232851
cg00711291	SDK2	17	0.008828468	0.144825039	0.310127024
cg24527434	SDK2	17	0.001707833	0.266118827	0.389657752
cg13699963	SDK2	17	0.003944778	0.161430581	0.275977252
cg18405260	SEC1;NTN5	19	0.001448184	0.657067891	0.765200271
cg15046304	SEC14L1;SEC14	17	0.036632746	0.210502565	0.339673011
cg09943050	SEMA3A	7	0.024734612	0.275071467	0.396002203
cg21578050	SEMA6A	5	0.009956236	0.678750894	0.792052368
cg27157619	SEMA7A;SEMA	15	0.009379944	0.233404896	0.38533826
cg03760308	SENP6;SENP6	6	0.012383621	0.415338955	0.521722937
cg17168428	SEPT7;SEPT7	7	0.001673078	0.618780911	0.72036906
cg03432618	SEPT9	22	0.002783328	0.299619503	0.432654654
cg07827420	SEPT9;SEPT9;S	17	0.001152671	0.298476434	0.426299289
cg17112975	SEPT9;SEPT9;S	17	0.000402097	0.158162164	0.276249657
cg00871371	SEPT9;SEPT9;S	17	0.006113277	0.407830296	0.525848121
cg12858577	SEPT9;SEPT9;S	17	0.005706449	0.472872977	0.586443788
cg26079706	SEPT9;SEPT9;S	17	0.0210806	0.466825441	0.578537795
cg12194864	SEPT9;SEPT9;S	17	0.013386935	0.634663884	0.740334084
cg12673019	SERGEF	11	0.046188874	0.30147059	0.436419379
cg01417313	SERTAD4	1	0.030015941	0.188030518	0.319912107
cg17117243	SESN1	6	1.12E-05	0.316523238	0.559210922
cg04839897	SESN2	1	0.008260193	0.574371955	0.675730297
cg02154585	SFRP1	8	0.01099185	0.446909558	0.568001331
cg14787704	SFRS12;SFRS12	5	0.003274592	0.541836733	0.65740713
cg13036702	SFRS2B	11	0.000118996	0.588520322	0.719916703
cg12181028	SFRS8	12	0.00067329	0.318126565	0.421326666
cg13049997	SFT2D1	6	0.022800301	0.442564718	0.558041917
cg16627285	SGCA;SGCA	17	0.010465204	0.472868255	0.609470821
cg23158475	SGK3	8	0.000867845	0.623442995	0.748281943
cg10362613	SH2D4A	8	0.011919432	0.252073262	0.372516996
cg09042791	SH3BP4	2	0.011872615	0.259490316	0.436274211
cg12559925	SH3BP4	2	0.008921451	0.228355049	0.369719513
cg01854776	SH3BP4	2	0.035006754	0.195227934	0.298231905
cg21283680	SH3BP5	3	3.82E-05	0.255766529	0.434500958
cg02030270	SH3GL3;SH3GL	15	0.016642875	0.382265915	0.525001632
cg12094736	SH3PXD2A	10	0.016250065	0.350545222	0.45217233
cg25693317	SH3PXD2B	5	3.31E-06	0.149865895	0.456547059

cg02772159	SH3PXD2B	5	0.03382585	0.354769201	0.460591192
cg01642901	SH3RF1	4	0.011722546	0.508999183	0.64747139
cg18949666	SH3RF1	4	0.000167529	0.566430884	0.68658722
cg11367404	SH3RF1	4	0.004462322	0.655671814	0.757966312
cg19024599	SH3RF3	2	0.008621085	0.341748749	0.512767001
cg22092606	SH3RF3	2	0.000504234	0.654651837	0.762917233
cg20706049	SH3RF3	2	0.005548102	0.550927552	0.657980333
cg07248017	SH3TC1	4	0.001159697	0.373422656	0.500181223
cg21437028	SHOX2;SHOX2	3	0.000621792	0.375357685	0.534988599
cg15726154	SHOX2;SHOX2	3	0.012404945	0.431142517	0.570288235
cg21847036	SHOX2;SHOX2	3	0.002373878	0.309541373	0.429558515
cg13824815	SIAE	11	0.036499984	0.41894577	0.567847146
cg11320438	SIGLEC11;SIGL	19	0.017385038	0.523789131	0.624685544
cg23286646	SIM2	21	0.027740367	0.184725384	0.303731105
cg27025738	SIPA1L1	14	0.003459835	0.4290375	0.530162312
cg02360367	SKI	1	0.003347781	0.312450357	0.497076
cg24377150	SKI	1	0.041788864	0.409438572	0.529634458
cg06151145	SLAIN2	4	6.78E-05	0.316495196	0.423844136
cg09790628	SLC12A7	5	0.002325654	0.544273595	0.70252835
cg07405771	SLC12A8	3	0.000464683	0.345514021	0.449147785
cg22231400	SLC17A7	19	0.002532156	0.129709934	0.261606975
cg07793724	SLC1A7	1	0.001529011	0.521286424	0.626894882
cg13643060	SLC25A13;SLC	7	7.85E-05	0.528862738	0.712553672
cg25561754	SLC26A11;SLC	17	0.026703639	0.311582458	0.438366696
cg06702884	SLC29A3	10	0.003832076	0.295089682	0.413643626
cg05345039	SLC2A1	1	0.003667646	0.316047995	0.503757667
cg20294984	SLC2A1	1	0.000119795	0.537047658	0.716835486
cg15089806	SLC2A1	1	8.89E-05	0.233329785	0.355667448
cg11381149	SLC2A12	6	0.040278844	0.300291058	0.423271488
cg14115249	SLC2A6;SLC2A	9	0.012630755	0.691195092	0.791985691
cg02339793	SLC38A10;SLC	17	0.048746304	0.345414062	0.45194811
cg21461745	SLC39A11;SLC	17	0.014436997	0.390395176	0.557733952
cg24136932	SLC39A14	8	0.01973435	0.441652501	0.580877585
cg27315497	SLC43A1	11	0.00026325	0.150898065	0.291443979
cg09329516	SLC43A2	17	5.67E-06	0.543234695	0.663188904
cg17207736	SLC45A4	8	0.03233377	0.503244002	0.618130407
cg10752421	SLC7A1	13	0.00725486	0.450426136	0.584729597
cg06690548	SLC7A11	4	0.009929722	0.350188472	0.452506587
cg04171052	SLC7A5	16	0.035592865	0.287946379	0.393532668
cg25073563	SLC8A1;SLC8A	2	0.000406007	0.32574038	0.457084762
cg01346158	SLC9A3R2;SLC	16	0.023477619	0.609703934	0.744700982
cg05906024	SLIT3	5	0.011383397	0.353001411	0.525371683
cg13008977	SLIT3	5	0.003347781	0.331309202	0.489891608
cg17229698	SLIT3	5	0.013640075	0.331315509	0.489708559
cg06236559	SMAD2;SMAD	18	0.003256927	0.322591246	0.45529273
cg25793587	SMAD3	15	4.77E-05	0.686224593	0.806577648

cg00350432	SMAD6;SMAD	15	0.011954801	0.352688068	0.454574394
cg14636077	SMCR5;RAI1	17	0.013122043	0.422601401	0.547646303
cg22967008	SMOC2;SMOC	6	0.000106049	0.472484986	0.653299118
cg17802216	SMOC2;SMOC	6	0.001391128	0.481841169	0.651763742
cg24114708	SMOC2;SMOC	6	0.017116592	0.347024156	0.485966196
cg10041417	SMOC2;SMOC	6	0.039794181	0.262895349	0.39007523
cg07979566	SMOC2;SMOC	6	0.004283081	0.545979002	0.670935273
cg14806083	SMOC2;SMOC	6	0.045258334	0.312180445	0.434569212
cg13705956	SMOC2;SMOC	6	0.006770837	0.420408795	0.540037873
cg18121962	SMYD3;SMYD3	1	0.025425569	0.289778832	0.413826767
cg05073044	SNAPC1	14	0.006588592	0.322411967	0.50027182
cg11857142	SND1	7	0.008579275	0.205563859	0.317304149
cg22635676	SNED1	2	0.001956387	0.136668951	0.29056462
cg15361291	SNED1	2	8.31E-05	0.268538622	0.406589014
cg25241559	SNED1	2	0.011794694	0.623489604	0.748180569
cg15889424	SNORA80;URB	21	0.00057353	0.33987481	0.490892089
cg15075241	SNORA80B;OD	2	1.09E-05	0.418969398	0.648571476
cg06874326	SNX31	8	0.004267364	0.591530181	0.707596214
cg06583438	SOBP	6	0.004700903	0.523502633	0.666318533
cg17369406	SON;SON	21	0.017351113	0.320651238	0.461949019
cg16433265	SORBS2	4	0.012452195	0.374727456	0.478153854
cg18803251	SORCS2	4	0.049592614	0.617086892	0.720035777
cg06205574	SOX5;SOX5	12	0.001610553	0.341147043	0.561441865
cg20672284	SOX5;SOX5	12	6.30E-05	0.58391682	0.714456239
cg00861695	SPATA13;MIR2	13	3.75E-05	0.583665198	0.744684576
cg07152812	SPATA13;MIR2	13	0.013718971	0.405006628	0.545073963
cg25643223	SPATA13;SPAT	13	0.00060514	0.634605789	0.743556882
cg08855504	SPATA18	4	0.027786974	0.597353609	0.705106139
cg14106933	SPATS2L;SPAT	2	0.018325283	0.336556373	0.44424093
cg20174636	SPEG	2	0.002455849	0.140481161	0.244110199
cg05635923	SPG20	13	0.026634847	0.265827938	0.449396722
cg15754752	SPG20	13	0.018469433	0.170328632	0.347671955
cg14531665	SPIN1	9	0.000326398	0.577893727	0.696037195
cg00401471	SPINT2;SPINT2	19	0.010761274	0.2394368	0.407260021
cg20551922	SPNS3	17	0.036900005	0.313559295	0.421637885
cg04927066	SPOCK1	5	2.93E-05	0.717784229	0.841854723
cg02065148	SPON2;SPON2	4	0.000201074	0.363972481	0.509455728
cg13464059	SPPL2B;SPPL2B	19	0.001048635	0.632900504	0.753693861
cg22854448	SPRED2	2	3.99E-06	0.197189155	0.498720403
cg08651590	SPRED2;SPRED	2	0.001345964	0.173063999	0.36255928
cg14406727	SPRED2;SPRED	2	0.001103606	0.385514755	0.525592484
cg26254045	SPRED3	19	2.66E-06	0.371187203	0.501770386
cg27549878	SPRED3	19	0.000440605	0.188446968	0.313638638
cg23632432	SPSB1	1	0.007756493	0.315820592	0.443243563
cg08158518	SPSB4	3	0.005477447	0.58234759	0.69998114
cg24528602	SPTBN1;SPTBN	2	0.031837149	0.53004887	0.648794881

cg23709902	SRCIN1	17	0.001680703	0.173307289	0.279628217
cg11014073	SRGAP1	12	0.017485302	0.277984716	0.447682724
cg17354987	SRGAP1	12	0.026971844	0.442852229	0.588509492
cg24878115	SSBP4;SSBP4	19	0.001042432	0.264551681	0.438453074
cg26549529	SSX2IP;SSX2IP;	1	0.029615508	0.44106027	0.558365863
cg11020894	ST6GAL1;ST6G	3	0.028464819	0.202954016	0.343776944
cg05720226	ST7;ST7;ST7O1	7	0.01385968	0.404144267	0.506092821
cg25490551	ST8SIA1	12	0.005564673	0.588588984	0.695595807
cg01146501	STARD4	5	0.029509645	0.270103714	0.391283372
cg12312086	STARD9	15	0.00702893	0.329928431	0.480992198
cg20173260	STAT1;STAT1	2	0.0202551	0.220806862	0.397524876
cg01004382	STAT4	2	0.002163046	0.52569128	0.646421973
cg19728382	STC2	5	0.000145824	0.179955462	0.307867698
cg03846076	STC2	5	0.012331382	0.475289834	0.599125454
cg07109745	STIM1	11	0.007661628	0.211423291	0.360221775
cg03534504	STK10	5	0.000732319	0.281769386	0.507130973
cg23423191	STK10	5	0.004981686	0.476316477	0.609797739
cg09110502	STK24	13	0.000570745	0.42199222	0.620277753
cg01442200	STK24;STK24	13	0.0018195	0.502073163	0.649152842
cg14582191	STK32B	4	0.000310091	0.371035229	0.568125125
cg24540362	STK32B	4	0.000567227	0.570180962	0.681804395
cg15246131	STK32C	10	0.008633711	0.197314805	0.328624454
cg04209885	STK32C	10	0.027496661	0.272521879	0.390301274
cg03766264	STK38L	12	0.006143952	0.24290572	0.373442263
cg23433370	STK38L	12	0.047538591	0.285461206	0.399559582
cg13345122	STK39	2	0.015756377	0.234479112	0.388126521
cg03351487	STK39	2	0.007471687	0.195850675	0.327598927
cg11775828	STK39	2	0.003074477	0.198516993	0.314386089
cg06631999	STMN1	1	0.016614743	0.358607412	0.510089987
cg00404923	STOX2	4	0.00330519	0.392890556	0.496501729
cg13668495	STRBP;STRBP;S	9	0.015537484	0.460203199	0.58177319
cg08493590	SUPT3H	6	0.007116079	0.55099778	0.677087458
cg07008600	SUSD5	3	0.000356707	0.566753042	0.686254095
cg13747145	SUSD5	3	0.016109666	0.258028512	0.363170176
cg03597463	SUZ12	17	0.02910345	0.67918521	0.781444671
cg18818498	SVIL	10	0.020967585	0.587776018	0.69131929
cg25426867	SVIL;MIR938;S	10	0.025773481	0.159962378	0.262441917
cg08010619	SWAP70	11	0.004182972	0.203497157	0.351695467
cg19987354	SYNE2;SYNE2	14	0.021383482	0.236576973	0.394132577
cg09572125	SYNGAP1	6	0.001004472	0.391557669	0.512871238
cg14533068	SYNJ2	6	0.001115116	0.248479376	0.392123654
cg01228193	SYNPO	5	0.036659715	0.239016133	0.358178203
cg06559925	SYNPO;SYNPO	5	0.00970467	0.313430715	0.415886657
cg13991728	SYNPO;SYNPO	5	0.026198667	0.208887749	0.339992127
cg27039501	SYNPO;SYNPO	5	0.04932785	0.417431055	0.542441526
cg02991753	SYNPO2	4	0.012831732	0.456290219	0.595487856

cg21544658	SYT8	11	0.00025595	0.40374698	0.550097524
cg02294791	SYT8	11	0.000445316	0.432533131	0.571995952
cg09575189	SYT8	11	0.000930639	0.389335274	0.527821212
cg24331162	SYT8	11	0.000808406	0.365907195	0.492896919
cg08428819	TACC2;TACC2;	10	0.019673616	0.363868761	0.467064937
cg03188793	TALDO1	11	0.031824276	0.630123448	0.78803894
cg02279883	TANC2	17	0.003992536	0.299920577	0.406308715
cg05689267	TAP2;TAP2	6	0.000285823	0.558705524	0.660818953
cg16030878	TBC1D16	17	0.000221885	0.449424234	0.613518181
cg04157865	TBC1D16	17	0.005557211	0.440890809	0.578965499
cg13466546	TBC1D16	17	0.000643538	0.151501042	0.289128373
cg07397612	TBC1D22A	22	0.018908396	0.262124747	0.44484225
cg00472758	TBC1D24	16	0.00069418	0.355456299	0.469453589
cg13304638	TBCD	17	0.009153227	0.307751047	0.459922586
cg15787636	TBCD	17	0.000240783	0.651069684	0.773514993
cg04216936	TBCK;TBCK;TB	4	0.002118359	0.492747145	0.631051128
cg09226275	TBL1XR1	3	0.020301511	0.406195618	0.522447261
cg03656099	TBX2	17	7.47E-06	0.131375043	0.335046838
cg07095230	TBX2	17	0.002315441	0.334591917	0.473606395
cg12999453	TBX2	17	0.000185556	0.306732446	0.430795296
cg16406892	TBX3;TBX3	12	0.00057353	0.32492532	0.54280744
cg22635491	TBX3;TBX3	12	0.001081643	0.23815619	0.423090146
cg16277169	TBX3;TBX3	12	0.011528236	0.416494659	0.567851944
cg13030332	TBX3;TBX3	12	0.003525289	0.583490365	0.734693709
cg01078446	TBX3;TBX3	12	0.004014254	0.310789699	0.455105813
cg09053536	TBX3;TBX3	12	0.017312759	0.536822326	0.680444781
cg13829104	TBX3;TBX3	12	0.024036841	0.407478527	0.53419286
cg11246938	TBX3;TBX3	12	0.03079154	0.464908063	0.580985652
cg00347620	TBX3;TBX3	12	0.000430078	0.394372212	0.509657976
cg26196480	TBX5;TBX5	12	0.020849587	0.180335718	0.341967413
cg06911121	TBX5;TBX5	12	0.022096962	0.131303212	0.276565818
cg16559598	TBX5;TBX5	12	0.020459457	0.127163798	0.264156618
cg05555207	TBX5;TBX5	12	0.044318379	0.186743963	0.320813146
cg17554126	TBX5;TBX5;TB	12	0.016914594	0.204225148	0.379799079
cg08184159	TBX5;TBX5;TB	12	0.008111252	0.197845926	0.357842158
cg06725552	TBX5;TBX5;TB	12	0.032276722	0.165246164	0.32181698
cg25399352	TBX5;TBX5;TB	12	0.022747236	0.211618953	0.362604549
cg18689332	TBX5;TBX5;TB	12	0.026659601	0.141688419	0.288506529
cg22929859	TBX5;TBX5;TB	12	0.025178683	0.228642238	0.375319956
cg14126466	TBX5;TBX5;TB	12	0.026334301	0.400181086	0.536920049
cg03559073	TBX5;TBX5;TB	12	0.026285286	0.128507384	0.254537866
cg03877376	TBX5;TBX5;TB	12	0.044171462	0.114067664	0.219469683
cg07168930	TCF7L2;TCF7L2	10	0.031281402	0.342533536	0.469747382
cg13033054	TCP10L	21	0.002844519	0.564454567	0.67370882
cg27081049	TCP10L2	6	0.031928763	0.454410086	0.556826916
cg15722533	TEAD1	11	0.003237433	0.283695129	0.472216889

cg25878366	TEAD1	11	0.01508316	0.29881937	0.463222447
cg19127638	TET1	10	0.001322364	0.409474911	0.57910092
cg01093854	TET1	10	0.022355514	0.312312457	0.47916014
cg04066190	TFAP2A;TFAP2	6	0.031167922	0.144178522	0.290664043
cg19163067	TFAP2E	1	0.000196741	0.329138012	0.430407767
cg18335233	TG	8	0.011175226	0.336967621	0.489994208
cg11155356	TG;SLA;SLA;SL	8	0.02743285	0.386494139	0.513975878
cg16967578	TGFB2;TGFB2	1	0.031560462	0.31718694	0.469450123
cg03630790	TGFBR2;TGFBF	3	0.006755663	0.476503366	0.617447137
cg24719910	TGFBR2;TGFBF	3	0.029361659	0.351554657	0.488562957
cg05450916	TGFBR2;TGFBF	3	0.02782307	0.342018304	0.467629974
cg13724812	TGFBR2;TGFBF	3	0.000112048	0.605810971	0.721307979
cg04684014	THADA;THADA	2	0.001100483	0.375890591	0.565697214
cg11066033	THAP4;THAP4;	2	0.005598538	0.155858864	0.281195552
cg01637789	THBS1	15	0.022606816	0.22702506	0.379207542
cg16805094	THBS2	6	0.009079894	0.266102853	0.385874397
cg16504696	THEMIS;THEM	6	0.045040713	0.576617017	0.683340119
cg01190276	THRB;THRB;TH	3	0.000693941	0.342931022	0.504592804
cg16505204	THRSP	11	0.032468615	0.128037953	0.235508887
cg01083652	THSD4	15	0.003240632	0.646506785	0.747490105
cg17730176	TIAF1;MYO18/	17	0.008139747	0.389015016	0.51797054
cg13726166	TIAF1;MYO18/	17	0.01625633	0.234878946	0.340874782
cg06305026	TIAM2	6	0.004211582	0.558356859	0.689172797
cg04228709	TIAM2;TIAM2	6	0.000234229	0.342539347	0.527854902
cg09364590	TIAM2;TIAM2	6	3.86E-05	0.281529447	0.402506261
cg21707172	TIAM2;TIAM2	6	0.001553122	0.380213281	0.484807958
cg21539594	TIE1	1	0.000459882	0.350107346	0.50641251
cg26195652	TIE1	1	0.005611337	0.468894229	0.606819895
cg15106744	TIPARP	3	0.02041047	0.337506865	0.491642036
cg04860291	TKT;TKT;TKT	3	0.005372152	0.3408344	0.472320546
cg13895650	TLE1	9	0.011138774	0.483474999	0.614709478
cg09747445	TLE3;TLE3;TLE:	15	0.008854576	0.363713862	0.509338579
cg24772525	TLK1;TLK1	2	0.04553394	0.606796855	0.726579204
cg02007434	TLL2	10	0.004741697	0.572858063	0.706563906
cg06800962	TM4SF1	3	2.91E-05	0.116750146	0.258013177
cg22612590	TMCO3	13	0.031012231	0.623167767	0.732836569
cg13241681	TMCO3	13	0.007683147	0.674177916	0.775073774
cg22355895	TMED5;TMED!	1	0.028540428	0.456915787	0.574732394
cg04223924	TMEM131	2	0.029557868	0.481018593	0.597286025
cg05708073	TMEM167B	1	3.20E-05	0.334922786	0.47192815
cg00584026	TMEM175	4	0.041513111	0.253886495	0.357447421
cg00621084	TMEM194B	2	0.020326524	0.4765065	0.590502281
cg14062152	TMEM26	10	0.015075983	0.698563266	0.798737261
cg14068176	TMEM8B;TME	9	0.004979705	0.638865508	0.747469852
cg25460340	TMPRSS5	11	0.005996811	0.439629901	0.576806077
cg23871994	TMPRSS5	11	0.002533906	0.335431215	0.451943338

cg03191794	TMTC2	12	0.027179809	0.471814818	0.593938184
cg03406844	TNFAIP6	2	0.000566226	0.558531486	0.679618732
cg17471836	TNFAIP8;TNFA	5	0.001200536	0.466596866	0.641658119
cg07086380	TNFAIP8;TNFA	5	0.014382661	0.235307874	0.38474906
cg00765127	TNFRSF10C	8	0.000302552	0.574861283	0.680080008
cg26691200	TNFRSF8	1	0.02680235	0.449252899	0.566346295
cg15690400	TNFRSF8;TNFR	1	0.019761613	0.318787785	0.481022025
cg10425291	TNFRSF8;TNFR	1	0.001467545	0.576983104	0.685023418
cg09813400	TNIP1	5	0.000893491	0.398634839	0.500574827
cg20371378	TNNI2;TNNI2;1	11	0.03647157	0.59180988	0.705407126
cg17419660	TNNT3;TNNT3	11	0.00302892	0.672340743	0.821333664
cg18314765	TNP1	2	0.002431457	0.306414039	0.527242698
cg20310485	TNP1	2	0.018495347	0.271902379	0.419854925
cg10376763	TNP1	2	0.005336393	0.557092219	0.687931016
cg19673237	TNP1	2	0.048937796	0.345483238	0.467649856
cg06947694	TNRC18	7	0.00295633	0.431555967	0.594211377
cg20025824	TNRC18	7	0.000802292	0.459723323	0.612401808
cg00795125	TNRC18	7	0.019563152	0.461907225	0.579251153
cg03958512	TNS3	7	0.000914185	0.383318574	0.617114119
cg20782724	TNS3	7	0.000287071	0.515587708	0.676068767
cg24661184	TNS3	7	0.004705215	0.374237523	0.52567716
cg27275374	TNS3	7	0.003372511	0.28912456	0.440458084
cg15265085	TNXB	6	5.35E-06	0.265339158	0.516318298
cg24882324	TNXB	6	3.09E-06	0.164261915	0.392961509
cg12694372	TNXB	6	4.18E-05	0.225016532	0.452597183
cg16834823	TNXB	6	0.000164298	0.203189676	0.40563675
cg03556669	TNXB	6	2.33E-06	0.254755004	0.444312066
cg08650890	TNXB	6	3.82E-05	0.253046948	0.436941113
cg10365886	TNXB	6	0.004648146	0.368642988	0.544911141
cg15196197	TNXB	6	0.000112747	0.143794669	0.310429067
cg27081346	TNXB	6	6.97E-06	0.182721575	0.343504273
cg10923662	TNXB	6	0.000774541	0.162110513	0.317941814
cg02151997	TNXB	6	0.02151492	0.336183797	0.490733551
cg00525277	TNXB	6	0.000143931	0.302302296	0.45539877
cg01485117	TNXB	6	8.23E-05	0.202630325	0.350531879
cg14188106	TNXB	6	0.004207639	0.262276387	0.410134884
cg13698691	TNXB	6	2.84E-05	0.177833548	0.324732691
cg01992382	TNXB	6	0.002347721	0.175075011	0.313743699
cg19267551	TNXB	6	0.003126277	0.25048824	0.387329455
cg04757901	TNXB	6	0.046851952	0.279005534	0.413199969
cg00872984	TNXB	6	0.002006169	0.325768528	0.459146621
cg15745284	TNXB	6	0.001202377	0.462470342	0.594296495
cg13400512	TNXB	6	1.57E-05	0.283841325	0.415115937
cg27387193	TNXB	6	0.007444809	0.305608377	0.436695233
cg17662683	TNXB	6	0.000260838	0.217604506	0.3484902
cg01569346	TNXB	6	0.000353262	0.322651159	0.448889853



cg07524919	TNXB	6	0.034110719	0.301095013	0.425901452
cg21642103	TNXB	6	5.91E-05	0.217917357	0.339025671
cg16385684	TNXB	6	0.002150981	0.188030176	0.30589469
cg26266427	TNXB	6	0.015689455	0.332121223	0.441528511
cg01337207	TNXB	6	0.010687614	0.334308682	0.443510485
cg08660959	TNXB	6	0.010393272	0.205805007	0.309965788
cg20414186	TNXB	6	0.000137817	0.147411973	0.248725427
cg05311626	TOLLIP	11	0.048611047	0.147831036	0.256841014
cg17591574	TOR3A	1	0.027685488	0.171041029	0.286655345
cg18389810	TPPP2	14	0.015138509	0.167210068	0.275160595
cg10096948	TPPP3;TPPP3;Z	16	0.000168795	0.270269057	0.419755635
cg00391741	TPRA1;TPRA1	3	0.000177392	0.548273836	0.681599606
cg14392772	TRAF1	9	0.000919581	0.430183601	0.562665361
cg11723904	TRAP1	16	0.049708759	0.475579263	0.581512536
cg18219994	TRAPPC9;TRAF	8	0.002975606	0.344098577	0.50010063
cg08504029	TRAPPC9;TRAF	8	0.012515276	0.318066119	0.426515702
cg02528189	TRAPPC9;TRAF	8	0.003258403	0.28073745	0.38847303
cg09145126	TRIM13;TRIM1	13	0.012142941	0.235535844	0.340762357
cg08322448	TRIM2;TRIM2	4	0.001925997	0.528065281	0.660591805
cg02616418	TRIM2;TRIM2;	4	0.029474135	0.276067907	0.393758325
cg12600843	TRIM26	6	0.004284154	0.469487088	0.573438357
cg27351624	TRIM31	6	0.002166606	0.426173728	0.572120185
cg12077698	TRIM62	1	0.024547935	0.371776874	0.510438561
cg10179300	TRIO	5	0.044892995	0.576048525	0.676148724
cg19017254	TRPM4	19	0.007098662	0.495177708	0.603708128
cg14762845	TRPV1;TRPV1;	17	0.001539461	0.741802222	0.848419131
cg14373396	TRPV1;TRPV1;	17	0.005161898	0.716066522	0.841196199
cg11384744	TSPAN13	7	6.99E-06	0.174667339	0.300191318
cg22800295	TSPAN9;TSPAN	12	0.000458204	0.661951103	0.770019821
cg25672027	TSPO;TSPO	22	0.001850478	0.301577471	0.461394615
cg03025986	TSSC1	2	0.002888012	0.565608614	0.689008141
cg14483162	TTC1	5	0.004014103	0.341152599	0.443376491
cg04176452	TTC9	14	0.000482283	0.651962278	0.754498009
cg04458567	TTL	2	0.02072635	0.387778102	0.539413977
cg05545910	TLL1;TLL1	22	0.008638995	0.377498304	0.523553498
cg10172253	TLL7	1	0.002302539	0.67444969	0.775532739
cg04007987	TTYH2	17	0.000240984	0.571027398	0.716323641
cg05519002	TUB;TUB	11	0.014720275	0.287101182	0.399235788
cg10133610	TUBB2B	6	0.047801939	0.439267644	0.562564415
cg19987965	TULP4;TULP4;	6	0.006041489	0.305570469	0.532888159
cg13068216	TULP4;TULP4;	6	0.001752247	0.221314454	0.43747316
cg12601856	TULP4;TULP4;	6	0.00395788	0.276342086	0.490748073
cg18978680	TULP4;TULP4;	6	0.019880237	0.240122458	0.420977612
cg02060443	TULP4;TULP4;	6	0.023623643	0.481602432	0.653382144
cg23816737	TULP4;TULP4;	6	0.031168838	0.173192999	0.311205952
cg18336854	TUSC3;TUSC3	8	0.001754649	0.52393731	0.64840205

cg18320111	TWSG1	18	0.003647726	0.447214185	0.610933985
cg13429733	TXNDC8	9	2.25E-05	0.549664675	0.655592464
cg09561830	UBAC2;MIR62:	13	0.002854148	0.124758534	0.227482617
cg21302563	UBE2F	2	0.03972677	0.546236289	0.649781941
cg17869799	UBE2J2;UBE2J:	1	0.016277314	0.585854314	0.694977865
cg13453589	UBE2R2	9	0.001023386	0.303731821	0.437108998
cg12934016	UBE3A;UBE3A	15	0.039293144	0.417510289	0.534088527
cg10402321	UBXN11;UBXN	1	0.003462783	0.282631941	0.401395728
cg12407791	UNC13D	17	8.99E-05	0.29257463	0.428347091
cg07151747	UPP2;UPP2	2	0.003947685	0.306778133	0.422301626
cg19985030	USH1G	17	0.012485901	0.441438343	0.560267894
cg04431002	USP10	16	0.015161571	0.305647224	0.442441831
cg24427271	USP36	17	0.031513406	0.400359632	0.544847131
cg18766900	USP6NL;USP6N	10	0.014839659	0.308968364	0.449818295
cg06528737	USP6NL;USP6N	10	0.016882675	0.433446637	0.572497859
cg20625138	UTS2;UTS2	1	0.000759639	0.248455938	0.441364669
cg10262662	VAC14	16	0.006841286	0.407833921	0.507893768
cg17428922	VARS2;VARS2;	6	0.022927115	0.419405704	0.520142497
cg14286025	VAV2;VAV2	9	0.002269679	0.202500107	0.322471825
cg13954067	VAV2;VAV2	9	0.014442809	0.090885419	0.210848983
cg14137625	VAV2;VAV2	9	0.001698452	0.324224447	0.432335372
cg19413693	VAV3	1	0.00023862	0.496956351	0.670555283
cg04223006	VCAN;VCAN;V	5	0.007819832	0.175852878	0.284829702
cg22658311	VEGFC	4	0.00024126	0.307036364	0.480638016
cg08423851	VGLL4;VGLL4	3	0.016963456	0.325671994	0.433873953
cg08815359	VGLL4;VGLL4;\	3	0.00150194	0.604695857	0.72882236
cg13336326	VIPR2	7	0.042446614	0.383472004	0.555573039
cg18576301	VPS13B;VPS13	8	0.000668145	0.394764552	0.554090292
cg18224970	VPS13B;VPS13	8	0.048542686	0.385526221	0.490792603
cg11599718	VPS37B	12	0.00055022	0.48091741	0.638144442
cg09537568	WDFY3;WDFY:	4	0.002412627	0.34303215	0.518524184
cg00598021	WDR1;WDR1	4	0.036432795	0.402647434	0.503236549
cg11093939	WDR25;WDR2	14	0.000615468	0.494276587	0.649639061
cg07822618	WDR60	7	0.020073178	0.25308405	0.377865168
cg23802150	WDR8	1	0.003399024	0.665981831	0.776492313
cg02298472	WNT5A	3	0.000141864	0.33497003	0.531692829
cg01777121	WNT5A	3	0.000401455	0.206543296	0.364069397
cg18562578	WNT5A	3	0.000737452	0.254969806	0.389434556
cg24216596	WNT5A	3	0.000496543	0.352058053	0.485222563
cg04941246	WNT5A	3	0.001394535	0.200035589	0.326047769
cg20746482	WNT5A	3	0.000682493	0.15692236	0.274896378
cg25891078	WNT5B;WNT5	12	0.000404921	0.639936151	0.764989727
cg10716612	WWC2	4	0.007554236	0.257911325	0.377890022
cg17419475	WWC2	4	0.004320059	0.610507768	0.723307994
cg09036558	WWP2;WWP2	16	0.002092819	0.192642586	0.349584684
cg01656717	WWP2;WWP2	16	0.014522002	0.150160297	0.284789171

cg26929355	WWP2;WWP2	16	0.002737594	0.201314458	0.303514332
cg27186420	WWP2;WWP2	16	0.002111208	0.582869624	0.684196382
cg14514120	XPOT	12	0.004943552	0.309033501	0.438639076
cg06635133	XYLT1	16	0.00345627	0.1396428	0.308608385
cg04986899	XYLT1	16	0.009430841	0.392432266	0.560168768
cg22864414	ZBED4	22	0.001890577	0.652624775	0.761881006
cg11049439	ZBTB12	6	0.022279047	0.184660405	0.322755026
cg12026858	ZBTB16;ZBTB1	11	0.017682534	0.328758618	0.488391428
cg14596967	ZBTB16;ZBTB1	11	0.002008862	0.449723831	0.566328251
cg17518710	ZBTB16;ZBTB1	11	0.00187536	0.294125546	0.402885342
cg02936049	ZBTB38	3	0.000826841	0.287674559	0.406346295
cg14918743	ZBTB42	14	0.015375556	0.294680645	0.425880819
cg12688965	ZC3H3	8	0.000619127	0.254213712	0.444922477
cg13191508	ZC3H3	8	0.020239885	0.22296933	0.344918124
cg19972822	ZC3HAV1;ZC3H3	7	0.001608276	0.327928659	0.450247648
cg07875215	ZDHHC14;ZDHHC14	6	6.46E-06	0.593946477	0.737509432
cg17310882	ZDHHC14;ZDHHC14	6	0.000690708	0.16615574	0.307779649
cg16679543	ZDHHC14;ZDHHC14	6	0.002189566	0.703385959	0.807867466
cg22618752	ZEB2;ZEB2	2	0.002320213	0.450943252	0.567321271
cg08858926	ZFHX3;ZFHX3	16	0.008526532	0.470431724	0.607270904
cg13154413	ZFYVE21	14	0.008123948	0.397150477	0.528935422
cg10898258	ZFYVE21	14	0.001330207	0.54371298	0.644016496
cg08489478	ZFYVE27;ZFYVE27	10	0.005110068	0.459133628	0.616375123
cg21571166	ZIC1	3	0.010434819	0.224041587	0.359814185
cg14825905	ZMIZ1	10	0.020710001	0.204151352	0.336241266
cg13676902	ZMIZ1	10	0.002826917	0.585220983	0.713891984
cg03707696	ZMIZ1	10	0.001463943	0.626066285	0.741017139
cg02851873	ZMIZ1	10	0.005667891	0.301687852	0.415505919
cg02743070	ZMIZ1	10	0.00174192	0.330134288	0.438047216
cg15733068	ZMIZ1	10	0.010073421	0.402126844	0.506173547
cg26300785	ZMIZ1	10	0.002488849	0.58942496	0.692647856
cg05141341	ZMIZ2;ZMIZ2	7	0.03730084	0.214722189	0.33219137
cg23596567	ZNF18	17	0.022274107	0.429174311	0.536936029
cg13495227	ZNF277	7	0.000532616	0.662244507	0.769374064
cg25407227	ZNF331;ZNF331	19	0.002040885	0.609897522	0.717919306
cg02712553	ZNF365;ZNF365	10	0.003209683	0.621570322	0.72881681
cg04710768	ZNF366	5	0.000261418	0.189691072	0.332367871
cg15872458	ZNF385A;ZNF385A	12	0.000657889	0.402975988	0.592738899
cg06186992	ZNF423	16	0.007528712	0.497497449	0.630341948
cg10030162	ZNF423	16	0.005147891	0.286670289	0.41409451
cg03825158	ZNF423	16	0.005996811	0.65097195	0.762205299
cg10120897	ZNF469	16	0.018761417	0.334241016	0.461215177
cg03487027	ZNF503	10	0.003462	0.543298178	0.657276712
cg13997975	ZNF503	10	0.015192523	0.580666897	0.684974611
cg16284674	ZNF511;TUBG1	10	0.00738873	0.31127155	0.480858474
cg25401010	ZNF532	18	0.021727621	0.419023717	0.558264694

cg23309969	ZNF532	18	0.024531431	0.427641327	0.546281755
cg18231690	ZNF592	15	0.004053472	0.194942317	0.336108351
cg05957504	ZNF608	5	0.005862964	0.267055107	0.44098458
cg23598573	ZNF609	15	0.012515276	0.459274595	0.605795501
cg08462055	ZNF609	15	0.000346137	0.518931445	0.642285954
cg11964338	ZNF610;ZNF61	19	0.049601211	0.358650952	0.475680966
cg23257184	ZNF681	19	0.049806247	0.523425202	0.626652099
cg14359798		11	5.08E-05	0.217125501	0.507948996
cg14638919		9	0.026944018	0.483545569	0.730222494
cg26671988		5	2.57E-06	0.344785925	0.583494232
cg22305850		2	0.008785623	0.356734566	0.592553363
cg24697097		10	0.008766843	0.498364818	0.720352748
cg08773226		6	2.69E-05	0.474690428	0.695848309
cg23429664		10	0.003967184	0.293026718	0.51320731
cg04051365		3	0.000240984	0.2676817	0.484088895
cg07216619		15	0.046880249	0.439066929	0.654192793
cg02571436		10	0.004114095	0.150132444	0.356005485
cg04589649		2	0.013958098	0.245863733	0.450589896
cg19067025		15	0.003115838	0.3005343	0.503275501
cg24692595		3	0.001042432	0.465444902	0.668105803
cg19128113		4	0.00735014	0.359605527	0.560691515
cg04095226		6	0.00114884	0.329385252	0.530138147
cg13363575		2	0.017692389	0.423826829	0.622325149
cg23678364		4	0.010961497	0.217049114	0.413115151
cg22615203		13	0.002858249	0.249611659	0.445560468
cg18558476		3	0.001394442	0.345091158	0.540818802
cg14445366		17	0.000106049	0.20069928	0.396425344
cg05778278		8	7.56E-06	0.38374717	0.576825916
cg09767588		1	0.006159863	0.270181943	0.462989815
cg23756265		11	0.000225282	0.300968797	0.493233521
cg14523804		17	0.00062862	0.449116888	0.641321562
cg14833626		4	0.000943523	0.22262646	0.411702354
cg22336669		12	0.001263226	0.335235718	0.523941467
cg18394648		5	0.009498874	0.706668658	0.894869251
cg17540450		13	0.000624407	0.209534852	0.396151217
cg08672919		6	0.000769191	0.254362466	0.439794362
cg11746048		11	0.01385968	0.273397339	0.458484432
cg16976599		2	0.003465851	0.416154585	0.601025892
cg08037719		1	0.001743688	0.362348831	0.546646939
cg15814150		4	0.002120756	0.476348239	0.660249771
cg25695992		2	0.00416437	0.434500015	0.618054197
cg15444831		10	0.000207631	0.459819166	0.642938917
cg08550517		16	0.000406936	0.174164267	0.356750175
cg24680439		10	0.024607435	0.350287761	0.53193421
cg10548805		14	0.005471188	0.244256272	0.424491354
cg20062681		11	5.87E-05	0.318727229	0.498913227

cg10717691	1	8.85E-05	0.146003351	0.325549682
cg04908380	1	3.24E-05	0.451912275	0.631379979
cg18239481	10	0.002312355	0.180055097	0.358180031
cg19907293	2	0.005008129	0.343368619	0.520009994
cg18412185	1	0.000206777	0.207647727	0.384134269
cg10421739	6	0.010046064	0.307439556	0.48389266
cg22653878	6	9.99E-07	0.466254092	0.642684002
cg24415066	4	0.020613189	0.365966178	0.542117495
cg26472326	5	0.000952888	0.252528094	0.428640558
cg06450976	6	1.15E-05	0.563014097	0.73861106
cg24823979	6	0.018688498	0.439296053	0.61471216
cg27651238	12	0.000153014	0.322171888	0.497473861
cg16397176	5	1.76E-05	0.220216336	0.395363989
cg07545858	16	0.003447668	0.327617277	0.502299635
cg09002358	5	0.000218031	0.22420985	0.398840042
cg18064917	2	0.005224592	0.359494825	0.534042263
cg07052737	2	1.79E-05	0.322103673	0.495437047
cg23201188	3	0.003260571	0.275040268	0.44787989
cg16163174	6	0.00270085	0.336541757	0.508647241
cg23340777	12	0.00841208	0.217955536	0.389577242
cg13419345	3	0.003297047	0.353637064	0.525075111
cg26848957	17	0.006808195	0.415393253	0.586791505
cg21283066	6	5.12E-05	0.31595492	0.485689191
cg16312496	7	0.002740647	0.301813716	0.471533323
cg10583319	20	0.000926995	0.277952466	0.447348959
cg24529237	6	0.002765464	0.479863792	0.648770465
cg05098589	10	0.000458663	0.546049004	0.714761668
cg19747659	8	0.000233009	0.527154064	0.695797824
cg12809483	5	0.005930412	0.293121025	0.46170852
cg07704235	18	0.000218639	0.551166102	0.719662482
cg17209471	22	0.027017742	0.268210221	0.436011398
cg17017878	6	0.009720912	0.187128117	0.354879363
cg24006770	1	0.008415591	0.355367361	0.522941149
cg16450677	2	0.000492257	0.265513431	0.431839258
cg00792968	13	0.006596904	0.379000724	0.544686732
cg23253674	6	0.008395162	0.334440851	0.500118727
cg15983072	2	0.002100686	0.354926984	0.520590767
cg00927503	2	0.00078533	0.531598364	0.696770476
cg02522990	16	0.000105491	0.445666407	0.610483449
cg09692670	15	0.000611787	0.377144753	0.541908418
cg15257489	8	0.004150196	0.173606661	0.33821607
cg19363785	8	0.000353262	0.409841149	0.574418447
cg06976222	1	0.034571995	0.487007192	0.6511772
cg17969662	1	0.000735199	0.438793664	0.602769425
cg03703733	6	0.004093749	0.450716234	0.614230725
cg24636944	5	0.001091572	0.377197574	0.539776493

cg00866541	16	0.007153247	0.402220905	0.564484919
cg01050429	5	0.034796026	0.338723954	0.500900624
cg03529261	4	1.50E-05	0.558656489	0.720593254
cg12201544	6	0.002760908	0.263320646	0.424969423
cg14256511	12	0.000360692	0.461518668	0.623032944
cg14799129	3	0.001496834	0.450394639	0.611568699
cg20462493	5	0.013980478	0.279157868	0.440129172
cg14328408	9	0.003753785	0.285594264	0.446131281
cg04239863	16	0.000166306	0.288832142	0.449233849
cg18784875	12	0.003372511	0.325093653	0.485222359
cg13375466	8	0.006988327	0.455703226	0.615609785
cg23681616	17	0.003669024	0.517273985	0.677156065
cg04672622	12	0.000430877	0.447456901	0.607164478
cg19480965	6	0.0160906	0.205800201	0.36549362
cg15924102	1	0.032424599	0.29962731	0.459253633
cg06212297	16	0.000100772	0.459793618	0.61928488
cg08211704	8	0.000141698	0.471913174	0.631135171
cg14123436	9	0.01275599	0.231274915	0.390106227
cg17615115	17	0.000143376	0.327499785	0.486243315
cg06213047	16	0.018340302	0.235322503	0.393794951
cg23062357	14	4.79E-06	0.616884812	0.775149369
cg20073893	14	0.001967499	0.331441727	0.489498892
cg10297792	12	0.006342709	0.277083092	0.435039392
cg26818573	2	0.001041068	0.474863138	0.632595781
cg00942552	3	0.0039736	0.467333484	0.624895605
cg16426034	11	0.02148766	0.203683816	0.360886981
cg09437523	16	0.009642773	0.409284574	0.566186825
cg23417171	7	5.93E-06	0.605684671	0.76209413
cg00879824	6	0.001055398	0.267150192	0.423161494
cg21800284	12	0.000164066	0.237893724	0.393850652
cg13755270	3	0.003471294	0.189583956	0.345279413
cg17008160	1	0.000146694	0.437402605	0.593057307
cg06228407	2	0.027543249	0.355349353	0.510977981
cg16362189	11	0.029958102	0.289741258	0.444525432
cg01744607	15	0.005564673	0.337096822	0.491853735
cg22117825	4	0.005657979	0.41056211	0.564815477
cg08726846	4	0.007923249	0.501373351	0.655365811
cg00723994	12	0.000190588	0.243886952	0.397806691
cg00750630	14	0.002025917	0.472210906	0.626062304
cg15224626	6	0.004209718	0.476182171	0.629338072
cg00060800	5	0.000504405	0.335673692	0.488564084
cg03160656	4	0.028453477	0.375540228	0.5281754
cg00909401	2	0.002462493	0.488757446	0.64105895
cg25464265	1	0.028550465	0.332786624	0.484757474
cg25552018	1	0.012270287	0.331974845	0.483655569
cg15824962	1	0.043222327	0.159489751	0.31069931

cg07099073	6	0.003704761	0.591352514	0.74217205
cg03464765	11	0.009166232	0.494836715	0.645332386
cg15942368	7	0.026510956	0.362645985	0.513065139
cg16864819	11	0.009436366	0.419922906	0.570260317
cg21470704	2	0.002926135	0.284316695	0.434468095
cg23362032	7	0.000405691	0.257742932	0.407582243
cg07621853	2	0.007644645	0.539071567	0.68888654
cg02140384	1	0.025220526	0.284531005	0.434274567
cg17082026	13	0.012503105	0.404965506	0.554345308
cg20101110	11	0.014491706	0.230461039	0.379733148
cg00392155	2	0.002687479	0.374692738	0.523914293
cg16277843	6	1.16E-05	0.404100091	0.552956112
cg03155825	7	0.021173676	0.228303166	0.37700518
cg20951255	7	1.36E-05	0.138361206	0.286987153
cg06250886	6	0.010745432	0.52126985	0.669575373
cg16912563	10	0.009153227	0.336243538	0.48429481
cg09214892	16	0.005768267	0.501110717	0.648979471
cg21814185	4	0.004247068	0.333582296	0.481044973
cg07591229	2	3.00E-05	0.229657353	0.377069465
cg03893901	6	0.001336707	0.493590827	0.640753837
cg06597413	11	0.000241291	0.333071419	0.480041917
cg22237668	12	0.022302457	0.16748146	0.314208247
cg18135489	11	0.006994834	0.249110209	0.395725558
cg11938832	2	0.00132737	0.594011887	0.740597293
cg04213390	2	8.29E-05	0.124857644	0.271398265
cg24720008	10	0.000243956	0.204434191	0.350711554
cg17144548	2	3.82E-05	0.588010119	0.734199906
cg04658679	12	0.039314296	0.238309072	0.384166551
cg15699099	2	0.015646008	0.2742963	0.420057135
cg20886660	13	0.008528299	0.445682972	0.591376403
cg05192538	10	0.008779973	0.541757144	0.686995859
cg19718306	3	0.000302712	0.32589437	0.470913907
cg08549390	7	0.009783689	0.128366775	0.273075405
cg20933897	17	0.007327355	0.415463566	0.560145929
cg12756312	11	0.005623759	0.555347868	0.699593385
cg06575772	8	0.000325526	0.494086396	0.638008747
cg14482712	15	0.000644812	0.262664336	0.406462233
cg06521347	8	0.017204335	0.335892029	0.479673443
cg01976921	8	2.14E-05	0.322853572	0.466493394
cg04063906	7	0.003219762	0.467605984	0.611212003
cg26944426	7	9.66E-05	0.354636137	0.498129429
cg13802981	13	0.000599864	0.302485919	0.445973698
cg26994894	16	2.78E-05	0.685921089	0.829125914
cg27099293	10	0.025728914	0.557679727	0.700484767
cg19987900	14	0.015325225	0.421659352	0.564209106
cg04075986	7	1.94E-05	0.212517133	0.355005862

cg16924929	3	0.024179559	0.335787954	0.478052549
cg18493761	11	0.001120008	0.346025781	0.488251113
cg01975934	8	0.02528983	0.31277772	0.454749722
cg22687766	1	1.76E-05	0.267025652	0.408349358
cg21737020	17	6.66E-05	0.428521633	0.569784254
cg06214869	7	0.039588283	0.270139472	0.411163671
cg15192041	11	0.003515937	0.468476777	0.609463594
cg09089118	7	0.00118493	0.250004297	0.390940641
cg18631996	5	0.000109188	0.190845436	0.331760293
cg05843312	7	0.003274621	0.227340041	0.368253063
cg12668649	3	0.006433436	0.418802286	0.559493234
cg08301211	6	0.001752969	0.485681434	0.626032506
cg07584582	22	0.03053534	0.270779909	0.411101224
cg27057027	7	0.001196981	0.321917704	0.462146016
cg13897222	1	3.69E-05	0.692190596	0.832350105
cg18469813	6	0.00342365	0.327482824	0.467537102
cg00931957	1	0.00684948	0.520221794	0.660046224
cg27392395	8	0.00174192	0.627934796	0.767321338
cg01243072	2	0.000378619	0.22730929	0.366584039
cg14380474	1	0.038335178	0.460101384	0.599190319
cg10932916	5	0.013506588	0.320359919	0.459364636
cg22996742	6	0.001421175	0.416715968	0.555595898
cg09579989	12	0.00134302	0.469818591	0.608611855
cg06139749	7	0.013847018	0.187465908	0.325966452
cg21342910	17	3.91E-06	0.126052129	0.264529435
cg12109883	15	0.012925929	0.179510614	0.317804609
cg17793497	15	0.031840976	0.274485254	0.412634763
cg12182580	11	0.000586881	0.525872425	0.663983526
cg02067239	16	0.047690224	0.221939373	0.360050141
cg20076301	8	0.007915919	0.4691052	0.607049704
cg06720014	1	0.018655282	0.361796793	0.499461959
cg22442352	5	0.000126336	0.622685007	0.760239501
cg13852730	15	1.24E-05	0.605205768	0.742749646
cg26509250	2	0.004716669	0.43756608	0.575094866
cg05998301	2	0.017589762	0.383275525	0.520766225
cg24757926	3	0.002774568	0.524371947	0.661845389
cg17489750	8	1.21E-05	0.327863442	0.465298397
cg20249252	12	0.022615068	0.12001825	0.257320488
cg25149122	18	0.002619995	0.30114227	0.438234357
cg02613809	10	0.001620224	0.569823473	0.706839858
cg10852861	4	0.020435772	0.138363176	0.275376029
cg11869862	15	0.011428718	0.264343949	0.401293544
cg18017482	1	0.000200905	0.28431722	0.421089742
cg11286742	3	0.010212531	0.531019166	0.667724262
cg17074989	15	0.019751404	0.21846053	0.354740763
cg19248958	10	0.015738947	0.516670042	0.652809417



cg14304674	9	0.006476546	0.387287595	0.523180497
cg16278514	3	0.001902748	0.269213144	0.404614335
cg08675565	4	3.20E-05	0.366570234	0.501868451
cg15305352	6	0.013485176	0.174131642	0.309409677
cg14210119	2	0.00416261	0.50485866	0.640098987
cg17164513	19	0.017787644	0.270008476	0.405154356
cg06002476	3	0.018643548	0.271957747	0.406920609
cg17635080	12	0.008126764	0.332422716	0.467318566
cg22375757	3	0.010112517	0.359129572	0.493555844
cg04601957	2	0.011397263	0.365080583	0.499427705
cg26853787	2	0.019989075	0.272841188	0.406955196
cg09265016	12	0.000247762	0.505800952	0.63982245
cg22107147	2	0.011558602	0.514806421	0.64867225
cg27120405	2	9.38E-06	0.649520519	0.783222181
cg08787698	2	0.041322676	0.347612819	0.481170098
cg17855390	1	0.011450171	0.332394192	0.4658384
cg09976157	6	0.032158683	0.286148426	0.419435958
cg23202167	19	7.63E-05	0.283319107	0.416584235
cg16681649	11	0.017752035	0.619037453	0.752259286
cg00614617	17	3.07E-05	0.363063747	0.496244438
cg13767779	17	0.005199138	0.396049658	0.529149646
cg01269702	2	0.031942418	0.242830136	0.375929496
cg04853995	12	0.018105648	0.344674797	0.477718535
cg18384190	10	0.022617969	0.351138014	0.483974957
cg17213713	7	0.004857875	0.550381213	0.683178804
cg23499779	12	0.008286634	0.535924249	0.668599501
cg04249642	10	0.020049088	0.46590655	0.598524695
cg12050175	10	0.000548766	0.547126787	0.679672928
cg05753629	1	0.032998427	0.382623462	0.515143642
cg19412663	4	0.001134013	0.347890659	0.480407217
cg26987928	15	0.001495184	0.551556418	0.683942685
cg16311740	3	0.000864546	0.304725532	0.436701155
cg10461261	15	0.001455242	0.574015501	0.705975837
cg21507153	7	0.00016271	0.669470497	0.801223529
cg26710983	16	0.035230119	0.325653053	0.457052817
cg01962750	2	0.011812378	0.329418701	0.460631519
cg05222995	12	0.000677447	0.158413799	0.289529974
cg25033380	12	0.009577294	0.241534753	0.372638065
cg26597838	10	0.033406242	0.189531692	0.320616559
cg17010895	2	0.025232497	0.471693922	0.602693451
cg27360992	22	0.04263191	0.224715442	0.355674107
cg05261299	12	0.001174228	0.255789041	0.386203645
cg17485988	7	0.020518884	0.273306415	0.403688482
cg14226702	9	0.004176324	0.519369274	0.649747492
cg11646762	5	0.009785482	0.427309664	0.55762507
cg00018850	14	0.00801806	0.483417936	0.613727628

cg07967531	1	0.002876115	0.497623453	0.627814172
cg21664281	3	0.003960623	0.686254377	0.816253815
cg04920214	16	0.000627016	0.674083714	0.804049002
cg27657363	22	0.022101596	0.288124542	0.417972671
cg18749015	6	0.00024308	0.090317287	0.220042164
cg21242508	22	0.001333438	0.607637302	0.737171724
cg22036872	1	0.009171004	0.438451957	0.567626301
cg27095222	11	0.027982234	0.559482602	0.688590519
cg00432953	3	0.032758553	0.319167766	0.448216696
cg17297696	11	0.020588976	0.616581455	0.745600751
cg19738121	12	0.011623191	0.407973388	0.536925505
cg13593562	9	0.001439995	0.369877257	0.498534557
cg21170682	11	0.008679037	0.252958861	0.381584257
cg21997746	6	0.001002977	0.45549812	0.583986036
cg02274236	7	0.042114301	0.184890571	0.313351364
cg03113254	4	0.01488726	0.25258772	0.380852234
cg24983752	11	0.002881582	0.271094206	0.399034798
cg15337521	5	0.016011862	0.511238363	0.639024559
cg19859445	8	0.003094523	0.521422535	0.649179852
cg17479898	1	0.042115337	0.439785097	0.567400149
cg06761167	16	0.006013434	0.249661911	0.377276705
cg05479109	16	0.000757331	0.592602743	0.720067815
cg13796936	1	0.036604793	0.193411668	0.320864761
cg04079215	1	0.002169448	0.528369999	0.655387694
cg07230078	4	0.009888326	0.224381487	0.351344363
cg06000330	7	0.000221568	0.318437258	0.445227103
cg21393885	17	0.006596904	0.518824423	0.645534998
cg22495968	2	0.048564693	0.578115581	0.704618769
cg13493546	9	0.000164633	0.526977478	0.653397711
cg04962865	8	0.034307428	0.147770528	0.273958577
cg23279756	6	4.14E-05	0.203618904	0.329735607
cg02064798	4	0.023671768	0.336213693	0.462322958
cg22063654	8	0.000182362	0.152275957	0.278256629
cg21351437	4	0.011899251	0.291956964	0.417829591
cg23899450	2	0.012677507	0.385813676	0.511653457
cg07188523	6	0.00034587	0.147858547	0.273616337
cg05453411	16	0.005769223	0.557008519	0.682687352
cg23610041	20	0.000928831	0.184378341	0.309956559
cg05707211	8	0.0105324	0.448907596	0.574298895
cg18869244	17	0.029843447	0.179826143	0.305215171
cg13460850	3	0.007400477	0.202852425	0.328115373
cg10985970	11	0.001130199	0.525484699	0.650568314
cg06829686	1	0.000395355	0.375586797	0.50062233
cg01231009	8	0.001367167	0.533498421	0.658512335
cg02116283	2	0.031513406	0.5655402	0.690453555
cg21188409	3	0.018644836	0.291788862	0.416671868

cg01471428	12	0.039606745	0.285278545	0.410014824
cg14210817	13	0.003464831	0.221407479	0.345929751
cg11724590	14	0.00406	0.381398771	0.50587177
cg23220897	3	0.004180479	0.316501819	0.440951565
cg13998223	9	0.014935579	0.273116822	0.397542841
cg21392435	8	0.000247344	0.278442282	0.402818211
cg14987787	12	0.004481925	0.193855296	0.317894572
cg25351763	5	0.000109819	0.66852779	0.792482647
cg12107466	10	0.02281975	0.468881196	0.592670269
cg04586928	5	0.026203838	0.424170975	0.54791249
cg08026493	8	0.013050434	0.337022608	0.460423125
cg04234923	5	0.00619707	0.383686098	0.507084536
cg26702098	8	0.022391023	0.371187418	0.49457633
cg26893699	17	0.038312213	0.296502517	0.419805384
cg04229930	2	0.000736065	0.181425936	0.304481668
cg02467382	8	0.022464206	0.400891949	0.523792507
cg17511968	2	0.001692837	0.462054007	0.584840388
cg11524773	6	0.012986339	0.22975324	0.352457086
cg08127108	2	0.045435171	0.300297382	0.422936578
cg20597127	1	0.030679281	0.233404228	0.355809241
cg06929583	10	0.023051461	0.251668971	0.374011316
cg04135198	8	0.000195317	0.281496256	0.40365411
cg13235761	1	0.002067588	0.13975643	0.261855961
cg00432262	7	1.10E-05	0.502384634	0.624354258
cg04141975	5	0.02028305	0.39243635	0.514398065
cg05897122	4	0.019182134	0.534649723	0.656500036
cg21386766	12	0.023942232	0.410123907	0.531942479
cg09941601	16	0.03210859	0.234806653	0.35656807
cg22138219	8	0.018685129	0.504516035	0.626082932
cg12277789	10	0.021161123	0.285134027	0.406586903
cg07133097	2	0.000248287	0.694754215	0.816071662
cg17098979	2	0.043138161	0.328443907	0.449651453
cg14651936	9	0.000125477	0.350544261	0.471693206
cg15174906	6	0.000461539	0.254241585	0.37534004
cg26373051	2	0.011432324	0.159412906	0.280487059
cg27535538	7	0.002303651	0.42420117	0.545247394
cg04229986	10	0.007683743	0.524563796	0.645568976
cg20051875	12	0.000711928	0.382120995	0.503072787
cg11701367	5	0.010139755	0.517668017	0.63854501
cg16302916	14	0.00954094	0.557472244	0.678217964
cg17630138	3	0.018125145	0.488610053	0.60921424
cg08374552	5	0.016592835	0.364989308	0.485545662
cg01289290	3	0.003191386	0.591032454	0.711499169
cg01286665	5	0.002389976	0.371283198	0.49147942
cg05565697	15	0.001661982	0.415553729	0.53550213
cg21578397	3	0.013692044	0.482822186	0.602724929

cg26884359	17	0.020871144	0.170294567	0.290146562
cg01550810	1	0.04418854	0.553060748	0.672815704
cg25249728	2	0.019556653	0.146078253	0.265789967
cg23096806	10	0.004996921	0.247800534	0.36745514
cg14335159	9	0.013230475	0.449976719	0.569622441
cg17476285	1	0.005471188	0.470612751	0.59021527
cg19742687	11	0.043474776	0.318384601	0.437970018
cg04293770	5	0.031952695	0.546132032	0.665714309
cg11302988	13	0.002772877	0.588199512	0.707739831
cg09501314	15	0.014674435	0.145314576	0.26482552
cg07599713	6	0.006645607	0.504855224	0.624323958
cg14460008	2	0.013040092	0.546462316	0.665853976
cg06748060	4	0.000313121	0.626365051	0.745737817
cg00256155	1	0.000184837	0.244022229	0.363346054
cg01627475	2	0.009696819	0.410803854	0.529985132
cg10632966	10	0.000726218	0.609083903	0.728105658
cg11988253	2	0.009561915	0.281993189	0.400942418
cg26621770	12	0.005139071	0.196569443	0.315380732
cg14588003	15	0.01193442	0.428376187	0.547161474
cg11794956	5	0.013606725	0.294389644	0.413131039
cg20635389	2	0.008976304	0.344648326	0.463365779
cg19595295	17	0.019658199	0.222101848	0.340502569
cg06103243	3	0.008857328	0.405427536	0.523732031
cg07920381	12	0.029428352	0.350668629	0.468931863
cg10476950	7	0.018987936	0.576675415	0.694835059
cg01128025	4	0.045357901	0.32460228	0.442601293
cg16698845	7	0.0015091	0.657676821	0.775641173
cg04181032	4	0.007147513	0.461095226	0.579051336
cg19699170	2	0.004730381	0.30031971	0.418044155
cg02772711	12	0.000217512	0.610097228	0.727809532
cg09077443	11	0.013845423	0.314433834	0.432116497
cg01008680	22	0.005549499	0.398075813	0.51575079
cg12369091	12	0.009987298	0.36114143	0.478698983
cg02244233	10	0.009176459	0.232949851	0.350462196
cg21171610	4	0.01088863	0.429154578	0.546544047
cg07126126	16	0.042526218	0.550635832	0.66800574
cg21884122	14	0.00033013	0.558746128	0.676088407
cg18952546	6	0.00111353	0.460389603	0.577487258
cg01116425	2	0.01394443	0.299700464	0.416714608
cg06821999	14	0.015402786	0.154298222	0.27130143
cg11996860	8	0.002452411	0.417766824	0.534696211
cg27508055	2	0.006267491	0.405285223	0.52215251
cg11692124	17	0.002475708	0.150174074	0.266999881
cg02272429	15	3.18E-05	0.668106233	0.784929257
cg13376438	7	0.001925983	0.62044712	0.737200452
cg04607671	16	0.00346502	0.398748287	0.515358297

cg09050372	2	0.004091327	0.504433472	0.620950482
cg27511461	10	0.026987223	0.472687035	0.588972626
cg23393800	15	0.001417305	0.638736749	0.755006932
cg01595262	12	0.000168795	0.617059409	0.733308281
cg20824201	2	0.036279715	0.319386077	0.435564895
cg04615460	12	0.000981512	0.258427224	0.374521597
cg23922804	12	0.001079313	0.507486406	0.623562761
cg26608486	16	0.00067076	0.647228332	0.763293377
cg19735151	10	0.027219196	0.418422689	0.534477943
cg01092108	5	0.001717771	0.618883132	0.734849846
cg14434755	12	0.002721527	0.187377367	0.303283324
cg08498747	17	0.001499053	0.329940948	0.44580227
cg08278108	17	1.16E-05	0.193104605	0.308890088
cg26107642	5	0.048830078	0.233278765	0.349063595
cg14434601	7	0.017204335	0.534604072	0.650311113
cg01184975	12	0.014218123	0.080090092	0.195792979
cg25988321	14	0.013477394	0.167425225	0.283111873
cg14145896	14	0.000492104	0.530274242	0.645909276
cg12163955	15	0.001372606	0.456298456	0.57192633
cg20926679	4	0.021594543	0.375731086	0.491226546
cg20784391	17	0.046440886	0.377557633	0.492907115
cg00454592	2	0.008511291	0.557649076	0.67297085
cg11268280	8	9.04E-06	0.138713199	0.253977808
cg19086497	11	0.019383965	0.499753556	0.614964713
cg03973379	7	0.03073955	0.310102541	0.425274813
cg04754683	8	0.048348455	0.476324431	0.591459692
cg16927416	8	0.000390528	0.317828828	0.432845408
cg05348366	1	0.022922863	0.495510636	0.610451674
cg19996420	13	0.036170359	0.371057709	0.485998576
cg17404640	6	0.035474127	0.400818108	0.515721264
cg00615941	3	0.035738232	0.399752399	0.514520924
cg03130530	2	0.013394365	0.35665978	0.471415047
cg17870997	2	0.020968545	0.323001153	0.437712843
cg15171155	3	0.018887822	0.50933964	0.623970353
cg11915444	2	0.007816464	0.598565237	0.713186516
cg24384120	10	0.035053651	0.144978624	0.25959018
cg06154005	6	0.037850169	0.402344634	0.516867254
cg09696115	15	0.033604111	0.378586492	0.493089231
cg26866349	16	0.003741374	0.644909608	0.7594078
cg24352299	13	0.018603039	0.559357828	0.673848704
cg19747745	21	0.000894923	0.364526992	0.478999139
cg19482885	18	0.020523329	0.641774656	0.75624402
cg11254532	1	0.003371215	0.265534193	0.380003183
cg20562447	11	0.000573486	0.114991198	0.229443549
cg07765595	16	0.011840482	0.336833595	0.451205974
cg25051510	12	0.008403189	0.342229421	0.456530133

cg06443678	17	0.011510744	0.48039949	0.594630684
cg07970325	6	4.77E-05	0.481630621	0.595835858
cg12248807	6	0.00772057	0.55637876	0.670540506
cg01227246	2	0.001494811	0.6384091	0.752452882
cg09148630	6	0.025890944	0.180506231	0.294524934
cg03221837	16	0.031952695	0.292112879	0.406127009
cg10891959	13	0.018580763	0.413467143	0.52727921
cg12389397	1	0.021570223	0.393138087	0.506946743
cg27065717	16	0.000809526	0.619262454	0.732907888
cg21457856	3	0.008134663	0.566088246	0.679622879
cg12115800	3	0.000519979	0.606950734	0.720481288
cg09320079	16	0.037653444	0.165518662	0.27896608
cg26888463	16	0.001679886	0.208085161	0.321406107
cg03909983	8	5.55E-05	0.328645558	0.441907244
cg24202221	2	0.039193071	0.477077	0.590310907
cg05801374	1	0.003913259	0.334659851	0.447847263
cg20321270	4	0.00480381	0.596665848	0.709736539
cg25556051	4	0.042689979	0.397065297	0.510016083
cg20202760	8	0.01251511	0.296394154	0.409342684
cg00594191	10	0.005915442	0.145636205	0.258578455
cg13625388	13	0.01723909	0.35957109	0.472493289
cg18011188	2	0.048113387	0.415138176	0.528018844
cg10020890	16	0.004613918	0.39808535	0.510934961
cg17877600	1	0.00028039	0.48201052	0.594815173
cg15642380	1	0.004385253	0.58898201	0.701695111
cg06034711	8	0.000257636	0.535164891	0.647727236
cg02084467	17	0.026799648	0.145163913	0.257673578
cg02433979	7	0.025190479	0.221832714	0.334286961
cg06192592	6	0.011347374	0.196647349	0.309024485
cg17657459	5	0.001672028	0.262350282	0.374644132
cg09011316	1	0.002223488	0.380919926	0.493090031
cg09334977	6	0.005598305	0.451548686	0.563690062
cg04017512	10	0.000995156	0.574380886	0.686488323
cg16322269	8	0.007810357	0.426691778	0.538741587
cg08743313	4	0.014302124	0.411010008	0.523025187
cg03773183	17	0.036601551	0.624923379	0.736872114
cg05033560	5	0.003689656	0.530616692	0.642524118
cg23424407	12	0.002459665	0.159767638	0.271435158
cg07579884	14	0.039510799	0.319332274	0.430947163
cg13051263	3	0.026490792	0.527095719	0.638677122
cg09695851	17	0.004192769	0.302473329	0.414004361
cg20957370	5	0.025650419	0.2976761	0.409115965
cg03736795	4	0.033248296	0.17259326	0.283839584
cg11170998	4	0.018659326	0.534350503	0.645596496
cg24056365	1	0.023446341	0.564102166	0.675237611
cg07554408	14	0.043231788	0.175327935	0.286425847

cg15757019	4	0.019320874	0.382255117	0.493318582
cg12772314	18	0.015848259	0.268889589	0.379876244
cg03076855	6	0.012164625	0.199738346	0.310701301
cg03581797	14	0.008124109	0.22140404	0.332303963
cg02204521	2	0.026284764	0.115680259	0.226484373
cg03073691	13	0.005996811	0.501501483	0.612251635
cg10174683	16	0.028688988	0.343342938	0.454040562
cg25943481	15	0.047645073	0.355216841	0.465841561
cg14994947	1	0.001736157	0.595071779	0.705677828
cg18879198	2	0.009290674	0.364011723	0.474597649
cg09115225	13	0.007718181	0.563597676	0.674134426
cg15806569	2	0.015402786	0.551647743	0.662137706
cg23856536	7	0.000939507	0.086825395	0.197279513
cg07211476	18	0.027767181	0.659506392	0.769945769
cg05437476	16	0.007547871	0.406802754	0.517233398
cg12354056	3	0.028183081	0.389408074	0.499661601
cg04348643	3	0.003143153	0.424627906	0.534856591
cg05599759	20	0.024930969	0.243576574	0.353744566
cg14521077	3	0.012300301	0.596222861	0.706329755
cg00277714	13	0.000853957	0.458086981	0.56819157
cg11584284	6	0.00401677	0.594819707	0.704797323
cg05590921	11	0.041946993	0.364807514	0.474648313
cg12853656	7	0.00346667	0.503050778	0.612885863
cg02299497	14	0.002076339	0.579757491	0.689535743
cg18169505	4	0.043181192	0.304539747	0.414313504
cg05612654	6	0.000893003	0.629783206	0.739552056
cg11532433	2	0.017107867	0.331829697	0.441512451
cg18097872	2	0.002772877	0.315766804	0.425408497
cg14678654	20	0.002414966	0.245865805	0.355456983
cg03511513	12	0.016493892	0.608034128	0.717597241
cg11423909	3	0.00174192	0.616157039	0.72568544
cg05453924	13	0.044797926	0.423744451	0.533247303
cg10228981	16	0.002033219	0.581663716	0.690996465
cg18780021	17	0.013537662	0.379946053	0.489114086
cg22964758	12	0.01843103	0.5440483	0.653176353
cg00299396	11	5.50E-06	0.621971183	0.731020132
cg23006227	4	0.028314977	0.375881131	0.484860382
cg00512459	15	0.023378987	0.430317887	0.539239571
cg18985738	11	0.027498322	0.138572888	0.247342538
cg16063018	12	0.049187088	0.344463121	0.453190651
cg07870914	1	0.04798691	0.423857242	0.532533414
cg22959827	5	0.020513196	0.432126952	0.540650215
cg02203714	16	0.004466345	0.427370045	0.535826957
cg00269725	6	0.003217337	0.710454478	0.818891058
cg21924472	4	0.001869951	0.42211677	0.530509871
cg01953615	16	0.000194243	0.643697603	0.752071188

cg24690715	20	0.049464849	0.325098446	0.433434767
cg06388363	6	0.001571045	0.385370709	0.493669071
cg26504440	12	0.000489959	0.293029779	0.401288361
cg01471264	2	0.0192307	0.253178911	0.361340197
cg02627405	5	0.000275472	0.642908423	0.75102955
cg20778022	7	0.025093768	0.546200476	0.654304137
cg10484693	10	0.049063229	0.185150502	0.293251426
cg06139794	10	0.001373359	0.52764419	0.63570793
cg02330719	17	0.014345754	0.654989308	0.763020145
cg21897970	17	0.024918847	0.314663402	0.422652531
cg05479618	11	0.04163769	0.462646939	0.570558158
cg10626792	11	0.028090831	0.394579374	0.50242166
cg09187505	6	0.000268047	0.199624827	0.307407108
cg15514393	10	0.019700266	0.52037238	0.628067037
cg19014214	11	0.008162847	0.244180286	0.351772484
cg14156498	9	0.029810359	0.290255449	0.397840227
cg07504763	1	0.006135737	0.352651798	0.460215505
cg06910580	12	0.03690421	0.316961342	0.424517552
cg20463533	10	0.043780121	0.519241931	0.626764645
cg06530563	12	0.022223863	0.152858207	0.26033586
cg17729072	6	0.018756486	0.144217474	0.251615926
cg01061714	5	0.030337974	0.358506765	0.465801903
cg04017102	5	3.01E-07	0.632695662	0.739944657
cg23819144	10	0.01918528	0.561561957	0.668792283
cg14461273	14	0.00045972	0.690583198	0.797801123
cg23591463	12	0.028185853	0.09893554	0.206151511
cg01044025	3	0.003927599	0.291746724	0.398927571
cg11073382	4	0.002870444	0.388288205	0.495455044
cg03677126	5	0.039655428	0.36414841	0.471284505
cg04852323	16	0.026419004	0.426356286	0.533460945
cg21123519	14	0.001868748	0.625871565	0.732919707
cg08478672	8	0.029774141	0.342437973	0.449442969
cg07858848	2	0.036299795	0.539008092	0.645913384
cg14244013	17	0.000135111	0.160332991	0.267167883
cg25402979	12	0.007585428	0.593514217	0.700234212
cg10529555	1	0.000170116	0.182054835	0.288737019
cg11603201	12	0.004323729	0.681879195	0.78846587
cg16329589	4	0.035773184	0.259313909	0.365882254
cg02516703	5	0.04659576	0.369977043	0.476280928
cg25138327	2	0.037728941	0.44903245	0.555278836
cg21662240	8	0.017641816	0.423299527	0.529545717
cg25526960	10	0.032569229	0.249406434	0.355624474
cg26921881	17	0.00104487	0.348998599	0.455172954
cg17017189	6	1.94E-05	0.129987331	0.235871929
cg02596508	16	0.013061959	0.48925135	0.595127844
cg10492240	4	0.015903617	0.210208134	0.316062582



cg20481247	10	0.036083107	0.519491669	0.62519913
cg02383285	6	0.030333582	0.211503785	0.317183592
cg19502359	11	0.000626319	0.151203231	0.256800444
cg11064034	12	0.042090597	0.172049117	0.277586764
cg04610187	17	0.012290369	0.580840455	0.686367241
cg01413548	6	0.048750894	0.32172553	0.42706319
cg17153133	6	0.01963187	0.57846605	0.683724827
cg12043145	14	0.010198095	0.332353029	0.43758615
cg13972366	7	0.007091199	0.268491911	0.373570239
cg09263516	12	0.002155124	0.377656886	0.482724543
cg21821684	15	0.023299373	0.327785544	0.432809355
cg22372285	11	0.001787749	0.62789622	0.732894509
cg18913924	7	0.00650558	0.424099276	0.529033894
cg22740634	2	0.000631705	0.495105142	0.599980435
cg08155625	21	0.008636785	0.505363027	0.610075425
cg05482603	10	0.03083473	0.596646495	0.701326279
cg24527636	1	0.042832477	0.198877169	0.303508453
cg27387573	16	0.000452155	0.550790625	0.655399749
cg00834923	16	0.003462783	0.20801481	0.312590364
cg20668221	2	0.000880511	0.189158717	0.293671191
cg10406759	17	0.030569079	0.567269246	0.671771438
cg09313140	12	0.001351625	0.428196909	0.532695419
cg19265919	7	0.003824894	0.707434992	0.81185251
cg00908813	3	0.015259556	0.548226087	0.652597267
cg16355771	3	0.007950948	0.492773431	0.597118746
cg15516052	11	0.037381178	0.304678504	0.40898122
cg09430518	8	0.028550465	0.397296744	0.501581652
cg08452095	3	0.013987191	0.487017367	0.591262005
cg14313315	12	0.024763637	0.213951334	0.318178825
cg00423598	7	0.049667672	0.329264065	0.43346171
cg14706317	5	0.003399024	0.398315198	0.502511479
cg24794669	10	0.008627592	0.419058421	0.523218442
cg19513492	12	0.012582026	0.232343003	0.336443657
cg16598508	16	0.012729144	0.211517613	0.315618019
cg25800753	10	0.004687258	0.510177969	0.614222627
cg16144883	17	0.000155071	0.150760886	0.254799855
cg23385248	15	0.038340938	0.420232368	0.524236881
cg20430631	11	0.02371878	0.314251646	0.41824972
cg21686386	1	0.005128879	0.518902651	0.622891011
cg10546817	14	0.016403302	0.15790246	0.261819564
cg21430752	17	0.010916727	0.559692285	0.663538768
cg13604150	21	0.034299463	0.642374424	0.746203793
cg22919538	3	0.017422507	0.549649067	0.653471829
cg16075940	6	0.000618311	0.629506575	0.733071395
cg02744699	17	0.012121576	0.675544574	0.779105199
cg15956558	11	0.043223379	0.647394512	0.750766715

cg10218510	16	0.019563152	0.404513525	0.507879235
cg17177599	2	0.024987608	0.565975335	0.669317951
cg03005191	11	0.006328613	0.485068436	0.588396796
cg00360761	2	7.02E-05	0.315001143	0.418275672
cg02335251	2	0.018452476	0.193467537	0.296739437
cg24211006	20	0.002161173	0.281030758	0.384278379
cg05475627	6	0.017443274	0.546537489	0.649685018
cg09151131	17	0.000249696	0.159536493	0.26266874
cg08490246	4	0.019500176	0.419503064	0.522538601
cg01433527	7	0.041642871	0.374204065	0.477184404
cg11433866	12	0.006440357	0.200425177	0.30326933
cg19290938	11	0.020047599	0.365518286	0.468283779
cg11197630	5	0.048215267	0.24540529	0.34814385
cg07347205	16	0.008179353	0.20199722	0.304658179
cg23226249	1	0.038270787	0.258033481	0.360650693
cg17305672	8	0.002840857	0.606353383	0.708953819
cg11813265	14	0.014355264	0.164326591	0.266924016
cg23606162	1	0.013711414	0.536454137	0.639025555
cg05748238	16	0.011876608	0.414174783	0.516744467
cg22112075	2	0.000581289	0.220893221	0.32328001
cg19298400	17	0.048111291	0.381181927	0.483487009
cg14886850	14	0.020724117	0.228705111	0.330973353
cg23218354	1	0.000139674	0.307341643	0.409581392
cg01951879	16	0.000343747	0.27918016	0.381167195
cg17833265	17	0.00034587	0.235352538	0.337250667
cg20436458	2	0.010797541	0.505846946	0.607670313
cg14073497	11	0.000448976	0.110251223	0.212047142
cg08688907	5	0.01120718	0.57655604	0.678190373
cg08780680	13	0.000777078	0.630853488	0.73228033
cg05081908	4	0.005360925	0.239393007	0.340696985
cg04609694	6	0.049518048	0.236478226	0.337733904
cg19998332	6	0.022781905	0.635737814	0.736915117
cg19102120	5	0.020109534	0.652060686	0.753168912
cg13537774	9	0.01746835	0.566154835	0.667230714
cg19674851	2	0.010846928	0.625333942	0.726333715
cg09744374	5	0.023002022	0.527239864	0.62821922
cg18122493	1	9.93E-05	0.517741165	0.61871971
cg08326300	10	0.046036823	0.148817288	0.249767543
cg14202791	9	0.01471214	0.573595684	0.674484597
cg03860530	2	0.000406936	0.481005275	0.581866517
cg08461760	7	0.019299614	0.478296017	0.579144
cg13207606	6	0.002776511	0.648516132	0.749340026
cg08317243	16	0.000131759	0.615006109	0.715742387
cg20063095	2	0.020143821	0.285959422	0.386658204
cg24032056	12	0.003473769	0.534072116	0.634636264
cg16685313	1	0.045579379	0.206022893	0.306566713

cg16237297	14	0.00271586	0.736131149	0.836638579
cg21742975	15	0.038511227	0.140682712	0.241188285
cg03810376	1	0.030543463	0.140876537	0.241318009
cg11843673	2	0.022300174	0.570154463	0.670508898
cg24800630	6	1.76E-05	0.69379444	0.793924627
cg09885505	16	0.004123063	0.173398188	0.27352611
cg17111166	11	0.000784518	0.36488688	0.464979701
cg15947910	4	0.000956971	0.672986302	0.773062667

## Hypomethylated in Osteo

Delta.Beta	Probe	Gene	CHR	adj.P-value
-0.1445462	cg16981346	AARSD1;AAR	17	0.000382786
-0.1194807	cg04105716	AATK	17	0.010216949
-0.113312	cg22081096	ABCA6;ABCA	17	0.000153014
-0.138377	cg09648454	ABCC12	16	2.39E-06
-0.1184854	cg07861968	ABCC12;ABC	16	0.000247688
-0.1552873	cg13617376	ABCC2	10	0.001347896
-0.1240559	cg25928474	ABCC3;ABCC	17	0.001242878
-0.1252736	cg11237362	ABCD3;ABCD	1	0.000247778
-0.133075	cg17574812	ABHD6	3	0.018097917
-0.1216324	cg23196919	ABHD6	3	0.00230369
-0.1067329	cg17941109	ABHD8	19	0.000106067
-0.1039831	cg03471346	ABL2;ABL2;A	1	0.009704225
-0.1029173	cg01658815	ABLIM1;ABLI	10	0.000184837
-0.1560956	cg06848487	ABLIM1;ABLI	10	9.16E-05
-0.1128319	cg17056676	ABLIM1;ABLI	10	0.000137226
-0.1360897	cg19676285	ABLIM2;ABLI	4	0.000320999
-0.1045825	cg08837344	ABRA	8	3.08E-05
-0.1190392	cg23302998	ACCN1	17	0.004182832
-0.1521152	cg06956006	ACLY;ACLY	17	0.022509615
-0.1285184	cg09249800	ACOT7;ACOT	1	7.14E-06
-0.1804021	cg23230478	ACOT7;ACOT	1	0.009577156
-0.1236818	cg11699125	ACOT7;ACOT	1	6.97E-06
-0.1775708	cg24187645	ACPL2;ACPL2	3	0.000109491
-0.1030565	cg14685946	ACSL3;ACSL3	2	3.01E-07
-0.1087205	cg08734527	ACTL8	1	0.003592231
-0.134006	cg13777668	ACTN1;ACTN	14	7.81E-05
-0.1055928	cg06177278	ACTN2	1	0.004590343
-0.1472348	cg26831416	ACTN4	19	0.027017742
-0.1068946	cg13287763	ACVR1;ACVR	2	0.000961229
-0.1067029	cg06001734	ACYP2	2	0.004313925
-0.1552701	cg00952789	ADAMTS1	21	0.00252796
-0.1079797	cg02827007	ADAMTS10	19	0.001870636
-0.1502802	cg27015773	ADAMTS10	19	0.00078909
-0.1399307	cg09918751	ADAMTS17	15	0.001235342
-0.1294046	cg25357666	ADAMTS17	15	0.000145062
-0.1874233	cg09046370	ADAMTS2;AI	5	0.001055595
-0.1216573	cg00646084	ADAMTS5	21	0.013036335
-0.1095037	cg05529278	ADAMTS5	21	3.09E-06
-0.1432851	cg14740657	ADAMTS5	21	0.003056913

-0.12993	cg03294207	ADAMTS5	21	0.000907611
-0.122669	cg21033632	ADAMTS6	5	0.006573215
-0.1035131	cg14502847	ADAMTSL1;A	9	9.39E-05
-0.125243	cg22731190	ADAMTSL2;A	9	0.024515185
-0.1274403	cg13687274	ADAP1	7	0.039911715
-0.1184768	cg04012681	ADARB2	10	0.012050744
-0.1120971	cg25379549	ADARB2	10	0.000455759
-0.1089341	cg01918604	ADORA3	1	0.004613958
-0.1008493	cg07572251	ADRA1A;ADF	8	0.000257388
-0.1285837	cg23328194	ADRA1A;ADF	8	0.000209255
-0.1061265	cg02158392	AFAP1L2;AFAP	10	3.27E-05
-0.1534474	cg17593384	AFF1;AFF1	4	0.012115137
-0.1138916	cg21368566	AGAP1;AGAP	2	0.000830212
-0.1233572	cg20975733	AGBL1	15	0.006011887
-0.1111806	cg14953379	AGK	7	0.036194651
-0.1520474	cg12483930	AGRN	1	0.001564324
-0.1141048	cg13663303	AGXT2	5	0.004073948
-0.1383289	cg09513758	AHCYL1	1	0.017457761
-0.1052275	cg15797527	AHI1;AHI1;AI	6	0.000793648
-0.1218636	cg11138227	AHNAK2	14	0.009111783
-0.1238595	cg01513078	AHNAK2	14	0.000117501
-0.1235203	cg06799735	AHNAK2	14	3.87E-05
-0.1003584	cg00691586	AKAP13;AKA	15	0.001321098
-0.1797119	cg03884543	AKNAD1	1	0.008879517
-0.129609	cg00863716	AKR1C2;AKR	10	0.002214513
-0.1084835	cg00784105	AKR7A2	1	0.001120516
-0.1031431	cg06400255	ALDOA	16	0.020940341
-0.1395403	cg13306478	ALOX5AP	13	0.000598826
-0.1388482	cg22129111	ALOXE3;ALOX	17	0.000171491
-0.1143904	cg16413687	ALX1	12	0.002787491
-0.1011541	cg03781931	ALX1	12	0.038006786
-0.1420129	cg06809252	ALX3	1	0.010110134
-0.1372285	cg07736627	ALX4	11	1.05E-07
-0.1070688	cg10063575	AMHR2;AMH	12	0.017358392
-0.1352247	cg14655905	AMPD3;AMP	11	5.67E-06
-0.1255773	cg21823502	ANAPC11;AN	17	0.00297012
-0.1468707	cg21193744	ANGPT2;ANG	8	0.000186709
-0.1110404	cg05885688	ANK1;ANK1;A	8	0.002012146
-0.1511177	cg08521995	ANK1;ANK1;A	8	1.61E-06
-0.1423353	cg25212578	ANK3	10	0.007299725
-0.1157271	cg26110900	ANK3	10	0.002759594
-0.1632521	cg08067983	ANKRD10	13	6.02E-05
-0.1147947	cg24065504	ANKRD22	10	0.037402932
-0.2476351	cg10581071	ANKRD33B	5	0.00014814
-0.1371094	cg12623145	ANKRD36	2	0.019939278
-0.126369	cg10664971	ANXA11;ANX	10	0.001522528

-0.1082466	cg25515997	ANXA2;ANXA	15	0.001034385
-0.1136841	cg02415661	AP1M1;AP1M	19	0.011725961
-0.1190021	cg02349866	AP3S2;AP3S2	15	0.003471425
-0.1415438	cg10656128	APBA2;APBA	15	0.026397677
-0.1575054	cg25354657	APLP2;APLP2	11	0.000686369
-0.1440936	cg20032056	APLP2;APLP2	11	0.00132737
-0.1256034	cg23729763	APLP2;APLP2	11	0.000121998
-0.1576819	cg16066354	APOBEC3D;A	22	0.006826185
-0.1005319	cg07713361	APOL1;APOL	22	0.003338433
-0.1549592	cg14690065	APOL6	22	0.011925795
-0.1067352	cg13494887	APPL2	12	0.000288067
-0.177815	cg09676669	AQP1	7	0.034857406
-0.1898605	cg15373767	AQP1	7	0.016886865
-0.1791145	cg25230363	AQP1	7	0.049450289
-0.1565559	cg07135629	AQP1	7	0.000233085
-0.1500976	cg10132917	AQP1	7	0.000169012
-0.1500682	cg04372674	AQP1	7	0.036024679
-0.1367679	cg18307978	AQP1	7	0.001580156
-0.1357797	cg00729275	AQP4;C18orf	18	0.043751503
-0.1323405	cg08554554	ARFRP1;ARFR	20	0.004713983
-0.1038883	cg03206044	ARHGAP10	4	0.008934147
-0.1006823	cg01782668	ARHGAP10	4	0.000930639
-0.1430966	cg24506434	ARHGAP22	10	4.45E-06
-0.1317418	cg14555350	ARHGAP26;A	5	0.000975879
-0.1037556	cg08339023	ARHGAP9;AR	12	0.014119275
-0.1089616	cg04894027	ARHGEF10L;A	1	1.85E-06
-0.1551419	cg07233343	ARHGEF10L;A	1	0.000553072
-0.1564934	cg22524332	ARHGEF10L;A	1	4.85E-05
-0.140183	cg11587191	ARHGEF16	1	0.003248193
-0.1401361	cg02311801	ARHGEF17	11	8.87E-06
-0.1230702	cg11229273	ARHGEF3	3	0.000106049
-0.1205782	cg05300440	ARID1A;ARID	1	0.000996708
-0.1202852	cg18973247	ARID1A;ARID	1	0.001134013
-0.1438965	cg02384859	ARID3B	15	0.008515281
-0.1228968	cg08782899	ARL16;HGS	17	3.88E-05
-0.1212687	cg18599155	ARL8B	3	0.025202563
-0.1190394	cg18575863	ARMC2	6	0.00019694
-0.1378238	cg19708986	ARNT2	15	0.004647715
-0.121936	cg01446731	ARNT2	15	3.05E-06
-0.166114	cg26165146	ARNTL2	12	0.022750531
-0.1298903	cg21756647	ARRB1;ARRB	11	1.44E-05
-0.1766683	cg05845141	ARRDC2;ARR	19	9.99E-07
-0.1360963	cg00970435	ARSG	17	0.03141223
-0.1439055	cg06404572	ASAP1	8	0.004719708
-0.1317357	cg00013804	ASAP2;ASAP	2	0.000701251
-0.1151433	cg23902076	ASAP2;ASAP	2	8.30E-05

-0.1116555	cg06609004	ATF6B;ATF6E	6	0.000282053
-0.1063674	cg17174275	ATP10A	15	0.001123255
-0.1055336	cg15275965	ATP10A	15	1.76E-05
-0.1052112	cg03525467	ATP1A2	1	0.001052856
-0.165423	cg06956052	ATP1A4	1	2.96E-05
-0.1375686	cg01948978	ATP2B4;ATP2	1	0.005128879
-0.1021595	cg27484320	ATP6V1B2	8	0.000634914
-0.1724516	cg22274117	ATXN1;ATXN	6	0.036367986
-0.1226085	cg01898553	AUTS2;AUTS:	7	0.024439381
-0.1603923	cg13881790	AUTS2;AUTS:	7	3.88E-05
-0.1358187	cg04046364	AVIL	12	0.008962054
-0.1277806	cg12807275	AVPR1A	12	0.008521519
-0.1940074	cg15456115	B3GNT3	19	0.000402171
-0.1067746	cg01706991	BAALC;BAALC	8	1.22E-05
-0.1105275	cg17486314	BACH2;BACH	6	0.010706295
-0.1182672	cg24859648	BANF2;BANF	20	0.043751503
-0.141964	cg22902266	BARX1	9	0.008768327
-0.1403181	cg04536765	BAT3;BAT3;B	6	0.007158023
-0.1372378	cg14474158	BAT3;BAT3;B	6	5.34E-06
-0.1269508	cg16175906	BAT3;BAT3;B	6	5.52E-05
-0.1142746	cg27014438	BAT3;BAT3;B	6	0.000350386
-0.1301716	cg23175322	BATF2	11	0.003190565
-0.1286652	cg24965479	BCAS3;BCAS:	17	0.046007068
-0.1506475	cg08724310	BCAT1	12	0.014692291
-0.10692	cg09800500	BCAT1	12	0.000952411
-0.1004361	cg19778647	BCAT1	12	0.000443725
-0.1005957	cg21606696	BCL3	19	0.000473555
-0.1119442	cg27087650	BCL3	19	0.019947172
-0.1560839	cg01015175	BCO2;BCO2	11	0.001282585
-0.1142658	cg12041459	BEND6	6	0.000316335
-0.1647999	cg09970511	BEND6	6	0.000138939
-0.1148079	cg00658449	BEYLA;BEYLA	8	0.015250566
-0.2014409	cg13282594	BGLAP	1	0.00047992
-0.1002469	cg07567376	BICC1	10	0.000473559
-0.1393904	cg22641201	BICC1	10	0.045514573
-0.191206	cg14200211	BICD1;BICD1	12	0.000537896
-0.1013469	cg02887598	BIN1;BIN1;BI	2	0.000953716
-0.2487811	cg02023138	BIN2	12	0.016417332
-0.1734874	cg24824842	BIN3	8	0.006074175
-0.1166919	cg10002131	BIRC8;BIRC8	19	0.003663943
-0.1080475	cg24062389	BIVM;BIVM	13	0.000721711
-0.1057241	cg21863334	BLCAP;BLCAF	20	0.000223852
-0.1310585	cg24890964	BLCAP;BLCAF	20	0.025923832
-0.1914666	cg00920938	BMP1;BMP1;	8	3.01E-07
-0.1531435	cg00359661	BMP6	6	0.000603178
-0.1391579	cg26193418	BMPER	7	0.000671064

-0.1337277	cg09807875	BMPER	7	8.24E-05
-0.1286802	cg03291755	BNC2	9	0.008575864
-0.1223189	cg06024391	BPGM;BPGM	7	0.005672985
-0.1021982	cg13299824	BRDT	1	0.023045656
-0.1003171	cg14732540	BRDT	1	0.012182763
-0.124696	cg22719871	BRMS1;BRM!	11	7.44E-06
-0.1159585	cg19651003	BSG;BSG;BSC	19	2.96E-05
-0.1369458	cg20092122	BST2	19	0.000793426
-0.177229	cg01686739	BTBD11	12	0.000908097
-0.1246794	cg04909432	BTBD17	17	0.002641526
-0.1937864	cg02923972	BTBD19	1	6.50E-05
-0.134859	cg22690339	BTBD9;BTBD!	6	0.044264427
-0.1549023	cg12238593	BTN3A3;BTN	6	0.019986405
-0.1566046	cg03292206	BUB1	2	0.000162203
-0.1297761	cg03970483	C10orf28	10	0.000509655
-0.1150728	cg24842260	C10orf41;C10	10	0.006294565
-0.1133229	cg03936104	C10orf41;C10	10	0.030118369
-0.1056041	cg22618337	C10orf81	10	6.99E-06
-0.140833	cg11204562	C10orf81	10	0.000228772
-0.1410415	cg10627429	C10orf81	10	0.001270878
-0.1560563	cg15579389	C11orf21;C11	11	0.027034664
-0.1092121	cg02375832	C11orf48	11	0.000970872
-0.2403213	cg07188648	C11orf88;C11	11	0.039036459
-0.1563304	cg09166410	C13orf16	13	0.004670741
-0.1255886	cg14973892	C13orf18	13	0.006293052
-0.1144089	cg01533082	C14orf37	14	0.003367228
-0.1146805	cg13017813	C14orf4;C14c	14	5.99E-05
-0.1043573	cg01456491	C15orf62;DN	15	0.000498767
-0.1293665	cg09596762	C16orf62	16	0.003288448
-0.157188	cg27153327	C16orf73;C16	16	0.025216157
-0.205978	cg27638057	C18orf45	18	0.000195317
-0.1789401	cg03214420	C19orf61	19	6.75E-05
-0.1521879	cg24661168	C1orf107	1	1.04E-05
-0.1483072	cg22341848	C1orf128	1	0.000367672
-0.1172141	cg04486839	C1orf192	1	0.008288455
-0.1115857	cg19729188	C1orf52;C10r	1	0.016137959
-0.1121669	cg16545954	C1orf86	1	0.020902791
-0.1401734	cg06963192	C1orf9;C1orf	1	0.000538044
-0.1366695	cg07109332	C1QA	1	0.009814268
-0.1100667	cg17807001	C1QTNF1;C10	17	0.004037422
-0.1182152	cg22258892	C1QTNF1;C10	17	0.000124554
-0.1095007	cg15013617	C20orf141	20	0.005704961
-0.1044343	cg11800608	C20orf85	20	8.32E-05
-0.1337434	cg03175417	C22orf25	22	3.23E-05
-0.119126	cg06492283	C2orf39	2	9.57E-05
-0.1216765	cg06709297	C2orf48	2	0.002051738



-0.1286737	cg11277143	C2orf48	2	0.000135153
-0.1266487	cg16421411	C2orf48	2	0.000250423
-0.1105369	cg23005797	C2orf48	2	6.79E-05
-0.1007731	cg04499514	C3AR1	12	0.010181914
-0.1220936	cg05878887	C3orf26;FILIF	3	0.004924544
-0.2018466	cg08350549	C3orf26;FILIF	3	0.00223404
-0.1225762	cg04246167	C3orf67	3	0.003436288
-0.1539856	cg00287773	C5orf32	5	0.01326696
-0.1300357	cg03653573	C5orf56	5	0.024946162
-0.1050292	cg26130669	C6orf105;C6orf105	6	0.000799958
-0.1623398	cg01129238	C6orf105;C6orf105	6	0.000128628
-0.1384018	cg08421910	C6orf105;C6orf105	6	0.000828795
-0.1617234	cg15601361	C6orf105;C6orf105	6	6.36E-05
-0.1065728	cg00483640	C6orf195	6	0.025538855
-0.1048931	cg04405211	C6orf195	6	0.000276767
-0.1167783	cg02379549	C6orf89	6	0.040351037
-0.1254147	cg13565461	C7orf11	7	0.019391677
-0.1020037	cg19543867	C7orf53;C7orf53	7	0.020303505
-0.1405881	cg22920873	C7orf55	7	3.38E-06
-0.104801	cg24340898	C8orf45;C8orf45	8	0.037206652
-0.1800307	cg15947176	C8orf46	8	0.000110917
-0.1984611	cg13869648	C9orf98;C9orf98	9	0.000259418
-0.1504577	cg25221092	CABLES1;CAE	18	0.000210109
-0.1044327	cg01288184	CABLES1;CAE	18	0.000742139
-0.1953018	cg19966472	CABYR;CABYL	18	0.014596215
-0.1042012	cg04400131	CACHD1	1	0.026429272
-0.1137982	cg26995942	CACNA1H;CACNA1H	16	0.003681655
-0.1925383	cg07890233	CACNA1H;CACNA1H	16	0.029077611
-0.1035804	cg00383793	CACNA2D2;CACNA2D2	3	0.002193247
-0.1664289	cg03364832	CACNA2D3	3	0.018077958
-0.1456092	cg25626166	CAMK1D;CAMK1D	10	0.021507833
-0.1054062	cg12273284	CAMK1D;CAMK1D	10	0.014452417
-0.1043474	cg26177041	CAMK2D;CAMK2D	4	4.66E-06
-0.1035258	cg17541002	CAMKK2;CAMKK2	12	0.014273084
-0.101195	cg13202213	CAMTA1	1	0.000320442
-0.120381	cg21583016	CAMTA1	1	0.005955261
-0.1688851	cg07173049	CAMTA1	1	0.000405691
-0.1253314	cg02275084	CAMTA1	1	0.000114303
-0.1727847	cg02923485	CAPN2;CAPN2	1	3.87E-05
-0.1019839	cg17081867	CAPZB	1	0.00017321
-0.1167332	cg05820435	CAPZB	1	0.000143421
-0.1135037	cg06360604	CAPZB	1	1.30E-05
-0.1677672	cg11613157	CARD8	19	0.006366548
-0.1089967	cg13415078	CARKD	13	0.001332259
-0.1439861	cg25388715	CASP7;CASP7	10	0.00423696
-0.1141907	cg14590325	CBLL1;CBLL1	7	0.011533517

-0.104484	cg07220903	CCDC12	3	0.016148289
-0.1100173	cg19805160	CCDC19	1	0.000342352
-0.1285513	cg17482963	CCDC25	8	0.002651903
-0.1435671	cg02708758	CCDC33	15	0.001822197
-0.1681533	cg25939630	CCDC50;CCD	3	0.003157276
-0.1105744	cg06394820	CCDC86	11	0.015219002
-0.1224545	cg22693266	CCDC91	12	0.000986862
-0.1350845	cg02932854	CCL24	7	0.000897318
-0.1000067	cg11303839	CCL26	7	0.0086713
-0.144987	cg08656816	CCL5	17	0.000216127
-0.1247205	cg07740894	CCNY;CCNY	10	0.001541759
-0.1064175	cg23817981	CCR4	3	0.019180425
-0.1547912	cg07248223	CCR7	17	0.033335824
-0.1606425	cg16047279	CCR7	17	0.002613347
-0.1271303	cg18599081	CCRL2;CCRL2	3	0.014251275
-0.1428254	cg23350385	CCRL2;CCRL2	3	0.020517788
-0.1330802	cg01606773	CD109;CD109	6	4.49E-05
-0.1247909	cg03976366	CD207	2	0.00025595
-0.1244577	cg19090861	CD248	11	0.017524533
-0.1195041	cg14910296	CD276;CD276	15	0.009976326
-0.1556865	cg06601993	CD36	7	0.030328896
-0.1132619	cg14082886	CD44;CD44;C	11	0.013204527
-0.1012423	cg13332350	CD44;CD44;C	11	0.029283126
-0.1120561	cg12467404	CD55;CD55	1	0.010641765
-0.1109196	cg07440264	CD59;CD59;C	11	0.001445022
-0.1635625	cg23903301	CD59;CD59;C	11	0.000113754
-0.1581391	cg11848173	CD63;CD63	12	0.017006793
-0.1342623	cg09944616	CD7	17	0.000117501
-0.1136271	cg05175803	CD82;CD82	11	8.66E-05
-0.1164018	cg21108085	CD82;CD82	11	0.003476565
-0.1888509	cg07341609	CDC42EP1	22	0.023709815
-0.1009409	cg23386895	CDC42EP2	11	0.000257577
-0.1133499	cg12617598	CDC73	1	0.014590335
-0.1400893	cg25624887	CDCP1	3	0.003402242
-0.1148516	cg09220326	CDCP1;CDCP	3	0.012121576
-0.1046184	cg09415485	CDH13	16	0.000124176
-0.100023	cg10677324	CDH29	3	0.000566042
-0.1091349	cg20026633	CDH29	3	3.56E-06
-0.1194024	cg16325421	CDH4	20	0.015523291
-0.1229956	cg15830572	CDK11B;CDK	1	1.57E-05
-0.1111315	cg07571022	CDK18;CDK18	1	0.004012961
-0.1154424	cg05101437	CDK6;CDK6	7	0.020920281
-0.1006669	cg00908631	CDKN2C	1	0.003678851
-0.1141011	cg06682875	CDO1	5	0.00132649
-0.1432409	cg06726231	CECR1;CECR1	22	0.000218031
-0.1169363	cg04026927	CEP55;CEP55	10	0.002100686

-0.1324994	cg12124018	CFB	6	0.000284425
-0.1016203	cg19446264	CGB8	19	0.001525188
-0.123023	cg22819369	CHAT;CHAT;(	10	0.002504259
-0.1213484	cg02070740	CHD1L	1	0.015991481
-0.1596903	cg17143643	CHIA;CHIA	1	0.007598743
-0.1100314	cg23202388	CHID1;CHID1	11	0.006530427
-0.1063489	cg26531231	CHRNA9	4	0.000978978
-0.1071821	cg16861964	CHST11	12	0.036502264
-0.1505846	cg00608661	CHST11	12	0.003073212
-0.1351669	cg18664965	CHST13	3	0.001567906
-0.166853	cg08327038	CIRH1A	16	0.000466499
-0.1496163	cg00685314	CIT	12	9.82E-06
-0.1378526	cg00407062	CIZ1;DNM1;I	9	0.002248436
-0.1331999	cg02295216	CKLF;CKLF;Ck	16	0.003885811
-0.1193926	cg10447615	CLCC1;CLCC1	1	0.023817934
-0.1034541	cg25856090	CLCN1	7	7.96E-05
-0.1216556	cg11571124	CLIP1;CLIP1	12	0.029419331
-0.2146579	cg05239310	CLMN	14	0.016294735
-0.2077999	cg00865429	CLNK	4	0.000329603
-0.2043425	cg00220335	CLPTM1L	5	3.84E-05
-0.2009684	cg22566694	CMBL	5	0.007390255
-0.2001967	cg08834989	CNGA3;CNGA	2	0.045661203
-0.1964347	cg15708127	CNIH3	1	5.67E-06
-0.1791869	cg02825887	CNTRF;CNTFI	9	0.015408714
-0.178368	cg15447971	COL14A1	8	0.004632233
-0.1777923	cg00937175	COL18A1	21	0.005923343
-0.177604	cg22809726	COL1A1	17	0.005161898
-0.1754566	cg00638021	COL1A1	17	0.00036351
-0.1749328	cg00439089	COL1A1	17	0.000114417
-0.1637989	cg21847118	COL1A1	17	9.91E-06
-0.160946	cg02827061	COL1A1	17	1.09E-05
-0.1592619	cg25026926	COL1A1	17	0.000263618
-0.1567037	cg14832352	COL1A1	17	0.000271004
-0.1525542	cg14700325	COL1A1	17	1.53E-05
-0.1522894	cg10368049	COL1A2	7	0.033885569
-0.1509903	cg23348014	COL1A2	7	0.015219002
-0.1448446	cg06299997	COL1A2	7	0.002178742
-0.1433096	cg13327911	COL21A1	6	0.027794267
-0.1428461	cg16930728	COL22A1	8	0.004038795
-0.1417134	cg06485308	COL23A1	5	0.001270878
-0.1402063	cg10275917	COL28A1	7	0.000156205
-0.1348677	cg04815713	COL4A2	13	0.000865639
-0.1339518	cg01493379	COL6A3;COL	2	0.000931875
-0.1329537	cg18656024	COL7A1	3	2.49E-05
-0.1319429	cg21175685	COL8A1;MIR	3	0.00054979
-0.1317703	cg03073218	COLEC10	8	0.001819666

-0.1306191	cg13569424	COLEC12	18	0.02041047
-0.1298158	cg04395006	CORO7	16	0.000164066
-0.1268411	cg20441135	CPEB3	10	0.015146428
-0.1264793	cg24238409	CPEB3	10	0.009020195
-0.1226415	cg19464524	CPEB3	10	0.014419763
-0.1191971	cg16460727	CPLX2;CPLX2	5	0.016945518
-0.1189194	cg19015686	CPN1	10	0.041809033
-0.116964	cg06880930	CPNE2	16	1.73E-05
-0.1162451	cg22881750	CPNE5	6	0.018270183
-0.1144617	cg02558162	CRABP1	15	0.002775493
-0.1109334	cg27183823	CRAMP1L	16	0.00596693
-0.1104237	cg09709565	CREB3L1	11	1.23E-06
-0.1083893	cg04072597	CRLF1	19	0.007882933
-0.1076942	cg20737500	CRMP1;CRM1	4	0.002395778
-0.1075232	cg16294414	CROCC	1	0.038384945
-0.1052081	cg21531389	CRYBB1	22	6.50E-05
-0.1031779	cg20450123	CSGALNACT1	8	0.004825821
-0.1021409	cg06784232	CSGALNACT1	8	0.00360901
-0.1002493	cg14722693	CSGALNACT1	8	0.000285404
-0.163447	cg25581222	CSNK1G1	15	0.020085497
-0.1497088	cg01473602	CSRP2	12	6.01E-06
-0.1406759	cg00148286	CTBP1;CTBP1	4	0.014624601
-0.1358424	cg16734845	CTDSPL2	15	0.00216
-0.1285508	cg06968859	CTNNA2;CTN	2	0.044247658
-0.1272188	cg13685506	CTNND2	5	0.000369944
-0.1225525	cg08012294	CTSB;CTSB;C	8	0.031438692
-0.1200279	cg23679724	CTSZ	20	0.000104915
-0.1124941	cg25913882	CUBN	10	0.000192032
-0.1053749	cg18965179	CUX1;CUX1;C	7	0.038659201
-0.1211882	cg23261443	CUX1;CUX1;C	7	0.007813656
-0.1146237	cg23217940	CYFIP1;CYFIP	15	6.40E-05
-0.1915955	cg02162897	CYP1B1	2	0.017391395
-0.1307241	cg20408276	CYP1B1	2	0.003896998
-0.1324062	cg14407177	CYP1B1	2	0.00117359
-0.1017254	cg21637761	CYTBS;CYTSB	17	1.29E-05
-0.1290974	cg25406518	DAK;DDB1	11	0.001651259
-0.1400513	cg10156302	DAPK2	15	0.003066477
-0.1197982	cg09597022	DAXX;DAXX;I	6	0.005109301
-0.1047886	cg09365002	DAXX;DAXX;I	6	0.006715896
-0.1204728	cg24498636	DAXX;DAXX;I	6	0.018620714
-0.1456802	cg07905975	DAXX;DAXX;I	6	0.008689117
-0.1039249	cg22904406	DAXX;DAXX;I	6	0.00078336
-0.1020685	cg11151251	DCAF5	14	2.45E-05
-0.1590103	cg02465887	DCHS2	4	0.00719451
-0.1464088	cg08514408	DCK	4	0.000240984
-0.1163715	cg17470143	DCLK1	13	0.001443219

-0.1647291	cg23574583	DCLK1	13	0.001830271
-0.120278	cg26932364	DDC;DDC	7	0.001975684
-0.1245446	cg11972626	DDX60L	4	0.000710639
-0.1030449	cg14585967	DEC1	9	4.39E-05
-0.1017093	cg19931902	DEFB129	20	0.010249789
-0.1011055	cg05226729	DEFB135	8	0.005111119
-0.1269605	cg15591803	DENND2D	1	5.91E-05
-0.1234062	cg03400695	DENND3	8	1.22E-05
-0.1505836	cg00674995	DGKH;DGKH	13	0.000953716
-0.1432904	cg02920600	DGKI	7	1.03E-05
-0.1144005	cg10177197	DHCR24	1	0.000257577
-0.1021796	cg17475467	DHCR24	1	7.44E-06
-0.1254383	cg13624631	DHRS7	14	0.005293338
-0.1429412	cg06115576	DIP2C	10	0.000556904
-0.153387	cg09874796	DIP2C	10	9.22E-05
-0.1080184	cg15123499	DIP2C	10	0.000147617
-0.1758661	cg12596243	DIRC3	2	1.21E-07
-0.1302436	cg08467371	DIS3L2	2	0.02084264
-0.1096362	cg07328664	DIS3L2	2	0.00052936
-0.146805	cg00550040	DKFZp566F09	19	0.034367248
-0.1015945	cg26446832	DKK3;DKK3;E	11	4.93E-06
-0.1795609	cg10364881	DKK3;DKK3;E	11	0.010443146
-0.1403123	cg27395342	DLC1;DLC1	8	0.000364322
-0.1049899	cg15681239	DLEC1;DLEC1	3	0.028924973
-0.2033058	cg09179691	DLGAP4;DLG	20	7.05E-06
-0.1003856	cg12626882	DNAH9;DNAI	17	0.045970226
-0.1615196	cg14443182	DNAJB5;DNA	9	0.000228772
-0.1007271	cg18126802	DNM3;DNM3	1	0.017116775
-0.1306152	cg20420249	DNM3;DNM3	1	0.017692389
-0.2159909	cg07802362	DNM3;DNM3	1	0.00308293
-0.1239773	cg05363955	DOCK10	2	0.001295248
-0.1330484	cg01818776	DOCK5	8	0.023051461
-0.1508493	cg13760060	DPF3	14	0.000899717
-0.1839877	cg26187031	DPYSL2	8	0.000102627
-0.1441194	cg09075484	DST	6	0.002767025
-0.1295352	cg17759095	DST	6	0.027023509
-0.1264301	cg00136547	DST;DST;DST	6	0.025584255
-0.113576	cg18517540	DTNA;DTNA;	18	4.42E-05
-0.1203085	cg20236089	DTNBP1;DTN	6	0.004065792
-0.1383265	cg10888811	DTYMK;DTYM	2	9.91E-06
-0.1091792	cg13570892	DUOX1;DUOX	15	6.02E-05
-0.1786514	cg03290131	DUSP5	10	0.02586869
-0.1740457	cg02927679	DUSP5	10	0.000661035
-0.1411367	cg09357462	DUSP5	10	0.000678114
-0.1278836	cg10080966	DUSP5	10	6.81E-05
-0.1274399	cg10077746	DUSP6;DUSP	12	0.030751631

-0.1138905	cg12127149	DYNC1H1	14	0.001463943
-0.1288201	cg01670714	DYNLRB1	20	0.008229354
-0.1003574	cg14784820	DYSF;DYSF;D	2	1.55E-07
-0.1013355	cg11526198	E2F2	1	0.001061054
-0.1193944	cg07616828	EBF2	8	0.006857578
-0.1005086	cg05825244	EBF4	20	0.00285512
-0.1318346	cg21005416	ECE1;ECE1;E	1	0.010469132
-0.1146283	cg13447099	ECE1;ECE1;E	1	0.001180179
-0.1108802	cg16386293	ECM1;ECM1	1	0.000611947
-0.115637	cg10112943	EDNRA;EDNF	4	0.001658877
-0.1225114	cg16264526	EDNRA;EDNF	4	0.00815938
-0.1161317	cg03224812	EFCAB4B;EFC	12	0.000169695
-0.106783	cg11401820	EFTUD1;EFTL	15	0.033601869
-0.1000831	cg25625968	EGFLAM;EGF	5	0.008038969
-0.1975854	cg04625338	EGFR;EGFR;E	7	5.06E-05
-0.1029986	cg20682143	EGLN1	1	0.001134013
-0.1779641	cg15945999	EHBP1L1	11	3.33E-06
-0.1716213	cg05150973	EHD1	11	0.000155587
-0.1009595	cg00648955	EHD3	2	0.018534263
-0.1165246	cg09204108	EHD4	15	0.026148648
-0.1866577	cg13632520	EHMT1	9	0.011313915
-0.155598	cg19766988	EIF3G	19	0.004027674
-0.1180244	cg05328461	EIF3G	19	1.05E-07
-0.1645935	cg20044923	EIF3H	8	0.000300624
-0.1573713	cg08822118	EIF4G1;EIF4C	3	0.004779284
-0.2401258	cg10776533	EIF4G1;EIF4C	3	3.82E-05
-0.1281935	cg04509882	EIF4G1;EIF4C	3	0.005909129
-0.1471995	cg01291854	ELK3	12	0.000146694
-0.1193001	cg19028997	ELK4;ELK4	1	0.001788548
-0.1308147	cg26245202	ELK4;ELK4	1	0.001209181
-0.2355571	cg03773862	ELMO1	7	0.000410834
-0.1054225	cg16353851	ENC1	5	0.028303979
-0.1135816	cg22109370	ENGASE	17	0.000151929
-0.1589203	cg11978634	ENOX1;ENOX	13	1.68E-05
-0.1318201	cg07236691	ENPP2;ENPP	8	0.00078788
-0.1289648	cg21211882	EPB41L1;EPB	20	0.020195536
-0.1191878	cg24327877	EPB41L2;EPB	6	0.010129277
-0.1436408	cg13678551	EPB41L4B;EP	9	0.010779697
-0.1055676	cg21647035	EPHA2	1	0.004282053
-0.1385821	cg10835083	EPHA4	2	0.016159731
-0.1028906	cg14475913	EPPK1	8	0.030402049
-0.1351089	cg01970336	EPS15	1	0.020905735
-0.2235396	cg13696545	ERC2	3	5.63E-05
-0.1927044	cg08488318	ERGIC1	5	0.000376735
-0.1818206	cg13582457	ERGIC1	5	0.021267599
-0.1544226	cg03321829	ERGIC1	5	1.41E-06

-0.1336207	cg22709362	ERI3	1	0.003025206
-0.127744	cg21376454	ERN1	17	0.04205808
-0.1257008	cg21211780	ESPN	1	0.003452433
-0.1236092	cg01395667	ESPNP	1	0.003067028
-0.1235932	cg26180469	ESRRA	11	3.31E-05
-0.1220282	cg27160968	ESRRA	11	4.41E-05
-0.1184214	cg27428520	ETNK2	1	1.76E-05
-0.117813	cg04165073	ETS1;ETS1;ET	11	0.000543212
-0.1150174	cg15256387	ETV1;ETV1	7	0.010795225
-0.1104584	cg21463790	ETV1;ETV1;E	7	0.025209755
-0.1066373	cg06518884	ETV5	3	0.001548244
-0.1034514	cg11655490	ETV6	12	0.034749333
-0.124277	cg08483376	EVX1	7	0.006470209
-0.1167091	cg23298114	EXT1	8	0.004115953
-0.1293624	cg15694987	EXT1	8	1.41E-05
-0.1102294	cg18595324	FABP3	1	5.35E-05
-0.1462343	cg16520965	FAM109A	12	0.000274081
-0.1307339	cg06547285	FAM113B	12	5.35E-05
-0.1235455	cg25123566	FAM113B;LO	12	0.014413751
-0.103853	cg17320378	FAM129C	19	0.002299711
-0.1325234	cg18006637	FAM13A;FAM	4	0.000106516
-0.1024356	cg02771117	FAM167A;C8	8	0.015756377
-0.1240544	cg13576290	FAM179A	2	0.000244183
-0.1409765	cg13436110	FAM188B	7	0.001768597
-0.1362085	cg12239580	FAM198A	3	0.000756721
-0.1411672	cg12539917	FAM19A5	22	0.00176452
-0.1214445	cg05006211	FAM19A5	22	0.008702433
-0.1418589	cg08859215	FAM20A	17	0.001419606
-0.1125245	cg18069356	FAM20A	17	0.000161549
-0.1066374	cg08798862	FAM38A	16	0.000387783
-0.101674	cg09115713	FAM38A	16	8.30E-05
-0.1054172	cg06829760	FAM49A	2	0.0055508
-0.1351072	cg04163638	FAM49A	2	0.007644645
-0.1468056	cg04463607	FAM55B	11	0.011397263
-0.2057395	cg27050407	FAM65B	6	6.97E-06
-0.197902	cg03913278	FAM66D;USF	8	0.046985565
-0.1079439	cg08893087	FAM69A	1	0.011090081
-0.1314437	cg16689937	FAM71D;FAM	14	0.00713872
-0.1018988	cg10624729	FAM73A	1	0.000433964
-0.1711717	cg08256536	FAM83A;FAM	8	0.005860211
-0.2259217	cg00831735	FAM83A;FAM	8	0.000552257
-0.1407979	cg22223119	FARP1	13	0.001512188
-0.1555349	cg17301987	FARS2	6	0.000778556
-0.1106091	cg13456138	FAS;FAS;FAS;	10	0.000261403
-0.100905	cg03301671	FAT1	4	0.000101608
-0.1934478	cg21061071	FAT1	4	8.57E-05

-0.1058587	cg02325160	FAT1	4	0.000458204
-0.1334038	cg04304779	FAT1	4	0.000105601
-0.104885	cg23000950	FBN1	15	0.006365318
-0.1040874	cg17835606	FBN1	15	0.001444345
-0.1153841	cg18880986	FBXL18	7	1.41E-05
-0.1469616	cg06639923	FBXL18	7	0.017522802
-0.1586855	cg00456685	FBXL2	3	0.022421327
-0.1498583	cg15894581	FBXL22	15	0.000232779
-0.1380912	cg26233084	FBXL7	5	0.010141485
-0.1147889	cg12897164	FBXO32;FBXC	8	0.000246287
-0.1760253	cg17765387	FBXW8;FBXV	12	0.000122221
-0.159564	cg16729555	FCAMR;FCAM	1	0.002069295
-0.1227161	cg20806175	FCER1G	1	0.006450112
-0.1237513	cg01612158	FCRL4	1	0.007093571
-0.1228639	cg24664855	FCRLA	1	0.016600202
-0.1341286	cg16174681	FER	5	0.008288855
-0.1143697	cg20312012	FER1L5	2	0.041548993
-0.1413795	cg20890440	FER1L6	8	0.007027195
-0.1149663	cg00912772	FGD6	12	0.000153939
-0.1266693	cg13724550	FGF1;FGF1;F	5	1.41E-05
-0.111199	cg10220544	FGGY;FGGY	1	0.002226428
-0.1283338	cg14279345	FGGY;FGGY	1	5.24E-05
-0.1563813	cg03055021	FHAD1	1	4.12E-06
-0.1063352	cg19652483	FILIP1	6	0.00022218
-0.1744193	cg07061368	FKBP5;FKBP5	6	0.00093487
-0.1368614	cg02832512	FLJ22536	6	0.007763569
-0.1473251	cg05925497	FLJ32810	11	0.04116896
-0.1328274	cg10051588	FLJ39653;FLJ	4	4.39E-05
-0.1744493	cg20228731	FLJ43663;FLJ	7	0.001391128
-0.1018269	cg15928106	FLJ43663;FLJ	7	0.00342599
-0.1273821	cg04219001	FLOT1	6	0.000151929
-0.1126445	cg04070601	FMNL3;FMNL	12	4.57E-05
-0.1035512	cg22803510	FNBP1L;FNBP	1	0.005518696
-0.1299509	cg07739841	FNDC1	6	0.012305037
-0.1072527	cg10064525	FNDC7	1	9.91E-06
-0.1116151	cg11637968	FNIP2	4	0.001362977
-0.15703	cg15691862	FOXD2;FOXD	1	0.002530347
-0.1488142	cg14513071	FOXD2;FOXD	1	0.003682719
-0.1410285	cg21496519	FOXK1	7	0.008809446
-0.1306337	cg01808969	FOXK1	7	0.003700783
-0.1231676	cg20710824	FOXK2	17	0.000603403
-0.105324	cg25481160	FOXP1	3	0.004293498
-0.1180406	cg20115117	FOXP1;FOXP	3	0.029586445
-0.1173962	cg25356639	FOXP1;FOXP	3	0.022345317
-0.170134	cg17803993	FOXP1;FOXP	3	0.013845423
-0.1579534	cg22876402	FOXP1;FOXP	3	0.007233891



-0.1401205	cg18996141	FOXP1;FOXP1	3	0.000349224
-0.102363	cg09611620	FOXP1;FOXP1	3	0.007479631
-0.110687	cg26785702	FOXR1	11	3.45E-05
-0.1076614	cg22152605	FPR1	19	0.002941769
-0.13854	cg11377213	FRMD4B	3	0.030357774
-0.1057883	cg20789620	FSD1	19	0.001227023
-0.1552061	cg26717066	FSTL4	5	0.001083173
-0.1829834	cg02544257	FUK	16	3.56E-06
-0.1347052	cg05618183	FUS;FUS;FUS	16	0.04312022
-0.1053035	cg17682828	FXVD1;FXVD1	19	0.016493892
-0.1202759	cg08061598	FYN;FYN	6	8.04E-05
-0.1173731	cg16860392	FYN;FYN;FYN	6	0.008784945
-0.1101721	cg16139912	GADL1	3	1.25E-05
-0.109503	cg13579752	GALNT10	5	0.001950451
-0.1360589	cg26201434	GALNT10	5	0.023681761
-0.1345593	cg24556382	GALNT7	4	0.001755759
-0.2180484	cg08912860	GALNT9	12	0.015672303
-0.155674	cg20076126	GALNTL1;GALNTL1	14	3.20E-05
-0.1399419	cg09573761	GALR3	22	0.022268495
-0.1447745	cg23738585	GAS7;GAS7	17	0.000309345
-0.1134735	cg23972785	GATA4	8	0.033396408
-0.1134393	cg08202226	GATAD2B	1	0.026713845
-0.1193872	cg03125765	GATSL3	22	0.001002758
-0.1038968	cg22074858	GBP3;GBP3	1	0.01445142
-0.1104858	cg00437411	GCNT3	15	2.54E-05
-0.1081711	cg02335376	GDPD3;LOC1	16	1.04E-07
-0.1022127	cg13002506	GDPD4	11	0.035972375
-0.1081037	cg08268692	GDPD4	11	0.002181429
-0.1858833	cg01522592	GDPD5	11	0.002200279
-0.1256514	cg16874185	GDPD5	11	0.000902988
-0.1091242	cg27601906	GEM;GEM	8	0.021586482
-0.1083126	cg21638357	GIGYF1	7	7.02E-05
-0.1387515	cg03538383	GIT2;GIT2;GIT2	12	0.001016296
-0.1023863	cg02580095	GJA1	6	0.000113754
-0.1363228	cg24425972	GJB2	13	3.99E-07
-0.1072494	cg07999953	GJB3;GJB3	1	0.00490877
-0.1033888	cg06644638	GLB1L2	11	0.00023493
-0.1217741	cg12080831	GLI2	2	0.00118493
-0.1211053	cg13168314	GLIS1	1	0.008756106
-0.1419395	cg24741609	GLIS1	1	0.008335631
-0.1535236	cg06935438	GLIS3;GLIS3	9	0.000113973
-0.1471007	cg14325112	GLIS3;GLIS3	9	1.60E-05
-0.1778383	cg03852144	GLRX;GLRX	5	0.01560847
-0.1746951	cg22689909	GLRX;GLRX	5	0.033260238
-0.14151	cg16677191	GLRX;GLRX	5	0.041429925
-0.1186357	cg18131582	GLT25D2	1	0.035987265

-0.1132988	cg01708377	GMDS	6	0.008375787
-0.1626407	cg14863265	GNA12	7	0.001638832
-0.1329994	cg22647996	GNPDA1	5	3.48E-06
-0.1313654	cg15058852	GNS	12	0.000974455
-0.12578	cg21809054	GOLGA3	12	0.000259418
-0.1221021	cg18963763	GOLGA7B	10	0.001255229
-0.1079886	cg02165670	GPC6	13	1.43E-05
-0.1252293	cg11294750	GPC6	13	0.006532443
-0.1951547	cg17274742	GPNMB;GPN	7	0.004474888
-0.1448883	cg14444376	GPNMB;GPN	7	0.026731449
-0.1005393	cg05790960	GPR153	1	0.001585649
-0.140199	cg09626634	GPR183;UBA	13	5.45E-05
-0.1071676	cg19182423	GPR19	12	0.000504961
-0.1021398	cg05875421	GPR68	14	0.003221222
-0.1496086	cg19374752	GRASP	12	0.008254693
-0.114327	cg12358041	GRB10;GRB1	7	0.000206569
-0.1182765	cg22834542	GRM5;GRM5	11	0.011793067
-0.1008911	cg11566152	GTF2E1	3	0.001682222
-0.1258385	cg11606195	GTF2H3	12	0.000650739
-0.1581859	cg06745001	GYS1;GYS1;G	19	0.003568461
-0.1720466	cg11571702	H2AFY;H2AF'	5	0.001714376
-0.1344078	cg16356013	H2AFY;H2AF'	5	0.001470257
-0.1214	cg00245885	H2AFY;H2AF'	5	1.88E-05
-0.1080367	cg19449565	HDAC4	2	0.030740654
-0.1188244	cg13531637	HDAC4	2	0.000114417
-0.1160098	cg10515232	HDAC4	2	0.000418227
-0.1625981	cg23462687	HDAC4	2	0.000183675
-0.1192442	cg16348668	HDAC4	2	0.001352229
-0.113828	cg04892643	HDAC9;HDAC	7	0.001529541
-0.1091415	cg00332048	HDAC9;HDAC	7	0.018419408
-0.1204927	cg03611265	HEBP1	12	0.002893505
-0.1232132	cg23280720	HECA	6	0.002157906
-0.1008584	cg08140114	HECA	6	1.03E-05
-0.1606523	cg01213645	HECW1	7	0.001322404
-0.1410118	cg23786580	HECW1	7	0.000820432
-0.1263397	cg06931356	HECW1	7	0.000360517
-0.1232828	cg09907068	HECW2	2	0.025211973
-0.1194494	cg11029367	HEG1	3	0.026818805
-0.2042149	cg13102889	HES5	1	7.14E-06
-0.124694	cg03301084	HEY1;HEY1	8	0.018277049
-0.1225029	cg14277677	HIP1R	12	1.13E-05
-0.1052888	cg14848772	HIST1H2AG	6	0.000309345
-0.1019509	cg09606421	HIVEP2	6	0.000145062
-0.1138663	cg05519606	HIVEP2	6	6.00E-05
-0.1265544	cg17575314	HK1;HK1;HK1	10	0.000284425
-0.1306617	cg03221073	HMCN1;MIR!	1	5.35E-05

-0.1314754	cg04890607	HMGA2;HMC	12	0.006568327
-0.1282698	cg02123091	HMGA2;HMC	12	4.30E-05
-0.114677	cg02836478	HOXB3	17	0.010836593
-0.1037669	cg24963001	HOXB3	17	0.047517013
-0.1178741	cg12570134	HOXB3	17	0.007923249
-0.1206863	cg13280788	HOXB3	17	0.04424622
-0.1138454	cg09720701	HOXC4;HOXC	12	0.040547319
-0.1091859	cg16745930	HPSE2;HPSE2	10	0.028568339
-0.103239	cg23247337	HRH1	3	2.90E-05
-0.1083269	cg13593758	HRH1	3	7.57E-05
-0.1048988	cg11702866	HRH1;HRH1;I	3	0.001672238
-0.1443834	cg01420491	HS1BP3	2	1.03E-05
-0.1436637	cg24888257	HSPA1A;HSP	6	0.011564537
-0.1302431	cg22701672	HTRA1	10	0.000364406
-0.1201844	cg00701951	HTRA1	10	0.017204335
-0.1136899	cg15719652	HTRA1	10	0.000628781
-0.1550717	cg11157691	HTRA1	10	0.00835589
-0.1033414	cg23791011	HTRA1	10	0.010979507
-0.102458	cg21121843	HTT	4	0.035045749
-0.1009949	cg09386073	ICT1	17	0.017631101
-0.1535531	cg21440776	IFFO1;IFFO1;	12	0.01294105
-0.1416526	cg26550235	IFFO2	1	0.007145812
-0.101105	cg07196514	IFI16	1	0.043587475
-0.1489756	cg01342196	IFI16	1	0.011354016
-0.1047608	cg24979161	IFI27L1;IFI27	14	0.004078993
-0.1082539	cg06872964	IFI44L	1	4.32E-05
-0.1093521	cg05526364	IFT122;IFT12	3	0.001805755
-0.1339777	cg03163545	IFT140;TMEM	16	0.014749254
-0.1004337	cg10236261	IFT81;IFT81;I	12	0.025698761
-0.1322385	cg18158670	IGF1R	15	0.009038899
-0.1184652	cg25754852	IGF2R	6	0.000394536
-0.1444946	cg17980404	IGFBP4	17	0.001500709
-0.1188827	cg27409154	IGFBP6	12	2.25E-05
-0.1450953	cg06559575	IGFBP6	12	0.000288582
-0.1262455	cg10923036	IGFBP7	4	0.000632074
-0.109731	cg11070420	IGSF9B	11	3.91E-05
-0.1132389	cg26149678	IL18BP;IL18B	11	0.026609204
-0.1058807	cg26788216	IL1RL2	2	0.000353262
-0.1261332	cg11270633	IL28B	19	0.015473777
-0.133215	cg04245540	IL31RA	5	0.020314069
-0.1005574	cg16649560	IL4R;IL4R	16	0.001477437
-0.1547634	cg04312209	IL7R	5	0.011376575
-0.1362408	cg11854227	ILDR1	3	0.000114417
-0.1013042	cg00694560	ILDR1	3	0.001644819
-0.100351	cg25742037	INS-IGF2;IGF	11	0.011735485
-0.1867977	cg22677858	IPO9	1	0.021402589

-0.1467751	cg21055554	IQCD	12	7.02E-05
-0.135633	cg05075308	IRF2	4	0.004502863
-0.1318724	cg25312054	IRS2	13	0.001882904
-0.1323337	cg10824810	IRX5	16	0.019027757
-0.1188788	cg26293019	ISL1	5	0.034360278
-0.1396887	cg24488317	ISM1	20	4.85E-05
-0.1115721	cg09788003	ISM2;ISM2	14	3.33E-06
-0.1116972	cg19801256	ITGA1	5	0.000155166
-0.1179155	cg05377733	ITGA11	15	0.000369233
-0.1023914	cg19185637	ITGA11	15	0.000106662
-0.1008022	cg26184501	ITGA3;ITGA3	17	1.50E-07
-0.1228556	cg04479212	ITGA9	3	0.004182519
-0.1104282	cg08821998	ITGA9	3	0.015654857
-0.145575	cg02225720	ITGAE	17	0.008201784
-0.1512161	cg09149118	ITGAV;ITGAV	2	0.009715656
-0.1605752	cg27296308	ITGB1BP1;ITC	2	0.000232198
-0.1113036	cg22699620	ITGB2;ITGB2	21	0.00048804
-0.1300103	cg00871980	ITGB5	3	0.020976635
-0.124485	cg26689077	ITGB7	12	0.001682695
-0.116881	cg04261556	ITGB8	7	0.001252221
-0.1543458	cg05480883	ITIH5;ITIH5;IT	10	0.003288448
-0.1703038	cg01354782	ITPR2	12	0.001758287
-0.1769822	cg04935278	ITPRIP	10	0.000601007
-0.1746732	cg23523388	ITPRIP	10	0.007964223
-0.1006918	cg24199006	ITPRIP	10	0.007287708
-0.1445448	cg22888181	ITPRIP	10	0.007843076
-0.1984851	cg22945413	JAK1	1	0.008333197
-0.1824119	cg26797722	JARID2	6	0.001495536
-0.1269292	cg01675238	JMJD7-PLA2C	15	0.000137404
-0.1000313	cg12024811	KALRN;KALRI	3	0.00240437
-0.1065986	cg10464130	KALRN;KALRI	3	6.53E-05
-0.1294634	cg22550815	KANK2;KANK	19	0.001289184
-0.1416797	cg17107691	KANK2;KANK	19	3.88E-05
-0.1708299	cg22807822	KANK2;KANK	19	2.19E-08
-0.1555401	cg20953257	KANK2;KANK	19	7.67E-07
-0.1497171	cg25250013	KANK2;KANK	19	0.000186651
-0.1291629	cg22626506	KANK2;KANK	19	2.39E-06
-0.117565	cg14200574	KCNA3	1	0.024983006
-0.1569909	cg16053064	KCNAB2;KCN	1	0.000353262
-0.1286577	cg12705326	KCNAB2;KCN	1	0.00023191
-0.1198839	cg05238695	KCNE1;KCNE	21	1.16E-05
-0.1176464	cg09551019	KCNH1;KCNH	1	7.73E-05
-0.1397005	cg09248613	KCNH1;KCNH	1	0.000114266
-0.106543	cg01627597	KCNK3	2	0.002767025
-0.1623213	cg11273176	KCNK3	2	0.000921582
-0.1043011	cg19972648	KCNMA1;KCN	10	1.85E-06

-0.1034425	cg22646937	KCNMB1;KCN	5	0.011648298
-0.1114486	cg03291996	KCNMB2;KCN	3	0.00070167
-0.22751	cg07830086	KCNN1	19	3.09E-06
-0.1530914	cg05343739	KCNN3;KCNN	1	0.001124295
-0.1610407	cg23750514	KCNQ1;KCNC	11	6.17E-05
-0.1352486	cg12776287	KCTD1;KCTD	18	0.026599141
-0.1058756	cg24193140	KCTD16	5	0.000589408
-0.1255908	cg06254425	KCTD2	17	0.034477546
-0.1538069	cg21400851	KCTD2	17	0.003158336
-0.1273683	cg26475911	KCTD2	17	0.000223793
-0.1132102	cg01678472	KCTD2	17	0.009528462
-0.1333631	cg10016358	KCTD2	17	5.08E-07
-0.1133436	cg09185884	KCTD2	17	0.003368554
-0.1229417	cg09175485	KDM2A;KDM	11	0.013043488
-0.1490034	cg19764940	KDM4B	19	0.002529136
-0.1142076	cg21031917	KHDRBS2	6	0.014271275
-0.1135371	cg24471894	KIAA0020	9	0.016997002
-0.1387753	cg03535079	KIAA0146	8	0.044004685
-0.1260189	cg16328023	KIAA0895;KI	7	0.028186025
-0.1102751	cg00101629	KIAA1026;KI	1	0.010471399
-0.1274779	cg26526047	KIAA1217	10	0.021876351
-0.1356302	cg07814122	KIAA1467	12	0.007276414
-0.1058431	cg08908131	KIAA1598;KI	10	0.001282329
-0.1595234	cg11165619	KIAA1644	22	0.000457471
-0.1462584	cg17889356	KIAA1671	22	0.006911462
-0.1331355	cg02790458	KIAA1683;KI	19	0.003251176
-0.137255	cg01413582	KIAA1949;KI	6	0.007233891
-0.1152391	cg11554650	KIAA1949;KI	6	0.000901201
-0.1503987	cg18427856	KIAA1949;KI	6	0.012771384
-0.1081103	cg00278359	KIAA1949;KI	6	0.001260378
-0.1071142	cg12105190	KIAA1949;KI	6	0.001964579
-0.1024095	cg12036303	KIAA1949;KI	6	0.004566792
-0.1621991	cg01662942	KIF1A	2	0.004724451
-0.1068068	cg17500202	KIF1A	2	0.000308815
-0.1368884	cg12468119	KIF26A	14	0.027601907
-0.1136585	cg01078772	KIF3B	20	0.000403289
-0.1120074	cg17275551	KIF6	6	9.82E-06
-0.1361503	cg16429725	KIFC3;KIFC3;I	16	5.35E-06
-0.1049452	cg17422915	KIRREL3;KIRF	11	4.96E-05
-0.1280485	cg07171504	KLF10;KLF10	8	0.000163045
-0.1055747	cg06724409	KLF6;KLF6;KL	10	6.42E-05
-0.112276	cg24074448	KLHL26	19	1.53E-05
-0.135362	cg13168117	KLHL30	2	0.000564104
-0.1038886	cg15792367	KLK11;KLK11	19	0.027136001
-0.1191272	cg05377120	KLRD1	12	0.000250061
-0.134728	cg00033834	KNDC1	10	0.009814268

-0.1919882	cg20063450	KRT32	17	0.000401143
-0.1602008	cg19092735	KRT80;KRT8C	12	0.002815188
-0.1581495	cg11051139	KRT80;KRT8C	12	0.010875201
-0.1467904	cg07925587	KRT80;KRT8C	12	0.009935931
-0.1289954	cg14588606	KRTAP1-5	17	0.008392504
-0.1100583	cg19055323	KRTAP4-1	17	0.010032752
-0.1148668	cg03041510	LAMB1	7	0.033189324
-0.1414877	cg07168232	LAMB3;LAMI	1	0.00032747
-0.1108745	cg22809683	LAMC1	1	0.003301155
-0.1032026	cg18030943	LAMP3	3	0.002787667
-0.116333	cg20645232	LARP6;LARPE	15	0.005696888
-0.137759	cg21211645	LARS2	3	4.79E-06
-0.1359322	cg18793512	LBH	2	0.016748449
-0.1079415	cg02379079	LBP	20	0.001452178
-0.1010438	cg08895932	LCE1C	1	0.03379578
-0.100652	cg10991454	LCLAT1;LCLA	2	0.015766612
-0.1037477	cg06818159	LDB2;LDB2	4	0.042478589
-0.1320637	cg19286437	LDB3;LDB3;L	10	0.000599864
-0.1299111	cg06180729	DLRAD3	11	0.000465399
-0.1590105	cg15466952	LEPR;LEPR;LE	1	0.003281388
-0.1969806	cg18072282	LGALS2	22	0.029638053
-0.163034	cg08962888	LGALS3BP	17	0.040437541
-0.154848	cg27110877	LHFPL2	5	0.016180639
-0.1217021	cg26658897	LHFPL2	5	0.017534636
-0.1077261	cg21525176	LHFPL2	5	0.000292125
-0.1033537	cg05497253	LHFPL2	5	1.76E-05
-0.1162347	cg16326367	LHFPL2	5	0.000112048
-0.1404411	cg13420848	LHX9;LHX9	1	0.010547386
-0.1038693	cg08463788	LHX9;LHX9	1	0.031984492
-0.1171392	cg06661450	LHX9;LHX9	1	0.015700627
-0.1333427	cg05365532	LILRB1	19	0.005529764
-0.1244702	cg01761729	LIMS2;LIMS2	2	8.24E-06
-0.1535911	cg27307975	LIPC	15	0.001811904
-0.1241612	cg12581682	LIPC	15	0.000143421
-0.1191094	cg20701183	LMO4	1	0.021307147
-0.1085315	cg04757411	LMO7	13	0.017470581
-0.1011078	cg26400954	LMO7	13	0.000773305
-0.1060395	cg18560915	LNX1	4	0.004816627
-0.1280873	cg12303160	LNX1;LNX1	4	0.001492235
-0.1257799	cg18052274	LOC1001267	11	0.040064911
-0.1224144	cg05003908	LOC1001302	8	0.020902791
-0.1034333	cg20756245	LOC1001308	4	0.010352099
-0.1048683	cg00130808	LOC145845	15	0.006294914
-0.1051658	cg11965311	LOC145845	15	0.03631063
-0.107611	cg06451900	LOC145845	15	0.014885338
-0.1131864	cg02938422	LOC255025	3	0.035640972

-0.1119723	cg00945409	LOC283050;L	10	0.018925506
-0.1368828	cg07092135	LOC285419;L	4	0.002138024
-0.118481	cg09483595	LOC285627	5	0.043771663
-0.1008485	cg27250427	LOC285768;L	6	1.65E-06
-0.1811198	cg01751584	LOC286359	9	0.034824446
-0.1147602	cg01277890	LOC389333	5	0.000200353
-0.1637246	cg05487507	LOC404266;L	17	0.021858677
-0.1609379	cg15908709	LOC404266;L	17	0.038818226
-0.1005912	cg24550933	LOC441897	1	0.000155381
-0.1910859	cg00071887	LOXL1	15	0.000246542
-0.138429	cg02524983	LPP;LPP;LPP	3	0.008889067
-0.159321	cg00902153	LPP;LPP;LPP	3	0.001365946
-0.1116484	cg02044895	LPXN;LPXN;L	11	0.021383482
-0.2003722	cg18454510	LRFN2	6	4.32E-05
-0.10901	cg18005280	LRIG1	3	0.011694247
-0.1081473	cg03678566	LRP5	11	0.003615508
-0.1013907	cg25366155	LRP5	11	0.020741254
-0.1033482	cg19204693	LRP5	11	0.002214005
-0.1100733	cg09670263	LRRC2;LRRC2	3	5.03E-05
-0.1195424	cg05076755	LRRC32;LRRC	11	0.036546542
-0.1046464	cg04348023	LRRC7;PIN1L	1	0.005792559
-0.1260137	cg26233651	LRRC8C	1	0.001029239
-0.1185891	cg19497511	LRRFIP1;LRRF	2	0.002344105
-0.11012	cg15819128	LRRFIP1;LRRF	2	0.045579379
-0.1027167	cg14340889	LTBP2	14	0.000251572
-0.1391848	cg03491087	LTBP2	14	0.002542208
-0.1463575	cg16056219	LTBP2	14	0.000513836
-0.1821927	cg25298596	LUM	12	0.003271439
-0.1875842	cg14276794	LYVE1	11	0.000745288
-0.12796	cg26864766	MACF1;MAC	1	0.038546185
-0.1272314	cg27292099	MACF1;MAC	1	0.00019977
-0.1189459	cg00502509	MAD1L1;MA	7	0.00142078
-0.1062548	cg27109748	MAD1L1;MA	7	0.000532616
-0.1116224	cg04277993	MAEA;MAEA	4	0.001342398
-0.1326723	cg00575665	MAFB;MAFB	20	0.005627745
-0.1248342	cg14649449	MAMDC2	9	0.00023493
-0.106583	cg01093786	MAML2	11	0.017692389
-0.1420379	cg15521790	MAML2	11	0.001424322
-0.1040771	cg23206160	MAML3	4	0.020557993
-0.129863	cg03597159	MAML3	4	0.000272007
-0.1076694	cg08880153	MAP1A	15	0.00040458
-0.1158774	cg14573876	MAP2K2	19	0.02809595
-0.1079839	cg14321936	MAPKAPK3	3	0.005507364
-0.1037361	cg16805068	MAPRE1	20	0.004601226
-0.1208077	cg13963033	MARCH3	5	0.027567175
-0.1076944	cg02224164	MARS	12	0.000217662

-0.1260042	cg25818109	MASP1	3	0.004391788
-0.1446439	cg16762684	MBP;MBP	18	0.043077156
-0.1005482	cg24446429	MBP;MBP	18	0.009081216
-0.1091531	cg22422251	MCC;MCC	5	0.003311419
-0.1481762	cg06062378	MCC;MCC	5	0.015227466
-0.1399603	cg08213909	MCC;MCC	5	0.000243837
-0.1096186	cg23668581	ME3;ME3;MI	11	0.013845726
-0.1050058	cg14572252	MECOM	3	0.014157995
-0.1041684	cg04754652	MED12L;GPR	3	0.022652347
-0.1229861	cg05689413	MED20	6	0.025129614
-0.1504282	cg19390582	MED26	19	0.005573739
-0.1167454	cg03301498	MED29	19	0.01156845
-0.115908	cg03919650	MEFV	16	0.034280915
-0.1020817	cg26846864	MEFV	16	0.000756031
-0.1013076	cg01909364	MEOX1;MEO	17	0.000159318
-0.1121594	cg11056055	MET;MET	7	0.001558637
-0.1467594	cg24197567	MET;MET	7	0.00051766
-0.1484035	cg02633149	METRNL	17	0.002405086
-0.11505	cg19306948	MFAP2;MFAI	1	0.007353717
-0.1071493	cg17744878	MFAP2;MFAI	1	0.024415526
-0.1167658	cg12695612	MFAP2;MFAI	1	0.000218031
-0.1501556	cg08477744	MFAP2;MFAI	1	0.000353369
-0.1088266	cg07086226	MFSD7	4	8.41E-06
-0.1050293	cg06040925	MFSD9	2	0.004178968
-0.1019217	cg01476044	MGAM	7	0.002326914
-0.1096777	cg17376299	MGAT5B;MG	17	0.000574146
-0.108419	cg10435609	MGC27382	1	0.000305871
-0.118736	cg16027775	MGLL;MGLL	3	0.000481276
-0.1183457	cg22575127	MGMT	10	0.000511988
-0.1400267	cg03421014	MGST2	4	0.008707287
-0.1217234	cg03821121	MICAL2	11	0.029627362
-0.1565174	cg09371112	MICAL2	11	4.75E-05
-0.1150198	cg02614016	MINPP1	10	0.001512188
-0.1334657	cg24199384	MIPEP	13	0.00191677
-0.1170438	cg02206323	MIR1180;B9I	17	0.000668212
-0.1241568	cg22492271	MIR1200;ELN	7	0.00917043
-0.1096712	cg07018107	MIR1208	8	0.014338604
-0.122819	cg19312305	MIR122	18	0.001433468
-0.1194443	cg15759721	MIR21	17	0.019463215
-0.1311076	cg04276626	MIR21	17	3.91E-06
-0.123927	cg02515217	MIR21	17	0.002388453
-0.1110938	cg03184776	MIR2117	17	0.002706772
-0.1139059	cg25687874	MIR2117	17	0.000234229
-0.1544778	cg06961429	MIR329-2	14	0.001674676
-0.1107827	cg11780042	MIR329-2	14	0.005994218
-0.119409	cg26664528	MIR548H4;N	15	0.000155903



-0.11471	cg20587874	MIR548N	2	0.010798128
-0.1049748	cg04811592	MITF;MITF	3	0.00013906
-0.1272798	cg05632420	MKLN1;FLJ43	7	0.004295214
-0.1047584	cg10085326	MMP13	11	0.002455849
-0.1170024	cg24938761	MOBKL2A	19	0.015917143
-0.1563401	cg14643264	MOBKL2B	9	0.039844021
-0.1525479	cg11027707	MON1A;MOI	3	0.01540203
-0.1207364	cg01422009	MPG	16	0.000327845
-0.1253794	cg18936620	MPL	1	0.029918335
-0.1112006	cg17327331	MPP5	14	0.000109944
-0.1024966	cg02543159	MPPED1	22	0.005273124
-0.1132261	cg11733958	MPRIIP;MPRII	17	0.00724137
-0.1412911	cg03289072	MRC2	17	0.006431636
-0.1191321	cg23882131	MRGPRF;MR	11	0.001410566
-0.1474804	cg13734833	MRGPRF;MR	11	0.000458121
-0.1358905	cg19716170	MRPL19	2	0.024138776
-0.1200058	cg04713108	MRPS30	5	0.000879469
-0.1012389	cg26966828	MSRA;MSRA	8	0.0006122
-0.145724	cg16773768	MSRA;MSRA	8	0.000562384
-0.1385444	cg00791074	MTHFD1L	6	0.000450965
-0.1199128	cg20694147	MTHFD2;MT	2	0.001521985
-0.1235238	cg11750962	MTOR	1	0.001346819
-0.1278459	cg05013438	MTSS1	8	0.002160293
-0.1336117	cg09351308	MVD	16	0.006880224
-0.130354	cg25368647	MXD3;MXD3	5	0.010524949
-0.1249843	cg12583369	MYCL1;MYCL	1	0.000606677
-0.1550688	cg00421089	MYH1	17	0.009268759
-0.1543175	cg20482145	MYH10	17	0.000221885
-0.1049742	cg26086902	MYH13	17	9.10E-07
-0.1663925	cg19611163	MYLK;MYLK;l	3	0.006302431
-0.1159469	cg01894985	MYLK;MYLK;l	3	0.001741661
-0.1030834	cg06742628	MYO10	5	0.002367785
-0.141542	cg06844526	MYO1B;MYO	2	0.028246161
-0.1233459	cg12404831	MYO1B;MYO	2	0.000221568
-0.1010572	cg02920604	MYO1E	15	0.00139102
-0.1341826	cg17430370	MYO3B;MYO	2	0.00047641
-0.1237721	cg02589604	MYT1L	2	0.000790082
-0.1504985	cg18700744	NAA25	12	6.93E-05
-0.1078442	cg06934394	NALCN	13	0.000981512
-0.1479435	cg08468577	NAP1L4	11	0.004038049
-0.1201873	cg05312104	NAV2	11	2.17E-05
-0.1077029	cg02849401	NAV2	11	0.009503409
-0.1342316	cg14534803	NAV2	11	5.15E-05
-0.1051452	cg18422632	NAV2	11	2.31E-06
-0.1284039	cg02959112	NBL1;NBL1	1	0.000159769
-0.1080121	cg06389574	NCKAP5;NCK	2	0.021883179

-0.1807598	cg27431877	NCOR2;NCOF	12	0.005112924
-0.1490338	cg12157156	NCOR2;NCOF	12	3.02E-05
-0.1075878	cg04804139	NCOR2;NCOF	12	4.34E-05
-0.1543718	cg11798406	NCRNA00114	21	0.006972796
-0.1388055	cg21327826	NDOR1;NDO	9	0.012182763
-0.13874	cg09028166	NDST1	5	0.000944702
-0.1386561	cg04436964	NDUFS2;ADA	1	0.00040458
-0.1366553	cg17280514	NEU4;NEU4;l	2	0.000589694
-0.1285907	cg14247287	NEURL3	2	0.001384761
-0.1134485	cg14557268	NF1;NF1	17	0.00100609
-0.1104793	cg10186605	NF1;NF1	17	0.002515451
-0.1098857	cg14193653	NFIL3	9	0.018556062
-0.1070126	cg14290576	NFIL3	9	5.04E-06
-0.1065911	cg25309493	NGEF	2	0.000106516
-0.1042515	cg04237618	NGF	1	0.000424824
-0.1021031	cg11087503	NID2	14	0.001448836
-0.1259001	cg16303048	NID2	14	0.017209964
-0.1093938	cg24575128	NISCH	3	0.022027448
-0.1585376	cg03029752	NLRX1;NLRX:	11	8.64E-06
-0.1098023	cg14520913	NNMT	11	0.003257212
-0.1099833	cg18367578	NNMT	11	0.000574102
-0.1039621	cg03250947	NOTCH4	6	0.034796026
-0.1096218	cg21609584	NPAS2	2	0.005095591
-0.1031274	cg06850660	NPFF	12	0.016682258
-0.1345044	cg07813275	NPL	1	0.006850057
-0.1332488	cg26647771	NPR3	5	3.84E-05
-0.1245867	cg19321696	NPS	10	0.019343683
-0.1620025	cg17826834	NR2F2	15	0.036390997
-0.149931	cg02853418	NR5A1	9	0.002372595
-0.1301691	cg23964820	NRG1	8	0.045552659
-0.153693	cg17519477	NRG3;NRG3;	10	0.002922015
-0.1093663	cg14157435	NRP2;NRP2;f	2	0.006015595
-0.111438	cg11114141	NRP2;NRP2;f	2	3.86E-05
-0.1333771	cg06285439	NRP2;NRP2;f	2	0.002083658
-0.1068794	cg19731541	NRP2;NRP2;f	2	0.009818796
-0.1049968	cg26422981	NRP2;NRP2;f	2	4.71E-07
-0.1073776	cg08623810	NRXN2;NRXN	11	0.000135636
-0.1505749	cg00925339	NT5E	6	0.021703122
-0.1365672	cg12445309	NTM	11	0.001659997
-0.1140473	cg15370309	NTN1	17	0.000372302
-0.1334348	cg17410313	NUB1	7	0.001868748
-0.1363422	cg03287527	NUBP1	16	0.00019509
-0.1834655	cg08306614	NUDCD3	7	6.99E-06
-0.170423	cg25505880	NXF1;NXF1	11	0.01225008
-0.1573745	cg18618206	NXN	17	0.001180491
-0.1507259	cg25364619	NXN	17	0.002405086

-0.1467828	cg19987768	NXN	17	0.001946274
-0.1361737	cg08520443	NXN	17	0.01121819
-0.1351833	cg18760502	NXN	17	0.000191625
-0.1328047	cg26713109	NXN	17	0.002205026
-0.1250708	cg24355809	NXN	17	0.000335854
-0.1239207	cg13383734	NXN	17	0.002598206
-0.1199264	cg08510234	NXN	17	0.002478442
-0.1168821	cg22237425	NXN	17	0.002916976
-0.1156316	cg27147785	OAS2;OAS2;C	12	0.005908385
-0.1118806	cg15714223	ODZ4	11	0.004039173
-0.1115923	cg09966895	ODZ4	11	0.000110917
-0.1098989	cg04256834	OPCML;OPCM	11	0.00044616
-0.2363537	cg12646029	OR2H1	6	0.000308651
-0.1450984	cg02211735	OR52A4	11	0.006165672
-0.1433354	cg23228178	PADI4	1	0.002571641
-0.1360048	cg01923775	PALLD;PALLD	4	0.000880091
-0.1358435	cg15542639	PANX1	11	0.003178218
-0.1346792	cg24101009	PANX1	11	7.57E-05
-0.1270922	cg19017553	PARD3	10	0.002587583
-0.1162549	cg15459822	PARD3B;PAR	2	0.041700585
-0.1031848	cg20765408	PARP4	13	0.01272047
-0.1022897	cg01997270	PARVB	22	0.020530085
-0.1104197	cg11163555	PATZ1;PATZ1	22	0.026588839
-0.1297102	cg26558862	PBRM1;PBRM	3	5.63E-05
-0.1188575	cg15690379	PBRM1;PBRM	3	1.65E-05
-0.1224017	cg27149567	PCBP3;PCBP3	21	0.007572043
-0.1059367	cg02006915	PCDH24	5	4.51E-05
-0.1597806	cg25600472	PCDHGA4;PC	5	0.000113598
-0.1013941	cg09075968	PCID2;PCID2;	13	3.48E-06
-0.1593253	cg14205864	PCID2;PCID2;	13	0.000116519
-0.1199028	cg27529037	PCIF1	20	0.002635811
-0.1125026	cg14009504	PCNX	14	0.010262974
-0.1282261	cg14453145	PDCD1	2	0.000287921
-0.1178444	cg06160606	PDE4B;PDE4I	1	0.000803324
-0.1499789	cg02711128	PDE4C;PDE4C	19	0.006109814
-0.11914	cg10505902	PDE4DIP;PDE	1	0.001398229
-0.1173559	cg06135425	PDE7B	6	0.004486356
-0.1123588	cg24777101	PDE7B	6	0.000261422
-0.1075225	cg22935422	PDE7B	6	9.91E-06
-0.1029876	cg20070933	PDGFA;PDGF	7	0.002076945
-0.1532623	cg05892024	PDGFA;PDGF	7	0.023604176
-0.1709079	cg24240349	PDGFA;PDGF	7	0.002406298
-0.1359449	cg20063728	PDGFA;PDGF	7	4.42E-05
-0.1224816	cg15957807	PDGFC	4	0.000766326
-0.1089502	cg08284233	PDILT	16	0.045232082
-0.1126493	cg13242090	PDLIM1	10	0.016684728

-0.1196682	cg02484352	PDLIM4;PDLI	5	6.93E-05
-0.1317179	cg00653870	PDLIM7;PDLI	5	1.04E-05
-0.1311414	cg20210051	PDZRN4;PDZ	12	0.033627689
-0.2137924	cg09026722	PEAR1	1	0.000354599
-0.1236029	cg17468855	PEX10;RER1;	1	0.000355121
-0.1131031	cg07875121	PFDN1	5	0.000297797
-0.1125574	cg27355501	PFDN6;WDR4	6	0.009390783
-0.1294739	cg08994060	PFKFB3	10	0.016046382
-0.1428938	cg26262157	PFKFB3	10	0.034844488
-0.1227867	cg05014727	PFKFB3	10	0.020787632
-0.1135591	cg17185622	PGCP	8	0.001302932
-0.1138879	cg22669656	PGS1	17	0.00028204
-0.1069228	cg09063835	PHACTR3	20	0.00825849
-0.1000293	cg25631489	PHC3	3	0.009033992
-0.1393721	cg16213217	PHF11;PHF11	13	0.00015813
-0.1170597	cg05476182	PHF15	5	2.39E-06
-0.1130652	cg21723559	PIGT	20	0.00225296
-0.1968319	cg15021292	PIK3R1	5	0.044705624
-0.1270942	cg14062643	PIP5KL1;PIP5	9	4.27E-07
-0.1727494	cg19910327	PIPSL	10	0.000383026
-0.1185447	cg05171952	PITX1	5	0.048018536
-0.1112363	cg09781994	PITX2;PITX2	4	0.032570554
-0.1115501	cg03184290	PITX2;PITX2	4	0.037475758
-0.1032868	cg19304088	PITX2;PITX2	4	0.01593518
-0.2067889	cg21726372	PITX2;PITX2;	4	0.032957179
-0.1832353	cg12858593	PIWIL2;PIWIL	8	0.021287665
-0.1350732	cg24960118	PKHD1;PKHD	6	0.000587378
-0.1096921	cg18981758	PLA2G6;PLA2	22	0.000491607
-0.1512694	cg09920804	PLAT;PLAT	8	0.001333438
-0.1265655	cg17168630	PLAUR;PLAUI	19	0.02497556
-0.103022	cg01846046	PLCB3	11	0.000265781
-0.1024503	cg12636785	PLD5	1	0.002224784
-0.1531565	cg02861056	PLEK;PLEK	2	0.02542234
-0.1210685	cg13060970	PLEK;PLEK	2	0.013828747
-0.1649248	cg10812236	PLEK;PLEK	2	0.048967347
-0.1317373	cg04872689	PLEK;PLEK	2	0.036319968
-0.1084841	cg02556345	PLEKHA1;PLE	10	0.001198195
-0.1055608	cg06349754	PLEKHG4;PLE	16	5.97E-05
-0.1046094	cg05155047	PLEKHG4B	5	0.005939186
-0.1233814	cg19774351	PLEKHG6;PLE	12	0.000152447
-0.125538	cg07533239	PLEKHG6;PLE	12	0.009102843
-0.1432935	cg11524454	PLEKHG7	12	0.004168179
-0.1308349	cg27583604	PLK3	1	0.000791053
-0.1202546	cg24291309	PLOD2;PLOD	3	0.000684396
-0.1224966	cg05652225	PLXDC1	17	0.0018195
-0.1554978	cg02895948	PLXNA2	1	1.85E-06

-0.1340808	cg21144009	PLXNA2	1	0.000339035
-0.1310387	cg01117384	PMEPA1;PMI	20	0.001471131
-0.1066893	cg00587342	PMM1	22	0.004445696
-0.1515355	cg27018309	PMM2	16	0.000106516
-0.1530927	cg25734089	PNMAL1;PNM	19	1.85E-05
-0.121912	cg22027204	PNPLA1;PNP	6	0.047832617
-0.17598	cg17921363	POFUT2;POF	21	0.046049461
-0.1425473	cg05673882	POLK	5	0.00572135
-0.1319279	cg16509336	POLR3A	10	0.012114382
-0.1299892	cg06738169	POP4;POP4	19	0.000571267
-0.1286874	cg24966958	POPDC2	3	0.008638995
-0.1038828	cg17311022	POPDC2	3	0.004293232
-0.1632529	cg10955995	PPARGC1A	4	0.001707833
-0.1574823	cg01192554	PPFIA1	11	0.001691719
-0.1077417	cg24376793	PPP1R12B;PF	1	9.30E-05
-0.1375149	cg03478610	PPP2R3A	3	0.010631309
-0.1645797	cg19948457	PPP3CA;PPP3	4	0.049179277
-0.1014126	cg19064302	PRDM1	6	0.0077635
-0.1000174	cg03527274	PRDM16;PRC	1	0.028911322
-0.1585329	cg24256745	PRDM16;PRC	1	0.016988039
-0.1250081	cg17861161	PRDM16;PRC	1	0.001888594
-0.1362479	cg24878051	PRDM16;PRC	1	0.011922837
-0.1166135	cg04974499	PRDM16;PRC	1	1.44E-05
-0.1235566	cg01647724	PRDM16;PRC	1	0.000634757
-0.1791402	cg27544405	PRDM2;PRDM	1	0.001968733
-0.1791254	cg09560763	PRDM8	4	0.003644673
-0.1651754	cg20584157	PRICKLE2	3	0.007740258
-0.158671	cg07650392	PRICKLE2	3	0.042253061
-0.1249049	cg03567939	PRKAG2;PRK	7	3.24E-05
-0.1132986	cg08265392	PRKAG2;PRK	7	0.001456402
-0.1058379	cg06728793	PRKAR1B;PRI	7	0.041408501
-0.101242	cg10117599	PRKAR1B;PRI	7	0.037327012
-0.2075793	cg04733951	PRKCA	17	0.002477677
-0.1081491	cg04961042	PRKD1	14	0.02606354
-0.1624187	cg18594724	PRKG1;PRKG	10	0.008000206
-0.1208182	cg02026306	PRMT1;PRMT	19	3.33E-06
-0.1009355	cg19407392	PRNP;PRNP;F	20	5.35E-05
-0.107313	cg04286737	PRNP;PRNP;F	20	1.01E-05
-0.1015947	cg14055655	PRR12	19	4.52E-05
-0.1322167	cg02630628	PRR12	19	0.003886032
-0.1133162	cg05348216	PRSS16	6	0.012529473
-0.1001679	cg17522935	PRX;PRX	19	7.30E-05
-0.1008176	cg25875163	PSCA	8	0.002062201
-0.1794551	cg18369034	PTGDR	14	0.00025272
-0.1546678	cg16060930	PTGFRN	1	0.045083249
-0.1296238	cg14176942	PTGS1;PTGS1	9	0.018603039

-0.1286412	cg11641102	PTK2B;PTK2E	8	0.012294274
-0.1249978	cg20386404	PTPN14	1	0.027982234
-0.1241436	cg07986469	PTPRE	10	0.013835322
-0.1099116	cg00238353	PTPRE	10	0.012269102
-0.1183929	cg19688761	PTPRE	10	0.028724023
-0.1002069	cg07215975	PTPRE	10	0.00638741
-0.1542484	cg00974944	PTPRG	3	0.005095886
-0.1491487	cg18411660	PTPRN2;PTPF	7	0.000312949
-0.1419814	cg22128328	PTPRN2;PTPF	7	0.012383621
-0.1168386	cg00235442	PTPRN2;PTPF	7	0.011740381
-0.1079311	cg09365094	PTPRN2;PTPF	7	0.000314632
-0.1057829	cg26075259	PTPRN2;PTPF	7	0.010424711
-0.1948815	cg22950899	PTPRS;PTPRS	19	0.003306987
-0.1283408	cg08462941	PTPRS;PTPRS	19	0.000549295
-0.1141375	cg00499837	PVRL1;PVRL1	11	0.000634118
-0.1340004	cg26753608	PVT1	8	0.001858552
-0.1225939	cg08216099	PXDN	2	4.34E-05
-0.1669565	cg23018448	QTRT1	19	0.026387782
-0.1376764	cg10211776	RAB11FIP1;R	8	0.018258516
-0.1218589	cg02395396	RAB3B	1	1.52E-05
-0.1217147	cg17546817	RAB3C	5	0.025028524
-0.1228848	cg07437024	RAB40C	16	0.002930956
-0.1050369	cg25603108	RAD51L1;RAI	14	0.014000275
-0.1660195	cg00715197	RAD51L1;RAI	14	0.000116018
-0.2077738	cg19979896	RAET1E	6	0.009956236
-0.2042445	cg06205333	RAP1A;RAP1	1	0.046202694
-0.1463711	cg03727673	RAP1GAP;RA	1	0.004312181
-0.1461022	cg05492387	RAP1GDS1;R	4	0.005350326
-0.1192426	cg14576291	RAPGEF1;RAI	9	0.001184203
-0.1074645	cg21330727	RAPGEFL1	17	3.51E-05
-0.1535349	cg23518541	RARB;RARB	3	0.002826224
-0.1079344	cg14986890	RARRES1;RAI	3	0.00035991
-0.154696	cg21521758	RARRES2	7	0.001394535
-0.1159648	cg13643184	RASA3	13	0.002641526
-0.1068019	cg16087432	RASA3	13	0.001553122
-0.1009044	cg04402088	RASA3	13	1.45E-05
-0.1551651	cg10976218	RASA3	13	0.009742261
-0.1004068	cg16046375	RASA3	13	0.034280915
-0.1347058	cg03349935	RASL12	15	0.000194859
-0.1481058	cg10992219	RB1CC1;RB1C	8	0.022283539
-0.1197163	cg10582795	RBMS1;RBM!	2	0.006275632
-0.1119622	cg16258657	RBMS3;RBM!	3	0.00099782
-0.100239	cg19083007	RCAN2	6	0.011957456
-0.1438259	cg26017874	REG4;REG4	1	0.002187688
-0.1293895	cg24021846	RELN;RELN	7	0.025115349
-0.118823	cg13474998	RFT1	3	0.00034221

-0.1036888	cg11184109	RFT1	3	0.022662418
-0.1024713	cg17851046	RFX4	12	0.03098425
-0.1129022	cg24896460	RGNEF	5	0.011044023
-0.1664125	cg06357908	RGS1	1	0.012340073
-0.1038619	cg15611912	RGS10	10	0.009209982
-0.1215142	cg18944752	RGS12;RGS1	4	0.000182719
-0.1227943	cg05111779	RGS6	14	0.013864729
-0.1117212	cg12412775	RHCE;RHCE;F	1	1.13E-05
-0.1213641	cg06674117	RHOT1;RHOT	17	0.000102846
-0.1208141	cg06002952	RICS	11	0.000119306
-0.160895	cg03512414	RIN2	20	0.000786071
-0.1556586	cg15487725	RNASE8	14	0.034606009
-0.1352122	cg01715025	RNF115	1	0.007428987
-0.1021804	cg03191504	RNF149	2	0.000424511
-0.1105893	cg03577157	RNU5E;SSBP	5	0.037219187
-0.1034989	cg03572680	ROBO4	11	0.001089496
-0.1104364	cg06100161	RORA	15	0.033865242
-0.1281206	cg06191571	RPL21P44	4	9.28E-06
-0.1093152	cg03849851	RPS6KA2;RPS	6	8.99E-05
-0.1433699	cg24667756	RPTOR;RPTO	17	0.005570396
-0.1176466	cg26932790	RRN3P1	16	1.50E-05
-0.1072054	cg12132508	RRP15	1	0.000733666
-0.2074416	cg24249648	RSPH3	6	9.71E-05
-0.1166225	cg08432509	RTEL1;RTEL1	20	2.25E-05
-0.1002035	cg06586763	RUNDC2C	16	0.007016496
-0.1175875	cg05973398	RUNX1	21	0.033343969
-0.1066895	cg15091747	RUNX1	21	0.011006084
-0.1117455	cg08443845	RUNX1	21	0.006155725
-0.1676821	cg13030790	RUNX1;RUN	21	0.000502932
-0.1063143	cg01519261	RUNX1;RUN	21	0.007158023
-0.1152767	cg04915566	RUNX1;RUN	21	0.004617799
-0.1842887	cg16943019	RYK;RYK	3	0.000704546
-0.1469336	cg13445177	S100A10	1	0.000100449
-0.1228502	cg18273417	S100A4;S100	1	0.001910105
-0.1060414	cg13091627	S100A4;S100	1	0.020277761
-0.1036877	cg24691453	S100A4;S100	1	0.007943708
-0.1339742	cg01411912	S100A4;S100	1	0.000307159
-0.109968	cg26303281	S100A5	1	0.003399486
-0.1205936	cg00002646	S100A5	1	8.93E-05
-0.1096191	cg21217846	S100A5	1	0.000904598
-0.1406894	cg15484375	SAA1;SAA1	11	0.047017397
-0.1562234	cg14921326	SAMD12	8	0.00228189
-0.1349971	cg17018082	SAMD12;SAM	8	0.031140684
-0.121076	cg17069828	SAMD12;SAM	8	5.91E-05
-0.1407686	cg15473329	SAMD4B	19	2.15E-05
-0.1738909	cg20938708	SAP30BP	17	0.000586881

-0.1779802	cg16640450	SASH1	6	0.0150566
-0.1962697	cg09680149	SCNN1A	12	0.001043048
-0.1186685	cg03033182	SCOC	4	0.000843463
-0.1276365	cg06968788	SDC4P	22	0.000465399
-0.1155359	cg21482176	SDCCAG10	5	0.012142941
-0.1006951	cg00295780	SDCCAG8	1	0.021842455
-0.1602088	cg16250868	SDK1	7	0.011933901
-0.1463573	cg27262821	SEC1	19	1.33E-05
-0.1731044	cg10167316	SEC61A1	3	0.000719259
-0.1249112	cg24599709	SELI	2	0.031484549
-0.1380638	cg05343289	SELP	1	1.07E-05
-0.1399139	cg11344744	SEMA4C	2	0.002454015
-0.1072713	cg01477253	SEMA4F	2	0.001022547
-0.1481727	cg17679604	SEMA6A	5	0.024583702
-0.1067945	cg05474605	SEPP1;SEPP1	5	0.033782185
-0.1340257	cg04548336	SEPT9	17	0.047553443
-0.1190556	cg12098949	SEPT9;SEPT9	17	0.003669024
-0.2925689	cg03909356	SEPT9;SEPT9	17	0.000463451
-0.2362521	cg14773822	SEPT9;SEPT9	17	0.006366548
-0.2245072	cg01292299	SERGEF	11	0.000233842
-0.1212322	cg01231381	SESTD1	2	0.01061224
-0.1121254	cg00864954	SF3B3	16	3.13E-05
-0.12167	cg16536739	SFRP5	10	8.22E-05
-0.1053085	cg20054157	SFTA1P	10	0.014276696
-0.1346863	cg11059873	SGCD;SGCD;S	5	2.26E-06
-0.1177984	cg09404376	SGK1;SGK1	6	0.018832671
-0.1108743	cg08640361	SGK1;SGK1;S	6	0.004470123
-0.1060791	cg01464186	SGMS1	10	0.000357215
-0.1933031	cg19189864	SH3PXD2A	10	0.019738949
-0.1020367	cg23786152	SH3PXD2A	10	0.000804719
-0.1911807	cg07168060	SH3PXD2A	10	7.05E-06
-0.1420515	cg06888746	SH3PXD2A	10	0.011052566
-0.1165702	cg18135683	SH3PXD2B	5	0.015199153
-0.1000861	cg16572224	SH3PXD2B	5	0.001858092
-0.176019	cg05168015	SH3PXD2B	5	0.003064742
-0.1359096	cg07576525	SHANK3	22	0.000336124
-0.117844	cg04503593	SHROOM3	4	0.002293192
-0.1178286	cg11615509	SHROOM3	4	0.009142192
-0.1150605	cg27417997	SHROOM3;SI	4	0.025434556
-0.1697962	cg12013571	SIGLEC12	19	0.040564623
-0.1876481	cg10682155	SIM2	21	0.012768493
-0.1365046	cg14972228	SIPA1L3	19	1.03E-05
-0.1102293	cg07862461	SIRPA;SIRPA;	20	0.000166873
-0.1113118	cg09936839	SIRT6;ANKRC	19	1.57E-05
-0.1769927	cg22845912	SLA;TG;SLA;S	8	0.00040578
-0.1477058	cg04275881	SLAMF8	1	0.037952891



-0.1431696	cg06764092	SLAMF8;SLAI	1	0.034083429
-0.1469429	cg21301505	SLAMF8;SLAI	1	0.007836022
-0.1151619	cg07625783	SLAMF8;SLAI	1	0.006675243
-0.108111	cg26417912	SLAMF9;SLAI	1	0.000360517
-0.1290636	cg20872692	SLC11A2	12	0.010088769
-0.1065174	cg00087274	SLC12A8	3	0.000205978
-0.1348818	cg13844463	SLC1A2	11	0.035112979
-0.1106319	cg25475999	SLC1A2	11	0.000458663
-0.1196093	cg21818891	SLC1A2	11	0.000416953
-0.1143829	cg07254421	SLC1A3;SLC1	5	0.013668083
-0.1226792	cg00532936	SLC1A7	1	0.009580074
-0.2248931	cg26137286	SLC22A18;SL	11	0.032557882
-0.1144632	cg16087826	SLC22A4	5	0.001710793
-0.1133046	cg19040266	SLC22A5	5	0.009498874
-0.1409361	cg16547579	SLC23A2;SLC	20	0.004529848
-0.1932816	cg19811934	SLC24A4;SLC	14	0.021500518
-0.1031126	cg16267322	SLC24A4;SLC	14	4.01E-05
-0.1089059	cg20554277	SLC25A21;SL	14	0.02261037
-0.1570367	cg26801445	SLC25A37	8	0.001554325
-0.1344827	cg20207276	SLC25A37	8	0.000543212
-0.1276973	cg07659624	SLC25A37	8	7.53E-05
-0.1227286	cg14646244	SLC26A4;LOC	7	0.004182972
-0.1201084	cg12302621	SLC28A1;SLC	15	0.010411738
-0.1121932	cg21145248	SLC34A1;SLC	5	0.003399486
-0.1065422	cg08454563	SLC35E4	22	0.000266325
-0.1054857	cg27406472	SLC38A10;SL	17	3.20E-05
-0.1605776	cg13990980	SLC39A9	14	7.21E-07
-0.2102929	cg12178904	SLC45A3	1	0.002378417
-0.1812132	cg04658357	SLC5A10;SLC	17	9.99E-07
-0.1084436	cg00472281	SLC6A19	5	0.010635994
-0.1013246	cg10586672	SLC6A6;SLC6	3	0.001679478
-0.1692135	cg15155209	SLC6A6;SLC6	3	3.20E-05
-0.1598297	cg15454698	SLC6A6;SLC6	3	0.040507986
-0.1530738	cg03987842	SLC7A6;SLC7	16	0.000350779
-0.1497487	cg19015847	SLC8A1;SLC8	2	0.001263632
-0.1366197	cg08780166	SLC8A1;SLC8	2	5.08E-05
-0.1148056	cg20816789	SLC9A1	1	3.06E-05
-0.1081287	cg13408795	SLC9A9	3	0.045215402
-0.1276243	cg27132471	SLCO3A1;SLC	15	0.001548324
-0.1040638	cg26168643	SLITRK5	13	0.025232497
-0.1026881	cg16476427	SLN	11	0.00091675
-0.1029373	cg23480341	SLPI	20	0.015199968
-0.1135119	cg12379307	SMPDL3A	6	0.005487644
-0.1470968	cg27601574	SMTN;SMTN	22	7.24E-05
-0.1350355	cg10153733	SMU1	9	0.033374264
-0.1279074	cg11667301	SNORD70;NC	2	0.003178162

-0.1913101	cg22208536	SNX25	4	0.006749349
-0.1348757	cg03204907	SNX29	16	0.006652011
-0.1304665	cg17507897	SNX5;SNORD	20	0.010512471
-0.1391047	cg25804773	SORBS1;SORI	10	0.00052105
-0.1385676	cg01582937	SORBS3	8	0.001644819
-0.1387529	cg18431297	SORCS2	4	0.039031849
-0.1896563	cg14239983	SORL1	11	0.000833457
-0.1301064	cg11586591	SORL1	11	0.003856232
-0.1277884	cg05075579	SORL1	11	0.00628498
-0.1160376	cg17510957	SORL1	11	0.0150566
-0.1169946	cg06360527	SOX15	17	3.88E-05
-0.1142213	cg11606261	SP1;SP1	12	0.025190479
-0.1032142	cg05730975	SPAG16	2	0.000476674
-0.1139357	cg03394909	SPEG	2	6.36E-05
-0.1667915	cg22862112	SPINLW1;SPI	20	0.00270059
-0.1240845	cg05944260	SPOCD1	1	0.012922682
-0.1056447	cg12401953	SPOCK1	5	0.000114417
-0.1262949	cg03943115	SPRR2D	1	0.030249586
-0.1341667	cg10929758	SPTBN1;SPT	2	0.000123303
-0.1091928	cg21313830	SQRDL	15	2.22E-05
-0.1073182	cg01668352	SRGAP1	12	0.008956868
-0.1211537	cg10165689	SSBP3;SSBP3	1	0.03427285
-0.1169329	cg13909661	SSPN;SSPN	12	1.39E-05
-0.1087341	cg09586924	ST14	11	0.015462241
-0.1164334	cg22110158	ST14	11	0.00024126
-0.1295069	cg00640719	ST3GAL2	16	1.41E-05
-0.1195319	cg14624546	ST5;ST5;ST5	11	0.001055221
-0.1281271	cg08710564	ST5;ST5;ST5	11	0.000381663
-0.120001	cg08726522	ST5;ST5;ST5	11	0.013779776
-0.1014294	cg23195547	ST5;ST5;ST5	11	0.001842738
-0.102739	cg16777510	STAT5A	17	0.046382435
-0.1203043	cg26904169	STEAP2;STE	7	0.008348925
-0.110464	cg04439862	STIM2;STIM2	4	0.027795451
-0.120659	cg00913954	STK40	1	3.24E-05
-0.1076686	cg03328299	STOML1	15	1.05E-07
-0.1120755	cg12253931	STX18	4	0.004449093
-0.1288203	cg02770724	STX1A;STX1A	7	0.000154325
-0.1169296	cg01712428	STX1A;STX1A	7	0.000885129
-0.1146243	cg01225788	SULF1;SULF1	8	0.001333438
-0.1066757	cg18110822	SUMF1;SUM	3	0.010859514
-0.1036168	cg00850552	SUMO3	21	3.29E-05
-0.1288068	cg25743622	SUSD4	1	0.003416044
-0.1085	cg23601468	SYN3;SYN3;T	22	0.004291913
-0.1980566	cg09516930	SYNE1;SYNE1	6	0.005864775
-0.1364977	cg12002139	SYNJ2	6	0.001635745
-0.106513	cg00089453	SYNPO;SYNP	5	0.001126381

-0.1241446	cg11569478	SYNPO2;SYN	4	9.47E-05
-0.1071801	cg20515580	SYT12	11	0.028069865
-0.1453859	cg15731317	SYTL2;SYTL2;	11	0.021158277
-0.1314875	cg11065271	SYTL3	6	0.010866365
-0.1236881	cg02345321	TACC1	8	0.00055022
-0.1029102	cg16652855	TACC2;TACC;	10	0.001583247
-0.133911	cg09700337	TAOK3	12	0.0145843
-0.1394834	cg13693517	TASP1	20	0.025794221
-0.164974	cg20834178	TBC1D14;TBC	4	0.000586686
-0.1188829	cg15437231	TBC1D15;TBC	12	1.87E-05
-0.1195522	cg08455089	TBC1D22B	6	0.000100711
-0.1098309	cg15740507	TBC1D23	3	0.007733218
-0.127269	cg20893936	TBC1D8	2	0.001774731
-0.1779619	cg19016694	TBCD	17	0.005649433
-0.1499453	cg03683087	TCF7L2;TCF7	10	0.024542251
-0.1259415	cg24032269	TCOF1;TCOF:	5	0.00022332
-0.1217874	cg03709468	TDO2	4	6.99E-06
-0.1156921	cg02097120	TDRD10;TDR	1	1.84E-05
-0.1768962	cg09861057	TDRD10;TDR	1	0.000119091
-0.1242866	cg15805337	TEAD1	11	0.003182632
-0.1117154	cg21198586	TEAD1	11	3.91E-06
-0.1067233	cg16574643	TERT;TERT	5	0.013355487
-0.1163511	cg19208681	TEX14;RAD5:	17	0.037667108
-0.1712804	cg15339605	TFEC;TFEC;TF	7	0.033598593
-0.1129533	cg11947187	TG	8	0.002431222
-0.1209857	cg11883141	TG;SLA;SLA	8	0.00395003
-0.1029588	cg15735736	TGFB1	19	0.007375179
-0.1563233	cg05838308	TGFB1	5	0.002924916
-0.146213	cg21583694	TGFB1	5	0.001585583
-0.1121618	cg25769732	TGFBR3	1	0.015622526
-0.103103	cg00857921	TGFBR3	1	0.035375568
-0.1101248	cg20629315	THADA;THAC	2	0.022522267
-0.1014835	cg23105419	THADA;THAC	2	0.003502124
-0.1116682	cg03495053	THBS2	6	2.39E-05
-0.1167768	cg02255983	THOP1	19	4.82E-05
-0.1358889	cg19763108	THRB;THRB;T	3	0.002641526
-0.1165318	cg07536328	TIMM23	10	0.000981512
-0.1572876	cg00466492	TIMM44;CTX	19	0.008861342
-0.1378052	cg14255824	TJP2;TJP2;TJF	9	0.008293181
-0.1074575	cg02934719	TK2	16	0.002114719
-0.1329187	cg20956411	TLK1	2	0.0001366
-0.1249076	cg22839308	TLR1	4	0.00627354
-0.1514938	cg14578677	TLR6	4	0.008878201
-0.1543164	cg13314965	TM4SF19	3	0.026120798
-0.1247657	cg06285909	TMCO7	16	0.000793051
-0.1108633	cg06507678	TMED7-TICAI	5	0.008504995

-0.1162753	cg27641628	TMEM140	7	0.046911778
-0.1147985	cg07972322	TMEM140;TM	7	0.02606354
-0.128443	cg15139596	TMEM149	19	0.031806918
-0.1076452	cg04232128	TMEM173	5	0.002477677
-0.1321115	cg04969878	TMEM19	12	0.017030779
-0.1158728	cg02782634	TMEM49	17	0.000952637
-0.1280821	cg01409343	TMEM49	17	0.000280167
-0.1183872	cg14032089	TMEM49;MII	17	0.001883678
-0.1104732	cg19897979	TMEM50A	1	0.000128162
-0.2140792	cg10054641	TMEM71;TM	8	0.01687009
-0.1732848	cg23313885	TMEM71;TM	8	0.00933569
-0.1189896	cg14288903	TMEM95	17	0.020787632
-0.1193816	cg13672106	TMEM99	17	0.002357967
-0.100788	cg26673722	TMPRSS11A;	4	0.035993669
-0.112964	cg19974120	TMPRSS2;TV	21	2.22E-05
-0.1038546	cg17318719	TMPRSS4;TV	11	0.019899079
-0.1044164	cg06488678	TMPRSS9	19	0.000307206
-0.1362302	cg04264002	TNFAIP2;TNF	14	0.000153891
-0.1290279	cg02233197	TNFAIP8L3	15	0.01557142
-0.1053811	cg24427243	TNFRSF8	1	0.017710204
-0.1044057	cg18025409	TNFRSF9	1	0.015998899
-0.1242849	cg14153654	TNFRSF9	1	0.008534468
-0.1161977	cg02099194	TNFSF11;TNF	13	5.60E-05
-0.165862	cg00741986	TNIP2;TNIP2	4	0.000753173
-0.2175367	cg02481714	TNRC6B	22	0.022911595
-0.1757678	cg12338137	TNS1	2	0.005909596
-0.1204968	cg03204140	TNXB	6	0.001454598
-0.1108119	cg04344233	TNXB	6	0.000617911
-0.1004336	cg24504289	TNXB	6	1.23E-05
-0.1130011	cg11606877	TNXB	6	0.038731075
-0.1061006	cg23636802	TNXB	6	1.14E-05
-0.1187108	cg20152300	TNXB;TNXB	6	0.001213301
-0.1576917	cg03376089	TOM1L2;TOM	17	0.000375805
-0.1051633	cg24429974	TOMM40L	1	0.000212784
-0.1279368	cg07238439	TPCN1;TPCN	12	0.00423696
-0.1176205	cg20554822	TPH1	11	0.000599488
-0.1129009	cg22270364	TPM4;TPM4	19	0.000996286
-0.1168775	cg20168849	TPRG1	3	0.030145876
-0.1103	cg16704530	TRAF3IP2;TR	6	0.00024126
-0.1090396	cg11756029	TRAFD1;TRAI	12	0.011194967
-0.1160657	cg19143211	TRDN	6	0.001417305
-0.1389567	cg21328082	TREM1	6	0.014338701
-0.1192439	cg10981439	TREM1;TREM	6	0.029864486
-0.1087048	cg07507418	TRERF1	6	0.000138821
-0.1148893	cg05264377	TRERF1	6	0.000106049
-0.1259017	cg09103187	TRERF1	6	1.40E-05

-0.141758	cg14905634	TRHDE	12	0.000894923
-0.1156191	cg25746489	TRIM26	6	0.001975155
-0.1746767	cg14606478	TRIM26	6	0.000897454
-0.1170781	cg19365697	TRIM26	6	0.000594187
-0.1304413	cg14741870	TRIM26	6	0.000239079
-0.129264	cg01505556	TRIM26	6	4.86E-05
-0.1062468	cg01591152	TRIM29	11	2.96E-05
-0.1278789	cg22064048	TRIM59	3	0.004901893
-0.1051927	cg22510509	TRIM6	11	0.000378446
-0.1024895	cg21531038	TRIO	5	0.01081316
-0.165302	cg05590156	TRIO	5	0.01235598
-0.1235389	cg11421768	TRIP13	5	0.000362857
-0.1145467	cg17510385	TRIP13	5	0.000553047
-0.1081324	cg12705693	TRIP13	5	0.000303973
-0.1291704	cg01154966	TRPC4AP;TRF	20	3.84E-05
-0.1209307	cg03388266	TRPM8	2	2.66E-07
-0.1133015	cg26719625	TRPV2	17	0.008196842
-0.1519334	cg09093656	TRPV2	17	0.016779244
-0.106384	cg10122294	TSNAX-DISC1	1	0.004931991
-0.1015881	cg05946353	TSPAN10	17	0.002124755
-0.1330352	cg24328142	TSPAN15	10	0.001089496
-0.1278229	cg18247223	TSPAN18	11	9.75E-06
-0.1180875	cg12620005	TTC39A;TTC3	1	0.004934317
-0.1180178	cg02048220	TTC7B	14	6.85E-05
-0.1135708	cg08280368	TTC9	14	0.000221885
-0.1117124	cg26282283	TTYH3	7	0.048078672
-0.1056702	cg13756273	TUBB1;TUBB	20	8.97E-05
-0.1349488	cg09057412	TULP4;TULP4	6	8.08E-05
-0.1318816	cg16096836	TXN2	22	4.71E-05
-0.2426877	cg15985533	TYW3;TYW3;	1	0.019209645
-0.1013583	cg14557690	UAP1L1	9	0.003248193
-0.1210918	cg25943661	UBASH3B	11	7.14E-06
-0.1155704	cg05249460	UBE2G1	17	0.000551256
-0.1313964	cg11554335	UBE2L6	11	0.000155166
-0.1032001	cg06635797	UHRF1;UHRF	19	0.01883993
-0.1154772	cg02527375	ULK4	3	0.002385179
-0.1366026	cg25483907	ULK4	3	0.000717526
-0.1248389	cg20724032	ULK4	3	0.000532616
-0.1204437	cg20434422	UOX	1	0.00677094
-0.1767839	cg15717250	UPK1B	3	0.023410059
-0.1413645	cg01165661	USP19	3	0.013311838
-0.103004	cg19024575	USP36	17	0.000146694
-0.1787344	cg24759654	USP36	17	0.000277886
-0.1427357	cg27049539	USP40	2	3.75E-05
-0.1016271	cg20728419	USP47	11	0.005545148
-0.3066812	cg23982392	UST	6	0.003352016

-0.105822	cg17567602	UXS1	2	0.037419034
-0.1384722	cg06710195	VAV3	1	0.005703495
-0.1201563	cg17910564	VDAC3;VDAC	8	0.005768312
-0.1022945	cg21617903	VGLL4;VGLL4	3	0.000175305
-0.1710183	cg06878663	VIPR2	7	0.001581645
-0.1082654	cg13860281	VOPP1	7	0.012278882
-0.1070528	cg06889086	VOPP1	7	0.000632074
-0.1267586	cg23654401	VOPP1	7	0.01794335
-0.1596309	cg10039523	VPS13D;VPS1	1	0.00162725
-0.1391457	cg26738024	VPS52	6	0.047575531
-0.1200171	cg04689606	VWA2	10	6.01E-06
-0.1489014	cg21689902	VWA5A;VWA	11	0.015953762
-0.1008964	cg25884442	VWF	12	0.003407064
-0.1190057	cg00187692	WDFY2	13	0.003790072
-0.1011248	cg20576322	WDFY3	4	0.006398099
-0.1846256	cg18009653	WDR1;WDR1	4	0.000122798
-0.1201959	cg20469502	WDR25;WDR	14	0.000301844
-0.1073489	cg19774788	WDR51A;WC	3	0.000353189
-0.1582548	cg08103216	WDR69	2	2.83E-05
-0.1036338	cg09775648	WDR75	2	0.000285218
-0.131897	cg10080732	WDR81;WDR	17	0.004753254
-0.1056085	cg09433910	WDR81;WDR	17	0.000737452
-0.1836909	cg08007074	WFDC1	16	0.000344398
-0.1267842	cg07982740	WFDC3	20	0.006992475
-0.1185539	cg15558558	WHAMM	15	0.017116775
-0.1877097	cg17165848	WIPF1;WIPF	2	0.004219922
-0.1797878	cg03562120	WISP2;WISP	20	0.001771663
-0.1223377	cg02179982	WNT7B	22	0.005900176
-0.1229804	cg18377133	WTIP	19	0.000414488
-0.1007906	cg24115019	WWC1;WWC	5	0.007759534
-0.106534	cg07493562	WWOX;WWC	16	0.029864768
-0.1673388	cg18484958	WWTR1;WW	3	0.000105491
-0.1392251	cg10353683	XCR1;XCR1	3	0.022917778
-0.1405459	cg07140459	XRN1;XRN1	3	0.020672002
-0.1199542	cg14201946	YDJC	22	2.39E-06
-0.1148864	cg04498511	ZC3H11A	1	1.95E-05
-0.1343035	cg19872095	ZC3H12A	1	0.000309345
-0.1023181	cg00859858	ZC3H12A	1	0.008990691
-0.1055863	cg06762457	ZC3H12D	6	0.023537895
-0.1313444	cg00073460	ZC3H12D	6	0.002539921
-0.134997	cg09678939	ZC3H12D;ZC	6	0.011834922
-0.1723703	cg09580859	ZC3H3	8	0.000657944
-0.1585824	cg19598713	ZC3H3	8	0.002707807
-0.1583931	cg02433509	ZC3HAV1L	7	0.00464132
-0.1327015	cg08565003	ZCCHC14	16	0.000210554
-0.1203531	cg00569808	ZCCHC14	16	0.014136996

-0.1018863	cg09596336	ZEB2;ZEB2;Zl	2	6.59E-05
-0.1250449	cg00602811	ZEB2;ZEB2;Zl	2	0.002325654
-0.1808141	cg04640885	ZEB2;ZEB2;Zl	2	0.000926125
-0.1699226	cg17594003	ZEB2;ZEB2;Zl	2	0.005849417
-0.138942	cg10298741	ZFHx3;ZFHx3	16	0.000238856
-0.1271799	cg01155325	ZFP106	15	0.001252221
-0.1249563	cg23186952	ZFP91;ZFP91	11	5.84E-06
-0.1223888	cg04884025	ZFYVE9;ZFYV	1	5.07E-06
-0.1196291	cg19408207	ZMAT3;ZMA	3	0.000784581
-0.1240479	cg16996242	ZMYM4	1	0.000157049
-0.1778599	cg02872693	ZNF133;ZNF1	20	0.001830253
-0.1117403	cg01855245	ZNF19	16	0.007780725
-0.1538957	cg27474223	ZNF19	16	0.005461498
-0.1380504	cg15176338	ZNF212	7	2.69E-05
-0.124691	cg01105418	ZNF238;ZNF2	1	3.24E-05
-0.1510173	cg27118035	ZNF267	16	0.015192523
-0.2296021	cg14690467	ZNF282	7	0.000796056
-0.116066	cg25224992	ZNF354A	5	6.01E-06
-0.1428159	cg03861065	ZNF365;ZNF3	10	0.004106978
-0.1412978	cg22961459	ZNF385A;ZNI	12	3.99E-06
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-0.1029489	cg17501774	ZNF697	1	3.82E-05
-0.2202948	cg26029292	ZNF7	8	0.000371849
-0.1305394	cg15029037	ZNF827	4	0.000104741
-0.1610194	cg26550214		5	0.026200765
-0.1400673	cg11404945		1	0.029166004
-0.1089511	cg16329658		7	0.000639913
-0.1077525	cg20123355		6	0.000102511
-0.1076846	cg15509286		3	0.041000269
-0.103629	cg05607079		3	0.001709369
-0.1835688	cg24837084		12	0.010733781
-0.1773433	cg25354587		12	0.016555883
-0.1181435	cg07480446		2	0.001606255
-0.1678232	cg03389046		1	0.000823477
-0.1080786	cg01471572		8	0.007057242
-0.1240705	cg06183244		6	0.007027195
-0.1454832	cg00760950		13	0.006727096
-0.1207934	cg08474164		2	0.00662313
-0.3015312	cg03024791		11	0.005578856
-0.1894953	cg19634252		4	0.014524491
-0.1400777	cg11691825		1	0.048229301
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-0.1251917	cg20813139		2	0.004857875
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-0.1176336	cg04121938		1	0.000195694
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-0.1063209	cg18360755	2	0.005996811
-0.169698	cg08913410	7	0.001905778
-0.1456573	cg05823812	13	0.019808242
-0.1739014	cg25019503	11	8.23E-05
-0.1173056	cg04895475	6	2.52E-05
-0.1408229	cg10215323	17	0.007245628
-0.1019486	cg09651708	5	0.000106049
-0.1070068	cg13854341	7	0.027423293
-0.1211797	cg20011940	11	0.002367048
-0.1510638	cg15984596	14	0.000678327
-0.176718	cg19565094	15	0.001260863
-0.1207307	cg25545598	8	0.019782976
-0.1279122	cg19695386	5	0.021128352
-0.1238356	cg22770916	13	0.019440293
-0.1487985	cg23195687	10	0.000180852
-0.2253616	cg14493181	6	0.001994151
-0.1334813	cg05792169	15	0.011953013
-0.1982855	cg25911123	17	0.000466602
-0.1470797	cg03834467	2	0.005324321
-0.1970899	cg19789047	5	0.000129107
-0.1116234	cg13879954	4	0.005804113
-0.1313096	cg12197573	18	0.005025696
-0.1177794	cg00742098	16	0.006901745
-0.1305365	cg24710503	11	0.014494509
-0.1140984	cg12253071	4	0.031637626
-0.1536474	cg09071280	1	0.00464132
-0.1317483	cg02093951	5	0.001686143
-0.1158691	cg19579005	6	0.01982028
-0.1514826	cg07143623	5	0.002013388
-0.1036112	cg05464291	6	0.010798048
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-0.1051417	cg03755872	11	0.009990054
-0.1022595	cg25476130	8	0.048159974
-0.1035433	cg22861317	19	0.016767118
-0.1024795	cg02520399	8	0.048082418
-0.1481983	cg12076915	19	9.82E-06
-0.1575556	cg15613991	7	0.033427874
-0.1213136	cg13788625	9	7.44E-06
-0.1436443	cg22228142	11	0.002709433
-0.1191621	cg06730183	5	0.047280367
-0.1024559	cg17126947	4	0.040927285
-0.1311044	cg09932730	7	0.044066296
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-0.1463505	cg02046247	12	0.005657979
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-0.2036718	cg14665062	5	0.031036513
-0.1390145	cg13559235	9	0.002031428
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-0.1513573	cg16072777	5	0.015169582
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-0.1024168	cg11111372	7	0.012466814
-0.1885218	cg24428389	1	0.005028521

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-0.1616618	cg08033998	14	0.000623721
-0.1074709	cg18019509	6	0.008195203
-0.1009833	cg03660096	8	0.034360278
-0.1289555	cg05850870	2	0.002092819
-0.1059958	cg08945340	16	0.042063015
-0.1308159	cg15744108	6	0.02173225
-0.1853156	cg03788952	18	0.000253928
-0.1209768	cg05134325	13	0.027888813
-0.1045947	cg03524147	10	0.011073927
-0.1563052	cg17126924	17	0.004502863
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-0.1178166	cg01765416	12	0.029401888
-0.1162674	cg08098420	16	0.018221957
-0.1370054	cg13942103	1	0.007501528
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-0.1139958	cg25631033	5	0.026194968
-0.100174	cg13401658	2	0.014061883
-0.1086043	cg09164426	2	0.017928343
-0.1371762	cg17933224	19	0.000607458
-0.1165121	cg22851694	1	0.002451815

-0.1221234	cg20708282	5	0.038421492
-0.1210872	cg25642955	5	1.82E-05
-0.1750613	cg13670898	14	0.042649731
-0.1494412	cg03719984	1	0.013280549
-0.1052187	cg20947259	1	0.000279227
-0.1170934	cg26119731	7	0.001201048
-0.1622342	cg25341313	1	0.025584255
-0.1080403	cg25215047	13	0.000607303
-0.10194	cg05144620	17	0.002635222
-0.1135972	cg27297558	14	0.002842356
-0.1489929	cg11797364	6	0.000727418
-0.2208287	cg26851984	5	0.001198472
-0.1479525	cg10549071	2	1.04E-05
-0.1308388	cg05786140	4	0.021222907
-0.1221666	cg19145082	3	0.002464643
-0.1626554	cg18244483	4	0.000632765
-0.1526785	cg01722566	16	0.029365498
-0.1173439	cg08023442	3	0.004387178
-0.2337955	cg01553231	5	0.000782226
-0.1604811	cg05191919	5	0.036219705
-0.1514396	cg09938273	7	0.001934365
-0.1513335	cg11895596	3	0.002278776
-0.2509791	cg04231042	4	0.001204437
-0.2286996	cg20431748	1	0.002711825
-0.2275807	cg08241401	20	0.008383082
-0.2024471	cg18067096	2	0.017631101
-0.1895571	cg09412707	4	0.001433798
-0.1838942	cg22399703	2	0.007740258
-0.1762682	cg17104766	2	0.000952637
-0.1666344	cg10253639	17	0.00144402
-0.1607827	cg01449756	4	0.045495251
-0.1558313	cg01063579	16	0.006129601
-0.1545498	cg24314564	3	0.007098415
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-0.1368412	cg08940378	2	0.001161101
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-0.1318262	cg13725826	14	0.01408812
-0.1312746	cg02864638	17	0.003073337
-0.1310869	cg19765196	3	0.032875552
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-0.1262387	cg27228272	2	0.01282277

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-0.1041608	cg22036894	1	0.027084146
-0.1013135	cg07696354	4	0.001394535
-0.10901	cg22672060	4	0.009031022
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-0.1077356	cg13797468	3	0.009030275
-0.1052265	cg17472800	5	0.001821398
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-0.1176904	cg23521140	2	0.012826226
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-0.1459465	cg02598430	6	2.09E-05
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-0.1001002	cg22876901	2	0.021717342
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-0.1251297	cg18914751	5	0.003606401
-0.125524	cg08595592	7	0.000440599
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-0.1598171	cg00622516	13	0.023601029
-0.1233995	cg12071775	14	0.007995799
-0.1022239	cg08814536	13	0.016988039
-0.1025357	cg14790115	13	0.005831888
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-0.1155235	cg14221851	12	0.036346442
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-0.1081109	cg26123532	2	0.001230241
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-0.1005891	cg17046141	5	0.007825738
-0.1553625	cg07339138	3	0.005023861
-0.1247811	cg20142213	8	0.021678172
-0.1105105	cg01430103	13	0.03527929
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-0.1569421	cg11964099	17	0.041685146
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-0.1071296	cg23552820	17	0.003306987
-0.1080218	cg10234693	12	0.000893003
-0.1072465	cg02563916	12	0.000840454
-0.1426768	cg09763439	6	0.000151925
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-0.1328445	cg16058274	14	0.012118611
-0.1274242	cg18061711	5	0.013518536
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-0.1043077	cg21694161	17	0.012004412
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-0.2211579	cg26295786	14	0.008221405
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-0.180186	cg06388350	4	0.029880441

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-0.1367051	cg21552063	6	0.001608251
-0.1362802	cg12785993	2	3.86E-05
-0.1361394	cg19258177	1	0.01079527

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-0.135278	cg16703420	14	0.01402418
-0.1352403	cg15149205	8	0.008288855
-0.1351459	cg21286117	17	4.13E-05
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-0.1344263	cg10108710	14	0.000420019
-0.1343471	cg06853836	6	0.000720165
-0.134114	cg20427318	6	0.00010815
-0.1340215	cg26727231	8	0.00024564
-0.1338658	cg06639053	12	0.002747045
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-0.1332875	cg11013714	3	0.000145092
-0.1332651	cg10979364	5	2.50E-05
-0.1332218	cg14241836	7	0.015111672
-0.1331807	cg21807262	14	6.71E-05
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-0.1327976	cg03183618	2	0.001634255
-0.1326753	cg07958689	17	0.001190573
-0.1326181	ch.3.82259654F	3	0.001463761
-0.1325461	cg18211761	8	0.037828772
-0.1325202	cg08365609	19	0.024583702
-0.1325166	cg14671011	5	0.016154162
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-0.1319756	cg02049833	2	0.007164961
-0.1319603	cg25898192	15	0.012083071
-0.131753	cg22588983	5	0.000833457
-0.1313998	cg15559833	2	0.031711256
-0.1312128	cg07243762	12	0.00135578
-0.1311162	cg04244152	10	0.000435045
-0.1311033	cg09030187	1	0.002438391
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-0.1298481	cg03663556	7	0.049572713
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-0.1291743	cg05605980	7	0.007964429
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-0.1290489	cg04718050	14	0.018417111
-0.1290193	cg17947364	6	0.000458663
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-0.1284879	cg12048965	10	0.034325962
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-0.1058765	cg24045357	2	0.002412627
-0.1058544	cg22192489	5	0.01256261

-0.1057075	cg25616869	3	1.04E-05
-0.1056798	cg13076829	18	6.30E-05
-0.1055972	cg21308365	6	0.004769362
-0.1055376	cg06677367	11	2.46E-05
-0.1055268	cg18100045	3	0.000417719
-0.1053377	cg15835664	1	2.14E-05
-0.1052588	cg14713217	1	1.85E-06
-0.1052331	cg26557617	17	0.000223226
-0.1050783	cg16578085	4	0.002941958
-0.1050677	cg00998372	2	0.003547283
-0.1050238	cg04783450	6	5.99E-05
-0.1049983	cg07559178	14	7.57E-05
-0.1049346	cg05234552	6	0.002174245
-0.1048753	cg00975624	3	0.005219152
-0.1047124	cg01889956	6	5.02E-05
-0.1046798	cg00150785	20	0.000115284
-0.1046313	cg25500001	10	0.000246542
-0.1046091	cg25827670	17	0.000378148
-0.1045756	cg03772020	6	0.042823396
-0.1045125	cg05176551	10	4.13E-06
-0.1045022	cg13638282	9	4.39E-05
-0.1044985	cg16704703	10	0.002910801
-0.1044175	cg05581878	3	0.000899717
-0.1043712	cg16700163	16	0.015706693
-0.1043453	cg12028646	20	0.000251572
-0.1043027	cg14184954	12	3.33E-05
-0.1042849	cg23598010	12	4.44E-06
-0.1042446	cg16479476	6	1.19E-05
-0.1042275	cg17186132	15	7.05E-06
-0.1041976	cg16651768	1	6.97E-06
-0.1041963	cg05626644	16	0.000153891
-0.10416	cg27109912	17	3.02E-05
-0.1041007	cg09244312	13	0.000473603
-0.1041004	cg12341429	2	9.63E-06
-0.1040447	cg01806427	5	0.022800301
-0.104039	cg22950831	10	4.32E-05
-0.1040045	cg01957897	15	3.33E-06
-0.1039981	cg07081245	11	1.39E-05
-0.1039884	cg08698943	10	0.003388913
-0.1039171	cg16973527	15	0.012741015
-0.1038465	cg19867579	2	0.000324294
-0.1038294	cg03254336	10	2.00E-06
-0.1038228	cg13446584	7	0.000281141
-0.1035648	cg06223926	10	0.000257397
-0.1035606	cg24232510	2	9.23E-05
-0.1033722	cg20788020	8	3.06E-05

-0.1033657	cg06361606	1	0.000410602
-0.1033426	cg05977333	16	0.00735014
-0.1033284	cg09884419	15	0.00257954
-0.1032745	cg01510278	16	0.005571346
-0.1032719	cg14684854	2	1.49E-05
-0.1032476	cg13052638	1	3.02E-05
-0.1031475	cg06480353	7	9.99E-07
-0.1031322	cg26118358	14	0.006679142
-0.1030355	cg03278514	15	0.002733853
-0.1029803	cg08913523	8	0.005084296
-0.1028442	cg09051342	8	4.82E-05
-0.1027655	cg11818589	10	0.0222961
-0.1027386	cg22021794	5	1.22E-05
-0.102661	cg25765315	12	9.59E-05
-0.1026172	cg15867307	2	6.01E-06
-0.1026004	cg25467833	1	0.000277755
-0.1025974	cg02744632	2	0.000114347
-0.1025714	cg14488466	9	0.001331339
-0.1025697	cg27661394	4	3.43E-05
-0.1023868	cg20485607	1	0.013433453
-0.1023051	cg16474118	2	0.000693941
-0.1022682	cg01878963	1	1.01E-06
-0.1022397	cg07285237	6	0.000277931
-0.101987	cg05273533	16	0.000135153
-0.1018981	cg04143120	11	3.33E-06
-0.1018234	cg03127349	10	3.91E-06
-0.1017959	cg16171290	13	3.99E-06
-0.1016343	cg15812586	7	0.004591146
-0.1014268	cg03666350	2	3.56E-06
-0.101304	cg27621721	3	1.04E-05
-0.1012557	cg17477578	8	0.000140489
-0.1011773	cg15732079	7	8.69E-06
-0.1011082	cg22534374	1	0.000140947
-0.1010759	cg11601932	3	0.000248194
-0.1009998	cg24822529	5	1.17E-06
-0.1009794	cg07484739	2	1.01E-06
-0.1009785	cg04362790	14	4.27E-07
-0.1009503	cg16440978	14	3.38E-06
-0.1008889			
-0.1008612			
-0.100848			
-0.1008239			
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-0.1006988			
-0.1005641			
-0.1005438			

-0.1005074  
-0.1005056  
-0.1004415  
-0.1003544  
-0.1001302  
-0.1001279  
-0.1000928  
-0.1000764

**oarthritis**

<b>Mean <math>\beta</math>-value NOF</b>	<b>Mean <math>\beta</math>-value OA.Hip samples</b>	<b>Delta.Beta</b>
0.747286665	0.638203026	0.10908364
0.796189794	0.694108513	0.10208128
0.730878993	0.582625886	0.14825311
0.532159139	0.309109791	0.22304935
0.864218943	0.746730216	0.11748873
0.88448214	0.772916359	0.11156578
0.873924421	0.713285565	0.16063886
0.665249913	0.556882755	0.10836716
0.371465412	0.268629481	0.10283593
0.57171392	0.420613216	0.1511007
0.657310127	0.493716683	0.16359344
0.868325038	0.745967181	0.12235786
0.505959944	0.387461515	0.11849843
0.785679773	0.658552864	0.12712691
0.523511062	0.384448656	0.13906241
0.704441614	0.4766596	0.22778201
0.352490571	0.235502437	0.11698813
0.518765218	0.374800525	0.14396469
0.898178494	0.791553024	0.10662547
0.844861629	0.718564699	0.12629693
0.791151616	0.661357951	0.12979367
0.837977775	0.683669579	0.1543082
0.601372889	0.435976765	0.16539612
0.386301913	0.224754845	0.16154707
0.659798805	0.522164835	0.13763397
0.858220685	0.755943706	0.10227698
0.546115869	0.428345945	0.11776992
0.758618619	0.607877797	0.15074082
0.865451892	0.763338203	0.10211369
0.586325619	0.451918071	0.13440755
0.545545837	0.408797388	0.13674845
0.667523002	0.522091923	0.14543108
0.816931383	0.646152363	0.17077902
0.813256967	0.68293604	0.13032093
0.586855414	0.428216997	0.15863842
0.719158411	0.613756597	0.10540181
0.748512039	0.619176735	0.1293353
0.748558945	0.603344742	0.1452142
0.699175187	0.52880733	0.17036786

0.832383947	0.658188263	0.17419568
0.678661469	0.570914759	0.10774671
0.635490302	0.45855755	0.17693275
0.602927802	0.47874684	0.12418096
0.817566199	0.713451589	0.10411461
0.636078264	0.531473553	0.10460471
0.843808003	0.732203797	0.11160421
0.698827711	0.597706551	0.10112116
0.296434475	0.164040885	0.13239359
0.66898478	0.465270067	0.20371471
0.849700283	0.736313846	0.11338644
0.502216722	0.378064989	0.12415173
0.368648075	0.21901243	0.14963564
0.783679623	0.674524716	0.10915491
0.561250169	0.453428932	0.10782124
0.827327582	0.726688928	0.10063865
0.794694164	0.689801248	0.10489292
0.598084502	0.48110588	0.11697862
0.523271238	0.369305226	0.15396601
0.700019981	0.585979691	0.11404029
0.522360767	0.344429944	0.17793082
0.706690334	0.521015664	0.18567467
0.754910265	0.623437862	0.1314724
0.303694668	0.193545089	0.11014958
0.709771051	0.607716933	0.10205412
0.383532181	0.279118505	0.10441368
0.845841479	0.698638241	0.14720324
0.760312515	0.549052922	0.21125959
0.461170962	0.357243137	0.10392783
0.777002577	0.655737598	0.12126498
0.558208451	0.431145231	0.12706322
0.602385072	0.501970427	0.10041465
0.595254153	0.372521741	0.22273241
0.49850826	0.367493368	0.13101489
0.502379589	0.378255975	0.12412361
0.79677765	0.691277755	0.10549989
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0.803605439	0.701058419	0.10254702
0.689054966	0.424058877	0.26499609
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0.78772045	0.661773063	0.12594739
0.510393725	0.340299925	0.1700938
0.60643681	0.483846135	0.12259068
0.493227212	0.362526393	0.13070082
0.471672263	0.368600978	0.10307129
0.623161321	0.490071728	0.13308959



0.274161859	0.147816229	0.12634563
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0.663333625	0.560588075	0.10274555
0.869182312	0.738176082	0.13100623
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0.681044144	0.450169662	0.23087448
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0.411537476	0.2480278	0.16350968
0.624443052	0.48613807	0.13830498
0.691293831	0.561811194	0.12948264
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0.518178026	0.375222221	0.14295581
0.635557097	0.491426025	0.14413107
0.867221752	0.719405578	0.14781617
0.855610658	0.699402895	0.15620776
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0.757458486	0.576839505	0.18061898
0.67663281	0.559967438	0.11666537
0.32338835	0.214947769	0.10844058
0.618522552	0.502979049	0.1155435
0.89026363	0.754277063	0.13598657
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0.501250465	0.354382491	0.14686798
0.709108794	0.550066698	0.1590421
0.789517861	0.613534734	0.17598313
0.680250102	0.571467715	0.10878239
0.832370468	0.683003187	0.14936728
0.514345185	0.265703891	0.24864129
0.786894417	0.683677128	0.10321729
0.335279428	0.186872994	0.14840643
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0.677880466	0.577115773	0.10076469
0.486929696	0.386301102	0.10062859
0.48807209	0.381350061	0.10672203
0.728036885	0.624358962	0.10367792
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0.44379587	0.24396611	0.19982976
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0.235864978	0.093593019	0.14227196
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0.385597939	0.186402573	0.19919537
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0.378997193	0.196075943	0.18292125
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0.560269346	0.431886506	0.12838284
0.687152841	0.565107933	0.12204491
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0.895838411	0.775852201	0.11998621
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0.815545781	0.713666646	0.10187914
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0.713526862	0.590478078	0.12304878
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0.617087726	0.430858277	0.18622945
0.487558155	0.346771551	0.1407866
0.388553882	0.280210799	0.10834308
0.550859307	0.438258531	0.11260078
0.834969943	0.703944057	0.13102589
0.581949576	0.387071348	0.19487823
0.514886423	0.406721376	0.10816505
0.66941637	0.515142313	0.15427406
0.768172897	0.610774354	0.15739854
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0.345239741	0.205715655	0.13952409
0.230826129	0.113024806	0.11780132
0.457457583	0.347738568	0.10971902
0.540640594	0.374433386	0.16620721
0.639549241	0.533770467	0.10577877
0.275998902	0.160811143	0.11518776
0.380531301	0.199906211	0.18062509
0.666936303	0.564555579	0.10238072
0.682689311	0.578819297	0.10387002
0.595606463	0.488479167	0.1071273
0.773683392	0.656342013	0.11734138
0.382596748	0.260143642	0.12245311
0.689732095	0.542905803	0.14682629
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0.802558975	0.64479381	0.15776517
0.752095301	0.581833493	0.17026181
0.655531013	0.471971129	0.18355988
0.794660937	0.686435267	0.10822567
0.736519937	0.555406905	0.18111303
0.799484185	0.523495851	0.27598833
0.704931596	0.588188652	0.11674294
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0.5045844	0.363760855	0.14082355
0.881814472	0.745893543	0.13592093
0.404312881	0.292423211	0.11188967
0.368226957	0.238621629	0.12960533
0.751896265	0.604151918	0.14774435
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0.790486809	0.667816999	0.12266981
0.551887269	0.390693979	0.16119329
0.751128236	0.601973282	0.14915495
0.73112071	0.575337016	0.15578369
0.798898307	0.640408502	0.1584898
0.652994986	0.494447238	0.15854775
0.688639546	0.447484591	0.24115496
0.483747679	0.360770801	0.12297688
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0.535616041	0.315007955	0.22060809
0.688649471	0.467674354	0.22097512
0.80208432	0.580692869	0.22139145
0.652325491	0.43079989	0.2215256
0.679098505	0.45605399	0.22304452
0.431481052	0.208413925	0.22306713
0.840247275	0.616707624	0.22353965
0.835173648	0.611189091	0.22398456
0.648552926	0.423640464	0.22491246
0.514460177	0.289489278	0.2249709
0.51318058	0.286928311	0.22625227
0.515704625	0.289047645	0.22665698
0.713170104	0.485477961	0.22769214
0.729419582	0.501123967	0.22829561
0.838191652	0.608764371	0.22942728
0.751020006	0.518278648	0.23274136
0.717904457	0.482996395	0.23490806
0.439914656	0.204909512	0.23500514
0.49170069	0.256348074	0.23535262
0.578985116	0.342099978	0.23688514
0.740894356	0.500833274	0.24006108
0.732679592	0.491676533	0.24100306
0.702870007	0.458930942	0.24393906
0.662382566	0.417733224	0.24464934
0.687803665	0.442204516	0.24559915
0.734087401	0.487164692	0.24692271
0.800857779	0.543854437	0.25700334
0.465910498	0.207972293	0.25793821
0.543201222	0.268672024	0.2745292
0.765332235	0.479288104	0.28604413
0.666484805	0.360284376	0.30620043
0.618798622	0.254424051	0.36437457



