

Gene.Symbol	moduleColor	GS.AD	p.GS.AD	MMyellow	p.MMyellow
ABLM2	blue	-0.286364071	5.24E-06	-0.460832763	2.77E-14
ACE2	blue	-0.212702365	0.000806028	-0.163157111	0.01053017
ACHE	blue	-0.260621608	3.63E-05	-0.413619043	1.52E-11
ACO2	blue	-0.188032699	0.003131513	-0.541341308	4.70E-20
ACTB	blue	-0.342457816	3.80E-08	-0.643147142	5.37E-30
ADAM32	blue	-0.188017201	0.00313403	-0.243282823	0.00011984
ALDOA	blue	-0.334376774	8.22E-08	-0.616683286	4.63E-27
ANKRD12	blue	0.145114306	0.023097348	0.257775131	4.44E-05
AP2M1	blue	-0.258058544	4.35E-05	-0.478184995	2.11E-15
AP3B2	blue	-0.328951992	1.36E-07	-0.529980099	3.81E-19
APBB3	blue	-0.277199271	1.07E-05	-0.260284062	3.71E-05
APEX1	blue	-0.266219956	2.42E-05	-0.676450015	3.96E-34
APLP1	blue	-0.316918532	4.05E-07	-0.412666109	1.71E-11
APLP2	blue	-0.345634892	2.78E-08	-0.573683157	7.66E-23
ARF3	blue	-0.3572778	8.68E-09	-0.684361388	3.43E-35
ARF5	blue	-0.417530578	9.37E-12	-0.552977012	5.05E-21
ARHGDIG	blue	-0.321549132	2.68E-07	-0.543388257	3.19E-20
ARHGEF11	blue	-0.282594237	7.04E-06	-0.264126189	2.82E-05
ARSG	blue	-0.255957871	5.04E-05	-0.235230663	0.000202897
ATP1A3	blue	-0.374651171	1.39E-09	-0.425574132	3.38E-12
ATP6V0D1	blue	-0.268112875	2.11E-05	-0.515224676	5.16E-18
ATP6V1F	blue	-0.32254584	2.45E-07	-0.39791858	1.01E-10
ATXN10	blue	-0.407322835	3.29E-11	-0.44140563	4.18E-13
BSG	blue	-0.221498337	0.000478071	-0.309647315	7.65E-07
CA11	blue	-0.196114304	0.002042521	-0.382004735	6.21E-10
CABP1	blue	-0.272209323	1.55E-05	-0.308299118	8.59E-07
CACNG3	blue	-0.388633733	2.95E-10	-0.406697103	3.55E-11
CADM3	blue	-0.228030404	0.000320043	-0.351392083	1.57E-08
CALY	blue	-0.321236331	2.76E-07	-0.62841079	2.51E-28
CAMK1G	blue	-0.348253754	2.15E-08	-0.584925426	6.94E-24
CAPNS1	blue	-0.345414006	2.84E-08	-0.593124159	1.14E-24
CARD8	blue	0.314804168	4.89E-07	0.344914292	2.99E-08
CEND1	blue	-0.257202113	4.62E-05	-0.397147937	1.10E-10
CHCHD10	blue	-0.253632669	5.93E-05	-0.418827597	7.97E-12
CHRM1	blue	-0.292095823	3.31E-06	-0.528600342	4.89E-19
CHST1	blue	-0.257118278	4.65E-05	-0.485847779	6.44E-16
CITED1	blue	-0.273131294	1.45E-05	-0.284731886	5.95E-06
CLPTM1	blue	-0.220658571	0.000502965	-0.363081032	4.77E-09
CLSTN1	blue	-0.409870049	2.42E-11	-0.52018432	2.18E-18

CNTNAP1	blue	-0.130415544	0.041389623	-0.252993002	6.20E-05
CORO1A	blue	-0.211268534	0.000875964	-0.423589365	4.36E-12
CORO6	blue	-0.249629521	7.81E-05	-0.188971754	0.002982356
CPLX1	blue	-0.400372353	7.56E-11	-0.397768026	1.03E-10
CPLX2	blue	-0.359924883	6.61E-09	-0.420054496	6.82E-12
CPNE9	blue	-0.214169275	0.000739837	-0.381440302	6.62E-10
CRMP1	blue	-0.359164787	7.15E-09	-0.62490099	6.09E-28
DDT	blue	-0.327863011	1.51E-07	-0.480511445	1.47E-15
DDX24	blue	-0.365200345	3.82E-09	-0.688132848	1.04E-35
DIRAS1	blue	-0.29912642	1.86E-06	-0.39293792	1.80E-10
DNM1	blue	-0.261434272	3.42E-05	-0.25971619	3.87E-05
DOC2A	blue	-0.271986154	1.58E-05	-0.569863645	1.70E-22
DPP6	blue	-0.44313874	3.31E-13	-0.56400597	5.63E-22
DYNC1H1	blue	-0.292972448	3.09E-06	-0.512149273	8.75E-18
ENO2	blue	-0.424951337	3.66E-12	-0.562998585	6.90E-22
ENTPD6	blue	-0.280262496	8.43E-06	-0.508745229	1.56E-17
EPB41L1	blue	-0.238832245	0.000160678	-0.466061574	1.29E-14
FANCE	blue	0.307236923	9.41E-07	0.563986131	5.65E-22
FBXL16	blue	-0.244533454	0.000110251	-0.465678557	1.37E-14
FKBP1A	blue	-0.356987209	8.94E-09	-0.655464995	1.83E-31
GABRD	blue	-0.331912428	1.04E-07	-0.256854453	4.74E-05
GAS7	blue	-0.421541747	5.65E-12	-0.504467645	3.19E-17
GPI	blue	-0.362186395	5.23E-09	-0.565420157	4.22E-22
GRINA	blue	-0.342649857	3.73E-08	-0.503621963	3.67E-17
HMGA1	blue	-0.329741807	1.27E-07	-0.403675789	5.11E-11
HPCA	blue	-0.358243039	7.86E-09	-0.453602185	7.76E-14
HUWE1	blue	-0.352898294	1.35E-08	-0.312752259	5.85E-07
IDH3G	blue	-0.223856568	0.00041414	-0.413132268	1.62E-11
IFT74	blue	0.252245533	6.53E-05	0.456518076	5.14E-14
IGSF21	blue	-0.236323102	0.000189107	-0.018041425	0.778732132
INO80D	blue	0.280036696	8.58E-06	0.520822177	1.95E-18
IRF2BP2	blue	0.223706096	0.00041797	0.30213939	1.45E-06
KCNQ2	blue	-0.195667507	0.00209226	-0.125033026	0.050613138
KCTD13	blue	-0.359327777	7.03E-09	-0.422888651	4.76E-12
KLHDC9	blue	-0.319858265	3.12E-07	-0.51157222	9.66E-18
KLHL35	blue	-0.412497435	1.75E-11	-0.251262687	6.99E-05
L1CAM	blue	-0.341205243	4.28E-08	-0.567719781	2.64E-22
LDOC1	blue	-0.238656034	0.000162536	-0.696456314	6.97E-37
LINGO1	blue	-0.383631771	5.18E-10	-0.472621184	4.89E-15
LY6E	blue	-0.272957782	1.47E-05	-0.461588086	2.48E-14

MAP1A	blue	-0.245606416	0.000102603	-0.407269669	3.31E-11
MAP1S	blue	-0.16630009	0.009110468	-0.37819067	9.47E-10
MAPK8IP2	blue	-0.320701094	2.89E-07	-0.345546077	2.81E-08
MAPRE3	blue	-0.206316765	0.001162737	-0.249943737	7.65E-05
MGRN1	blue	-0.323505634	2.25E-07	-0.453657405	7.70E-14
MICAL2	blue	-0.404698515	4.52E-11	-0.51876256	2.80E-18
MLF2	blue	-0.309590517	7.69E-07	-0.469920881	7.32E-15
MPV17	blue	-0.149747378	0.019018456	-0.362545077	5.04E-09
MRPL2	blue	-0.352197723	1.45E-08	-0.453861651	7.48E-14
NCDN	blue	-0.252401469	6.46E-05	-0.387253109	3.45E-10
NDUFV1	blue	-0.289042253	4.23E-06	-0.625124327	5.75E-28
NECAB2	blue	-0.289247777	4.16E-06	-0.302834403	1.37E-06
NEU1	blue	-0.356717625	9.19E-09	-0.476916767	2.56E-15
NPDC1	blue	-0.306181115	1.03E-06	-0.557239933	2.19E-21
NPM2	blue	-0.239039779	0.000158515	-0.418145066	8.68E-12
NPTXR	blue	-0.39191945	2.03E-10	-0.545588036	2.10E-20
NRGN	blue	-0.227802423	0.00032462	-0.448852831	1.51E-13
NSUN6	blue	0.0197885	0.757941428	0.332860937	9.48E-08
OGDHL	blue	-0.304245242	1.21E-06	-0.407689276	3.15E-11
OLFM2	blue	-0.261277056	3.46E-05	-0.301746479	1.50E-06
P4HTM	blue	-0.219510499	0.000538943	-0.252687458	6.33E-05
PAK2	blue	0.346260011	2.62E-08	0.589967469	2.29E-24
PCDH7	blue	-0.225671297	0.000370449	-0.487919232	4.65E-16
PCSK1N	blue	-0.271564461	1.63E-05	-0.508942659	1.51E-17
PDE1B	blue	-0.286582397	5.15E-06	-0.407236473	3.33E-11
PEX11B	blue	-0.435426084	9.33E-13	-0.742298033	3.84E-44
PFDN1	blue	-0.247779216	8.86E-05	-0.563335795	6.45E-22
PIN1	blue	-0.294387436	2.75E-06	-0.405520943	4.09E-11
PKNOX2	blue	-0.283061945	6.78E-06	-0.425103509	3.59E-12
PNCK	blue	-0.332346117	9.95E-08	-0.22019802	0.000517122
PNKD	blue	-0.320422234	2.97E-07	-0.4712783	5.98E-15
PNMA6A	blue	-0.252658035	6.35E-05	-0.482732608	1.05E-15
PPME1	blue	-0.344303279	3.17E-08	-0.336402879	6.79E-08
PPP1R11	blue	-0.218741832	0.000564349	-0.517483797	3.49E-18
PPP2R1A	blue	-0.292424913	3.23E-06	-0.230393788	0.000276005
PPP2R2A	blue	-0.249903992	7.67E-05	-0.391047473	2.24E-10
PRDX2	blue	-0.226447702	0.000353098	-0.697106143	5.62E-37
PRKCG	blue	-0.33861914	5.49E-08	-0.562073641	8.32E-22
PRTN3	blue	-0.209710982	0.000958241	-0.048763671	0.447361636
PTK2B	blue	-0.311731108	6.39E-07	-0.384554301	4.67E-10

PTPRN	blue	-0.403734019	5.07E-11	-0.583940588	8.60E-24
RGS6	blue	-0.244433506	0.00011099	-0.251003623	7.11E-05
RHBDD2	blue	-0.271516454	1.64E-05	-0.217796345	0.000597117
RNF19B	blue	-0.225814126	0.000367199	-0.597116483	4.62E-25
RNMT	blue	-0.33628726	6.86E-08	-0.530476132	3.49E-19
ROCK1	blue	0.259267955	3.99E-05	0.230579867	0.000272789
RPS6KL1	blue	-0.297012243	2.22E-06	-0.202073678	0.001474563
RUNDC3A	blue	-0.335457803	7.42E-08	-0.415859234	1.15E-11
RWDD2B	blue	-0.257257004	4.60E-05	-0.253217085	6.10E-05
SCAMP5	blue	-0.318432971	3.54E-07	-0.490118753	3.29E-16
SCN1B	blue	-0.268424395	2.06E-05	-0.471247657	6.00E-15
SEZ6L	blue	-0.325717466	1.84E-07	-0.352651188	1.39E-08
SLC17A7	blue	-0.296305956	2.35E-06	-0.261026308	3.52E-05
SLC23A1	blue	-0.243768541	0.000116027	-0.047274526	0.461371039
SLC6A7	blue	-0.199982554	0.001654889	-0.132106509	0.03880169
SLTM	blue	0.344960512	2.97E-08	0.283787883	6.41E-06
SNCB	blue	-0.284206386	6.20E-06	-0.340093969	4.77E-08
SNCG	blue	-0.170800675	0.00737324	-0.115718861	0.070590543
STS	blue	-0.323068449	2.34E-07	-0.325081545	1.95E-07
STX1A	blue	-0.307996011	8.82E-07	-0.626135666	4.46E-28
STXBP1	blue	-0.389902578	2.55E-10	-0.818874647	1.60E-60
SUPT4H1	blue	-0.298195397	2.01E-06	-0.46850194	9.03E-15
SYN1	blue	-0.324298767	2.09E-07	-0.477307681	2.41E-15
SYNGR3	blue	-0.348050508	2.19E-08	-0.656052907	1.55E-31
SYP	blue	-0.381289225	6.73E-10	-0.540533757	5.46E-20
SYT3	blue	-0.278179075	9.89E-06	-0.250791003	7.22E-05
SYT5	blue	-0.277909578	1.01E-05	-0.280019545	8.59E-06
TERF2	blue	-0.245090002	0.00010622	-0.658236893	8.37E-32
THY1	blue	-0.318767144	3.44E-07	-0.250065243	7.58E-05
TM7SF2	blue	-0.35297692	1.34E-08	-0.438205742	6.44E-13
TMEM151A	blue	-0.205291179	0.001231991	-0.174159416	0.006275985
TPI1	blue	-0.328324303	1.45E-07	-0.462061455	2.32E-14
TRIML1	blue	-0.216083673	0.000660995	-0.095889544	0.134475525
TUBG2	blue	-0.365491255	3.70E-09	-0.305009465	1.14E-06
UBA1	blue	-0.208364686	0.001035028	-0.380780165	7.12E-10
USP11	blue	-0.423461822	4.43E-12	-0.486892434	5.47E-16
USP5	blue	-0.266780279	2.32E-05	-0.444089754	2.90E-13
VAMP2	blue	-0.377006111	1.08E-09	-0.659443359	5.94E-32
VSTM2L	blue	-0.298009705	2.04E-06	-0.392843173	1.82E-10
YJEFN3	blue	-0.223808079	0.000415371	-0.489897287	3.40E-16

YWHAE	blue	-0.339979808	4.82E-08	-0.547193558	1.55E-20
ZHX2	blue	0.300427796	1.67E-06	0.583072119	1.04E-23
ZNF532	blue	0.297801975	2.08E-06	0.368101598	2.81E-09
AASS	brown	0.19363704	0.002332506	0.168537601	0.008205958
ABCA1	brown	0.341873259	4.02E-08	0.473454394	4.31E-15
ACACB	brown	0.415957636	1.14E-11	0.702306455	9.87E-38
ACOT11	brown	0.299842563	1.76E-06	0.369412719	2.45E-09
ACSBG1	brown	0.306838311	9.74E-07	0.43598833	8.66E-13
ACSS1	brown	0.356703032	9.20E-09	0.574247364	6.81E-23
ACSS3	brown	0.414324167	1.40E-11	0.370270592	2.23E-09
ACTL6A	brown	0.461608677	2.47E-14	0.47466309	3.60E-15
ADD3	brown	0.200921241	0.001571584	0.419169971	7.63E-12
AHNAK	brown	0.429139651	2.13E-12	0.625615021	5.09E-28
AKR1C3	brown	0.341755176	4.06E-08	0.509779924	1.31E-17
ALDH6A1	brown	0.172738574	0.006720956	0.329478512	1.30E-07
ANTXR1	brown	0.415691405	1.18E-11	0.451749107	1.01E-13
ANTXR2	brown	0.473646701	4.19E-15	0.358351173	7.77E-09
ARHGEF6	brown	0.409145279	2.64E-11	0.479976316	1.60E-15
ASCL1	brown	0.47745084	2.36E-15	0.480703985	1.43E-15
AXL	brown	0.342080927	3.94E-08	0.601788837	1.58E-25
BAMBI	brown	0.295244125	2.56E-06	0.313508941	5.47E-07
BBOX1	brown	0.326254702	1.75E-07	0.286414829	5.21E-06
BCL2	brown	0.274832822	1.28E-05	0.469679225	7.58E-15
BDH2	brown	0.361842228	5.42E-09	0.265705785	2.51E-05
BMP7	brown	0.169185997	0.00795922	0.406469068	3.65E-11
CAT	brown	0.264236281	2.80E-05	0.20274625	0.001420507
CBFB	brown	0.284804638	5.92E-06	0.33371153	8.75E-08
CDC14A	brown	0.361821652	5.43E-09	0.238795752	0.000161061
CDK2AP1	brown	0.474312839	3.79E-15	0.434495241	1.06E-12
CEBPB	brown	0.335419114	7.45E-08	0.349190104	1.96E-08
CGNL1	brown	0.405087016	4.31E-11	0.579829545	2.09E-23
CMBL	brown	0.356148291	9.74E-09	0.230112672	0.00028093
CMTM4	brown	0.333687423	8.77E-08	0.377237497	1.05E-09
COLEC12	brown	0.410039903	2.37E-11	0.128859284	0.043898303
CYBRD1	brown	0.229376426	0.00029422	0.200117949	0.001642629
DBI	brown	0.383372191	5.34E-10	0.396628829	1.17E-10
DDIT4L	brown	0.39956274	8.32E-11	0.555297155	3.21E-21
DNALI1	brown	0.470664181	6.55E-15	0.618028979	3.34E-27
DPY19L4	brown	0.272683171	1.50E-05	0.174828403	0.00607575
EFEMP2	brown	0.403247001	5.37E-11	0.67041868	2.43E-33

EFHC2	brown	0.268781702	2.01E-05	0.257532391	4.51E-05
ELF1	brown	0.473625284	4.20E-15	0.45202856	9.68E-14
EMX2	brown	0.339481949	5.06E-08	0.406587177	3.60E-11
EPS8	brown	0.358253992	7.85E-09	0.331327858	1.09E-07
EYA1	brown	0.220648529	0.00050327	0.237403832	0.00017633
EYA2	brown	0.273579689	1.40E-05	0.389815419	2.58E-10
EZR	brown	0.4781773	2.11E-15	0.618735554	2.81E-27
FAM107A	brown	0.360432392	6.28E-09	0.40090394	7.10E-11
FAM167A	brown	0.342820232	3.66E-08	0.440282417	4.87E-13
FARP1	brown	0.307113341	9.51E-07	0.595948461	6.01E-25
FAT1	brown	0.308129847	8.72E-07	0.518938608	2.71E-18
FERMT2	brown	0.23639547	0.000188225	0.409468698	2.54E-11
FGF2	brown	0.267658273	2.18E-05	0.356797154	9.11E-09
FGFR3	brown	0.172473098	0.006807154	0.403071751	5.49E-11
FOXO1	brown	0.36401055	4.33E-09	0.516529168	4.12E-18
GATM	brown	0.275438922	1.22E-05	0.078948778	0.218193096
GJA1	brown	0.23624904	0.000190013	0.259865898	3.83E-05
GLIS3	brown	0.394035704	1.59E-10	0.582386611	1.20E-23
GNA12	brown	0.399936441	7.96E-11	0.6408407	9.94E-30
GPAM	brown	0.267301649	2.24E-05	0.399114592	8.77E-11
GPNMB	brown	0.220537295	0.000506657	0.098371585	0.124633749
GPR37L1	brown	0.265085608	2.63E-05	0.604946551	7.61E-26
GPT2	brown	0.329170635	1.34E-07	0.617205406	4.08E-27
GRAMD1C	brown	0.293533297	2.95E-06	0.324210068	2.11E-07
GSTM3	brown	0.351236589	1.60E-08	0.383428768	5.30E-10
HDAC1	brown	0.293319958	3.00E-06	0.529364909	4.26E-19
HEPACAM	brown	0.29495639	2.63E-06	0.475110711	3.36E-15
HEPH	brown	0.367057424	3.14E-09	0.411867767	1.89E-11
HSPB8	brown	0.323172921	2.32E-07	0.453836397	7.51E-14
ID4	brown	0.288733566	4.34E-06	0.293735449	2.90E-06
IL17RB	brown	0.405507131	4.10E-11	0.492630478	2.20E-16
INPPL1	brown	0.391984364	2.01E-10	0.71364826	1.94E-39
ITGA6	brown	0.334157741	8.39E-08	0.33386744	8.63E-08
ITGB5	brown	0.43736596	7.20E-13	0.681192763	9.22E-35
ITGB8	brown	0.328578799	1.41E-07	0.206839258	0.001128847
KAT2B	brown	0.334395756	8.21E-08	0.408318505	2.92E-11
KCNJ10	brown	0.38172679	6.41E-10	0.565044482	4.56E-22
KCNJ16	brown	0.313680357	5.39E-07	0.448380488	1.61E-13
KLF15	brown	0.388559064	2.97E-10	0.547265365	1.53E-20
LGALS3	brown	0.144604874	0.023588867	0.431677784	1.53E-12

LIFR	brown	0.244987235	0.000106954	0.328665844	1.40E-07
LRIG1	brown	0.296894948	2.24E-06	0.223384462	0.000426266
MAPKAPK3	brown	0.281798442	7.49E-06	0.545407203	2.18E-20
MAPRE1	brown	0.34466742	3.06E-08	0.411097546	2.08E-11
MEGF10	brown	0.314614813	4.97E-07	0.359573636	6.86E-09
MERTK	brown	0.312445851	6.01E-07	0.367823134	2.90E-09
MFGE8	brown	0.272061169	1.57E-05	0.603976023	9.54E-26
MSRB3	brown	0.43194226	1.48E-12	0.445530671	2.38E-13
MYBPC1	brown	0.367270008	3.07E-09	0.632825749	8.11E-29
MYO10	brown	0.252280902	6.51E-05	0.551426908	6.84E-21
NHS	brown	0.295599003	2.49E-06	0.415617037	1.19E-11
NPL	brown	0.317754897	3.76E-07	0.238639041	0.000162716
OGFRL1	brown	0.304925892	1.15E-06	0.207528968	0.001085499
P2RY14	brown	0.276141051	1.16E-05	0.168224782	0.008327411
PALLD	brown	0.380076645	7.69E-10	0.481123078	1.34E-15
PAPLN	brown	0.241108519	0.000138394	0.458229512	4.02E-14
PAQR8	brown	0.306292284	1.02E-06	0.609802127	2.42E-26
PDK4	brown	0.220067082	0.000521213	0.330610742	1.17E-07
PHGDH	brown	0.379694507	8.03E-10	0.526629289	6.97E-19
PLOD2	brown	0.322234158	2.52E-07	0.408097366	3.00E-11
PLSCR4	brown	0.29608002	2.40E-06	0.305509375	1.09E-06
PMP2	brown	0.185804742	0.003512794	0.140448235	0.027947238
POU3F2	brown	0.35389231	1.22E-08	0.455597221	5.85E-14
PPIC	brown	0.357492826	8.49E-09	0.271603454	1.63E-05
PRDM16	brown	0.347670194	2.28E-08	0.477111358	2.48E-15
PRDX6	brown	0.256162615	4.97E-05	0.410270375	2.30E-11
PRKD1	brown	0.326236657	1.75E-07	0.37619989	1.18E-09
PSAT1	brown	0.228004124	0.000320568	0.217904064	0.000593297
PSD2	brown	0.488762271	4.07E-16	0.487957377	4.63E-16
PTPN13	brown	0.324973941	1.97E-07	0.214413002	0.000729339
PTTG1IP	brown	0.380070159	7.70E-10	0.561521338	9.30E-22
QPRT	brown	0.359640348	6.81E-09	0.318114785	3.65E-07
RAB30	brown	0.342889175	3.64E-08	0.364920229	3.93E-09
RAB31	brown	0.387484828	3.36E-10	0.586101995	5.37E-24
RAMP1	brown	0.358351845	7.77E-09	0.528598475	4.90E-19
RANBP3L	brown	0.332131323	1.02E-07	0.365058145	3.88E-09
RFTN2	brown	0.397086773	1.11E-10	0.518045006	3.17E-18
RHOBTB3	brown	0.270860603	1.72E-05	0.365744374	3.61E-09
RHOJ	brown	0.398852835	9.05E-11	0.58574687	5.81E-24
RHPN2	brown	0.255287061	5.29E-05	0.392912147	1.81E-10

RIN2	brown	0.411658245	1.94E-11	0.397427055	1.07E-10
RXRA	brown	0.343519158	3.42E-08	0.600387879	2.19E-25
RYR3	brown	0.178710918	0.005022551	0.352976881	1.34E-08
SASH1	brown	0.405835456	3.94E-11	0.37039791	2.20E-09
SCARA3	brown	0.306235981	1.03E-06	0.383642752	5.18E-10
SFXN5	brown	0.198836418	0.001762072	0.431725576	1.52E-12
SLC14A1	brown	0.238096259	0.000168573	0.195908709	0.002065273
SLC25A18	brown	0.471786155	5.54E-15	0.609475801	2.62E-26
SLC39A12	brown	0.310336979	7.21E-07	0.142765475	0.025439404
SLC40A1	brown	0.253256857	6.09E-05	0.227626352	0.000328197
SLC44A2	brown	0.302217142	1.44E-06	0.619637306	2.25E-27
SLC9A9	brown	0.245743783	0.000101661	0.342484263	3.79E-08
SNAP23	brown	0.313472981	5.49E-07	0.466473097	1.22E-14
SNX5	brown	0.340379988	4.64E-08	0.282242377	7.23E-06
SOX2	brown	0.153587965	0.016126921	0.344133408	3.22E-08
SOX9	brown	0.303599195	1.28E-06	0.413285684	1.59E-11
SPPL2A	brown	0.234265564	0.000215855	0.187278302	0.003256199
SPR	brown	0.304092188	1.23E-06	0.302075326	1.46E-06
SSPN	brown	0.237763682	0.000172258	0.233093759	0.000232627
STK3	brown	0.237505829	0.000175167	0.325175114	1.93E-07
SYT17	brown	0.187897509	0.003153534	0.251737591	6.76E-05
TBL1X	brown	0.393371677	1.71E-10	0.684260374	3.54E-35
TCF12	brown	0.397686858	1.04E-10	0.405962914	3.88E-11
TFAP2C	brown	0.330987945	1.13E-07	0.424521117	3.87E-12
TGIF2	brown	0.287818218	4.67E-06	0.301406119	1.54E-06
TMED1	brown	0.249413947	7.93E-05	0.404019444	4.90E-11
TMEM123	brown	0.269076042	1.96E-05	0.203592957	0.001355038
TMEM47	brown	0.249890889	7.68E-05	0.383460813	5.28E-10
TNS3	brown	0.409488461	2.53E-11	0.499742314	6.96E-17
TPD52L1	brown	0.312457883	6.00E-07	0.281097329	7.90E-06
TRIM8	brown	0.325935538	1.80E-07	0.297134348	2.20E-06
TST	brown	0.162587275	0.010807544	0.398117002	9.86E-11
TXNIP	brown	0.249912981	7.66E-05	0.463866506	1.78E-14
UNG	brown	0.296247598	2.36E-06	0.474242513	3.83E-15
VCAN	brown	0.405465129	4.12E-11	0.610959915	1.84E-26
WFS1	brown	0.307804363	8.97E-07	0.613969174	8.94E-27
WWC1	brown	0.312790312	5.83E-07	0.55502571	3.38E-21
YAP1	brown	0.310963197	6.83E-07	0.401929357	6.29E-11
YES1	brown	0.350813775	1.67E-08	0.55470638	3.60E-21
ZFP36L1	brown	0.290957112	3.63E-06	0.436421802	8.17E-13

ZNF217	brown	0.350714046	1.68E-08	0.310232236	7.28E-07
ZNHIT6	brown	0.302679693	1.38E-06	0.246790844	9.47E-05
ABCA8	green	0.175062085	0.006007166	0.132227805	0.038621424
ACSL1	green	0.234296448	0.000215429	0.253569308	5.96E-05
ADA	green	0.27914128	9.19E-06	0.339699912	4.95E-08
ADARB2	green	0.222612786	0.000446797	0.356863403	9.05E-09
ADIPOR2	green	0.432345296	1.40E-12	0.51786204	3.27E-18
AIF1L	green	0.185731824	0.003525954	0.467247587	1.09E-14
ANLN	green	0.357410956	8.56E-09	0.353674397	1.25E-08
ANP32B	green	0.256947697	4.70E-05	0.499042814	7.81E-17
ARHGAP17	green	0.381354548	6.68E-10	0.630083438	1.64E-28
ARHGAP22	green	0.297798543	2.08E-06	0.382122766	6.13E-10
ARHGEF10	green	0.356852158	9.06E-09	0.584818714	7.11E-24
AZGP1	green	0.315634159	4.54E-07	0.2214329	0.000479969
BCAS1	green	0.213375355	0.000775011	0.41510059	1.27E-11
BTN2A1	green	-0.180527808	0.004588558	-0.246840553	9.44E-05
C1orf198	green	0.248618264	8.37E-05	0.359159648	7.16E-09
C21orf91	green	0.158063696	0.013248197	0.126470999	0.047995578
CAPN3	green	0.158690649	0.012883339	0.169174122	0.007963679
CCDC88A	green	0.13951868	0.029011212	0.214681835	0.000717918
CLCA4	green	0.264818319	2.68E-05	0.142475654	0.025742079
CLDN11	green	0.120851885	0.058907086	0.128081309	0.045199478
CNKSR3	green	0.369544162	2.41E-09	0.481386322	1.29E-15
COL4A5	green	0.197145665	0.001931795	0.205407307	0.001223964
CRTC3	green	0.242706362	0.000124518	0.550143619	8.77E-21
CTNNA3	green	0.225669646	0.000370487	0.135578839	0.033913796
CYP27A1	green	0.279272843	9.10E-06	0.358609404	7.57E-09
DAAM2	green	0.2018533	0.001492681	0.332277892	1.00E-07
EFHD1	green	0.309205101	7.95E-07	0.28364378	6.48E-06
EPN2	green	0.252135225	6.58E-05	0.537923148	8.89E-20
ERBB3	green	0.25379371	5.87E-05	0.373576948	1.57E-09
FAM107B	green	0.333555389	8.88E-08	0.578563256	2.73E-23
FGF1	green	0.200340591	0.00162265	0.14485859	0.023342956
FLNC	green	0.243751946	0.000116155	0.448789263	1.52E-13
FMNL2	green	0.352390289	1.42E-08	0.363757742	4.44E-09
GAB1	green	0.227573999	0.000329267	0.1647253	0.009799057
GAB2	green	0.192200858	0.002517313	0.326127387	1.77E-07
GLTP	green	0.307237344	9.41E-07	0.494661409	1.59E-16
GPIHBP1	green	0.155235247	0.015009424	0.36449359	4.11E-09
GPRC5B	green	0.321116225	2.79E-07	0.538787649	7.57E-20

HHATL	green	0.240521824	0.000143843	0.467388875	1.06E-14
HIP1	green	0.305130156	1.13E-06	0.205417522	0.00122326
HIP1R	green	0.207461914	0.001089646	0.330044961	1.23E-07
HSPA2	green	0.217821654	0.000596218	0.248808169	8.26E-05
KIF13B	green	0.282288384	7.21E-06	0.287874799	4.64E-06
LAMP2	green	0.214162182	0.000740145	0.311121498	6.74E-07
LHPP	green	0.263423732	2.96E-05	0.564277455	5.33E-22
LLGL1	green	0.262423138	3.19E-05	0.64415556	4.10E-30
LPAR1	green	0.229220543	0.000297108	0.387200719	3.47E-10
LRRC1	green	0.436282342	8.32E-13	0.470092325	7.13E-15
MAP4K4	green	0.34538308	2.85E-08	0.438646251	6.07E-13
MAP4K5	green	0.286255635	5.28E-06	0.434508028	1.05E-12
MYLIP	green	0.171404498	0.00716419	0.222405248	0.000452473
MYO9B	green	0.330244603	1.21E-07	0.539337899	6.83E-20
NASP	green	0.27191695	1.59E-05	0.478611819	1.97E-15
NDRG1	green	0.257564525	4.50E-05	0.449394471	1.40E-13
NEK7	green	0.356746933	9.16E-09	0.110268254	0.084996964
NKX2-2	green	0.294272172	2.78E-06	0.557853151	1.93E-21
NKX6-2	green	0.128040162	0.045269186	0.213958208	0.000749041
P2RX7	green	0.319358294	3.26E-07	0.382435903	5.92E-10
PAQR6	green	0.077350832	0.227683147	0.349327418	1.93E-08
PHLDB1	green	0.22432953	0.000402314	0.435370352	9.40E-13
PKP4	green	0.144451887	0.023738225	0.281399764	7.72E-06
PLP1	green	0.123142395	0.054234526	0.173970511	0.006333585
PLXDC2	green	0.387560387	3.33E-10	0.417078679	9.92E-12
PLXNB1	green	0.510720779	1.12E-17	0.605332015	6.95E-26
PPFIBP2	green	0.34011662	4.76E-08	0.617298893	3.99E-27
PTP4A2	green	0.252766486	6.30E-05	0.577579736	3.37E-23
RAPGEF3	green	0.433737738	1.17E-12	0.643768454	4.55E-30
RASGRP3	green	0.238459608	0.000164631	0.311850575	6.32E-07
RASSF2	green	0.201767913	0.001499756	0.558022366	1.87E-21
RHOU	green	0.258688019	4.16E-05	0.336663269	6.62E-08
RRBP1	green	0.302368706	1.42E-06	0.588607651	3.10E-24
RTKN	green	0.212704306	0.000805936	0.476977995	2.53E-15
S1PR5	green	0.179091528	0.004928696	0.163515165	0.01035912
SH3BP4	green	0.339641069	4.98E-08	0.348609038	2.08E-08
SLAIN1	green	0.158914351	0.01275531	0.326864969	1.65E-07
SLC44A1	green	0.249511897	7.88E-05	0.245470436	0.000103544
SLC5A11	green	0.269138486	1.95E-05	0.32853013	1.42E-07
SLC6A9	green	0.38457896	4.66E-10	0.402974081	5.55E-11

SLCO1A2	green	0.225496988	0.000374452	0.053402294	0.40529753
SNX6	green	0.215306254	0.000692026	0.584782333	7.16E-24
SOX8	green	0.186759233	0.003344583	0.506911706	2.12E-17
SREBF1	green	0.321259108	2.75E-07	0.264052904	2.83E-05
ST18	green	0.182747107	0.004104402	0.142585968	0.02562651
TF	green	0.155065425	0.015121407	0.106684176	0.095695534
TGFB3	green	0.188030347	0.003131895	0.456085463	5.46E-14
THBS2	green	0.282181683	7.27E-06	0.227194999	0.000337114
TJAP1	green	0.246274591	9.81E-05	0.604206691	9.04E-26
TMC6	green	0.361922013	5.38E-09	0.439901439	5.13E-13
TMCC3	green	0.283009514	6.81E-06	0.259127042	4.03E-05
TRIM59	green	0.293460119	2.97E-06	0.318770656	3.44E-07
UGT8	green	0.204940909	0.001256498	0.067056618	0.295832825
VAMP3	green	0.337686711	6.01E-08	0.439615364	5.33E-13
VEZF1	green	0.434923132	9.97E-13	0.566986115	3.07E-22
VRK2	green	0.260032405	3.78E-05	0.289437425	4.10E-06
WSB1	green	0.176695068	0.005546935	0.333797013	8.68E-08
ZCCHC24	green	0.370341716	2.22E-09	0.624602252	6.56E-28
ZEB2	green	0.134064201	0.035977509	0.260886987	3.56E-05
ZNF565	green	0.361270018	5.75E-09	0.570600374	1.46E-22
ABI3BP	grey	0.188784591	0.00301156	0.121674458	0.057192228
ADAMTS9	grey	0.240070715	0.000148169	0.1862151	0.00343956
AKR1C2	grey	0.35823165	7.87E-09	0.312777342	5.83E-07
ALDH1A1	grey	-0.212163013	0.000831707	0.043843079	0.494561506
ALMS1	grey	0.254137011	5.73E-05	0.229689058	0.000288507
ANKDD1A	grey	0.19258483	0.002466642	0.350197394	1.77E-08
ANKRD36B	grey	0.223855162	0.000414176	0.413575205	1.53E-11
ARMC3	grey	0.269623701	1.88E-05	0.139163687	0.029426586
ARMCX4	grey	-0.171877227	0.007004233	-0.211489094	0.000864854
ATF4	grey	0.160425762	0.011919248	0.198512493	0.001793494
C19orf18	grey	0.208121696	0.001049476	0.251631432	6.81E-05
CASP6	grey	0.19218725	0.002519126	0.23026744	0.000278208
CCL2	grey	0.242011992	0.00013038	0.034453926	0.591481301
CD109	grey	0.286626995	5.13E-06	0.072726598	0.256781098
CEP70	grey	0.223180222	0.000431613	0.25436446	5.64E-05
COL11A1	grey	0.270224064	1.80E-05	0.32834861	1.44E-07
CTBS	grey	0.272511381	1.52E-05	0.273410685	1.42E-05
CTSZ	grey	0.139491087	0.029043318	0.238731247	0.00016174
CX3CR1	grey	-0.0527003	0.411508153	-0.323111991	2.33E-07
CXCL2	grey	0.19648318	0.002002271	0.099448276	0.120542126

CXCR4	grey	0.152202502	0.017122398	0.073202275	0.253674705
DSP	grey	0.153096415	0.016474164	0.071894652	0.262276975
EDNRA	grey	0.315877434	4.45E-07	0.200582634	0.001601182
FAM114A1	grey	0.281632058	7.58E-06	0.013453975	0.834041901
FN1	grey	0.268072804	2.11E-05	0.043692647	0.49604502
FOS	grey	0.26631784	2.40E-05	0.045254927	0.480753954
FOSB	grey	-0.088122113	0.169146466	0.084891718	0.185382826
FUBP3	grey	0.094605963	0.139794088	-0.075182789	0.241020984
GADD45B	grey	0.243639033	0.000117032	0.127555146	0.046097686
HIBCH	grey	0.175599084	0.005852182	0.333947201	8.56E-08
IGFBP5	grey	0.256954601	4.70E-05	0.042801456	0.504881833
ITGB2	grey	0.261333935	3.45E-05	0.113662256	0.075773088
KCTD18	grey	0.15106487	0.01797945	0.037130646	0.56298476
MDK	grey	-0.261082393	3.51E-05	-0.127707707	0.045835725
MPL	grey	-0.088594285	0.16686494	-0.122309961	0.0558958
NEDD1	grey	0.225367323	0.000377456	0.037596168	0.558096808
NKX6-3	grey	0.206442149	0.00115452	0.036100008	0.573878859
OSMR	grey	0.260030172	3.78E-05	0.063667851	0.320968146
PART1	grey	-0.204183004	0.001311063	-0.013933781	0.828213542
PAWR	grey	0.264762187	2.69E-05	0.161922126	0.011139462
PCDH18	grey	0.338143246	5.75E-08	0.205108898	0.001244689
PDLIM1	grey	0.156481931	0.014209338	0.060711793	0.343993924
PFKFB3	grey	0.326883921	1.65E-07	0.08987288	0.160802269
PIPOX	grey	0.211580369	0.000860295	0.077546312	0.226506768
RAB20	grey	0.231410268	0.000258858	0.05405775	0.399549203
RAB3B	grey	-0.219913602	0.000526048	-0.214524774	0.00072457
RBMS3	grey	0.265676577	2.52E-05	0.081454852	0.20388446
RBPMS	grey	0.14044465	0.027951276	0.075987026	0.236010904
RGS1	grey	0.301947863	1.47E-06	0.067824204	0.290326497
RHOD	grey	0.136280995	0.032991758	0.074718608	0.243946292
RPH3A	grey	-0.345136595	2.92E-08	0.167230822	0.008723996
SCIN	grey	0.335896774	7.12E-08	0.139944859	0.028519179
SDR16C5	grey	-0.242494452	0.00012628	-0.022662528	0.724121483
SEZ6	grey	-0.312534681	5.96E-07	0.00873783	0.891764499
SGPP2	grey	-0.066503051	0.29984671	0.044046248	0.492561668
SLC16A1	grey	0.191506957	0.002611289	0.030917004	0.630112889
SLIT3	grey	-0.217139466	0.00062091	-0.136458926	0.032761524
SPP1	grey	0.26880353	2.00E-05	0.089648083	0.161856025
ST3GAL1	grey	0.252231495	6.54E-05	0.304953682	1.14E-06
SYS1	grey	0.3130067	5.72E-07	0.207258083	0.001102338

TCEA3	grey	0.230023909	0.000282502	0.305621498	1.08E-06
TFEB	grey	0.194288339	0.00225284	0.084374318	0.188086352
TFG	grey	-0.24795579	8.76E-05	-0.260725391	3.60E-05
TGFBI	grey	0.303724576	1.27E-06	0.151804262	0.017418277
TRIM22	grey	0.288773735	4.32E-06	-0.017402898	0.786371112
TRMT5	grey	-0.362180516	5.24E-09	-0.423452574	4.43E-12
USP46	grey	0.333364941	9.04E-08	0.195595373	0.002100393
ZBBX	grey	-0.232504597	0.000241511	-0.105626436	0.099049847
ZC3H7B	grey	0.138534614	0.03017515	0.099708151	0.119570383
ABCC8	red	-0.238065231	0.000168913	0.157986146	0.013293953
AK5	red	-0.218471911	0.00057353	-0.422145436	5.24E-12
ANO3	red	-0.321996948	2.58E-07	-0.307501018	9.20E-07
AP2S1	red	-0.305357277	1.10E-06	-0.24943361	7.92E-05
AP3M2	red	-0.289192257	4.18E-06	-0.356815938	9.10E-09
CAMKV	red	-0.245841028	0.000100998	-0.306130419	1.03E-06
CBLN2	red	-0.175758521	0.005806861	-0.383842198	5.06E-10
CCK	red	-0.172908387	0.006666332	-0.366581502	3.30E-09
CD200	red	-0.160230935	0.012024236	0.011585169	0.856826564
CHGA	red	-0.107331888	0.093686535	-0.15044569	0.01846143
CHN1	red	-0.38696693	3.56E-10	-0.540601646	5.40E-20
CLIP3	red	-0.449205011	1.44E-13	-0.139018656	0.029597742
DGKB	red	-0.287270001	4.87E-06	-0.32773197	1.53E-07
DLGAP2	red	-0.235235414	0.000202835	-0.188500773	0.003056341
DNAJC5G	red	-0.227204366	0.000336918	-0.183003901	0.004051464
DPF3	red	0.064609488	0.313848603	0.241152919	0.00013799
EGR3	red	-0.238067181	0.000168892	-0.28656436	5.15E-06
FAM81A	red	-0.211350667	0.000871812	-0.167581994	0.008582004
FIBP	red	-0.352684392	1.38E-08	-0.184855873	0.00368756
GDA	red	-0.213252144	0.000780605	-0.205873183	0.001192239
GFRA2	red	-0.229898903	0.00028473	0.023812503	0.710733544
GPD1L	red	-0.223210955	0.000430804	-0.148942914	0.019678206
HECW1	red	-0.18516076	0.003630567	-0.178939254	0.004966054
HHAT	red	0.299413318	1.82E-06	0.148895732	0.01971751
KALRN	red	-0.207069049	0.001114231	-0.266255649	2.41E-05
KCNC2	red	-0.193927702	0.002296641	-0.320950897	2.83E-07
KCNF1	red	-0.357272338	8.68E-09	-0.227224762	0.000336492
KCNS1	red	-0.098866441	0.122740032	0.102898765	0.108130913
KCNS2	red	-0.194972044	0.002171882	-0.168052313	0.008395054
KHDRBS3	red	-0.180368266	0.004625268	-0.142280294	0.025947846
LDB2	red	-0.341958029	3.98E-08	-0.500768384	5.88E-17

LMO4	red	-0.215710222	0.000675738	-0.140868382	0.027477414
LMTK2	red	-0.265051973	2.63E-05	-0.241319785	0.00013648
LRRC4C	red	-0.122957163	0.054600606	-0.32176405	2.63E-07
MEF2C	red	-0.148116461	0.020376586	-0.277402701	1.05E-05
MOXD1	red	-0.073545142	0.251451813	-0.091842273	0.151789821
MTX2	red	-0.324445549	2.06E-07	-0.435299546	9.49E-13
NCALD	red	-0.360212124	6.42E-09	-0.385761076	4.08E-10
NEFL	red	-0.156092171	0.014455359	0.025651974	0.689503254
NME5	red	-0.244954787	0.000107186	-0.32479899	2.00E-07
PDK3	red	-0.199693756	0.00168132	-0.12367952	0.053184488
PFDN4	red	-0.280557436	8.24E-06	-0.257529159	4.52E-05
PLCB1	red	-0.417819619	9.04E-12	-0.29670023	2.28E-06
PNMA3	red	-0.311220912	6.68E-07	-0.144312796	0.023874723
POPDC3	red	-0.177197808	0.005411754	-0.097565924	0.127765204
PPP2R2C	red	-0.396631675	1.17E-10	-0.269587564	1.89E-05
RAB27B	red	-0.122522143	0.055468403	-0.03080879	0.631311583
RAB3C	red	-0.200607657	0.001598977	-0.160020181	0.012138722
RASL10A	red	-0.178974423	0.004957403	-0.19598029	0.002057325
RIMS3	red	-0.141833979	0.026423245	-0.191804636	0.00257059
RPRML	red	-0.314171458	5.16E-07	-0.186430661	0.003401646
SERPINF1	red	-0.170903924	0.007337113	-0.218569804	0.000570184
SH3BGRL2	red	-0.188191749	0.003105784	-0.18653969	0.003382614
SH3KBP1	red	-0.112852203	0.077897281	-0.156995089	0.01389103
SHANK2	red	-0.260169665	3.74E-05	-0.190769354	0.002714668
SLC17A6	red	-0.254879577	5.44E-05	-0.315341692	4.66E-07
SLC30A3	red	-0.388132377	3.12E-10	-0.343962889	3.28E-08
SLIT2	red	-0.084876468	0.185462099	-0.124960843	0.050747606
SMAD1	red	0.194460433	0.002232208	-0.02021676	0.752870814
SORCS1	red	-0.164862137	0.009737447	0.023236017	0.717434183
TBR1	red	-0.214285787	0.000734801	-0.479643287	1.69E-15
TMEM130	red	-0.325293255	1.91E-07	-0.496844007	1.12E-16
TMEM158	red	-0.255437211	5.23E-05	-0.171716259	0.007058338
VIPR1	red	-0.294980112	2.62E-06	-0.00160906	0.980009513
VSTM2A	red	-0.061200787	0.340114324	-0.195368712	0.002126137
WNT10B	red	-0.200647324	0.001595488	-0.198974168	0.001748863
ZIC1	red	0.052593738	0.412455801	0.050766592	0.428903522
AASDHPPT	turquoise	-0.338092574	5.78E-08	-0.584121032	8.27E-24
ABCA5	turquoise	-0.247808879	8.84E-05	-0.321552591	2.68E-07
ABCC12	turquoise	-0.221884344	0.000467016	-0.297377455	2.15E-06
ABCE1	turquoise	-0.26405095	2.83E-05	-0.543083707	3.38E-20

ACOT7	turquoise	-0.318730504	3.45E-07	-0.339091596	5.25E-08
ACP1	turquoise	-0.313504765	5.47E-07	-0.80046816	6.10E-56
ACSF2	turquoise	0.365618901	3.66E-09	0.455118305	6.26E-14
ACSL3	turquoise	-0.310694437	6.99E-07	-0.593972049	9.39E-25
ACSL4	turquoise	-0.315327663	4.67E-07	-0.651751629	5.15E-31
ACTA2	turquoise	0.251158804	7.04E-05	0.168135474	0.008362377
ACTL6B	turquoise	-0.165809873	0.009320069	-0.228731487	0.000306341
ACTN2	turquoise	-0.266782801	2.32E-05	-0.43964261	5.31E-13
ACTR10	turquoise	-0.36131635	5.73E-09	-0.764624671	2.89E-48
ACTR2	turquoise	-0.210168024	0.000933389	-0.529950352	3.84E-19
ACTR6	turquoise	-0.355298662	1.06E-08	-0.424490576	3.88E-12
ACYP2	turquoise	-0.231084677	0.000264239	-0.619089838	2.57E-27
ADAM23	turquoise	-0.295881921	2.43E-06	-0.441782723	3.98E-13
ADAMTS1	turquoise	0.393907784	1.61E-10	0.261743969	3.35E-05
ADARB1	turquoise	-0.279636338	8.85E-06	-0.279847612	8.70E-06
ADCY1	turquoise	-0.356131114	9.75E-09	-0.706090905	2.72E-38
ADCY4	turquoise	0.196908913	0.001956717	0.399866556	8.03E-11
ADCY7	turquoise	0.22720159	0.000336976	0.281125561	7.89E-06
ADCYAP1	turquoise	-0.427499173	2.64E-12	-0.347533568	2.31E-08
ADORA2A	turquoise	0.291123356	3.58E-06	0.488706501	4.11E-16
AEBP1	turquoise	0.472094983	5.29E-15	0.346148978	2.65E-08
AFF1	turquoise	0.378011561	9.66E-10	0.266350169	2.40E-05
AFF2	turquoise	-0.277581625	1.04E-05	-0.398040962	9.95E-11
AFF3	turquoise	-0.196818586	0.001966302	-0.177151126	0.005424181
AFTPH	turquoise	-0.117536204	0.066254875	-0.553243106	4.80E-21
AGFG2	turquoise	0.294678602	2.69E-06	0.347415647	2.34E-08
AGK	turquoise	-0.333944423	8.56E-08	-0.669968606	2.78E-33
AHI1	turquoise	-0.237607334	0.000174016	-0.276538779	1.12E-05
AIFM3	turquoise	0.379156192	8.52E-10	0.345649652	2.78E-08
AIG1	turquoise	-0.341687497	4.09E-08	-0.537807773	9.09E-20
AKAP11	turquoise	-0.384107466	4.91E-10	-0.681680405	7.92E-35
AKAP6	turquoise	-0.274178627	1.34E-05	-0.459935093	3.15E-14
AKAP8L	turquoise	0.169250364	0.00793509	0.278829643	9.41E-06
AKIRIN2	turquoise	-0.282367766	7.16E-06	-0.723677642	5.12E-41
ALDH1L1	turquoise	0.201141442	0.001552606	0.364278671	4.21E-09
ALDH5A1	turquoise	-0.295447608	2.52E-06	-0.486033194	6.26E-16
AMN1	turquoise	-0.265487827	2.55E-05	-0.364884853	3.95E-09
AMPH	turquoise	-0.217717223	0.000599938	-0.609144891	2.83E-26
ANAPC10	turquoise	-0.236524804	0.000186658	-0.391766171	2.06E-10
ANAPC13	turquoise	-0.219662563	0.000534045	-0.495483975	1.39E-16

ANGPT1	turquoise	0.294727692	2.68E-06	0.309623332	7.67E-07
ANGPT2	turquoise	0.317637659	3.80E-07	0.344204009	3.20E-08
ANGPTL4	turquoise	0.15457665	0.015447804	0.381171653	6.82E-10
ANKMY2	turquoise	-0.208771344	0.001011257	-0.58631041	5.13E-24
ANKRD13D	turquoise	0.087650833	0.171446789	0.593707314	9.97E-25
ANKRD18A	turquoise	0.309742339	7.59E-07	0.532109576	2.59E-19
ANKRD40	turquoise	0.231124366	0.000263578	0.372893189	1.69E-09
ANKRD46	turquoise	-0.291215562	3.56E-06	-0.641917212	7.46E-30
ANKRD9	turquoise	0.206063359	0.001179508	0.29205853	3.32E-06
ANXA2	turquoise	0.337396967	6.17E-08	0.324362734	2.08E-07
ANXA6	turquoise	-0.296638408	2.29E-06	-0.340186066	4.73E-08
AP3S1	turquoise	-0.258420805	4.24E-05	-0.707545724	1.65E-38
APBA2	turquoise	-0.231337207	0.000260057	-0.392709884	1.85E-10
APLNR	turquoise	0.41559869	1.19E-11	0.277117101	1.07E-05
APOC1	turquoise	0.293826533	2.88E-06	0.291444684	3.49E-06
APOL3	turquoise	0.194269224	0.002255142	0.384607347	4.65E-10
APOLD1	turquoise	0.393741562	1.64E-10	0.229620605	0.000289749
APOO	turquoise	-0.259901967	3.82E-05	-0.7212559	1.25E-40
AQP1	turquoise	0.220864226	0.00049676	0.136058246	0.033281924
ARAP1	turquoise	0.266683934	2.34E-05	0.434910746	9.99E-13
ARAP3	turquoise	0.212079152	0.000835767	0.511666915	9.50E-18
ARF1	turquoise	-0.243915829	0.000114893	-0.334986026	7.76E-08
ARHGAP20	turquoise	-0.354703141	1.13E-08	-0.58491046	6.97E-24
ARHGAP4	turquoise	0.297496452	2.13E-06	0.387805697	3.24E-10
ARHGEF3	turquoise	-0.317078909	4.00E-07	-0.404924129	4.40E-11
ARID3B	turquoise	0.182092125	0.004242263	0.491983293	2.44E-16
ARL4A	turquoise	-0.153563804	0.016143839	-0.273157175	1.45E-05
ARL6IP1	turquoise	-0.350868058	1.66E-08	-0.694690702	1.25E-36
ARMC10	turquoise	-0.300611971	1.65E-06	-0.749425075	2.07E-45
ARMCX5	turquoise	-0.268485633	2.05E-05	-0.580695901	1.73E-23
ARPC1A	turquoise	-0.144083974	0.024100752	-0.423928115	4.17E-12
ARPC5L	turquoise	-0.274517388	1.31E-05	-0.379850252	7.89E-10
ARRB1	turquoise	0.267085081	2.27E-05	0.48964383	3.54E-16
ARRDC2	turquoise	0.135661148	0.033804591	0.534577969	1.65E-19
ARV1	turquoise	-0.182208916	0.004217379	-0.407555364	3.20E-11
ASAP3	turquoise	0.332502115	9.81E-08	0.607112431	4.58E-26
ASNS	turquoise	-0.436819128	7.75E-13	-0.479836616	1.64E-15
ASTN1	turquoise	-0.263862293	2.87E-05	-0.550183677	8.70E-21
ATAD1	turquoise	-0.307082775	9.54E-07	-0.408555851	2.84E-11
ATAD3A	turquoise	0.209140399	0.000990121	0.333381721	9.03E-08

ATCAY	turquoise	-0.210322323	0.000925134	-0.466040457	1.30E-14
ATL1	turquoise	-0.318265752	3.60E-07	-0.538099215	8.61E-20
ATP10A	turquoise	0.272651016	1.50E-05	0.441291162	4.25E-13
ATP11C	turquoise	0.29058144	3.74E-06	0.275856338	1.18E-05
ATP1A1	turquoise	-0.36558235	3.67E-09	-0.603111324	1.17E-25
ATP1B1	turquoise	-0.411421412	2.00E-11	-0.636220161	3.36E-29
ATP2A2	turquoise	-0.426556375	2.98E-12	-0.71754995	4.81E-40
ATP2B1	turquoise	-0.365549254	3.68E-09	-0.266988252	2.29E-05
ATP2B2	turquoise	-0.335874787	7.14E-08	-0.449796025	1.32E-13
ATP2B3	turquoise	-0.375833707	1.23E-09	-0.660167983	4.83E-32
ATP6AP1	turquoise	-0.329308604	1.32E-07	-0.111358413	0.081940662
ATP6AP2	turquoise	-0.299433326	1.82E-06	-0.654635348	2.31E-31
ATP6V0E1	turquoise	0.300223352	1.70E-06	0.591982361	1.47E-24
ATP6V1B2	turquoise	-0.442578572	3.57E-13	-0.568455712	2.27E-22
ATP6V1C1	turquoise	-0.286104355	5.34E-06	-0.462628136	2.13E-14
ATP6V1D	turquoise	-0.401842515	6.35E-11	-0.627382476	3.26E-28
ATP6V1E1	turquoise	-0.469989982	7.24E-15	-0.506267538	2.36E-17
ATP6V1G2	turquoise	-0.497018798	1.09E-16	-0.736664477	3.61E-43
ATP6V1H	turquoise	-0.300117503	1.72E-06	-0.640195138	1.18E-29
ATRN	turquoise	-0.3530111	1.34E-08	-0.609315143	2.72E-26
ATRNL1	turquoise	-0.222158723	0.000459303	-0.570583773	1.46E-22
AUH	turquoise	-0.281441261	7.70E-06	-0.668486409	4.31E-33
AZIN1	turquoise	-0.236611088	0.00018562	-0.721666916	1.07E-40
B3GALNT1	turquoise	-0.351433727	1.57E-08	-0.540021102	6.01E-20
B3GNT6	turquoise	-0.246878787	9.42E-05	-0.712293688	3.14E-39
B4GALT1	turquoise	0.190693491	0.002725509	0.143282329	0.024907218
B4GALT4	turquoise	0.393800113	1.63E-10	0.593635153	1.01E-24
B4GALT6	turquoise	-0.352308974	1.44E-08	-0.541292734	4.74E-20
BACE2	turquoise	0.390865999	2.29E-10	0.373029432	1.66E-09
BAG3	turquoise	0.272149234	1.56E-05	0.382194105	6.08E-10
BAIAP2	turquoise	-0.249189069	8.05E-05	-0.371305064	2.00E-09
BARD1	turquoise	0.301185287	1.57E-06	0.322109772	2.55E-07
BASP1	turquoise	-0.342285839	3.86E-08	-0.639322119	1.49E-29
BAZ1A	turquoise	0.443206731	3.28E-13	0.420632752	6.34E-12
BAZ2B	turquoise	0.281466012	7.68E-06	0.613057505	1.11E-26
BBX	turquoise	0.315465559	4.61E-07	0.410182804	2.33E-11
BCAN	turquoise	0.183486899	0.003953559	0.3529554	1.35E-08
BCAS2	turquoise	-0.177487165	0.005335297	-0.338521904	5.55E-08
BCAT1	turquoise	-0.273291743	1.43E-05	-0.521991294	1.59E-18
BCL6	turquoise	0.398944821	8.95E-11	0.58049569	1.81E-23

BDNF	turquoise	-0.383642166	5.18E-10	-0.354564633	1.14E-08
BEND6	turquoise	-0.325489718	1.88E-07	-0.553950783	4.18E-21
BEX1	turquoise	-0.433289904	1.24E-12	-0.702147048	1.04E-37
BEX2	turquoise	-0.426896998	2.85E-12	-0.692994113	2.17E-36
BGN	turquoise	0.427584197	2.61E-12	0.600078294	2.35E-25
BHLHB9	turquoise	-0.207591155	0.001081667	-0.49742246	1.02E-16
BHLHE22	turquoise	-0.147873341	0.020586078	-0.441701992	4.02E-13
BMPER	turquoise	-0.259109922	4.04E-05	-0.61017346	2.22E-26
BMPR2	turquoise	-0.168117654	0.00836937	-0.558204537	1.80E-21
BNIP3	turquoise	-0.388687034	2.93E-10	-0.461760476	2.42E-14
BPTF	turquoise	0.466707508	1.18E-14	0.354697877	1.13E-08
BRCA1	turquoise	0.245584082	0.000102757	0.293158335	3.04E-06
BRWD1	turquoise	-0.360266334	6.38E-09	-0.649103871	1.07E-30
BSCL2	turquoise	-0.432099611	1.45E-12	-0.322559685	2.45E-07
BSN	turquoise	-0.378283062	9.37E-10	-0.257321112	4.58E-05
BST2	turquoise	0.129323227	0.04313742	0.594748708	7.88E-25
BTBD10	turquoise	-0.333700247	8.76E-08	-0.722686573	7.38E-41
BTBD11	turquoise	-0.193347462	0.002368744	-0.252097156	6.60E-05
BTBD3	turquoise	-0.328868829	1.37E-07	-0.547055179	1.59E-20
BTF3L4	turquoise	-0.241081493	0.000138641	-0.638935034	1.65E-29
BZW2	turquoise	-0.187581938	0.003205483	-0.470633434	6.58E-15
C11orf58	turquoise	-0.220373821	0.000511675	-0.515858671	4.63E-18
C11orf87	turquoise	-0.227766293	0.000325351	-0.460734085	2.81E-14
C14orf132	turquoise	-0.287617664	4.74E-06	-0.311326341	6.62E-07
C14orf93	turquoise	0.292309591	3.26E-06	0.39574011	1.30E-10
C18orf32	turquoise	-0.218805366	0.000562208	-0.123926942	0.052706504
C19orf54	turquoise	0.28165708	7.57E-06	0.315588755	4.56E-07
C1orf162	turquoise	0.316484092	4.21E-07	0.427969095	2.48E-12
C1orf216	turquoise	-0.235029865	0.000205532	-0.444081259	2.91E-13
C1QTNF1	turquoise	0.352155744	1.46E-08	0.522771957	1.38E-18
C1QTNF5	turquoise	0.375125747	1.32E-09	0.216895603	0.000629964
C2CD2	turquoise	0.317566347	3.83E-07	0.67416898	7.91E-34
C3orf14	turquoise	-0.27577592	1.19E-05	-0.564195936	5.42E-22
C4orf33	turquoise	-0.185363567	0.003593097	-0.324410864	2.07E-07
C5orf22	turquoise	-0.398375894	9.57E-11	-0.639710319	1.34E-29
C7	turquoise	0.286005863	5.39E-06	0.122502391	0.055508075
CA10	turquoise	-0.424142168	4.06E-12	-0.442047538	3.84E-13
CAB39	turquoise	-0.253956449	5.80E-05	-0.609587503	2.55E-26
CAB39L	turquoise	0.416490815	1.07E-11	0.367851721	2.89E-09
CABYR	turquoise	-0.228935509	0.000302457	-0.402560474	5.83E-11

CACNA2D3	turquoise	-0.18374298	0.003902522	-0.397609118	1.05E-10
CACNB2	turquoise	-0.37317719	1.63E-09	-0.560197324	1.21E-21
CACNB4	turquoise	-0.211003597	0.000889483	-0.19305336	0.002406071
CADM4	turquoise	0.32105919	2.80E-07	0.629305728	2.00E-28
CADPS	turquoise	-0.317434909	3.87E-07	-0.727619785	1.17E-41
CADPS2	turquoise	-0.178506101	0.005073718	-0.384797946	4.55E-10
CALB1	turquoise	-0.297967514	2.05E-06	-0.231057401	0.000264695
CALD1	turquoise	0.313375874	5.54E-07	0.739620673	1.12E-43
CALM1	turquoise	-0.333001675	9.36E-08	-0.717546535	4.82E-40
CALML4	turquoise	0.270626225	1.75E-05	0.388245385	3.08E-10
CAMK2D	turquoise	-0.260286268	3.71E-05	-0.219028737	0.000554739
CAMK4	turquoise	-0.331247238	1.10E-07	-0.358803762	7.42E-09
CAMTA1	turquoise	-0.358043825	8.02E-09	-0.389914825	2.55E-10
CAP2	turquoise	-0.403090611	5.47E-11	-0.550216868	8.64E-21
CAPRIN1	turquoise	-0.420330781	6.59E-12	-0.4147225	1.33E-11
CAPRIN2	turquoise	-0.296255267	2.36E-06	-0.426062867	3.17E-12
CAPS	turquoise	0.432481982	1.38E-12	0.691645658	3.36E-36
CARHSP1	turquoise	0.210526604	0.000914308	0.435808391	8.87E-13
CARTPT	turquoise	-0.34160879	4.12E-08	-0.249922117	7.66E-05
CASC3	turquoise	0.299281649	1.84E-06	0.271060136	1.69E-05
CASP7	turquoise	0.174216842	0.006258568	0.272592008	1.51E-05
CAV1	turquoise	0.326782948	1.67E-07	0.272432735	1.53E-05
CBLB	turquoise	0.37709485	1.07E-09	0.525281349	8.87E-19
CBLN4	turquoise	-0.33299962	9.36E-08	-0.605198745	7.17E-26
CBS	turquoise	0.307215011	9.43E-07	0.568999026	2.03E-22
CCDC102A	turquoise	0.38685375	3.61E-10	0.578117762	3.01E-23
CCDC151	turquoise	0.230634018	0.000271859	0.588089983	3.47E-24
CCKBR	turquoise	-0.382533836	5.86E-10	-0.561698098	8.97E-22
CCL5	turquoise	0.370183021	2.25E-09	0.471607963	5.69E-15
CCND1	turquoise	0.183302009	0.003990782	0.395089793	1.40E-10
CCNDBP1	turquoise	-0.269270255	1.93E-05	-0.72043592	1.69E-40
CCNH	turquoise	-0.253555893	5.96E-05	-0.443339731	3.22E-13
CCT4	turquoise	-0.122574468	0.055363422	-0.184165691	0.003819575
CD151	turquoise	0.355142447	1.08E-08	0.708378604	1.23E-38
CD163	turquoise	0.279011104	9.28E-06	0.114175216	0.074452418
CD24	turquoise	-0.178103726	0.005175606	-0.305221526	1.12E-06
CD34	turquoise	0.337840086	5.92E-08	0.389191062	2.77E-10
CD44	turquoise	0.322901179	2.37E-07	0.144966107	0.023239416
CD47	turquoise	-0.296009731	2.41E-06	-0.504844272	3.00E-17
CD63	turquoise	0.282427463	7.13E-06	0.496049765	1.27E-16

CD79B	turquoise	0.249794785	7.73E-05	0.625106096	5.78E-28
CD83	turquoise	-0.262384834	3.20E-05	-0.477101396	2.49E-15
CDC40	turquoise	-0.245563294	0.000102901	-0.504490601	3.18E-17
CDC42SE2	turquoise	-0.278900953	9.36E-06	-0.369745888	2.36E-09
CDH10	turquoise	-0.271169164	1.68E-05	-0.400634993	7.33E-11
CDH12	turquoise	-0.261225	3.47E-05	-0.436841898	7.73E-13
CDH13	turquoise	-0.258751151	4.14E-05	-0.505971314	2.48E-17
CDH23	turquoise	0.297771093	2.08E-06	0.311621575	6.45E-07
CDH8	turquoise	-0.189636037	0.002880766	-0.411124211	2.07E-11
CDK5	turquoise	-0.28604284	5.37E-06	-0.413534602	1.54E-11
CDK5RAP2	turquoise	0.273546906	1.41E-05	0.6033955	1.09E-25
CDK7	turquoise	-0.208055271	0.001053457	-0.05431873	0.39727406
CDKN1A	turquoise	0.249379373	7.95E-05	0.282680729	6.99E-06
CDO1	turquoise	-0.246600146	9.60E-05	-0.386128368	3.92E-10
CDR2L	turquoise	0.125487906	0.049772555	0.575183827	5.59E-23
CEBPD	turquoise	0.323956072	2.16E-07	0.364248784	4.22E-09
CEP164	turquoise	0.230699102	0.000270746	0.583131516	1.03E-23
CEP290	turquoise	0.281239669	7.82E-06	0.621582395	1.39E-27
CFH	turquoise	0.240200716	0.00014691	0.294470806	2.73E-06
CFI	turquoise	0.265090595	2.63E-05	0.276626137	1.11E-05
CFLAR	turquoise	0.399802542	8.09E-11	0.798421707	1.84E-55
CHCHD2	turquoise	-0.348811401	2.04E-08	-0.500591349	6.06E-17
CHCHD6	turquoise	-0.241991897	0.000130553	-0.534338634	1.72E-19
CHD2	turquoise	0.206515912	0.001149711	0.214017582	0.000746442
CHDH	turquoise	0.388297826	3.06E-10	0.542288765	3.93E-20
CHGB	turquoise	-0.412165029	1.82E-11	-0.718256018	3.73E-40
CHL1	turquoise	-0.272484011	1.52E-05	-0.646832145	1.99E-30
CHM	turquoise	-0.210001015	0.0009424	-0.364764044	4.00E-09
CHMP1B	turquoise	-0.129829765	0.042319358	-0.618122736	3.26E-27
CHMP4B	turquoise	-0.383127924	5.48E-10	-0.403755574	5.06E-11
CHRM3	turquoise	-0.098515138	0.124082085	-0.354993	1.09E-08
CHST6	turquoise	0.498355648	8.73E-17	0.504529459	3.16E-17
CHSY1	turquoise	0.236624975	0.000185454	0.369514489	2.42E-09
CHURC1	turquoise	-0.086970332	0.174809279	-0.194060711	0.002280397
CIB2	turquoise	0.287514822	4.78E-06	0.379120147	8.55E-10
CIC	turquoise	0.269141304	1.95E-05	0.12276492	0.054982704
CIRBP	turquoise	-0.335056423	7.71E-08	-0.495099671	1.48E-16
CISD1	turquoise	-0.447319631	1.86E-13	-0.533444442	2.03E-19
CITED2	turquoise	-0.334718955	7.96E-08	-0.433129441	1.26E-12
CLASP2	turquoise	-0.22715261	0.000338003	-0.708713089	1.10E-38

CLCN4	turquoise	-0.225271386	0.000379692	-0.488260366	4.41E-16
CLDN15	turquoise	0.334512929	8.12E-08	0.487108749	5.29E-16
CLDN5	turquoise	0.329414394	1.31E-07	0.516192314	4.37E-18
CLIC1	turquoise	0.373550968	1.57E-09	0.26621875	2.42E-05
CLIP2	turquoise	0.227778985	0.000325094	0.251198046	7.02E-05
CLTA	turquoise	-0.394729592	1.46E-10	-0.468084548	9.60E-15
CLTC	turquoise	-0.343525152	3.42E-08	-0.50324946	3.91E-17
CLUL1	turquoise	-0.223868631	0.000413835	-0.305146587	1.12E-06
CMAS	turquoise	-0.34951019	1.90E-08	-0.680876204	1.02E-34
CMTM3	turquoise	0.179520218	0.004824875	0.403866046	4.99E-11
CNOT7	turquoise	-0.22718126	0.000337402	-0.698300355	3.78E-37
CNPY4	turquoise	0.429842088	1.94E-12	0.487519127	4.96E-16
CNRIP1	turquoise	-0.322263188	2.51E-07	-0.541653236	4.43E-20
CNTNAP5	turquoise	-0.295768521	2.46E-06	-0.260090764	3.77E-05
COBLL1	turquoise	0.336470352	6.74E-08	0.395397074	1.36E-10
COL18A1	turquoise	0.185614475	0.003547225	0.427952901	2.49E-12
COL24A1	turquoise	-0.151203518	0.017873037	-0.414635272	1.34E-11
COL5A2	turquoise	-0.128383951	0.044689515	-0.243110383	0.000121222
COPS2	turquoise	-0.190176119	0.002800495	-0.231572624	0.000256213
COPS3	turquoise	-0.304833562	1.15E-06	-0.543658275	3.03E-20
COPS4	turquoise	-0.306312803	1.02E-06	-0.682201755	6.74E-35
COPS5	turquoise	-0.265696923	2.51E-05	-0.561591862	9.17E-22
COPS8	turquoise	-0.339621054	4.99E-08	-0.519176786	2.60E-18
COX5A	turquoise	-0.321788625	2.62E-07	-0.669155428	3.54E-33
COX6B1	turquoise	-0.391401614	2.15E-10	-0.637767854	2.24E-29
COX6C	turquoise	-0.159471396	0.012441353	-0.465378946	1.43E-14
COX7A2L	turquoise	-0.355702644	1.02E-08	-0.577250088	3.61E-23
CP	turquoise	0.239536735	0.000153446	0.091904326	0.151512197
CPM	turquoise	0.230216164	0.000279107	0.337894898	5.89E-08
CPNE4	turquoise	-0.271352308	1.66E-05	-0.432753561	1.33E-12
CRB1	turquoise	0.201397607	0.001530793	0.369559016	2.41E-09
CRBN	turquoise	-0.422055165	5.30E-12	-0.633804067	6.30E-29
CREBBP	turquoise	0.288639319	4.37E-06	0.353321489	1.30E-08
CREG2	turquoise	-0.310105265	7.36E-07	-0.480075023	1.58E-15
CRH	turquoise	-0.287814638	4.67E-06	-0.380533582	7.32E-10
CRHBP	turquoise	-0.257727442	4.45E-05	-0.369643334	2.39E-09
CRISPLD2	turquoise	0.273437338	1.42E-05	0.274448175	1.31E-05
CRTAP	turquoise	0.42179146	5.48E-12	0.364117395	4.28E-09
CRYAB	turquoise	0.169993673	0.007661119	0.25809171	4.34E-05
CRYM	turquoise	-0.428220629	2.40E-12	-0.602356556	1.39E-25

CSF1R	turquoise	0.319195968	3.31E-07	0.362671454	4.98E-09
CSF3R	turquoise	0.281662846	7.56E-06	0.350207243	1.77E-08
CSK	turquoise	0.278125026	9.94E-06	0.31212531	6.17E-07
CSMD3	turquoise	-0.18517172	0.003628533	-0.385229711	4.33E-10
CSPG4	turquoise	0.249496518	7.88E-05	0.658332907	8.14E-32
CSRNP2	turquoise	-0.184806881	0.003696793	-0.67453906	7.07E-34
CSRP1	turquoise	0.290127939	3.88E-06	0.303909343	1.25E-06
CTDSP1	turquoise	0.312149843	6.16E-07	0.48964155	3.55E-16
CTDSP2	turquoise	0.432757795	1.33E-12	0.714587762	1.39E-39
CTDSPL	turquoise	0.26832893	2.07E-05	0.688704391	8.65E-36
CTNS	turquoise	0.296038114	2.40E-06	0.52357892	1.20E-18
CTSH	turquoise	0.342616923	3.74E-08	0.367134259	3.12E-09
CUEDC1	turquoise	0.335317608	7.52E-08	0.680370235	1.19E-34
CXADR	turquoise	-0.198637806	0.001781278	-0.441571083	4.09E-13
CXCL16	turquoise	0.314897656	4.85E-07	0.387842058	3.23E-10
CYP26B1	turquoise	-0.289048614	4.23E-06	-0.582588387	1.15E-23
CYP2C8	turquoise	-0.259012242	4.07E-05	-0.280918507	8.01E-06
CYP4X1	turquoise	-0.408552878	2.84E-11	-0.523979155	1.12E-18
CYYR1	turquoise	0.19693527	0.001953928	0.292927663	3.10E-06
DAB2	turquoise	0.400185802	7.73E-11	0.416651269	1.05E-11
DACH2	turquoise	-0.296019606	2.41E-06	-0.592350791	1.35E-24
DAPK1	turquoise	-0.127325061	0.046495131	-0.552872541	5.16E-21
DCK	turquoise	-0.293896114	2.86E-06	-0.752390866	5.95E-46
DCLK1	turquoise	-0.349006356	2.00E-08	-0.686789323	1.59E-35
DCN	turquoise	0.452112256	9.57E-14	0.386125443	3.92E-10
DCTN2	turquoise	-0.290153452	3.87E-06	-0.493421566	1.94E-16
DCTN3	turquoise	-0.199119052	0.001735068	-0.63165129	1.10E-28
DCTN6	turquoise	-0.288221962	4.52E-06	-0.448842539	1.51E-13
DCUN1D5	turquoise	-0.382200521	6.08E-10	-0.604809595	7.85E-26
DDAH2	turquoise	0.298451522	1.97E-06	0.398832492	9.07E-11
DDIT4	turquoise	0.425632636	3.35E-12	0.566868872	3.14E-22
DDR1	turquoise	0.089963798	0.160377551	0.17714838	0.005424912
DDR2	turquoise	0.327961614	1.50E-07	0.461252837	2.61E-14
DDX1	turquoise	-0.30799868	8.82E-07	-0.684443864	3.34E-35
DDX10	turquoise	-0.322758425	2.40E-07	-0.560946012	1.04E-21
DDX25	turquoise	-0.189897044	0.002841716	-0.435195811	9.62E-13
DHCR24	turquoise	-0.264171943	2.81E-05	-0.319831472	3.13E-07
DHRS3	turquoise	0.368555093	2.68E-09	0.480623574	1.45E-15
DHRS7	turquoise	-0.111276315	0.082167699	-0.444815065	2.63E-13
DHRS7B	turquoise	-0.316167846	4.33E-07	-0.164648337	0.009833862

DHX34	turquoise	0.242913217	0.00012282	0.569631761	1.78E-22
DHX37	turquoise	0.183759534	0.003899243	0.502315995	4.56E-17
DIRAS2	turquoise	-0.346355137	2.59E-08	-0.664502542	1.38E-32
DLC1	turquoise	0.333821526	8.66E-08	0.671369982	1.83E-33
DLD	turquoise	-0.319620896	3.19E-07	-0.650148616	8.02E-31
DLG3	turquoise	-0.242746716	0.000124185	-0.237793628	0.000171923
DLX1	turquoise	-0.219928138	0.000525588	-0.547238732	1.53E-20
DMXL2	turquoise	-0.185595141	0.003550741	-0.683683109	4.24E-35
DNAJA2	turquoise	-0.344466247	3.12E-08	-0.384083822	4.93E-10
DNAJA4	turquoise	-0.127904174	0.045500212	-0.364087242	4.29E-09
DNAJB2	turquoise	0.193361867	0.002366929	0.542706355	3.63E-20
DNAJB9	turquoise	-0.423967547	4.15E-12	-0.447829004	1.74E-13
DNAJC12	turquoise	-0.221412573	0.00048056	-0.587128923	4.29E-24
DNAJC19	turquoise	-0.281890482	7.43E-06	-0.452168144	9.49E-14
DNER	turquoise	-0.290341564	3.81E-06	-0.580049145	1.99E-23
DNM1L	turquoise	-0.258370034	4.26E-05	-0.664223616	1.50E-32
DNM3	turquoise	-0.451320106	1.07E-13	-0.673007238	1.12E-33
DOCK1	turquoise	0.363037948	4.79E-09	0.449467599	1.38E-13
DOCK3	turquoise	-0.250826182	7.20E-05	-0.768506771	4.98E-49
DOCK6	turquoise	0.319077088	3.35E-07	0.379715241	8.01E-10
DPP10	turquoise	-0.193751118	0.00231837	-0.49738776	1.02E-16
DPP8	turquoise	-0.233881027	0.000221231	-0.744569136	1.53E-44
DPP9	turquoise	0.136911333	0.032182279	0.355077919	1.09E-08
DPY30	turquoise	-0.243705981	0.000116511	-0.608012257	3.70E-26
DRG1	turquoise	-0.255341163	5.27E-05	-0.611529464	1.61E-26
DSE	turquoise	0.464369536	1.66E-14	0.207789643	0.001069519
DST	turquoise	0.400137245	7.77E-11	0.156347516	0.014293764
DSTN	turquoise	-0.363083002	4.77E-09	-0.57348427	7.99E-23
DTNA	turquoise	0.22912201	0.000298947	0.348787703	2.04E-08
DUSP1	turquoise	0.322218654	2.52E-07	0.125901684	0.049018065
DYNC1I1	turquoise	-0.391424887	2.14E-10	-0.762851487	6.39E-48
DYNLT3	turquoise	-0.34281688	3.67E-08	-0.733733664	1.13E-42
EAPP	turquoise	-0.181152565	0.004447313	-0.373163841	1.64E-09
EBNA1BP2	turquoise	-0.333990001	8.53E-08	-0.616012581	5.46E-27
ECHDC2	turquoise	0.282246436	7.23E-06	0.638124996	2.04E-29
EDN1	turquoise	0.15977492	0.012273162	0.297937611	2.06E-06
EEF1D	turquoise	0.18480818	0.003696548	0.281247938	7.81E-06
EEF1E1	turquoise	-0.31493535	4.83E-07	-0.561752621	8.87E-22
EEF2K	turquoise	0.370676148	2.14E-09	0.508169035	1.72E-17
EFCAB7	turquoise	-0.209357547	0.000977875	-0.424267109	4.00E-12

EFNA1	turquoise	0.223467092	0.00042412	0.393883519	1.62E-10
EFNB3	turquoise	-0.106867983	0.09512197	-0.209010192	0.000997531
EGR1	turquoise	-0.238005326	0.000169573	-0.269555327	1.89E-05
EHD1	turquoise	0.217124906	0.000621447	0.694542965	1.31E-36
EHD2	turquoise	0.394040457	1.59E-10	0.517238171	3.65E-18
EHD3	turquoise	-0.373903961	1.51E-09	-0.48454513	7.90E-16
EID2	turquoise	-0.345600998	2.79E-08	-0.71320871	2.27E-39
EIF1B	turquoise	-0.28854899	4.40E-06	-0.733978934	1.03E-42
EIF2B3	turquoise	-0.311500721	6.52E-07	-0.263070018	3.04E-05
EIF4A2	turquoise	-0.382881276	5.64E-10	-0.595666265	6.41E-25
EIF4E3	turquoise	-0.228898347	0.000303161	-0.687901685	1.12E-35
EIF4H	turquoise	-0.392698646	1.85E-10	-0.718270698	3.71E-40
ELAVL2	turquoise	-0.249628773	7.81E-05	-0.516251122	4.33E-18
ELAVL4	turquoise	-0.293155885	3.04E-06	-0.501561542	5.16E-17
ELF2	turquoise	0.362442386	5.10E-09	0.524925238	9.45E-19
ELK1	turquoise	0.366772472	3.24E-09	0.48100789	1.37E-15
ELMO1	turquoise	-0.33962481	4.99E-08	-0.338793467	5.40E-08
ELMOD1	turquoise	-0.28601236	5.38E-06	-0.717315263	5.23E-40
ELOVL4	turquoise	-0.363998253	4.33E-09	-0.481139923	1.34E-15
EML3	turquoise	0.326602723	1.69E-07	0.666799408	7.08E-33
EMP1	turquoise	0.295545273	2.50E-06	0.145923959	0.02233435
EMP3	turquoise	0.26181765	3.33E-05	0.0227198	0.723452697
ENAH	turquoise	0.491558105	2.61E-16	0.601702105	1.62E-25
ENC1	turquoise	-0.328074069	1.48E-07	-0.492254929	2.34E-16
ENHO	turquoise	0.096469954	0.13212223	0.396544992	1.19E-10
ENO3	turquoise	0.273750874	1.38E-05	0.526158092	7.58E-19
ENOPH1	turquoise	-0.248956091	8.18E-05	-0.603166749	1.15E-25
ENPP5	turquoise	-0.343618784	3.39E-08	-0.384372907	4.77E-10
ENTPD2	turquoise	0.27517597	1.24E-05	0.231170625	0.000262809
ENTPD3	turquoise	-0.19497837	0.002171146	-0.581272624	1.53E-23
EPAS1	turquoise	0.263616898	2.92E-05	0.266495349	2.37E-05
EPB41L3	turquoise	-0.35913256	7.18E-09	-0.764488256	3.07E-48
EPB41L4B	turquoise	-0.20777047	0.001070687	-0.39052625	2.38E-10
EPHA3	turquoise	-0.145726951	0.022517973	-0.311390089	6.58E-07
EPHA4	turquoise	-0.304346991	1.20E-06	-0.642891637	5.75E-30
EPHA5	turquoise	-0.203318218	0.001375972	-0.328958538	1.36E-07
EPM2AIP1	turquoise	-0.35500174	1.09E-08	-0.505708418	2.60E-17
EPS15	turquoise	-0.271824883	1.60E-05	-0.480202812	1.55E-15
ERC2	turquoise	-0.265425771	2.56E-05	-0.357775983	8.25E-09
ESAM	turquoise	0.304108832	1.23E-06	0.342499184	3.78E-08

ETS1	turquoise	0.343307889	3.49E-08	0.444473224	2.76E-13
ETS2	turquoise	-0.109454081	0.087338769	-0.218942892	0.000557598
EXOC6	turquoise	-0.260080307	3.77E-05	-0.505270381	2.79E-17
EXOSC9	turquoise	-0.245122846	0.000105986	-0.328869908	1.37E-07
EXTL2	turquoise	-0.238085921	0.000168686	-0.499820842	6.87E-17
FABP3	turquoise	-0.247734382	8.89E-05	-0.35978629	6.71E-09
FAM131A	turquoise	-0.275550448	1.21E-05	-0.224730502	0.000392535
FAM162A	turquoise	-0.226209279	0.000358345	-0.086749721	0.175909792
FAM174A	turquoise	-0.310884441	6.88E-07	-0.652039172	4.76E-31
FAM181B	turquoise	0.260981374	3.53E-05	0.279966509	8.63E-06
FAM49B	turquoise	-0.265874157	2.48E-05	-0.384600304	4.65E-10
FAM71E1	turquoise	-0.212262451	0.000826917	-0.241012866	0.000139269
FAM89A	turquoise	0.280811009	8.08E-06	0.181395231	0.004393516
FANCB	turquoise	0.450715407	1.16E-13	0.494125606	1.73E-16
FAR2	turquoise	-0.11560777	0.070862903	-0.393119609	1.76E-10
FBL	turquoise	0.319876126	3.12E-07	0.47575527	3.05E-15
FBLN1	turquoise	0.219142787	0.000550962	0.35404904	1.20E-08
FBXL2	turquoise	-0.321865032	2.61E-07	-0.555288945	3.21E-21
FBXL7	turquoise	0.262517812	3.17E-05	0.494045723	1.76E-16
FBXO28	turquoise	-0.260778503	3.59E-05	-0.253802953	5.86E-05
FBXO34	turquoise	-0.28438056	6.12E-06	-0.588453737	3.21E-24
FBXW4	turquoise	0.428397065	2.35E-12	0.742506815	3.53E-44
FBXW7	turquoise	-0.407499349	3.22E-11	-0.431293518	1.61E-12
FCGBP	turquoise	0.188444439	0.0030653	0.24349023	0.000118197
FCGRT	turquoise	0.263089342	3.04E-05	0.24700823	9.34E-05
FGD2	turquoise	0.178290384	0.005128115	0.432115131	1.44E-12
FGF12	turquoise	-0.425906836	3.24E-12	-0.530397216	3.54E-19
FGF14	turquoise	-0.238119393	0.000168319	-0.407350062	3.28E-11
FGF9	turquoise	-0.292514525	3.20E-06	-0.118615936	0.063783871
FGFRL1	turquoise	0.277763535	1.02E-05	0.376467801	1.14E-09
FGL1	turquoise	0.138282301	0.030479926	0.392083633	1.99E-10
FGR	turquoise	0.238326729	0.000166062	0.585227966	6.50E-24
FH	turquoise	-0.316096057	4.36E-07	-0.311971943	6.26E-07
FHL2	turquoise	-0.207225268	0.001104394	-0.382918723	5.61E-10
FIG4	turquoise	-0.232965579	0.000234533	-0.402116506	6.15E-11
FKBP1B	turquoise	-0.308163243	8.69E-07	-0.546727453	1.69E-20
FKBP5	turquoise	0.259817751	3.84E-05	0.311473652	6.53E-07
FLI1	turquoise	0.275646061	1.20E-05	0.316995467	4.03E-07
FLRT3	turquoise	-0.150837918	0.018154826	-0.343860741	3.31E-08
FLT1	turquoise	0.294464011	2.73E-06	0.076994691	0.229837489

FMNL3	turquoise	0.260565936	3.64E-05	0.266933308	2.30E-05
FOXC1	turquoise	0.376550504	1.13E-09	0.712344467	3.08E-39
FOXD1	turquoise	0.327453018	1.57E-07	0.454035571	7.30E-14
FOXJ1	turquoise	0.425370803	3.47E-12	0.452055997	9.64E-14
FOXO4	turquoise	0.356763478	9.15E-09	0.584568819	7.50E-24
FOXQ1	turquoise	0.318770566	3.44E-07	0.338570649	5.52E-08
FRMPD2	turquoise	-0.314429671	5.05E-07	-0.247117911	9.27E-05
FSIP1	turquoise	-0.088700235	0.166356163	-0.228582005	0.000309216
FSTL5	turquoise	-0.312174623	6.15E-07	-0.49643742	1.19E-16
FTO	turquoise	-0.33110814	1.12E-07	-0.632385387	9.08E-29
FXYD5	turquoise	0.315561479	4.57E-07	0.524156064	1.08E-18
FXYD6	turquoise	-0.313840304	5.32E-07	-0.467606056	1.03E-14
FYCO1	turquoise	0.438743964	5.99E-13	0.5859158	5.60E-24
FZD9	turquoise	0.392220799	1.96E-10	0.61090427	1.86E-26
G3BP2	turquoise	-0.272446425	1.53E-05	-0.556966724	2.31E-21
GABARAPL1	turquoise	-0.406650444	3.57E-11	-0.770394118	2.09E-49
GABARAPL2	turquoise	-0.247440777	9.07E-05	-0.761827495	1.01E-47
GABBR2	turquoise	-0.397624221	1.04E-10	-0.625516885	5.21E-28
GABRA1	turquoise	-0.385026661	4.43E-10	-0.59469477	7.98E-25
GABRA5	turquoise	-0.22956145	0.000290826	-0.660846791	3.98E-32
GABRG2	turquoise	-0.418213688	8.60E-12	-0.508282625	1.69E-17
GAD1	turquoise	-0.368532502	2.69E-09	-0.608749751	3.11E-26
GAD2	turquoise	-0.341404908	4.20E-08	-0.547124508	1.57E-20
GADD45G	turquoise	0.345877352	2.72E-08	0.536637476	1.13E-19
GAL3ST4	turquoise	0.310482654	7.12E-07	0.49553603	1.38E-16
GALNTL5	turquoise	-0.176084911	0.005715062	-0.232635141	0.000239516
GAS1	turquoise	0.378326837	9.33E-10	0.264816063	2.68E-05
GAS2L3	turquoise	0.375169825	1.32E-09	0.361922302	5.38E-09
GATA2	turquoise	0.235219421	0.000203044	0.136008556	0.033346948
GATAD2A	turquoise	0.259991039	3.79E-05	0.61864802	2.87E-27
GBP2	turquoise	0.051604167	0.421317208	0.190866462	0.002700849
GCNT2	turquoise	0.160279856	0.011997797	0.282363153	7.16E-06
GDAP1	turquoise	-0.3088522	8.20E-07	-0.419747498	7.09E-12
GDPD3	turquoise	0.16013643	0.012075455	0.405215951	4.24E-11
GEM	turquoise	0.482243246	1.13E-15	0.244988652	0.000106943
GFAP	turquoise	0.41220804	1.81E-11	0.354824645	1.11E-08
GGCT	turquoise	-0.319971777	3.09E-07	-0.631706072	1.08E-28
GIMAP1	turquoise	0.156407016	0.014256338	0.319037837	3.36E-07
GIMAP7	turquoise	0.242811031	0.000123656	0.466623472	1.19E-14
GIMAP8	turquoise	0.318290859	3.59E-07	0.438787779	5.95E-13

GJA4	turquoise	0.318646753	3.48E-07	0.410923729	2.12E-11
GLCE	turquoise	-0.232851141	0.000236248	-0.38315939	5.46E-10
GLMN	turquoise	-0.234115642	0.000217936	-0.345551669	2.81E-08
GLRA2	turquoise	-0.260627817	3.62E-05	-0.436978168	7.59E-13
GLRB	turquoise	-0.340647565	4.52E-08	-0.676823555	3.53E-34
GLRX	turquoise	-0.277829941	1.02E-05	-0.599432275	2.72E-25
GLRX2	turquoise	-0.176566764	0.005581916	-0.205472468	0.00121948
GLS	turquoise	-0.301414616	1.54E-06	-0.421516859	5.67E-12
GLS2	turquoise	-0.182272907	0.004203801	-0.397866714	1.02E-10
GMPR	turquoise	0.385132315	4.38E-10	0.338411447	5.60E-08
GNA11	turquoise	0.134907346	0.034815959	0.46360951	1.85E-14
GNAS	turquoise	-0.186015455	0.003475015	-0.61914174	2.54E-27
GNB5	turquoise	-0.156200968	0.014386313	-0.339697981	4.95E-08
GNG11	turquoise	0.319176228	3.32E-07	0.296487692	2.32E-06
GNG2	turquoise	-0.290814832	3.67E-06	-0.704857631	4.15E-38
GNG3	turquoise	-0.356987254	8.94E-09	-0.236633626	0.00018535
GNPDA2	turquoise	-0.240036903	0.000148498	-0.385845716	4.04E-10
GOLIM4	turquoise	0.334358169	8.24E-08	0.594333222	8.66E-25
GOLT1B	turquoise	-0.289433481	4.10E-06	-0.492260473	2.34E-16
GOT1	turquoise	-0.402962659	5.56E-11	-0.695246904	1.04E-36
GOT2	turquoise	-0.310300844	7.23E-07	-0.602455514	1.36E-25
GPM6A	turquoise	-0.331481568	1.08E-07	-0.588857913	2.93E-24
GPN1	turquoise	-0.264294407	2.78E-05	-0.450684598	1.17E-13
GPR158	turquoise	-0.283020623	6.81E-06	-0.051533571	0.421953593
GPR19	turquoise	-0.176128706	0.005702844	-0.362691233	4.97E-09
GPR22	turquoise	-0.19433695	0.002246994	-0.508874412	1.53E-17
GPR4	turquoise	0.429385384	2.06E-12	0.405353932	4.17E-11
GPR83	turquoise	-0.104188358	0.103759109	-0.139735292	0.028760229
GPR88	turquoise	-0.198314841	0.001812917	-0.480946452	1.38E-15
GPRASP1	turquoise	-0.343340584	3.48E-08	-0.365392654	3.74E-09
GPRC5C	turquoise	0.253310357	6.07E-05	0.584845598	7.07E-24
GPT	turquoise	0.361054388	5.88E-09	0.507310236	1.98E-17
GRB14	turquoise	-0.247100782	9.28E-05	-0.307332726	9.34E-07
GRIA1	turquoise	-0.181482215	0.004374375	-0.156027374	0.01449662
GRIA2	turquoise	-0.323912411	2.17E-07	-0.413423726	1.56E-11
GRIA4	turquoise	-0.266445419	2.38E-05	-0.488081068	4.54E-16
GRIN2A	turquoise	-0.379646539	8.07E-10	-0.648200299	1.37E-30
GRIN2C	turquoise	0.148243186	0.020268124	0.582965025	1.06E-23
GRM1	turquoise	-0.227711578	0.000326461	-0.326519731	1.71E-07
GRM8	turquoise	-0.150226843	0.018634452	-0.345572449	2.80E-08

GSDMD	turquoise	0.360057749	6.52E-09	0.669167131	3.53E-33
GSN	turquoise	0.245608577	0.000102588	0.232583891	0.000240297
GSTM2	turquoise	0.115681179	0.070682832	0.457127936	4.71E-14
GSTO1	turquoise	-0.176747781	0.00553262	-0.226763051	0.000346269
GYG2	turquoise	0.311206775	6.69E-07	0.284553827	6.04E-06
GYPC	turquoise	0.209230938	0.000984998	0.29277203	3.14E-06
HABP4	turquoise	-0.321388036	2.72E-07	-0.473119422	4.54E-15
HACL1	turquoise	-0.284537383	6.04E-06	-0.391637721	2.09E-10
HADHA	turquoise	0.230648903	0.000271604	0.416810975	1.03E-11
HAPLN4	turquoise	-0.110924845	0.083145404	-0.123696125	0.053152297
HAVCR2	turquoise	0.295381077	2.54E-06	0.33573227	7.23E-08
HBP1	turquoise	0.447150861	1.91E-13	0.569324086	1.90E-22
HBQ1	turquoise	-0.208531105	0.001025239	-0.196689956	0.001980026
HCCS	turquoise	-0.310232252	7.28E-07	-0.613595134	9.79E-27
HCG9	turquoise	0.060289474	0.347367043	0.625488794	5.25E-28
HCLS1	turquoise	0.187774365	0.003173714	0.059241494	0.355827371
HERC1	turquoise	-0.363454921	4.59E-09	-0.728670947	7.88E-42
HERC5	turquoise	0.253057675	6.17E-05	0.491278066	2.73E-16
HES6	turquoise	0.258755967	4.14E-05	0.562758513	7.25E-22
HEY2	turquoise	0.434959543	9.92E-13	0.681466061	8.47E-35
HEYL	turquoise	0.406181095	3.78E-11	0.419636301	7.19E-12
HIF3A	turquoise	-0.035338222	0.581994379	0.226162178	0.000359389
HINT1	turquoise	-0.333361862	9.05E-08	-0.821038436	4.29E-61
HK1	turquoise	-0.328755295	1.39E-07	-0.501532851	5.19E-17
HLA-DMA	turquoise	0.292717545	3.15E-06	0.346814302	2.48E-08
HLA-DMB	turquoise	0.285756524	5.49E-06	0.237730063	0.000172634
HLA-E	turquoise	0.332501752	9.81E-08	0.322477521	2.47E-07
HLF	turquoise	-0.150298793	0.018577412	-0.544790975	2.45E-20
HMBOX1	turquoise	0.468405112	9.16E-15	0.418277465	8.53E-12
HMGB2	turquoise	0.11036041	0.084735108	0.452334275	9.28E-14
HMGCLL1	turquoise	-0.284101246	6.26E-06	-0.614679939	7.53E-27
HMGCS1	turquoise	-0.241177284	0.000137768	-0.361673814	5.52E-09
HNRNPA0	turquoise	-0.272319783	1.54E-05	-0.67754575	2.83E-34
HOMER1	turquoise	-0.284114771	6.25E-06	-0.471270286	5.98E-15
HOMER3	turquoise	0.395871286	1.28E-10	0.443958016	2.96E-13
HOPX	turquoise	-0.44542529	2.42E-13	-0.645924585	2.54E-30
HPCAL1	turquoise	-0.483384497	9.46E-16	-0.357919801	8.13E-09
HPCAL4	turquoise	-0.308746105	8.27E-07	-0.514316993	6.04E-18
HPRT1	turquoise	-0.42616997	3.13E-12	-0.723847593	4.80E-41
HS3ST2	turquoise	-0.241928299	0.000131103	-0.231435053	0.000258453

HS6ST2	turquoise	-0.315844617	4.46E-07	-0.468147387	9.51E-15
HSP90AB1	turquoise	-0.277921504	1.01E-05	-0.445073914	2.54E-13
HSPA12A	turquoise	-0.233033775	0.000233517	-0.338073381	5.79E-08
HSPA12B	turquoise	0.015200228	0.812875458	0.258720407	4.15E-05
HSPA13	turquoise	-0.250816406	7.20E-05	-0.075280696	0.24040711
HSPA1A	turquoise	0.148884199	0.019727128	0.411676284	1.94E-11
HSPA8	turquoise	-0.217679346	0.000601292	-0.525266445	8.89E-19
HSPB1	turquoise	0.292721125	3.15E-06	0.461897035	2.37E-14
HSPB2	turquoise	0.458960633	3.62E-14	0.464470257	1.63E-14
HSPB3	turquoise	-0.403538629	5.19E-11	-0.388227785	3.09E-10
HSPH1	turquoise	-0.198363963	0.001808072	-0.249501682	7.88E-05
HVCN1	turquoise	0.162208672	0.010995384	0.254894309	5.43E-05
HYAL1	turquoise	0.297615014	2.11E-06	0.521855658	1.63E-18
ICAM2	turquoise	0.361093226	5.86E-09	0.312125828	6.17E-07
ID1	turquoise	0.229241042	0.000296727	0.219794642	0.000529823
ID3	turquoise	0.313323602	5.56E-07	0.291388388	3.51E-06
IDH3A	turquoise	-0.271160917	1.68E-05	-0.528374887	5.10E-19
IDI1	turquoise	-0.175872835	0.00577456	-0.351049067	1.63E-08
IER3	turquoise	0.231653761	0.000254901	0.257162373	4.63E-05
IFI16	turquoise	0.225613898	0.000371763	0.133677137	0.036521644
IFI27L2	turquoise	0.326151142	1.77E-07	0.416383309	1.08E-11
IFIT1	turquoise	-0.206729615	0.001135882	-0.466020382	1.30E-14
IFITM1	turquoise	0.326085845	1.78E-07	0.383067032	5.52E-10
IFITM2	turquoise	0.177064931	0.005447193	0.297710703	2.09E-06
IFITM3	turquoise	0.17327884	0.006548542	0.252488178	6.42E-05
IGDCC3	turquoise	0.138231935	0.030541079	0.605771609	6.27E-26
IGF1	turquoise	-0.208620445	0.001020019	-0.283722872	6.44E-06
IGF2BP2	turquoise	0.284525347	6.05E-06	0.498753053	8.19E-17
IGFBP7	turquoise	0.163169759	0.010524085	0.066199914	0.302059973
IGSF3	turquoise	-0.18753491	0.003213291	-0.372626867	1.73E-09
IL10RB	turquoise	0.231540722	0.000256731	0.558109633	1.84E-21
IL1R1	turquoise	0.281052534	7.93E-06	0.172538175	0.006785933
IL4R	turquoise	0.330995609	1.13E-07	0.490092356	3.30E-16
ILK	turquoise	0.452898559	8.57E-14	0.480005952	1.59E-15
IMP3	turquoise	-0.285706869	5.51E-06	-0.464661323	1.59E-14
IMPA1	turquoise	-0.205406954	0.001223988	-0.265876926	2.48E-05
IMPAD1	turquoise	-0.236011275	0.000192951	-0.398058416	9.93E-11
INA	turquoise	-0.347018823	2.43E-08	-0.59061437	1.99E-24
INHBB	turquoise	0.354289112	1.18E-08	0.498802789	8.12E-17
INPP5D	turquoise	0.264387797	2.77E-05	0.416427875	1.08E-11

INSIG2	turquoise	-0.264152577	2.81E-05	-0.475269016	3.28E-15
INTS1	turquoise	0.24465326	0.000109371	0.686321881	1.85E-35
IPO5	turquoise	-0.211487706	0.000864924	-0.620370717	1.88E-27
IRF7	turquoise	0.196749264	0.001973688	0.576080116	4.63E-23
ISCA1	turquoise	-0.373035603	1.66E-09	-0.651779493	5.11E-31
ISCU	turquoise	-0.326095259	1.77E-07	-0.717778668	4.43E-40
ISG20	turquoise	0.210503925	0.000915504	0.404500698	4.63E-11
ISYNA1	turquoise	0.246661766	9.56E-05	0.347540808	2.31E-08
ITFG1	turquoise	-0.331835676	1.04E-07	-0.825526385	2.63E-62
ITGA10	turquoise	0.479049013	1.85E-15	0.524406823	1.04E-18
ITGA5	turquoise	0.253585128	5.95E-05	0.300184209	1.71E-06
ITGA8	turquoise	0.317674733	3.79E-07	0.439111077	5.70E-13
ITGB1	turquoise	0.438351686	6.31E-13	0.557936911	1.90E-21
ITGB1BP1	turquoise	-0.281718651	7.53E-06	-0.478677662	1.95E-15
ITGB4	turquoise	0.226844799	0.000344519	0.079589004	0.21447124
ITPKB	turquoise	0.480502401	1.48E-15	0.529433321	4.21E-19
ITPR1	turquoise	-0.214174571	0.000739608	-0.640085137	1.21E-29
ITPR3	turquoise	0.30673938	9.82E-07	0.669012606	3.69E-33
ITPRIP	turquoise	0.424378562	3.94E-12	0.563527685	6.20E-22
JAG1	turquoise	0.286340759	5.24E-06	0.460723754	2.81E-14
JAZF1	turquoise	-0.228106268	0.000318533	-0.684937601	2.86E-35
KANK1	turquoise	0.221434918	0.000479911	0.29794888	2.05E-06
KANK2	turquoise	0.434232501	1.09E-12	0.355649528	1.02E-08
KCNA1	turquoise	-0.172601655	0.00676529	-0.175261967	0.005949054
KCNAB1	turquoise	-0.420731594	6.26E-12	-0.49772388	9.68E-17
KCNB2	turquoise	-0.264087629	2.83E-05	-0.35181043	1.51E-08
KCND2	turquoise	-0.337006489	6.41E-08	-0.353860776	1.23E-08
KCNE4	turquoise	0.389625194	2.63E-10	0.265409105	2.57E-05
KCNIP4	turquoise	-0.282083231	7.32E-06	-0.578801435	2.60E-23
KCNJ8	turquoise	0.322671698	2.42E-07	0.361405586	5.67E-09
KCNK1	turquoise	-0.273321378	1.43E-05	-0.51820101	3.08E-18
KCNN3	turquoise	0.351563073	1.55E-08	0.491968578	2.45E-16
KCNV1	turquoise	-0.355156372	1.08E-08	-0.543406603	3.18E-20
KCTD11	turquoise	0.137504345	0.031436238	0.321297843	2.74E-07
KIAA0513	turquoise	-0.430810446	1.71E-12	-0.603716284	1.01E-25
KIF1C	turquoise	0.288079808	4.57E-06	0.493493819	1.92E-16
KIF3A	turquoise	-0.288810336	4.31E-06	-0.259130473	4.03E-05
KIF5B	turquoise	0.373745581	1.54E-09	0.281608756	7.60E-06
KIF6	turquoise	0.215307133	0.00069199	0.168190466	0.008340831
KIFAP3	turquoise	-0.418260305	8.55E-12	-0.555974399	2.81E-21

KIT	turquoise	-0.224274215	0.000403681	-0.349689653	1.87E-08
KITLG	turquoise	-0.205711299	0.001203176	-0.377322946	1.04E-09
KLC1	turquoise	-0.461932724	2.36E-14	-0.462180113	2.28E-14
KLF11	turquoise	0.189335812	0.002926285	0.466967349	1.13E-14
KLF2	turquoise	0.373788629	1.53E-09	0.529597039	4.09E-19
KLF4	turquoise	0.264919715	2.66E-05	0.177458605	0.0053428
KLF6	turquoise	0.321317983	2.74E-07	0.385392804	4.25E-10
KLHDC2	turquoise	-0.1187091	0.063574257	-0.308859433	8.19E-07
KLHL5	turquoise	0.248790649	8.27E-05	0.25570797	5.13E-05
KLHL7	turquoise	-0.110873739	0.083288346	-0.59699525	4.74E-25
KLK7	turquoise	-0.265707908	2.51E-05	-0.304617717	1.18E-06
KPNA1	turquoise	-0.339676445	4.96E-08	-0.650913311	6.50E-31
KRCC1	turquoise	0.3263987	1.73E-07	0.69784509	4.40E-37
KTN1	turquoise	0.290459399	3.78E-06	0.269820792	1.86E-05
LAMA5	turquoise	0.312610828	5.92E-07	0.615801869	5.74E-27
LAMC1	turquoise	0.403116246	5.46E-11	0.555408199	3.14E-21
LANCL1	turquoise	-0.244926448	0.00010739	-0.549518434	9.89E-21
LANCL2	turquoise	-0.240109086	0.000147796	-0.417933029	8.91E-12
LAPTM4B	turquoise	-0.188462613	0.003062407	-0.527353401	6.12E-19
LAT	turquoise	0.199206288	0.001726809	0.584718908	7.26E-24
LATS2	turquoise	0.215173392	0.000697462	0.261231551	3.47E-05
LCAT	turquoise	0.240150439	0.000147395	0.480991461	1.37E-15
LCP1	turquoise	0.317231535	3.94E-07	0.262503502	3.17E-05
LDHA	turquoise	-0.311457239	6.54E-07	-0.74474239	1.42E-44
LDLRAP1	turquoise	0.182500629	0.004155799	0.23449233	0.000212743
LEAP2	turquoise	0.295432903	2.53E-06	0.325912678	1.80E-07
LEF1	turquoise	0.381349516	6.68E-10	0.462852705	2.07E-14
LEPR	turquoise	0.154790654	0.015304144	0.341851513	4.03E-08
LFNG	turquoise	0.142172825	0.026061641	0.515489132	4.93E-18
LIME1	turquoise	0.200273162	0.001628677	0.720151026	1.87E-40
LIMS2	turquoise	0.13868618	0.029993323	0.452252396	9.38E-14
LIN7B	turquoise	-0.317663487	3.80E-07	-0.488147478	4.49E-16
LMBR1	turquoise	-0.228967383	0.000301855	-0.66576182	9.59E-33
LNX1	turquoise	-0.248022658	8.72E-05	-0.47513966	3.35E-15
LONRF2	turquoise	-0.280467551	8.30E-06	-0.363900887	4.38E-09
LPAR4	turquoise	0.216932023	0.000628604	0.302693556	1.38E-06
LPP	turquoise	0.392526167	1.89E-10	0.618675088	2.85E-27
LRFN5	turquoise	-0.246788119	9.48E-05	-0.501186133	5.49E-17
LRMP	turquoise	-0.08316238	0.194531939	-0.297473436	2.14E-06
LRP10	turquoise	0.330081603	1.23E-07	0.426863705	2.86E-12

LRP11	turquoise	-0.274660662	1.29E-05	-0.722957033	6.68E-41
LRPAP1	turquoise	-0.242561628	0.000125719	-0.481959941	1.18E-15
LRPPRC	turquoise	-0.287947192	4.62E-06	-0.508175771	1.72E-17
LRRC32	turquoise	0.389468257	2.68E-10	0.577379789	3.52E-23
LRRC49	turquoise	-0.389955318	2.54E-10	-0.440410314	4.79E-13
LRRC1	turquoise	0.229701503	0.000288282	0.319792395	3.14E-07
LRRTM1	turquoise	-0.23060598	0.00027234	-0.463807733	1.80E-14
LSM14A	turquoise	0.344636131	3.07E-08	0.549571041	9.79E-21
LSS	turquoise	0.232784894	0.000237246	0.321754327	2.63E-07
LYL1	turquoise	0.29139297	3.51E-06	0.674285151	7.63E-34
LZTFL1	turquoise	-0.314756775	4.91E-07	-0.537345413	9.90E-20
LZTS2	turquoise	0.11464444	0.073260783	0.301543268	1.52E-06
MACF1	turquoise	0.270270629	1.80E-05	0.418171538	8.65E-12
MAD2L1BP	turquoise	-0.252735619	6.31E-05	-0.366424435	3.36E-09
MAGED1	turquoise	-0.323702159	2.21E-07	-0.644900053	3.35E-30
MAGEE1	turquoise	-0.380187636	7.60E-10	-0.550696181	7.88E-21
MAGEH1	turquoise	-0.311249857	6.66E-07	-0.56679982	3.19E-22
MAK16	turquoise	-0.168178154	0.008345651	-0.325308153	1.91E-07
MAL2	turquoise	-0.349279277	1.94E-08	-0.664864061	1.25E-32
MAN1C1	turquoise	-0.115767606	0.070471304	-0.441948868	3.89E-13
MAP1B	turquoise	-0.213756732	0.000757926	-0.505732189	2.59E-17
MAP1LC3B	turquoise	-0.209393155	0.00097588	-0.501885829	4.90E-17
MAP2	turquoise	-0.175289114	0.0059412	-0.199920026	0.001660579
MAP2K1	turquoise	-0.296762254	2.26E-06	-0.751225517	9.73E-46
MAP2K4	turquoise	-0.259068797	4.05E-05	-0.69488275	1.17E-36
MAP3K11	turquoise	0.12005363	0.060611589	0.406161444	3.79E-11
MAP3K5	turquoise	0.344260117	3.18E-08	0.543520096	3.11E-20
MAP3K6	turquoise	0.376322553	1.16E-09	0.643306419	5.15E-30
MAP4	turquoise	-0.254364768	5.64E-05	-0.613580896	9.82E-27
MAPK1	turquoise	-0.249504043	7.88E-05	-0.338362603	5.63E-08
MAPK10	turquoise	-0.363726505	4.46E-09	-0.663482767	1.86E-32
MAPK6	turquoise	-0.30054735	1.66E-06	-0.64371064	4.62E-30
MAPK9	turquoise	-0.329604144	1.28E-07	-0.720348135	1.74E-40
MAPKAPK2	turquoise	0.323176768	2.31E-07	0.495717217	1.34E-16
MAT2B	turquoise	-0.375853967	1.22E-09	-0.563689523	6.00E-22
MATR3	turquoise	-0.381313818	6.71E-10	-0.53521223	1.47E-19
MCF2	turquoise	-0.235202006	0.000203271	-0.308188048	8.68E-07
MCL1	turquoise	0.396595355	1.18E-10	0.634561538	5.17E-29
MCM7	turquoise	0.471822701	5.51E-15	0.648965707	1.11E-30
MDH2	turquoise	-0.395302539	1.37E-10	-0.650893829	6.53E-31

MDM2	turquoise	0.284866091	5.89E-06	0.480329673	1.52E-15
ME1	turquoise	-0.237684148	0.00017315	-0.499608485	7.12E-17
ME3	turquoise	-0.178789148	0.00500313	-0.457512126	4.46E-14
MED10	turquoise	-0.28571898	5.51E-06	-0.38282931	5.67E-10
MED16	turquoise	0.309910818	7.48E-07	0.480848322	1.40E-15
MED31	turquoise	-0.182751329	0.004103526	-0.322474605	2.47E-07
MET	turquoise	-0.290063641	3.90E-06	-0.332694118	9.63E-08
METAP1	turquoise	-0.303016079	1.35E-06	-0.653477693	3.19E-31
METTTL7B	turquoise	0.263513765	2.95E-05	0.284814852	5.91E-06
MFNG	turquoise	0.356966751	8.96E-09	0.466563863	1.20E-14
MFSD6	turquoise	-0.265018326	2.64E-05	-0.504566202	3.14E-17
MGAT1	turquoise	0.287152716	4.92E-06	0.511487718	9.80E-18
MGST3	turquoise	-0.298036703	2.04E-06	-0.549328451	1.03E-20
MICALL2	turquoise	0.225091397	0.000383922	0.293348168	2.99E-06
MICB	turquoise	0.202265427	0.001458963	0.424569572	3.84E-12
MID1IP1	turquoise	0.457885903	4.23E-14	0.615444042	6.26E-27
MKKS	turquoise	-0.273273159	1.44E-05	-0.215600688	0.000680119
MKMK2	turquoise	0.262626892	3.14E-05	0.699395366	2.63E-37
MLEC	turquoise	0.304141931	1.22E-06	0.151866265	0.01737192
MLKL	turquoise	0.388036593	3.16E-10	0.532473643	2.43E-19
MLLT6	turquoise	0.43326823	1.24E-12	0.740928361	6.65E-44
MMADHC	turquoise	-0.248380317	8.51E-05	-0.501770368	4.99E-17
MMD	turquoise	-0.279154108	9.18E-06	-0.578235801	2.93E-23
MNAT1	turquoise	-0.111299959	0.08210226	-0.178618159	0.005045666
MOAP1	turquoise	-0.356682553	9.22E-09	-0.749138627	2.33E-45
MORF4L2	turquoise	-0.293080041	3.06E-06	-0.799369117	1.11E-55
MOV10	turquoise	0.32635587	1.73E-07	0.345863346	2.72E-08
MPP1	turquoise	-0.264610505	2.72E-05	-0.512525974	8.21E-18
MPST	turquoise	0.237914323	0.000170579	0.47269346	4.84E-15
MPZL2	turquoise	0.210997859	0.000889778	0.22611736	0.000360386
MRAP2	turquoise	-0.183058763	0.004040234	-0.368132288	2.80E-09
MRPL1	turquoise	-0.355573738	1.03E-08	-0.430420723	1.80E-12
MRPL15	turquoise	-0.355303278	1.06E-08	-0.292665547	3.16E-06
MRPL21	turquoise	-0.320600655	2.92E-07	-0.476081778	2.90E-15
MRPL3	turquoise	-0.256203611	4.96E-05	-0.711782111	3.76E-39
MRPL32	turquoise	-0.251491145	6.88E-05	-0.357445285	8.53E-09
MRPL40	turquoise	-0.209643917	0.000961938	-0.344809704	3.02E-08
MRPL47	turquoise	-0.202506032	0.001439602	-0.225786803	0.000367819
MRPS21	turquoise	-0.251405908	6.92E-05	-0.401292505	6.78E-11
MRPS30	turquoise	-0.450618055	1.18E-13	-0.721614699	1.10E-40

MRVI1	turquoise	0.281225414	7.83E-06	0.288509171	4.42E-06
MS4A14	turquoise	0.371479282	1.96E-09	0.268173739	2.10E-05
MS4A6A	turquoise	0.287215731	4.89E-06	0.170231383	0.007575299
MSH2	turquoise	-0.213620234	0.000764	-0.409139397	2.64E-11
MSI2	turquoise	0.143852333	0.024331442	0.358170862	7.92E-09
MSN	turquoise	0.22695428	0.000342188	0.256785461	4.76E-05
MSRB2	turquoise	0.174005934	0.006322748	0.566954274	3.09E-22
MT1E	turquoise	0.347547673	2.31E-08	0.484338345	8.16E-16
MT1F	turquoise	0.372828974	1.70E-09	0.408239742	2.95E-11
MT1G	turquoise	0.29707535	2.21E-06	0.371216347	2.02E-09
MT1H	turquoise	0.300485857	1.66E-06	0.367968116	2.85E-09
MT1M	turquoise	0.322841173	2.39E-07	0.417576661	9.32E-12
MT1X	turquoise	0.207798317	0.001068991	0.353090354	1.33E-08
MT2A	turquoise	0.347629296	2.29E-08	0.403327712	5.32E-11
MTCH1	turquoise	-0.316579237	4.18E-07	-0.580049552	1.99E-23
MUC1	turquoise	0.372235212	1.81E-09	0.661364938	3.43E-32
MYH10	turquoise	-0.276749351	1.10E-05	-0.355038093	1.09E-08
MYH11	turquoise	0.296952062	2.23E-06	0.255296055	5.28E-05
MYOF	turquoise	0.247749526	8.88E-05	0.207916541	0.001061818
MYOM1	turquoise	0.295224931	2.57E-06	0.526592766	7.02E-19
MYOT	turquoise	0.400354868	7.58E-11	0.486280688	6.02E-16
MYT1L	turquoise	-0.377724071	9.97E-10	-0.665571776	1.01E-32
NACC2	turquoise	0.435663485	9.04E-13	0.677264348	3.09E-34
NAP1L2	turquoise	-0.349173502	1.96E-08	-0.614332354	8.19E-27
NAP1L3	turquoise	-0.354412361	1.16E-08	-0.711677689	3.90E-39
NAP1L5	turquoise	-0.462804564	2.08E-14	-0.717740351	4.49E-40
NAPB	turquoise	-0.37802219	9.65E-10	-0.573403846	8.13E-23
NAPEPLD	turquoise	-0.253637704	5.93E-05	-0.370622599	2.15E-09
NAV2	turquoise	0.370673867	2.14E-09	0.48970275	3.51E-16
NAV3	turquoise	-0.318865888	3.41E-07	-0.580324198	1.88E-23
NBEA	turquoise	-0.316584967	4.18E-07	-0.663015254	2.13E-32
NBEAL2	turquoise	0.30754698	9.17E-07	0.497786473	9.58E-17
NCAM2	turquoise	-0.191817016	0.00256891	-0.472044376	5.33E-15
NCAPD2	turquoise	0.318017014	3.68E-07	0.411594587	1.96E-11
NCKAP1	turquoise	-0.208473562	0.001028614	-0.774612058	2.92E-50
NCOA7	turquoise	-0.331494494	1.08E-07	-0.696524005	6.82E-37
NDE1	turquoise	0.255819405	5.09E-05	0.656641659	1.31E-31
NDEL1	turquoise	-0.375138532	1.32E-09	-0.424099189	4.08E-12
NDFIP1	turquoise	-0.368967969	2.57E-09	-0.665346714	1.08E-32
NDFIP2	turquoise	-0.350410933	1.74E-08	-0.636922093	2.80E-29

NDN	turquoise	-0.187192704	0.003270627	-0.411863746	1.89E-11
NDRG3	turquoise	-0.283265309	6.68E-06	-0.560350675	1.18E-21
NDRG4	turquoise	-0.417820454	9.04E-12	-0.70819413	1.32E-38
NDUFA1	turquoise	-0.223858477	0.000414092	-0.519167279	2.61E-18
NDUFA12	turquoise	-0.207404058	0.001093235	-0.537813411	9.08E-20
NDUFA4	turquoise	-0.245413713	0.000103939	-0.629411875	1.95E-28
NDUFA7	turquoise	-0.112753541	0.07815926	-0.079692619	0.213873195
NDUFA9	turquoise	-0.254536441	5.57E-05	-0.357023537	8.91E-09
NDUFAB1	turquoise	-0.409375785	2.57E-11	-0.621505768	1.42E-27
NDUFB5	turquoise	-0.37387278	1.52E-09	-0.518778178	2.79E-18
NDUFB6	turquoise	-0.275083515	1.25E-05	-0.619331707	2.42E-27
NDUFS5	turquoise	-0.152966938	0.016566709	-0.409047999	2.67E-11
NECAB1	turquoise	-0.207336357	0.001097448	-0.500092793	6.57E-17
NECAP1	turquoise	-0.337666534	6.02E-08	-0.67764334	2.75E-34
NECAP2	turquoise	0.337959447	5.85E-08	0.50204774	4.77E-17
NEDD4L	turquoise	-0.279669471	8.82E-06	-0.224118059	0.000407563
NEDD8	turquoise	-0.370893539	2.09E-09	-0.381998451	6.22E-10
NEFH	turquoise	-0.109722952	0.08655976	-0.301714048	1.50E-06
NEFM	turquoise	-0.358267926	7.84E-09	-0.653355891	3.30E-31
NEK6	turquoise	0.332374898	9.92E-08	0.58740429	4.04E-24
NELL1	turquoise	-0.282101491	7.31E-06	-0.623175578	9.37E-28
NELL2	turquoise	-0.308741879	8.27E-07	-0.682867929	5.47E-35
NES	turquoise	0.256612036	4.82E-05	0.360949459	5.95E-09
NET1	turquoise	0.18136401	0.004400404	0.329731259	1.27E-07
NETO2	turquoise	-0.271729499	1.61E-05	-0.431005986	1.67E-12
NEU4	turquoise	0.100951671	0.115004695	0.430973091	1.68E-12
NEUROD6	turquoise	-0.322756612	2.40E-07	-0.494555933	1.62E-16
NFATC2IP	turquoise	0.223226559	0.000430394	0.715314334	1.07E-39
NFIA	turquoise	0.364778485	3.99E-09	0.398769929	9.13E-11
NFIB	turquoise	0.381767441	6.38E-10	0.421867672	5.42E-12
NFKB1	turquoise	0.477794705	2.24E-15	0.582113097	1.28E-23
NFKBIA	turquoise	0.479714683	1.67E-15	0.604886612	7.71E-26
NFKBIZ	turquoise	0.350188317	1.77E-08	0.485020348	7.33E-16
NGRN	turquoise	-0.307847414	8.93E-07	-0.519387988	2.51E-18
NIF3L1	turquoise	-0.290622374	3.73E-06	-0.557675945	2.00E-21
NINJ1	turquoise	0.494712217	1.58E-16	0.50372225	3.61E-17
NIPBL	turquoise	0.487112266	5.28E-16	0.734950845	7.05E-43
NKIRAS1	turquoise	-0.285214236	5.73E-06	-0.516532834	4.12E-18
NKRF	turquoise	-0.18330312	0.003990557	-0.277340153	1.05E-05
NLK	turquoise	-0.324555512	2.04E-07	-0.323854536	2.18E-07

NME1	turquoise	-0.367217013	3.09E-09	-0.657527306	1.02E-31
NME3	turquoise	0.280279899	8.42E-06	0.588184634	3.40E-24
NME4	turquoise	0.119601053	0.061595879	0.278522627	9.64E-06
NME7	turquoise	0.009382903	0.883828401	-0.319350616	3.27E-07
NMNAT2	turquoise	-0.423208139	4.57E-12	-0.596079872	5.84E-25
NNAT	turquoise	-0.292786862	3.13E-06	-0.386083366	3.94E-10
NNT	turquoise	-0.259326782	3.98E-05	-0.635782828	3.76E-29
NOSTRIN	turquoise	0.237524492	0.000174955	0.327446838	1.57E-07
NOTCH2	turquoise	0.292212538	3.28E-06	0.06386778	0.319447813
NOTCH4	turquoise	0.369444295	2.44E-09	0.479672912	1.68E-15
NOVA1	turquoise	-0.380478829	7.36E-10	-0.494669415	1.59E-16
NPAS3	turquoise	0.206668337	0.001139832	0.366588252	3.30E-09
NPTN	turquoise	-0.387242695	3.45E-10	-0.527511328	5.95E-19
NPTX1	turquoise	-0.30712428	9.50E-07	-0.258939267	4.09E-05
NPTX2	turquoise	-0.440954457	4.45E-13	-0.478763198	1.93E-15
NPY	turquoise	-0.17357992	0.006454184	-0.493915398	1.79E-16
NR2F1	turquoise	0.26203409	3.28E-05	0.615756592	5.80E-27
NRCAM	turquoise	-0.219930059	0.000525528	-0.211433023	0.000867666
NRN1	turquoise	-0.479492217	1.72E-15	-0.428780126	2.23E-12
NRXN1	turquoise	-0.359652211	6.80E-09	-0.606971211	4.73E-26
NRXN3	turquoise	-0.383808933	5.08E-10	-0.295040959	2.61E-06
NSF	turquoise	-0.394811206	1.45E-10	-0.612306248	1.33E-26
NSL1	turquoise	0.25104941	7.09E-05	0.503046843	4.04E-17
NT5DC3	turquoise	-0.386132009	3.92E-10	-0.510652732	1.13E-17
NTNG1	turquoise	-0.205845794	0.001194083	-0.431906778	1.48E-12
NUAK1	turquoise	-0.359259323	7.08E-09	-0.354326642	1.17E-08
NUDT10	turquoise	-0.235269483	0.000202391	-0.216071245	0.000661481
NUDT11	turquoise	-0.32566106	1.85E-07	-0.625265879	5.55E-28
NUDT21	turquoise	-0.330967167	1.13E-07	-0.66002854	5.03E-32
NUDT9	turquoise	-0.085587238	0.181793743	-0.393105754	1.77E-10
NUPR1	turquoise	0.358310319	7.81E-09	0.461025457	2.69E-14
NXN	turquoise	0.277156916	1.07E-05	0.485330534	6.99E-16
OAT	turquoise	-0.160333611	0.011968805	-0.668212722	4.67E-33
OCA2	turquoise	-0.109448171	0.087355956	-0.358611883	7.57E-09
OCIAD2	turquoise	-0.235855709	0.000194896	-0.402954138	5.56E-11
OLA1	turquoise	-0.320564878	2.93E-07	-0.466320754	1.25E-14
OLFM1	turquoise	-0.417377284	9.55E-12	-0.483492461	9.30E-16
OLFM3	turquoise	-0.249180381	8.06E-05	-0.613879898	9.14E-27
OLFM4	turquoise	-0.222579075	0.000447715	-0.13586212	0.033539202
OLIG1	turquoise	0.27420138	1.34E-05	0.455456359	5.97E-14

OPA1	turquoise	-0.314047249	5.22E-07	-0.688028095	1.07E-35
OPCML	turquoise	-0.352240254	1.45E-08	-0.466266054	1.26E-14
OPN3	turquoise	-0.229981299	0.00028326	-0.630285244	1.56E-28
OPTN	turquoise	-0.207457558	0.001089915	-0.554697014	3.61E-21
OR2L13	turquoise	-0.243865527	0.000115279	-0.339920754	4.85E-08
OSBPL10	turquoise	-0.257942939	4.39E-05	-0.563868463	5.79E-22
OSTF1	turquoise	-0.161602349	0.011302213	-0.530462428	3.50E-19
OTOS	turquoise	0.284458293	6.08E-06	0.230845284	0.000268262
OXCT1	turquoise	-0.169258793	0.007931935	-0.57189375	1.11E-22
OXR1	turquoise	-0.282966968	6.83E-06	-0.637492239	2.41E-29
PAC SIN1	turquoise	-0.357412648	8.56E-09	-0.270015706	1.83E-05
PAC SIN3	turquoise	0.295948342	2.42E-06	0.343424824	3.46E-08
PAIP2	turquoise	-0.234784765	0.000208791	-0.77805769	5.66E-51
PAK1	turquoise	-0.425181094	3.55E-12	-0.630813811	1.36E-28
PAM	turquoise	-0.22918496	0.000297771	-0.525249435	8.92E-19
PAPSS1	turquoise	-0.213855028	0.000753579	-0.147690891	0.020744516
PARP10	turquoise	0.332386899	9.91E-08	0.75159249	8.34E-46
PARP14	turquoise	0.335881618	7.13E-08	0.42338296	4.47E-12
PARP4	turquoise	0.364454383	4.13E-09	0.35133223	1.58E-08
PARP9	turquoise	0.324252293	2.10E-07	0.288553661	4.40E-06
PARVG	turquoise	0.28760128	4.75E-06	0.267731056	2.17E-05
PAX6	turquoise	0.251645896	6.80E-05	0.341506726	4.16E-08
PBXIP1	turquoise	0.196509186	0.00199946	0.29646867	2.32E-06
PCDH17	turquoise	0.210888435	0.000895419	0.577811519	3.21E-23
PCDH8	turquoise	-0.237653936	0.00017349	-0.52403392	1.11E-18
PCLO	turquoise	-0.33599712	7.05E-08	-0.580373651	1.86E-23
PCMT1	turquoise	-0.364694565	4.03E-09	-0.582036365	1.30E-23
PCP4	turquoise	-0.359346	7.02E-09	-0.174425868	0.006195536
PCSK1	turquoise	-0.465003042	1.51E-14	-0.480483354	1.48E-15
PCSK2	turquoise	-0.24017681	0.000147141	-0.403634288	5.13E-11
PCSK5	turquoise	0.250694117	7.26E-05	0.423012536	4.69E-12
PCYOX1L	turquoise	-0.419597346	7.23E-12	-0.484622428	7.80E-16
PDCD6IP	turquoise	-0.125837096	0.049135204	-0.440964053	4.44E-13
PDE5A	turquoise	0.366116192	3.47E-09	0.499615776	7.11E-17
PDE9A	turquoise	0.329587962	1.29E-07	0.68675427	1.61E-35
PDGFRB	turquoise	0.484899438	7.47E-16	0.617125049	4.16E-27
PDHB	turquoise	-0.349816591	1.84E-08	-0.603439174	1.08E-25
PDHX	turquoise	-0.285598861	5.56E-06	-0.676893441	3.46E-34
PDPK1	turquoise	-0.231904051	0.000250892	-0.448653472	1.55E-13
PDPN	turquoise	0.277443055	1.05E-05	0.38011673	7.66E-10

PECAM1	turquoise	0.232140928	0.000247152	0.137737945	0.031146431
PFKFB4	turquoise	0.344433802	3.13E-08	0.554702804	3.60E-21
PFKM	turquoise	-0.241323015	0.000136451	-0.430022146	1.90E-12
PFN2	turquoise	-0.458569321	3.83E-14	-0.777967475	5.91E-51
PGBD5	turquoise	-0.214362348	0.000731509	-0.491127131	2.80E-16
PGRMC1	turquoise	-0.356259313	9.63E-09	-0.69177251	3.22E-36
PHF14	turquoise	-0.321900868	2.60E-07	-0.763742151	4.29E-48
PHF19	turquoise	0.367603728	2.96E-09	0.577489466	3.43E-23
PHF2	turquoise	0.263815828	2.88E-05	0.497556746	9.95E-17
PHKA2	turquoise	0.241476421	0.000135076	0.72481414	3.35E-41
PHYHD1	turquoise	0.323728989	2.20E-07	0.239557377	0.000153239
PI16	turquoise	0.242255976	0.000128291	0.423257261	4.55E-12
PID1	turquoise	-0.175784924	0.005799386	-0.618699833	2.83E-27
PIGO	turquoise	0.299186006	1.85E-06	0.314190203	5.16E-07
PIGQ	turquoise	0.157410469	0.013637972	0.590176063	2.19E-24
PIK3CB	turquoise	-0.195368681	0.00212614	-0.62588806	4.75E-28
PIM1	turquoise	0.200901756	0.001573274	0.263813536	2.88E-05
PITPNB	turquoise	-0.337565488	6.08E-08	-0.509043605	1.48E-17
PJA1	turquoise	-0.347062876	2.42E-08	-0.640578156	1.07E-29
PJA2	turquoise	-0.350581943	1.71E-08	-0.536269212	1.21E-19
PKIA	turquoise	-0.414413579	1.38E-11	-0.440862767	4.50E-13
PKN2	turquoise	0.388003047	3.17E-10	0.617579892	3.72E-27
PLA1A	turquoise	0.243619738	0.000117183	0.304490258	1.19E-06
PLCD1	turquoise	0.264372775	2.77E-05	0.267734734	2.17E-05
PLCD3	turquoise	0.247782433	8.86E-05	0.345800534	2.74E-08
PLCE1	turquoise	0.500603829	6.05E-17	0.404634099	4.55E-11
PLCG1	turquoise	0.371743929	1.91E-09	0.69867826	3.34E-37
PLCG2	turquoise	0.269776017	1.86E-05	0.241605359	0.000133931
PLCL2	turquoise	-0.334530096	8.10E-08	-0.475803338	3.03E-15
PLEKHA7	turquoise	0.355720571	1.02E-08	0.296205771	2.37E-06
PLEKHB1	turquoise	0.14276229	0.025442714	0.190456638	0.002759609
PLEKHH3	turquoise	0.241228404	0.000137305	0.609211659	2.79E-26
PLEKHO2	turquoise	0.359746007	6.74E-09	0.500748654	5.90E-17
PLK2	turquoise	-0.386787075	3.64E-10	-0.356215874	9.67E-09
PLOD1	turquoise	0.334340253	8.25E-08	0.819714462	9.63E-61
PLSCR3	turquoise	0.160537065	0.011859632	0.465327864	1.44E-14
PML	turquoise	0.289230157	4.17E-06	0.382773179	5.70E-10
PMPCB	turquoise	-0.246328747	9.77E-05	-0.462778037	2.09E-14
PNMA1	turquoise	-0.312664949	5.89E-07	-0.739946646	9.85E-44
PNMA2	turquoise	-0.283266621	6.68E-06	-0.626527885	4.04E-28

POGK	turquoise	0.440342587	4.83E-13	0.557292179	2.16E-21
POLA1	turquoise	0.45918824	3.51E-14	0.462133142	2.29E-14
POLR3C	turquoise	-0.207599657	0.001081144	-0.385647764	4.13E-10
POLR3H	turquoise	0.438989874	5.80E-13	0.576324256	4.40E-23
POP7	turquoise	-0.209975182	0.000943802	-0.478213779	2.10E-15
POU2F1	turquoise	0.29976913	1.77E-06	0.632374338	9.11E-29
PPA1	turquoise	-0.272267049	1.55E-05	-0.699673661	2.39E-37
PPEF1	turquoise	-0.337135964	6.33E-08	-0.342625715	3.73E-08
PPFIA1	turquoise	0.456417517	5.21E-14	0.638047345	2.08E-29
PPIA	turquoise	-0.125374297	0.049981398	-0.426080431	3.17E-12
PPM1H	turquoise	-0.264323525	2.78E-05	-0.38551499	4.20E-10
PPP1R14C	turquoise	-0.195421836	0.002120077	-0.305352669	1.11E-06
PPP1R1A	turquoise	0.328376369	1.44E-07	0.363442568	4.59E-09
PPP1R2	turquoise	-0.295575168	2.50E-06	-0.662108845	2.77E-32
PPP2CA	turquoise	-0.271244479	1.67E-05	-0.386276079	3.85E-10
PPP2R1B	turquoise	0.257124292	4.65E-05	0.308367152	8.54E-07
PPP2R2B	turquoise	-0.35211278	1.46E-08	-0.60326318	1.13E-25
PPP3CA	turquoise	-0.36474264	4.01E-09	-0.504130364	3.38E-17
PPP3CB	turquoise	-0.353887806	1.22E-08	-0.611494339	1.62E-26
PPP3R1	turquoise	-0.323997653	2.15E-07	-0.3921006	1.98E-10
PPP4R4	turquoise	-0.193633851	0.002332902	-0.525281243	8.87E-19
PPT1	turquoise	-0.316057413	4.37E-07	-0.315346043	4.66E-07
PRDM2	turquoise	-0.21680725	0.000633274	-0.159330759	0.012519969
PRDX3	turquoise	-0.094492517	0.140271786	-0.618324506	3.10E-27
PREP	turquoise	-0.206018675	0.001182488	-0.475629472	3.11E-15
PREPL	turquoise	-0.359391025	6.99E-09	-0.533374858	2.06E-19
PREX1	turquoise	0.212600204	0.000810835	0.359011216	7.27E-09
PRKACB	turquoise	-0.320093005	3.06E-07	-0.662340902	2.59E-32
PRKCB	turquoise	-0.352311984	1.43E-08	-0.705155639	3.75E-38
PRKCE	turquoise	-0.265654106	2.52E-05	-0.4594116	3.40E-14
PRKX	turquoise	0.433422061	1.22E-12	0.469370114	7.94E-15
PRMT6	turquoise	-0.223766787	0.000416421	-0.497123373	1.07E-16
PRMT8	turquoise	-0.328194964	1.46E-07	-0.139773523	0.028716125
PRNP	turquoise	-0.350919748	1.65E-08	-0.558472086	1.71E-21
PRPS1	turquoise	-0.341594663	4.13E-08	-0.714267338	1.56E-39
PRPS2	turquoise	-0.192855417	0.002431494	-0.319949789	3.10E-07
PSMA1	turquoise	-0.22894975	0.000302188	-0.646043149	2.46E-30
PSMA3	turquoise	-0.283258226	6.68E-06	-0.69421906	1.45E-36
PSMA5	turquoise	-0.279203047	9.15E-06	-0.524730812	9.78E-19
PSMB2	turquoise	-0.362787415	4.92E-09	-0.491980203	2.44E-16

PSMC2	turquoise	-0.197130511	0.001933382	-0.595731591	6.32E-25
PSMD1	turquoise	-0.328845783	1.38E-07	-0.633206963	7.35E-29
PSMD10	turquoise	-0.316538161	4.19E-07	-0.638391225	1.90E-29
PSMD14	turquoise	-0.362374141	5.13E-09	-0.737643125	2.45E-43
PSMD6	turquoise	-0.198081922	0.001836053	-0.534815514	1.58E-19
PSMG1	turquoise	-0.30686705	9.71E-07	-0.721273077	1.24E-40
PTBP1	turquoise	0.426855855	2.86E-12	0.767430608	8.14E-49
PTDSS1	turquoise	-0.25886806	4.11E-05	-0.570256942	1.56E-22
PTDSS2	turquoise	0.2041505	0.001313451	0.507838656	1.82E-17
PTH1R	turquoise	0.311897019	6.30E-07	0.78277095	5.72E-52
PTH2R	turquoise	-0.300284719	1.69E-06	-0.421504168	5.68E-12
PTPN3	turquoise	-0.302124425	1.45E-06	-0.32226373	2.51E-07
PTPRN2	turquoise	-0.310203274	7.29E-07	-0.697116139	5.60E-37
PTPRT	turquoise	-0.12309303	0.054331888	-0.426299666	3.08E-12
PTRH2	turquoise	-0.27781119	1.02E-05	-0.358024583	8.04E-09
PTTG1	turquoise	-0.155544107	0.014807616	-0.129465568	0.042906207
PUM2	turquoise	-0.153307608	0.01632418	-0.501078012	5.59E-17
PXN	turquoise	0.226696277	0.000347705	0.390724125	2.32E-10
PYGM	turquoise	0.313123708	5.66E-07	0.230280559	0.000277979
QKI	turquoise	0.226845178	0.000344511	0.223999752	0.000410526
QPCT	turquoise	-0.288301823	4.49E-06	-0.695694967	8.96E-37
R3HDM1	turquoise	-0.347303927	2.36E-08	-0.444330957	2.81E-13
RAB11A	turquoise	-0.320625946	2.91E-07	-0.421935754	5.38E-12
RAB15	turquoise	-0.255878524	5.07E-05	-0.340931473	4.40E-08
RAB22A	turquoise	-0.25141357	6.91E-05	-0.44388473	2.99E-13
RAB2A	turquoise	-0.270345902	1.79E-05	-0.563243751	6.57E-22
RAB6A	turquoise	-0.400634115	7.33E-11	-0.718973293	2.87E-40
RAB6B	turquoise	-0.233632672	0.000224768	-0.28711059	4.93E-06
RAD23B	turquoise	-0.178896284	0.004976642	-0.610056843	2.28E-26
RAD51C	turquoise	-0.303357159	1.31E-06	-0.61795555	3.40E-27
RAI14	turquoise	0.295976048	2.42E-06	0.45395389	7.39E-14
RALB	turquoise	-0.187988007	0.003138777	-0.500042867	6.63E-17
RALGDS	turquoise	0.30826579	8.62E-07	0.494789925	1.56E-16
RALYL	turquoise	-0.315239989	4.70E-07	-0.476022493	2.93E-15
RAP1GDS1	turquoise	-0.31127698	6.65E-07	-0.729603968	5.53E-42
RAP2A	turquoise	-0.302658933	1.39E-06	-0.517845175	3.28E-18
RAPGEF1	turquoise	0.244366407	0.000111489	0.569628917	1.78E-22
RAPGEF2	turquoise	-0.271150396	1.68E-05	-0.500570475	6.08E-17
RARRES2	turquoise	0.286264258	5.28E-06	0.439153039	5.67E-13
RASA1	turquoise	-0.179218025	0.004897854	-0.581469736	1.47E-23

RASAL3	turquoise	0.302359572	1.42E-06	0.595376041	6.84E-25
RASD1	turquoise	-0.022710889	0.723556743	-0.210200979	0.00093162
RASGRF1	turquoise	-0.374742067	1.38E-09	-0.239216826	0.000156691
RASGRP1	turquoise	-0.36022999	6.41E-09	-0.308130957	8.72E-07
RASL11B	turquoise	-0.286184352	5.31E-06	-0.561648189	9.06E-22
RASL12	turquoise	0.405230285	4.24E-11	0.508540053	1.61E-17
RASSF1	turquoise	0.353458357	1.28E-08	0.385568461	4.17E-10
RASSF4	turquoise	0.327763447	1.52E-07	0.522905719	1.35E-18
RBM11	turquoise	-0.232467923	0.000242074	-0.523659368	1.18E-18
RBM17	turquoise	0.399051138	8.84E-11	0.592483019	1.31E-24
RBMS2	turquoise	0.180585831	0.004575272	0.344103146	3.23E-08
RBP4	turquoise	-0.189432276	0.002911589	-0.424929583	3.67E-12
RBPJ	turquoise	0.465560072	1.39E-14	0.575441224	5.30E-23
RCAN2	turquoise	-0.408734162	2.77E-11	-0.621069211	1.58E-27
RDH5	turquoise	0.230417538	0.000275592	0.442293506	3.71E-13
REEP1	turquoise	-0.346973914	2.44E-08	-0.505998408	2.47E-17
REEP5	turquoise	-0.300707767	1.63E-06	-0.494057467	1.75E-16
RELL1	turquoise	0.163241241	0.010489756	0.337508817	6.11E-08
REPS2	turquoise	-0.261150915	3.49E-05	-0.672563923	1.28E-33
REST	turquoise	0.335863285	7.14E-08	0.283061848	6.78E-06
RFTN1	turquoise	-0.31404872	5.22E-07	-0.27710545	1.07E-05
RFX2	turquoise	0.384616755	4.64E-10	0.342100514	3.93E-08
RGL2	turquoise	0.373982351	1.50E-09	0.459295725	3.45E-14
RGMA	turquoise	0.274904939	1.27E-05	0.322962147	2.36E-07
RGR	turquoise	0.336402379	6.79E-08	0.184112997	0.003829827
RGS2	turquoise	-0.194637366	0.002211174	-0.102532483	0.109398701
RGS4	turquoise	-0.378809496	8.85E-10	-0.664242016	1.49E-32
RGS7	turquoise	-0.443948158	2.96E-13	-0.697200582	5.45E-37
RHBDF1	turquoise	0.37479995	1.37E-09	0.689185308	7.42E-36
RHBDF2	turquoise	0.379081814	8.59E-10	0.530406208	3.53E-19
RHOC	turquoise	0.29623298	2.37E-06	0.451604014	1.03E-13
RIMBP2	turquoise	-0.271455871	1.64E-05	-0.505040052	2.90E-17
RIMS1	turquoise	-0.326382992	1.73E-07	-0.345256823	2.89E-08
RIN3	turquoise	0.213109162	0.000787145	0.117878854	0.065462359
RIPPLY2	turquoise	-0.23451726	0.000212403	-0.347362666	2.35E-08
RIT2	turquoise	-0.223720281	0.000417607	-0.359532561	6.89E-09
RND2	turquoise	0.301837565	1.49E-06	0.390762968	2.31E-10
RNF135	turquoise	0.231562238	0.000256382	0.425076389	3.60E-12
RNF144B	turquoise	0.370520367	2.17E-09	0.277941347	1.01E-05
RNF175	turquoise	-0.346937661	2.45E-08	-0.485911273	6.38E-16

RNF41	turquoise	-0.283939395	6.33E-06	-0.657906946	9.19E-32
RNFT2	turquoise	-0.399027287	8.86E-11	-0.409231782	2.61E-11
ROBO3	turquoise	0.153162534	0.01642708	0.452248384	9.39E-14
RPA3	turquoise	-0.257358608	4.57E-05	-0.559205463	1.48E-21
RPAIN	turquoise	-0.273415006	1.42E-05	-0.406555457	3.61E-11
RPL15	turquoise	-0.413562919	1.54E-11	-0.795209809	1.01E-54
RPN2	turquoise	0.256793258	4.76E-05	0.716698768	6.53E-40
RPP40	turquoise	-0.308387045	8.53E-07	-0.250329319	7.45E-05
RPS6KA1	turquoise	0.244910195	0.000107507	0.441405711	4.18E-13
RRAGA	turquoise	-0.394731858	1.46E-10	-0.76812055	5.94E-49
RRAGB	turquoise	-0.284894615	5.88E-06	-0.474994443	3.42E-15
RSPO2	turquoise	-0.26801848	2.12E-05	-0.541774739	4.33E-20
RTN1	turquoise	-0.445094685	2.53E-13	-0.750065174	1.58E-45
RTN3	turquoise	-0.364607048	4.06E-09	-0.424471546	3.89E-12
RTN4	turquoise	-0.464511969	1.62E-14	-0.765889026	1.64E-48
RTN4IP1	turquoise	-0.277503701	1.04E-05	-0.451075748	1.11E-13
RUFY3	turquoise	-0.321417678	2.71E-07	-0.727886211	1.06E-41
RUNDC1	turquoise	-0.343391309	3.47E-08	-0.566942644	3.10E-22
RWDD2A	turquoise	-0.221900272	0.000466565	-0.438910869	5.86E-13
S100A10	turquoise	0.279566513	8.89E-06	0.215206028	0.000696123
S100A6	turquoise	0.343525907	3.42E-08	0.423195982	4.58E-12
S100PBP	turquoise	0.30626743	1.02E-06	0.531165292	3.08E-19
SAP30L	turquoise	0.409981435	2.38E-11	0.592671543	1.26E-24
SAT1	turquoise	0.173328993	0.006532739	0.24448299	0.000110624
SATB2	turquoise	-0.164638891	0.009838141	-0.380820809	7.09E-10
SCAMP1	turquoise	-0.333264288	9.13E-08	-0.287019413	4.97E-06
SCG2	turquoise	-0.387115822	3.50E-10	-0.593467201	1.05E-24
SCG3	turquoise	-0.426322056	3.07E-12	-0.452129764	9.55E-14
SCG5	turquoise	-0.445007521	2.56E-13	-0.618417674	3.03E-27
SCN2B	turquoise	-0.414993385	1.29E-11	-0.681153508	9.33E-35
SCN3B	turquoise	-0.310015488	7.41E-07	-0.590374687	2.10E-24
SCO1	turquoise	-0.219905563	0.000526302	-0.589779067	2.39E-24
SCOC	turquoise	-0.373466086	1.58E-09	-0.732665957	1.71E-42
SDAD1	turquoise	-0.338985831	5.30E-08	-0.30534061	1.11E-06
SDC2	turquoise	0.214709797	0.00071674	0.485665711	6.63E-16
SDHA	turquoise	-0.304870838	1.15E-06	-0.489821888	3.45E-16
SDHB	turquoise	-0.327489775	1.56E-07	-0.641461115	8.43E-30
SEC61A2	turquoise	-0.319787067	3.14E-07	-0.455540076	5.90E-14
SEC61G	turquoise	-0.372196677	1.82E-09	-0.52933357	4.29E-19
SEH1L	turquoise	-0.421190023	5.91E-12	-0.663717367	1.74E-32

SELENBP1	turquoise	0.354805734	1.12E-08	0.291992103	3.34E-06
SEMA4F	turquoise	-0.2571756	4.63E-05	-0.526520487	7.11E-19
SERINC1	turquoise	-0.325653392	1.85E-07	-0.744642294	1.48E-44
SERPINA3	turquoise	0.225683883	0.000370162	0.134615761	0.035214006
SERPINB6	turquoise	0.369881039	2.33E-09	0.660735283	4.11E-32
SERPINI1	turquoise	-0.304243394	1.21E-06	-0.722573002	7.70E-41
SERTAD1	turquoise	0.241122572	0.000138266	0.337404612	6.17E-08
SEZ6L2	turquoise	-0.427150413	2.76E-12	-0.271324201	1.66E-05
SGIP1	turquoise	-0.303583873	1.28E-06	-0.604836921	7.80E-26
SH3GL2	turquoise	-0.345118085	2.93E-08	-0.50562045	2.63E-17
SH3PXD2A	turquoise	0.214560642	0.000723046	0.596924663	4.82E-25
SHD	turquoise	-0.186700642	0.003354694	0.132664765	0.037977883
SIK1	turquoise	0.265469376	2.56E-05	0.200561669	0.001603031
SIX5	turquoise	0.277840598	1.02E-05	0.609991604	2.32E-26
SKAP2	turquoise	-0.140055844	0.028392224	-0.5367471	1.11E-19
SLBP	turquoise	-0.297064464	2.21E-06	-0.289103237	4.21E-06
SLC11A1	turquoise	0.217094992	0.000622552	0.249324993	7.98E-05
SLC12A5	turquoise	-0.341258332	4.26E-08	-0.629250738	2.03E-28
SLC15A3	turquoise	0.458975761	3.62E-14	0.506030122	2.46E-17
SLC16A14	turquoise	-0.417626793	9.26E-12	-0.719399624	2.46E-40
SLC16A9	turquoise	0.348413119	2.12E-08	0.518091893	3.14E-18
SLC1A1	turquoise	-0.208735987	0.001013304	-0.435021395	9.84E-13
SLC20A1	turquoise	-0.246101969	9.92E-05	-0.532338283	2.49E-19
SLC25A12	turquoise	-0.265259195	2.60E-05	-0.480373777	1.51E-15
SLC25A14	turquoise	-0.302960465	1.35E-06	-0.20096505	0.001567792
SLC25A29	turquoise	0.317195924	3.96E-07	0.502667313	4.30E-17
SLC25A3	turquoise	-0.345298288	2.88E-08	-0.597193536	4.54E-25
SLC25A34	turquoise	0.214636808	0.000719819	0.648453594	1.28E-30
SLC25A4	turquoise	-0.329284115	1.32E-07	-0.726758857	1.62E-41
SLC25A44	turquoise	-0.301788754	1.49E-06	-0.522059259	1.57E-18
SLC25A46	turquoise	-0.280479539	8.29E-06	-0.606652328	5.10E-26
SLC26A6	turquoise	0.223067684	0.000434586	0.590418124	2.08E-24
SLC27A1	turquoise	0.278382963	9.74E-06	0.443668973	3.08E-13
SLC2A1	turquoise	0.3777643	9.92E-10	0.441838985	3.95E-13
SLC2A13	turquoise	-0.21015667	0.000933999	-0.254446375	5.60E-05
SLC35B1	turquoise	-0.272255404	1.55E-05	-0.634594585	5.13E-29
SLC39A1	turquoise	0.428470911	2.32E-12	0.394690293	1.47E-10
SLC48A1	turquoise	0.254695051	5.51E-05	0.522628611	1.42E-18
SLC4A11	turquoise	0.424098788	4.08E-12	0.340404948	4.63E-08
SLC4A1AP	turquoise	-0.282592897	7.04E-06	-0.498088146	9.12E-17

SLC6A12	turquoise	0.447423682	1.84E-13	0.528009722	5.44E-19
SLC6A15	turquoise	-0.279701187	8.80E-06	-0.688621279	8.88E-36
SLC6A16	turquoise	0.262560385	3.16E-05	0.325214586	1.92E-07
SLC7A14	turquoise	-0.136609815	0.032567353	-0.186969644	0.003308497
SLC7A2	turquoise	0.439974275	5.08E-13	0.532179431	2.56E-19
SLC7A5	turquoise	0.223489589	0.000423538	0.520947796	1.91E-18
SLC7A9	turquoise	0.315064282	4.78E-07	0.412361257	1.78E-11
SLC8A3	turquoise	-0.296065626	2.40E-06	-0.241928268	0.000131104
SLC9A3R1	turquoise	0.240932968	0.000140004	0.471777685	5.55E-15
SLC9A6	turquoise	-0.292677069	3.16E-06	-0.480217223	1.54E-15
SLCO2B1	turquoise	0.336356696	6.82E-08	0.363885007	4.38E-09
SLCO4A1	turquoise	0.356008511	9.88E-09	0.363722053	4.46E-09
SLITRK1	turquoise	-0.296912536	2.24E-06	-0.757477806	6.75E-47
SLITRK3	turquoise	-0.139840877	0.028638565	-0.294905094	2.64E-06
SLITRK4	turquoise	-0.367947797	2.86E-09	-0.606328177	5.50E-26
SLITRK5	turquoise	-0.202341303	0.001452832	-0.559272332	1.46E-21
SMAD6	turquoise	0.281796244	7.49E-06	0.42267923	4.89E-12
SMAD9	turquoise	0.268008313	2.12E-05	0.351482046	1.56E-08
SMARCC1	turquoise	0.355950544	9.93E-09	0.429485917	2.04E-12
SMG5	turquoise	0.310979098	6.82E-07	0.496410415	1.20E-16
SMO	turquoise	0.337600014	6.06E-08	0.49103492	2.84E-16
SMOC1	turquoise	0.216740888	0.000635771	0.4425324	3.59E-13
SMOX	turquoise	0.327914901	1.50E-07	0.562863714	7.09E-22
SMPX	turquoise	-0.14140361	0.026888722	-0.272876616	1.48E-05
SMYD2	turquoise	-0.308192454	8.67E-07	-0.539075641	7.18E-20
SMYD3	turquoise	-0.208937114	0.001001712	-0.633340256	7.10E-29
SNAP25	turquoise	-0.458652993	3.79E-14	-0.525686703	8.25E-19
SNAP91	turquoise	-0.335245909	7.57E-08	-0.356612839	9.29E-09
SNCA	turquoise	-0.302840589	1.37E-06	-0.740461918	8.02E-44
SNRPN	turquoise	-0.331653778	1.06E-07	-0.402105089	6.16E-11
SNTB1	turquoise	0.289612785	4.04E-06	0.28725387	4.88E-06
SNX10	turquoise	-0.358818806	7.41E-09	-0.606515313	5.27E-26
SNX22	turquoise	0.212363309	0.000822084	0.451281574	1.07E-13
SORBS2	turquoise	-0.291576206	3.45E-06	-0.453674111	7.68E-14
SOSTDC1	turquoise	-0.071504689	0.264880686	-0.30719888	9.44E-07
SOX13	turquoise	0.29978306	1.76E-06	0.555197955	3.27E-21
SP1	turquoise	0.342922376	3.63E-08	0.506554846	2.25E-17
SP100	turquoise	0.248345814	8.53E-05	0.18975964	0.002862213
SP110	turquoise	0.210562548	0.000912415	0.345366244	2.86E-08
SPARC	turquoise	0.231540686	0.000256731	0.064633836	0.313665891

SPARCL1	turquoise	-0.198644217	0.001780655	-0.538569716	7.89E-20
SPATA13	turquoise	0.392604874	1.87E-10	0.368685508	2.64E-09
SPEN	turquoise	0.351107896	1.62E-08	0.575807362	4.90E-23
SPINT2	turquoise	-0.257091173	4.66E-05	-0.408829369	2.74E-11
SPOCK1	turquoise	-0.293585465	2.94E-06	-0.386365289	3.81E-10
SPSB2	turquoise	0.212743166	0.000804115	0.162661256	0.010771172
SRGAP1	turquoise	0.393894774	1.61E-10	0.606784006	4.95E-26
SRGN	turquoise	0.301757964	1.50E-06	0.086235068	0.178497076
SRP54	turquoise	-0.243314689	0.000119586	-0.629708915	1.80E-28
SRPK2	turquoise	-0.276526704	1.12E-05	-0.485413865	6.90E-16
SRRM2	turquoise	0.223091057	0.000433967	0.567956258	2.51E-22
SSH3	turquoise	0.248489023	8.44E-05	0.499034269	7.82E-17
SST	turquoise	-0.353180341	1.31E-08	-0.610687015	1.96E-26
SSTR1	turquoise	-0.263497444	2.95E-05	-0.272850944	1.48E-05
SSX2IP	turquoise	-0.244980943	0.000106999	-0.429298522	2.09E-12
ST6GALNAC5	turquoise	-0.325515275	1.87E-07	-0.466655817	1.19E-14
ST8SIA3	turquoise	-0.268273019	2.08E-05	-0.261502075	3.40E-05
STAM	turquoise	-0.25085725	7.18E-05	-0.64042682	1.11E-29
STAMBPL1	turquoise	-0.26285107	3.09E-05	-0.616608604	4.72E-27
STAR3D3	turquoise	0.203240064	0.001381981	0.470320767	6.89E-15
STAR3D8	turquoise	0.267996307	2.12E-05	0.632914503	7.93E-29
STAT3	turquoise	0.27958267	8.88E-06	0.246860679	9.43E-05
STAT4	turquoise	-0.366142808	3.46E-09	-0.621854976	1.30E-27
STAT5A	turquoise	0.209685341	0.000959653	0.382511303	5.87E-10
STAU2	turquoise	-0.245785702	0.000101375	-0.552620439	5.42E-21
STEAP2	turquoise	-0.265569516	2.54E-05	-0.572857171	9.11E-23
STEAP3	turquoise	0.386256275	3.86E-10	0.427743598	2.55E-12
STH	turquoise	0.227894582	0.000322763	0.450267442	1.24E-13
STK38	turquoise	0.347859979	2.24E-08	0.59115988	1.76E-24
STMN2	turquoise	-0.471502193	5.78E-15	-0.613821644	9.27E-27
STMN3	turquoise	-0.340720184	4.49E-08	-0.290358577	3.81E-06
STMN4	turquoise	-0.285576648	5.57E-06	-0.317932542	3.71E-07
STON2	turquoise	0.345099233	2.93E-08	0.229271202	0.000296167
STX12	turquoise	-0.224025531	0.000409879	-0.501784449	4.98E-17
STXBP5	turquoise	-0.221012832	0.00049232	-0.427519035	2.63E-12
SUB1	turquoise	-0.323785837	2.19E-07	-0.589606543	2.49E-24
SUCLA2	turquoise	-0.31415702	5.17E-07	-0.714208682	1.59E-39
SULT4A1	turquoise	-0.359156296	7.16E-09	-0.514659729	5.69E-18
SUSD1	turquoise	-0.201568042	0.001516436	-0.504422112	3.22E-17
SV2A	turquoise	-0.229118501	0.000299013	-0.090791058	0.15655168

SV2B	turquoise	-0.379134491	8.54E-10	-0.539342537	6.83E-20
SVIL	turquoise	0.304101371	1.23E-06	0.320089919	3.06E-07
SYDE1	turquoise	0.372482739	1.76E-09	0.407878543	3.08E-11
SYMPK	turquoise	0.049832801	0.437453647	0.281237256	7.82E-06
SYN2	turquoise	-0.316149121	4.34E-07	-0.615115704	6.78E-27
SYNGR1	turquoise	-0.545108774	2.30E-20	-0.274248237	1.33E-05
SYNJ1	turquoise	-0.348333056	2.13E-08	-0.401127256	6.91E-11
SYNPR	turquoise	-0.221024807	0.000491964	-0.454153349	7.18E-14
SYT1	turquoise	-0.36226014	5.19E-09	-0.745541666	1.03E-44
SYT13	turquoise	-0.354691888	1.13E-08	-0.540134706	5.89E-20
SYT4	turquoise	-0.382118528	6.14E-10	-0.564620041	4.97E-22
SYTL4	turquoise	0.414025261	1.45E-11	0.55640666	2.58E-21
TAC1	turquoise	-0.328956491	1.36E-07	-0.497573126	9.92E-17
TAF1	turquoise	0.23676956	0.000183727	0.510172196	1.22E-17
TAF4	turquoise	0.347268103	2.37E-08	0.422243919	5.17E-12
TAF6L	turquoise	0.205762752	0.00119969	0.457913444	4.21E-14
TAGLN	turquoise	0.332884002	9.46E-08	0.460120233	3.07E-14
TAGLN2	turquoise	0.090081916	0.159827026	0.010619582	0.868646986
TAGLN3	turquoise	-0.393013516	1.79E-10	-0.702761885	8.46E-38
TAP1	turquoise	0.238596007	0.000163173	0.435989056	8.65E-13
TARBP1	turquoise	-0.29312986	3.05E-06	-0.368471106	2.70E-09
TBC1D14	turquoise	0.389664201	2.62E-10	0.310705132	6.98E-07
TBC1D16	turquoise	0.180266044	0.004648928	0.370257939	2.24E-09
TBC1D19	turquoise	-0.077727002	0.225423227	-0.317976495	3.69E-07
TBC1D2	turquoise	0.305572733	1.08E-06	0.293943364	2.85E-06
TBC1D2B	turquoise	0.363814394	4.42E-09	0.394094436	1.58E-10
TBC1D7	turquoise	-0.197747716	0.00186972	-0.447088916	1.92E-13
TBPL1	turquoise	-0.25890419	4.10E-05	-0.487511589	4.96E-16
TBX2	turquoise	0.369822905	2.34E-09	0.446746167	2.02E-13
TBX3	turquoise	0.376872463	1.09E-09	0.462717822	2.11E-14
TCAP	turquoise	0.243755589	0.000116127	0.515790039	4.68E-18
TCEAL1	turquoise	-0.31767478	3.79E-07	-0.731401021	2.78E-42
TCEAL2	turquoise	-0.443331738	3.22E-13	-0.538286706	8.31E-20
TCEAL7	turquoise	-0.344355381	3.16E-08	-0.825833878	2.17E-62
TCF3	turquoise	0.134306516	0.035640372	0.389355836	2.72E-10
TCF7L2	turquoise	0.15480659	0.015293493	0.273751332	1.38E-05
TCIRG1	turquoise	0.224934538	0.000387644	0.330215781	1.21E-07
TCL1B	turquoise	0.240969189	0.00013967	0.478296014	2.07E-15
TCTEX1D2	turquoise	-0.320009596	3.08E-07	-0.611074058	1.79E-26
TEAD2	turquoise	0.479892985	1.62E-15	0.541550148	4.52E-20

TERF2IP	turquoise	-0.388408479	3.03E-10	-0.528638968	4.86E-19
TFB2M	turquoise	-0.265685646	2.52E-05	-0.473046957	4.59E-15
TFPI	turquoise	0.323093886	2.33E-07	0.293646002	2.92E-06
TGFB111	turquoise	0.368835627	2.60E-09	0.34139747	4.21E-08
TGIF1	turquoise	0.328032174	1.49E-07	0.417908723	8.94E-12
TGM2	turquoise	0.207866444	0.001064852	0.249644159	7.81E-05
THAP10	turquoise	-0.239095908	0.000157935	-0.399772924	8.12E-11
THNSL1	turquoise	-0.227219879	0.000336594	-0.550469742	8.23E-21
THOC7	turquoise	-0.351609098	1.54E-08	-0.759182764	3.22E-47
THYN1	turquoise	-0.319849101	3.12E-07	-0.769148027	3.71E-49
TIAM2	turquoise	-0.07851703	0.220728894	-0.25277373	6.29E-05
TIMM23	turquoise	-0.322152996	2.54E-07	-0.561840163	8.72E-22
TIMP1	turquoise	0.254886756	5.44E-05	0.284473062	6.08E-06
TJP1	turquoise	0.363785015	4.43E-09	0.439045116	5.75E-13
TJP2	turquoise	0.397331809	1.08E-10	0.250956931	7.13E-05
TLN2	turquoise	-0.309620983	7.67E-07	-0.338704655	5.45E-08
TLR5	turquoise	0.367790459	2.91E-09	0.368810058	2.61E-09
TM2D2	turquoise	-0.29714227	2.19E-06	-0.586318763	5.12E-24
TM2D3	turquoise	-0.356168435	9.72E-09	-0.621939262	1.27E-27
TM4SF18	turquoise	0.350245362	1.76E-08	0.32042144	2.97E-07
TM9SF2	turquoise	-0.222004619	0.00046362	-0.581931465	1.33E-23
TMEFF2	turquoise	-0.198395125	0.001805005	-0.386698286	3.67E-10
TMEM119	turquoise	0.289829018	3.97E-06	0.156902751	0.01394784
TMEM126A	turquoise	-0.269478799	1.90E-05	-0.568526799	2.24E-22
TMEM132D	turquoise	-0.361931768	5.37E-09	-0.498553542	8.46E-17
TMEM14A	turquoise	-0.311514038	6.51E-07	-0.723574066	5.32E-41
TMEM14B	turquoise	-0.310688963	6.99E-07	-0.473265624	4.44E-15
TMEM155	turquoise	-0.217316792	0.000614402	-0.587657231	3.82E-24
TMEM17	turquoise	-0.316629384	4.16E-07	-0.362674557	4.97E-09
TMEM176A	turquoise	0.226249249	0.00035746	0.297284604	2.17E-06
TMEM200A	turquoise	-0.198475885	0.001797077	-0.449400808	1.40E-13
TMEM216	turquoise	0.375174742	1.32E-09	0.70059409	1.76E-37
TMEM219	turquoise	0.199378435	0.001710618	0.422702966	4.88E-12
TMEM38B	turquoise	0.337119177	6.34E-08	0.371392204	1.98E-09
TMEM59	turquoise	-0.173310241	0.006538643	-0.390662036	2.34E-10
TMEM59L	turquoise	-0.291368836	3.51E-06	0.056746269	0.376485681
TMEM97	turquoise	-0.210927052	0.000893425	-0.28851412	4.41E-06
TMOD1	turquoise	-0.275254649	1.24E-05	-0.496461963	1.19E-16
TMPRSS5	turquoise	0.237809916	0.000171741	0.233806492	0.000222287
TMSB10	turquoise	-0.188776009	0.003012905	-0.40924878	2.61E-11

TNFRSF10B	turquoise	0.382943389	5.60E-10	0.622611393	1.08E-27
TNFRSF1A	turquoise	0.300728642	1.63E-06	0.386824628	3.62E-10
TNFRSF1B	turquoise	0.249881753	7.68E-05	0.518556417	2.90E-18
TNFRSF21	turquoise	-0.230349115	0.000276782	-0.406908649	3.46E-11
TNIP1	turquoise	0.392347354	1.93E-10	0.488567462	4.20E-16
TNS1	turquoise	0.423910312	4.18E-12	0.499492058	7.25E-17
TOB1	turquoise	0.315002991	4.80E-07	0.363573397	4.53E-09
TOB2	turquoise	0.100532456	0.116528398	0.490030036	3.33E-16
TOMM20	turquoise	-0.451051537	1.11E-13	-0.672009114	1.51E-33
TOR1A	turquoise	-0.180201917	0.004663826	-0.654865083	2.17E-31
TP53INP1	turquoise	0.371274356	2.01E-09	0.590810694	1.90E-24
TPM1	turquoise	-0.272608985	1.51E-05	-0.499389167	7.38E-17
TPM2	turquoise	0.310285607	7.24E-07	0.48544153	6.87E-16
TRAP1	turquoise	-0.173629371	0.006438802	-0.513107144	7.43E-18
TRAPPC6B	turquoise	-0.289886309	3.96E-06	-0.268781815	2.01E-05
TRIM36	turquoise	-0.295663128	2.48E-06	-0.398082728	9.90E-11
TRIM37	turquoise	-0.284539926	6.04E-06	-0.740782443	7.05E-44
TRIM47	turquoise	0.219698741	0.000532885	0.127940646	0.045438153
TRIM56	turquoise	0.356266506	9.62E-09	0.555619738	3.01E-21
TRIOBP	turquoise	0.241510862	0.00013477	0.239427108	0.000154551
TRIP10	turquoise	0.387183503	3.48E-10	0.253340034	6.05E-05
TRIP6	turquoise	0.287926623	4.63E-06	0.437243709	7.32E-13
TRO	turquoise	-0.225297139	0.000379091	-0.169567507	0.007817148
TSPAN1	turquoise	-0.258258233	4.29E-05	-0.231020336	0.000265315
TSPAN13	turquoise	-0.28349693	6.56E-06	-0.681110738	9.45E-35
TSPAN4	turquoise	0.190770363	0.002714524	0.582656404	1.14E-23
TSPAN5	turquoise	-0.111425639	0.081755128	-0.106983685	0.094762331
TSPAN7	turquoise	-0.477310577	2.41E-15	-0.726905733	1.53E-41
TSPO	turquoise	0.45659982	5.08E-14	0.64946205	9.69E-31
TSPYL1	turquoise	-0.350227067	1.77E-08	-0.7616536	1.09E-47
TSPYL5	turquoise	-0.243232155	0.000120244	-0.519136389	2.62E-18
TTC19	turquoise	-0.282490563	7.09E-06	-0.610741775	1.94E-26
TTC23	turquoise	0.304472694	1.19E-06	0.516740157	3.98E-18
TTC38	turquoise	0.368403194	2.72E-09	0.548732535	1.15E-20
TTL3	turquoise	0.196161407	0.00203734	0.153192065	0.016406088
TUBA1B	turquoise	-0.23043571	0.000275277	-0.411241838	2.04E-11
TUBA4A	turquoise	-0.367831454	2.89E-09	-0.282448486	7.12E-06
TUBB	turquoise	-0.121445539	0.05766527	-0.217088569	0.00062279
TUBB2A	turquoise	-0.468853674	8.57E-15	-0.650309008	7.67E-31
TUBB3	turquoise	-0.323703391	2.21E-07	-0.456254054	5.33E-14

TUBG1	turquoise	-0.319064586	3.35E-07	-0.160778244	0.011731354
TUSC3	turquoise	-0.31996859	3.09E-07	-0.67914338	1.74E-34
TXNDC9	turquoise	-0.278219545	9.86E-06	-0.3771178	1.07E-09
TXNL1	turquoise	-0.193546869	0.002343735	-0.308464019	8.47E-07
UBE2E2	turquoise	-0.275971964	1.17E-05	-0.494454989	1.64E-16
UBE2E3	turquoise	-0.29243902	3.22E-06	-0.693992524	1.57E-36
UBE2N	turquoise	-0.351443484	1.57E-08	-0.603156378	1.15E-25
UBE2T	turquoise	-0.266109677	2.44E-05	-0.503209444	3.93E-17
UBE2V2	turquoise	-0.364097331	4.29E-09	-0.625786698	4.87E-28
UBL3	turquoise	-0.25516868	5.33E-05	-0.442169986	3.77E-13
UBL5	turquoise	-0.198061864	0.001838058	-0.215168736	0.000697653
UBLCP1	turquoise	-0.329846244	1.26E-07	-0.321167338	2.77E-07
UBQLN1	turquoise	-0.332471668	9.83E-08	-0.630952213	1.31E-28
UBQLN2	turquoise	-0.357838929	8.19E-09	-0.503077008	4.02E-17
UCHL1	turquoise	-0.330661932	1.16E-07	-0.731150124	3.06E-42
UCHL5	turquoise	-0.279426863	8.99E-06	-0.668593037	4.18E-33
UGP2	turquoise	-0.24577825	0.000101425	-0.701053761	1.51E-37
UHRF1	turquoise	0.371795845	1.90E-09	0.481004772	1.37E-15
UNC5B	turquoise	0.178010205	0.005199549	0.155910001	0.014571621
UNKL	turquoise	0.361660587	5.53E-09	0.420834058	6.18E-12
UPF3A	turquoise	0.16127627	0.01147033	0.526771794	6.80E-19
UQCRC2	turquoise	-0.392320379	1.93E-10	-0.713732838	1.88E-39
UQCRFS1	turquoise	-0.260928082	3.55E-05	-0.637897857	2.16E-29
VAMP1	turquoise	-0.241753351	0.000132628	-0.374203895	1.46E-09
VAMP5	turquoise	0.316958187	4.04E-07	0.349757656	1.85E-08
VAPA	turquoise	-0.395408612	1.35E-10	-0.276873635	1.09E-05
VASH1	turquoise	0.259830893	3.84E-05	0.480476712	1.48E-15
VASN	turquoise	0.226791636	0.000345656	0.335589753	7.33E-08
VAT1L	turquoise	-0.190768389	0.002714806	-0.464420782	1.64E-14
VAV2	turquoise	0.225920871	0.000364787	0.528665827	4.84E-19
VBP1	turquoise	-0.280105118	8.53E-06	-0.584130175	8.26E-24
VCAM1	turquoise	0.131743314	0.03934571	0.177930164	0.005220119
VDAC1	turquoise	-0.388290489	3.07E-10	-0.804812218	5.60E-57
VGFB	turquoise	-0.449488677	1.38E-13	-0.392464959	1.90E-10
VIP	turquoise	-0.3873027	3.43E-10	-0.435254875	9.54E-13
VKORC1L1	turquoise	-0.308393477	8.52E-07	-0.563045037	6.84E-22
VLDLR	turquoise	-0.23290937	0.000235374	-0.527872229	5.58E-19
VPS29	turquoise	-0.228754444	0.000305902	-0.707272049	1.81E-38
VPS35	turquoise	-0.280229248	8.45E-06	-0.576070847	4.64E-23
VSNL1	turquoise	-0.360714827	6.10E-09	-0.588424777	3.23E-24

VTA1	turquoise	-0.30176347	1.50E-06	-0.462423778	2.20E-14
WAS	turquoise	0.194312258	0.002249962	0.331738787	1.05E-07
WASF1	turquoise	-0.380917056	7.01E-10	-0.631400679	1.17E-28
WASF2	turquoise	0.215325593	0.000691238	0.304565422	1.18E-06
WASL	turquoise	-0.322764081	2.40E-07	-0.59113362	1.77E-24
WDR20	turquoise	0.319623043	3.19E-07	0.586593821	4.82E-24
WDR37	turquoise	-0.226632492	0.000349082	-0.442654888	3.53E-13
WDR47	turquoise	-0.33503482	7.73E-08	-0.746628893	6.58E-45
WDR54	turquoise	-0.364626352	4.06E-09	-0.48924562	3.77E-16
WDR61	turquoise	-0.283096222	6.77E-06	-0.661763886	3.06E-32
WDR7	turquoise	-0.211876272	0.000845665	-0.630506913	1.47E-28
WWC3	turquoise	0.409784704	2.44E-11	0.52119497	1.83E-18
WWTR1	turquoise	0.320820184	2.86E-07	0.027582434	0.667481376
XAF1	turquoise	0.174401355	0.006202898	0.560368668	1.17E-21
XK	turquoise	-0.295515376	2.51E-06	-0.615165357	6.70E-27
YARS2	turquoise	-0.143863531	0.024320246	-0.497719467	9.69E-17
YPEL5	turquoise	-0.266505642	2.37E-05	-0.635441431	4.12E-29
YTHDF2	turquoise	-0.34333251	3.49E-08	-0.598456891	3.40E-25
YWHAB	turquoise	-0.424119802	4.07E-12	-0.611154153	1.76E-26
YWHAG	turquoise	-0.413753636	1.50E-11	-0.664466813	1.40E-32
YWHAH	turquoise	-0.316639284	4.16E-07	-0.639161809	1.55E-29
YWHAZ	turquoise	-0.393224606	1.74E-10	-0.778896113	3.78E-51
ZBTB20	turquoise	0.420794094	6.22E-12	0.664997843	1.20E-32
ZBTB34	turquoise	0.314384655	5.07E-07	0.318911309	3.40E-07
ZC3H15	turquoise	-0.237634225	0.000173712	-0.64775648	1.54E-30
ZC3HAV1	turquoise	0.272152879	1.56E-05	0.439931303	5.11E-13
ZCCHC12	turquoise	-0.3519432	1.49E-08	-0.686687153	1.64E-35
ZCCHC17	turquoise	-0.267635056	2.18E-05	-0.508365733	1.66E-17
ZDHHC11	turquoise	0.276093085	1.16E-05	0.361866296	5.41E-09
ZDHHC17	turquoise	-0.247967977	8.75E-05	-0.481477432	1.27E-15
ZDHHC23	turquoise	-0.243498956	0.000118129	-0.365888731	3.55E-09
ZFAND1	turquoise	-0.297309742	2.16E-06	-0.597839384	3.92E-25
ZFAND5	turquoise	-0.370136208	2.26E-09	-0.502890539	4.15E-17
ZFP36	turquoise	0.310931995	6.85E-07	0.187170669	0.00327435
ZFP36L2	turquoise	0.269526846	1.90E-05	0.015469105	0.809628021
ZFPM2	turquoise	-0.203333711	0.001374783	-0.400292317	7.63E-11
ZIC2	turquoise	0.229617348	0.000289808	0.365837476	3.57E-09
ZMAT4	turquoise	-0.096173683	0.13331948	-0.055664764	0.385663524
ZMIZ2	turquoise	0.333579503	8.86E-08	0.58817507	3.41E-24
ZMYND15	turquoise	0.254198786	5.70E-05	0.306234955	1.03E-06

ZNF184	turquoise	-0.400555179	7.40E-11	-0.573925143	7.28E-23
ZNF205	turquoise	0.313523151	5.47E-07	0.330519195	1.18E-07
ZNF215	turquoise	-0.332349287	9.95E-08	-0.210406548	0.000920656
ZNF25	turquoise	-0.376342247	1.16E-09	-0.600785111	2.00E-25
ZNF326	turquoise	0.285571484	5.57E-06	0.312900032	5.77E-07
ZNF365	turquoise	-0.363723783	4.46E-09	-0.471257266	6.00E-15
ZNF385B	turquoise	-0.25174909	6.76E-05	-0.655307809	1.91E-31
ZNF395	turquoise	0.391140086	2.22E-10	0.416750389	1.03E-11
ZNF397	turquoise	0.381317744	6.71E-10	0.479168997	1.81E-15
ZNF621	turquoise	0.373447613	1.59E-09	0.678045581	2.43E-34
ZNHIT3	turquoise	-0.238750559	0.000161537	-0.625619932	5.08E-28
ZRANB2	turquoise	-0.306001991	1.05E-06	-0.410123097	2.34E-11
ZWILCH	turquoise	-0.330400609	1.19E-07	-0.465430062	1.42E-14
ZYG11B	turquoise	-0.317476448	3.86E-07	-0.274371029	1.32E-05
ABL1	yellow	0.340303933	4.67E-08	0.798667906	1.61E-55
ADAM17	yellow	0.218565341	0.000570336	0.799877104	8.40E-56
ADH4	yellow	0.048086061	0.453706363	0.664546106	1.37E-32
AJAP1	yellow	0.192199396	0.002517507	0.404917851	4.40E-11
ARAP2	yellow	0.252480228	6.42E-05	0.530344592	3.57E-19
ARID4B	yellow	0.271704824	1.61E-05	0.764905538	2.55E-48
ATG12	yellow	0.169850502	0.007713225	0.761286881	1.28E-47
BLZF1	yellow	0.234117366	0.000217912	0.773079606	6.00E-50
C11orf1	yellow	-0.141976763	0.026270349	-0.561764472	8.85E-22
C21orf58	yellow	0.298539202	1.96E-06	0.81188484	1.01E-58
C9orf64	yellow	0.23413043	0.00021773	0.627619333	3.07E-28
CATSPER2	yellow	0.300063212	1.72E-06	0.636660222	2.99E-29
CCDC125	yellow	0.303444797	1.30E-06	0.775606197	1.83E-50
CD68	yellow	0.259478563	3.93E-05	0.776313422	1.30E-50
CDC42BPA	yellow	0.239354464	0.000155287	0.519046603	2.66E-18
CDK10	yellow	0.319563644	3.20E-07	0.795765562	7.57E-55
CDKN2AIP	yellow	0.219117429	0.000551799	0.676373516	4.05E-34
CENPB	yellow	0.283126734	6.75E-06	0.742497811	3.54E-44
CETN3	yellow	0.189700825	0.002871028	0.630280662	1.56E-28
CHST12	yellow	0.32176105	2.63E-07	0.71519981	1.12E-39
CLCN7	yellow	0.259108231	4.04E-05	0.813038965	5.15E-59
CLK3	yellow	0.241722469	0.000132899	0.743314891	2.54E-44
CLN8	yellow	0.327011746	1.63E-07	0.490901323	2.90E-16
CNNM3	yellow	0.335670176	7.28E-08	0.77645704	1.22E-50
CRCP	yellow	0.186945838	0.003312562	0.668542083	4.24E-33
CTSB	yellow	0.273590766	1.40E-05	0.783276174	4.46E-52

DBT	yellow	0.180904248	0.004502977	0.7334475	1.26E-42
DCLRE1C	yellow	0.278872112	9.38E-06	0.917236585	4.06E-99
DDX27	yellow	0.276607137	1.12E-05	0.84573405	3.13E-68
DENND4C	yellow	0.370859651	2.10E-09	0.768471648	5.06E-49
DENR	yellow	0.295321945	2.55E-06	0.922707758	1.40E-102
DFFA	yellow	0.344119985	3.23E-08	0.822290008	1.99E-61
DPP7	yellow	0.204892342	0.001259931	0.728395874	8.74E-42
DSEL	yellow	0.21740767	0.000611091	0.808532647	6.91E-58
DTWD2	yellow	0.259424212	3.95E-05	0.833362473	1.65E-64
EIF2AK4	yellow	0.257990452	4.37E-05	0.884324548	2.38E-82
ELAVL3	yellow	0.095686882	0.135304768	0.724346296	3.99E-41
ERCC5	yellow	0.318452614	3.54E-07	0.711933234	3.56E-39
ERGIC1	yellow	0.313955798	5.26E-07	0.779976785	2.24E-51
EVI5	yellow	0.203595004	0.001354883	0.84169732	5.55E-67
FAM43A	yellow	0.176883384	0.005495948	0.407285413	3.31E-11
FASTK	yellow	0.021098934	0.74245939	0.611078555	1.79E-26
FCF1	yellow	0.195988713	0.002056392	0.61999886	2.06E-27
FXR1	yellow	0.207873091	0.001064449	0.371320471	2.00E-09
GGA3	yellow	0.260556602	3.64E-05	0.532369175	2.47E-19
GLO1	yellow	-0.313428916	5.51E-07	-0.799463822	1.05E-55
GNB4	yellow	0.180822556	0.004521426	0.540274918	5.74E-20
GNL3L	yellow	0.20997965	0.000943559	0.780196012	2.02E-51
GPSM1	yellow	0.215623262	0.000679214	0.71294795	2.49E-39
GSDMB	yellow	0.312525924	5.96E-07	0.785158566	1.75E-52
HMG2	yellow	-0.317788359	3.75E-07	-0.414111323	1.43E-11
HSCB	yellow	0.253397824	6.03E-05	0.80253949	1.97E-56
HYDIN	yellow	0.40683087	3.49E-11	0.710772689	5.35E-39
IFNAR2	yellow	0.236856414	0.000182697	0.689574724	6.55E-36
IL17RD	yellow	0.201297482	0.001539285	0.717994733	4.10E-40
ITSN1	yellow	0.456391849	5.23E-14	0.814478497	2.21E-59
JAKMIP3	yellow	0.362230821	5.21E-09	0.756852088	8.85E-47
KAT2A	yellow	0.291888043	3.37E-06	0.705095926	3.82E-38
KCNK12	yellow	0.437850459	6.75E-13	0.695367263	9.98E-37
KDSR	yellow	0.242578691	0.000125577	0.596687217	5.09E-25
KHDRBS1	yellow	-0.297721591	2.09E-06	-0.794381343	1.57E-54
KHSRP	yellow	0.106613645	0.095916353	0.648963525	1.11E-30
KLKB1	yellow	0.300961431	1.60E-06	0.501935987	4.86E-17
LCOR	yellow	0.042999345	0.502912529	0.528703457	4.80E-19
LLPH	yellow	0.269086169	1.96E-05	0.83402582	1.06E-64
LRCH4	yellow	0.301546502	1.52E-06	0.748875121	2.60E-45

LRP5	yellow	0.351444108	1.57E-08	0.763730516	4.32E-48
MAFF	yellow	0.279652895	8.84E-06	0.352654941	1.39E-08
MAX	yellow	0.208913618	0.00100306	0.67365583	9.23E-34
METTL2B	yellow	0.215262753	0.000693802	0.628832349	2.26E-28
MLXIPL	yellow	0.215316119	0.000691624	0.65480687	2.20E-31
NFIC	yellow	0.210760354	0.000902064	0.72014914	1.87E-40
NOP14	yellow	0.143677878	0.024506433	0.750304315	1.43E-45
NOTCH1	yellow	0.405339988	4.18E-11	0.738162255	2.00E-43
NR1H3	yellow	0.298144975	2.02E-06	0.669251381	3.44E-33
NUBPL	yellow	0.275855396	1.18E-05	0.799395588	1.09E-55
OPA3	yellow	0.251657804	6.80E-05	0.778302382	5.04E-51
PAPOLA	yellow	0.306623891	9.92E-07	0.634625219	5.09E-29
PDCD4	yellow	0.242706085	0.00012452	0.8627925	6.15E-74
PHAX	yellow	0.147627458	0.020799848	0.449744537	1.33E-13
PHF21A	yellow	0.344780534	3.03E-08	0.790740419	1.04E-53
PIAS4	yellow	0.283789355	6.41E-06	0.788934468	2.62E-53
PIGX	yellow	0.270323042	1.79E-05	0.760461629	1.84E-47
PLA2G2D	yellow	0.245398527	0.000104045	0.859142423	1.18E-72
PLEKHO1	yellow	0.276590772	1.12E-05	0.726770407	1.61E-41
POLR1B	yellow	0.233562152	0.000225782	0.681779099	7.68E-35
PPFIBP1	yellow	0.09922257	0.121391078	0.538804401	7.55E-20
PPP1R16A	yellow	0.417767358	9.10E-12	0.723601626	5.26E-41
PPP2R3A	yellow	0.188277143	0.003092049	0.798292694	1.97E-55
PRMT2	yellow	0.315747602	4.50E-07	0.759916004	2.33E-47
PRR14	yellow	0.246183393	9.87E-05	0.844309665	8.71E-68
PTGR2	yellow	0.229463705	0.000292615	0.588705846	3.03E-24
RAB11FIP3	yellow	0.151425627	0.017703711	0.648991827	1.10E-30
RAD51	yellow	0.211975059	0.000840832	0.819292414	1.25E-60
RAX2	yellow	0.186240308	0.003435107	0.685275147	2.57E-35
RBM39	yellow	0.207265975	0.001101844	0.709173233	9.36E-39
RBM6	yellow	0.44900419	1.48E-13	0.834561872	7.41E-65
RFX4	yellow	0.274748936	1.28E-05	0.708070249	1.37E-38
RNF213	yellow	0.255678949	5.14E-05	0.864837268	1.13E-74
RNF216	yellow	0.333869892	8.62E-08	0.725240534	2.86E-41
RPS6KB2	yellow	0.143181577	0.0250102	0.71261372	2.80E-39
RYBP	yellow	0.185129159	0.003636437	0.413611336	1.53E-11
SCD5	yellow	-0.194699891	0.002203785	-0.452642655	8.88E-14
SCRIB	yellow	0.382819113	5.68E-10	0.85635737	1.07E-71
SLC12A9	yellow	0.278685211	9.52E-06	0.717661094	4.62E-40
SLC38A2	yellow	0.376674195	1.12E-09	0.443800477	3.02E-13

SLC5A3	yellow	0.388100232	3.13E-10	0.705782845	3.02E-38
SLCO3A1	yellow	0.280418982	8.33E-06	0.765342926	2.09E-48
SNAPC1	yellow	0.200294801	0.001626741	0.776447821	1.22E-50
SORBS1	yellow	0.347366253	2.35E-08	0.783345307	4.31E-52
SPCS1	yellow	-0.413528349	1.54E-11	-0.772668774	7.28E-50
SPOP	yellow	0.237361902	0.00017681	0.698455142	3.59E-37
STK36	yellow	0.331522515	1.07E-07	0.721092444	1.33E-40
SYNJ2BP	yellow	0.30029561	1.69E-06	0.913954683	3.73E-97
THOC2	yellow	0.363251757	4.68E-09	0.845214858	4.55E-68
TMEM91	yellow	0.214454683	0.000727557	0.683223634	4.90E-35
TNFSF14	yellow	0.244046681	0.000113894	0.873594412	5.77E-78
TP53I13	yellow	0.319759951	3.15E-07	0.792531081	4.12E-54
TRABD	yellow	0.383363967	5.34E-10	0.855128199	2.77E-71
TSC22D1	yellow	-0.298694369	1.93E-06	-0.669208047	3.48E-33
TSPAN31	yellow	0.211260587	0.000876367	0.645973361	2.51E-30
TSPAN33	yellow	0.226173417	0.00035914	0.611877496	1.48E-26
TUBA1C	yellow	-0.336804439	6.53E-08	-0.80051434	5.95E-56
TXLNA	yellow	0.384629003	4.64E-10	0.838018759	7.13E-66
U2AF2	yellow	0.237721047	0.000172736	0.637733426	2.26E-29
UBE2H	yellow	0.271935168	1.59E-05	0.386469542	3.77E-10
UBXN2A	yellow	0.315232295	4.71E-07	0.897559625	2.13E-88
USP49	yellow	0.25552459	5.20E-05	0.715714692	9.30E-40
VGLL4	yellow	0.360897977	5.98E-09	0.742988644	2.90E-44
WVOX	yellow	0.340780912	4.46E-08	0.810859493	1.82E-58
XRCC2	yellow	0.151476819	0.017664884	0.353371964	1.29E-08
YY1	yellow	0.381325055	6.70E-10	0.494946606	1.52E-16
ZDHHC8	yellow	0.334765838	7.93E-08	0.818382863	2.16E-60
ZHX3	yellow	0.450191403	1.25E-13	0.765963602	1.58E-48
ZNF148	yellow	0.283393579	6.61E-06	0.723527717	5.41E-41
ZNF160	yellow	0.345485604	2.83E-08	0.763078907	5.77E-48
ZNF223	yellow	0.211373036	0.000870684	0.77384458	4.19E-50
ZNF320	yellow	0.15514756	0.015067155	0.650557768	7.17E-31
ZNF462	yellow	0.317026469	4.02E-07	0.762080983	8.99E-48
ZNF652	yellow	0.348756872	2.05E-08	0.829279021	2.39E-63
ZNF669	yellow	0.225721318	0.000369308	0.806440018	2.26E-57
ZNF672	yellow	0.314290683	5.11E-07	0.698764361	3.24E-37
ZNF682	yellow	0.254407435	5.62E-05	0.629363319	1.97E-28
ZNF738	yellow	0.25279178	6.29E-05	0.742828733	3.10E-44
ZNF771	yellow	0.347813646	2.25E-08	0.85575104	1.71E-71
ZNF777	yellow	0.173762736	0.006397484	0.554147302	4.02E-21

ZNF786	yellow	0.33653914	6.70E-08	0.915130733	7.54E-98
ZNF787	yellow	0.243748706	0.00011618	0.730520167	3.90E-42
ZNF827	yellow	0.127752392	0.045759234	0.668185753	4.71E-33
ZNF93	yellow	0.208271111	0.00104057	0.763573217	4.63E-48

MMbrown	p.MMbrown	MMgreen	p.MMgreen	MMblue	p.MMblue
-0.468969101	8.42E-15	-0.445472738	2.40E-13	0.674037898	8.23E-34
-0.088711297	0.16630311	-0.023776313	0.711153542	0.369011634	2.55E-09
-0.265714765	2.51E-05	-0.141686062	0.026582442	0.693106764	2.09E-36
-0.13751998	0.03141677	-0.114240093	0.074286728	0.738126601	2.03E-43
-0.3976382	1.04E-10	-0.100668665	0.116031607	0.743735376	2.14E-44
-0.123407151	0.05371482	-0.079439857	0.215334192	0.396335987	1.21E-10
-0.424542704	3.86E-12	-0.276118092	1.16E-05	0.858779191	1.58E-72
0.06656187	0.299418516	0.064643786	0.313591246	-0.450282059	1.24E-13
-0.477411097	2.37E-15	-0.237142867	0.000179339	0.848103139	5.56E-69
-0.464057933	1.73E-14	-0.247744279	8.88E-05	0.928814413	9.31E-107
-0.305794842	1.06E-06	-0.040680636	0.526238307	0.639941843	1.26E-29
-0.288824237	4.31E-06	-0.152265446	0.017076037	0.710377312	6.15E-39
-0.280120839	8.52E-06	0.144315089	0.023872468	0.86901974	3.24E-76
-0.388908848	2.86E-10	-0.233331402	0.00022913	0.834197969	9.45E-65
-0.624727197	6.36E-28	-0.523091596	1.31E-18	0.736286233	4.19E-43
-0.551265136	7.05E-21	-0.318124328	3.64E-07	0.784314738	2.67E-52
-0.392242379	1.95E-10	-0.202446305	0.001444386	0.881634467	3.28E-81
-0.362460309	5.09E-09	-0.182788837	0.004095757	0.416553071	1.06E-11
-0.230415856	0.000275621	-0.153933164	0.015886901	0.364593842	4.07E-09
-0.35820846	7.89E-09	-0.156604093	0.014132987	0.741328059	5.67E-44
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0.582855958	1.09E-23	0.173244491	0.006559385	-0.292358895	3.24E-06
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0.840945991	9.40E-67	0.52498793	9.34E-19	-0.442372473	3.67E-13
0.734325221	9.00E-43	0.518928348	2.72E-18	-0.226627801	0.000349183
0.739530586	1.16E-43	0.413750669	1.50E-11	-0.301234127	1.56E-06
0.730061825	4.64E-42	0.449374808	1.40E-13	-0.280618648	8.20E-06
0.792554788	4.07E-54	0.357035165	8.90E-09	-0.472017561	5.35E-15
0.77709912	8.97E-51	0.398529347	9.40E-11	-0.526036566	7.75E-19
0.755398536	1.65E-46	0.27082418	1.72E-05	-0.345592075	2.80E-08
0.648138866	1.39E-30	0.38615433	3.91E-10	-0.191335576	0.002634984
0.830226807	1.29E-63	0.543838019	2.93E-20	-0.453390236	8.00E-14
0.678513847	2.11E-34	0.357131812	8.81E-09	-0.19585064	0.002071741
0.777338306	8.00E-51	0.204733774	0.0012712	-0.334110957	8.43E-08
0.703971169	5.61E-38	0.391683816	2.08E-10	-0.480933868	1.38E-15
0.847079796	1.18E-68	0.537872126	8.98E-20	-0.407925071	3.06E-11
0.791647349	6.51E-54	0.327242402	1.60E-07	-0.309189907	7.96E-07
0.542559176	3.73E-20	0.223172168	0.000431825	-0.112061033	0.080018225
0.756115464	1.22E-46	0.49906557	7.78E-17	-0.284604065	6.01E-06
0.79223682	4.80E-54	0.530001023	3.80E-19	-0.422307609	5.13E-12
0.766768609	1.10E-48	0.276013721	1.17E-05	-0.358291225	7.82E-09
0.611498958	1.62E-26	0.305479508	1.09E-06	-0.298674113	1.93E-06
0.775913825	1.58E-50	0.732633367	1.73E-42	-0.239973382	0.000149118
0.757779726	5.92E-47	0.597467405	4.26E-25	-0.255102505	5.35E-05
0.79149878	7.03E-54	0.471487294	5.79E-15	-0.306991742	9.61E-07
0.710536115	5.82E-39	0.375030542	1.34E-09	-0.446625037	2.05E-13
0.678228287	2.30E-34	0.295313238	2.55E-06	-0.395763688	1.30E-10
0.69348318	1.85E-36	0.358323187	7.80E-09	-0.422020488	5.32E-12
0.711500491	4.15E-39	0.549383921	1.02E-20	-0.334789592	7.91E-08
0.67084397	2.14E-33	0.371527051	1.95E-09	-0.44075813	4.57E-13
0.843530782	1.52E-67	0.541037147	4.97E-20	-0.524371951	1.04E-18
0.67077293	2.19E-33	0.377955099	9.72E-10	-0.176622021	0.005566826
0.796454446	5.25E-55	0.57120976	1.28E-22	-0.448832397	1.51E-13
0.707908792	1.45E-38	0.468317212	9.28E-15	-0.337937305	5.86E-08
0.624696174	6.41E-28	0.179884653	0.004738167	-0.378838781	8.82E-10
0.747260634	5.07E-45	0.549963903	9.08E-21	-0.263199986	3.01E-05
0.547525428	1.45E-20	0.258592501	4.19E-05	-0.528205537	5.25E-19

0.730924975	3.34E-42	0.407340945	3.29E-11	-0.408238829	2.95E-11
0.690797604	4.42E-36	0.389332326	2.72E-10	-0.215420276	0.000687392
0.730485281	3.95E-42	0.508315895	1.68E-17	-0.359091692	7.21E-09
0.80694594	1.70E-57	0.527804844	5.65E-19	-0.393964568	1.60E-10
0.766185154	1.43E-48	0.674211401	7.81E-34	-0.279182711	9.16E-06
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0.802352309	2.18E-56	0.469838	7.41E-15	-0.495833848	1.32E-16
0.812463932	7.20E-59	0.613853017	9.20E-27	-0.390676254	2.34E-10
0.603395235	1.09E-25	0.203340818	0.001374239	-0.415917178	1.15E-11
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0.496730465	1.14E-16	0.165009803	0.009671346	-0.300975593	1.60E-06
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0.82278696	1.46E-61	0.414274368	1.41E-11	-0.439095558	5.71E-13
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0.698650771	3.37E-37	0.503350294	3.84E-17	-0.343181675	3.54E-08
0.816559618	6.45E-60	0.699992001	2.15E-37	-0.424229764	4.01E-12
0.683287351	4.80E-35	0.334866965	7.85E-08	-0.348316407	2.14E-08
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0.731246767	2.95E-42	0.452850773	8.63E-14	-0.353680019	1.25E-08
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0.767771485	6.97E-49	0.393893737	1.61E-10	-0.274607946	1.30E-05
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0.782715404	5.88E-52	0.604621542	8.20E-26	-0.507203568	2.02E-17
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0.736762044	3.47E-43	0.775075978	2.35E-50	-0.362740493	4.94E-09
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0.354043042	1.21E-08	0.801784562	2.98E-56	-0.06479919	0.312426894
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0.254031723	5.77E-05	0.512506992	8.23E-18	-0.155087041	0.015107112
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0.377600543	1.01E-09	0.513787533	6.61E-18	-0.293617113	2.93E-06
0.328918077	1.37E-07	0.716347015	7.41E-40	-0.143345663	0.024842668
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0.488925952	3.97E-16	0.786058272	1.12E-52	-0.191600328	0.00259846
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0.361982291	5.35E-09	0.838926295	3.82E-66	-0.054364567	0.396875267
0.598281629	3.54E-25	0.881717638	3.03E-81	-0.366767509	3.24E-09
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0.463306565	1.93E-14	0.833535727	1.47E-64	-0.003100368	0.961492793
0.465986569	1.31E-14	0.823170339	1.15E-61	-0.290614544	3.73E-06
0.529027353	4.53E-19	0.84210551	4.17E-67	-0.377019108	1.08E-09
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0.690576757	4.74E-36	0.797056313	3.82E-55	-0.419243618	7.56E-12
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0.429367185	2.07E-12	0.676223817	4.24E-34	-0.361231474	5.78E-09
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0.440314461	4.85E-13	0.767862134	6.69E-49	-0.137404937	0.03156026
0.326146415	1.77E-07	0.633201966	7.36E-29	-0.420524304	6.43E-12
0.528765231	4.75E-19	0.877424058	1.75E-79	-0.166009466	0.009234219
0.497234143	1.05E-16	0.53409012	1.80E-19	-0.265522837	2.55E-05
0.627949041	2.82E-28	0.803775498	9.96E-57	-0.222327507	0.000454617
0.249087521	8.11E-05	0.843203168	1.92E-67	0.015872393	0.804763293
0.33322735	9.16E-08	0.606824314	4.90E-26	-0.126315208	0.04827359
0.375999575	1.20E-09	0.691588247	3.42E-36	0.030149701	0.638633085
0.38504547	4.42E-10	0.858977884	1.35E-72	-0.185404583	0.003585562
0.22052781	0.000506947	0.650348443	7.59E-31	-0.089660016	0.16179996
0.264127016	2.82E-05	0.755532707	1.56E-46	-0.184514489	0.003752334
0.599253825	2.84E-25	0.59253642	1.30E-24	-0.19130854	0.00263874
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0.559777147	1.32E-21	0.824503045	5.01E-62	-0.374318964	1.44E-09
0.450751392	1.16E-13	0.773910845	4.06E-50	-0.187591622	0.003203878
0.697147266	5.55E-37	0.755829044	1.38E-46	-0.247051477	9.31E-05
0.391042284	2.24E-10	0.834121493	9.95E-65	-0.279305232	9.08E-06
0.46760338	1.03E-14	0.817739023	3.18E-60	-0.415202899	1.25E-11
0.588252265	3.35E-24	0.822913941	1.35E-61	-0.263329617	2.99E-05
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0.366795894	3.23E-09	0.353376315	1.29E-08	-0.144496269	0.023694812
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0.405549778	4.08E-11	0.536754312	1.10E-19	-0.189202493	0.002946706
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-0.381734535	6.40E-10	-0.734765984	7.58E-43	0.346078243	2.67E-08
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-0.330642994	1.17E-07	-0.648437394	1.28E-30	0.201488698	0.001523104
0.110294031	0.084923654	-0.377135481	1.06E-09	0.243358945	0.000119235
-0.281883332	7.44E-06	-0.661593094	3.21E-32	0.145740254	0.022505532
-0.355141651	1.08E-08	-0.776701122	1.08E-50	0.351734465	1.52E-08
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-0.312307359	6.08E-07	-0.645609368	2.77E-30	0.167113062	0.008772075
-0.052311479	0.414972116	-0.535387966	1.42E-19	0.298814614	1.91E-06
-0.468560263	8.95E-15	-0.787455686	5.53E-53	0.317978577	3.69E-07
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-0.151754179	0.0174558	-0.511715882	9.42E-18	0.294270049	2.78E-06
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-0.265299339	2.59E-05	-0.654129459	2.66E-31	0.37197907	1.86E-09
-0.139230223	0.029348347	-0.406057044	3.84E-11	0.086373842	0.177796673
-0.133727704	0.036450164	-0.270816832	1.72E-05	0.326639319	1.69E-07
-0.359238542	7.10E-09	-0.719710104	2.20E-40	0.23815492	0.00016793
-0.166514806	0.009019987	-0.363308419	4.66E-09	0.155886337	0.014586784
-0.05107507	0.426100351	-0.487908549	4.66E-16	0.35927903	7.07E-09
-0.403482283	5.22E-11	-0.764879493	2.58E-48	0.241335101	0.000136342
-0.020498386	0.749542109	-0.049038679	0.444801003	0.018069092	0.778401617
-0.062097293	0.333074277	-0.323961058	2.16E-07	0.39749537	1.06E-10
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-0.366642538	3.28E-09	-0.62823318	2.63E-28	0.196976137	0.001949611
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-0.156692665	0.014077855	-0.375797191	1.23E-09	-0.058929793	0.358368437
-0.386696143	3.67E-10	-0.705995316	2.81E-38	0.263419077	2.97E-05
-0.194693506	0.002204539	-0.524108141	1.09E-18	0.219980766	0.000523927
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-0.28134369	7.75E-06	-0.668740844	4.00E-33	0.353386051	1.29E-08
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-0.272657137	1.50E-05	-0.623703793	8.21E-28	0.190313944	0.002780338
-0.04292156	0.50368613	-0.253518797	5.98E-05	-0.078054972	0.223465905

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-0.128162835	0.045061625	-0.571390175	1.24E-22	0.098414294	0.124469423
-0.23282067	0.000236706	-0.512196521	8.68E-18	0.103321641	0.10668165