

id	z	HR	HR.95L	HR.95H	pvalue
GALNTL6 71169 AT	4.768496	664.3407	45.95384	9604.173	1.86E-06
SRSF5 28161 AD	4.571637	1.59E+08	48524.59	5.24E+11	4.84E-06
AKAP8L 48080 ES	-4.52571	1.58E-05	1.32E-07	0.001898	6.02E-06
PGPEP1 48422 ES	4.482982	14397452	10682.59	1.94E+10	7.36E-06
DNP1 76257 RI	4.458243	1.51E+17	4.24E+09	5.41E+24	8.26E-06
MAP1LC3A 59029 AP	-4.44407	3.83E-09	7.44E-13	1.97E-05	8.83E-06
TRAPPC3 1754 AD	4.440502	1.68E+10	515781.3	5.49E+14	8.97E-06
CHMP2A 52481 AP	-4.35995	4.05E-09	6.83E-13	2.40E-05	1.30E-05
APH1B 31024 ES	-4.33299	3.19E-16	3.13E-23	3.26E-09	1.47E-05
USHBP1 48249 AA	-4.3258	1.33E-06	2.88E-09	0.00061	1.52E-05
SULF2 59729 AA	-4.32368	8.18E-29	1.52E-41	4.41E-16	1.53E-05
CACNB1 40626 AT	-4.30182	0.000154	2.81E-06	0.008397	1.69E-05
BEX5 89679 AP	-4.29459	9.55E-10	7.30E-14	1.25E-05	1.75E-05
PDCD10 67560 ES	4.28643	4369.352	94.58917	201833.2	1.82E-05
MRPS35 20898 ES	-4.20204	6.28E-16	5.09E-23	7.74E-09	2.65E-05
MED31 38769 AP	-4.11002	8.38E-18	6.03E-26	1.17E-09	3.96E-05
SPTBN1 53578 AT	-4.09106	1.43E-31	2.40E-46	8.57E-17	4.29E-05
CHMP2A 52483 AP	4.082702	4.38E+08	31128.6	6.17E+12	4.45E-05
MAP4 64551 AA	-4.07677	2.16E-09	1.47E-13	3.17E-05	4.57E-05
GALNTL6 71170 AT	-4.04031	0.002844	0.000166	0.04887	5.34E-05
MUTYH 2603 ES	-4.03795	4.96E-11	4.93E-16	4.98E-06	5.39E-05
SUGP1 48620 ES	-4.03559	6.27E-05	5.71E-07	0.006894	5.45E-05
MYL12A 44489 AP	-4.01658	0.001133	4.14E-05	0.031022	5.90E-05
DCTN3 86189 ES	-4.0079	1.18E-05	4.61E-08	0.003036	6.13E-05
PCM1 82840 ES	-3.93907	2.96E-05	1.65E-07	0.005302	8.18E-05
FOXRED1 19377 ES	3.914589	468.3061	21.54982	10176.91	9.06E-05
FN1 57394 AA	3.903323	62738494	7623.973	5.16E+11	9.49E-05
KAT5 16912 AP	3.902028	22060.32	145.1587	3352590	9.54E-05
KAT5 16911 AP	-3.89967	4.54E-05	2.98E-07	0.006916	9.63E-05
ADORA3 4175 AT	3.892528	526.7705	22.4508	12359.79	9.92E-05
ADORA3 4174 AT	-3.89253	0.001898	8.09E-05	0.044542	9.92E-05
TPM2 86278 ME	-3.88442	0.00411	0.000257	0.065737	0.000103
C19orf70 46865 AP	-3.87183	2.49E-11	1.07E-16	5.80E-06	0.000108
C19orf70 46864 AP	3.871695	4.02E+10	172229.5	9.39E+15	0.000108
NDUFAF6 84593 AT	-3.86624	2.38E-23	8.09E-35	7.01E-12	0.000111
TPM2 86276 AT	-3.84791	0.005143	0.000351	0.07534	0.000119
NAP1L4 13938 ES	3.845235	2.77E+08	13788.68	5.58E+12	0.00012
MRPL22 74297 ES	-3.83525	6.57E-16	1.14E-23	3.77E-08	0.000125
DECR1 84407 ES	3.818454	119.2356	10.24739	1387.391	0.000134
FOLH1 15817 ES	-3.81746	0.00068	1.61E-05	0.028762	0.000135
RFESD 72811 AP	3.751415	54.03907	6.721054	434.4885	0.000176
HYDIN 37421 ES	-3.7082	0.007876	0.000609	0.10191	0.000209
PIAS3 7291 AT	-3.70772	2.32E-26	6.51E-40	8.24E-13	0.000209
MORF4L2 89772 ES	-3.69012	2.80E-06	3.14E-09	0.00249	0.000224
SEC24C 12227 ES	3.66828	156142.4	262.1923	92986883	0.000244
EEF1D 85436 AP	-3.66804	3.12E-08	3.05E-12	0.00032	0.000244
RFESD 72810 AP	-3.64609	0.019659	0.002378	0.162504	0.000266
MPV17 52961 AP	-3.63823	9.46E-14	9.12E-21	9.82E-07	0.000275
DTNB 52870 ES	-3.6268	1.44E-12	5.75E-19	3.61E-06	0.000287
MAGIX 89092 RI	3.622995	137.6679	9.588907	1976.497	0.000291
TLE3 31424 ES	-3.59974	3.61E-11	7.44E-17	1.75E-05	0.000319
PHC2 1670 AP	-3.5965	0.00273	0.000109	0.068136	0.000323
PHC2 1671 AP	3.58153	363.3206	14.42752	9149.31	0.000342
GMPR2 26918 RI	3.574447	3545390	908.4677	1.38E+10	0.000351
PPIH 2096 AP	-3.56651	5.17E-09	1.45E-13	0.000185	0.000362
ICAM2 43038 AP	3.560748	33818.82	108.6791	10523755	0.00037
ICAM2 43039 AP	-3.56071	2.96E-05	9.50E-08	0.009202	0.00037

C11orf74 15436 AP	-3.53995	4.97E-05	2.06E-07	0.012002	0.0004
C11orf74 15435 AP	3.539924	20110.13	83.31554	4854044	0.0004
HMGA1 75775 ES	-3.53511	0.030435	0.00439	0.210976	0.000408
FAM84A 52720 ES	3.534721	2157.861	30.57341	152301.1	0.000408
CCDC74A 55385 AT	-3.53367	4.80E-06	5.38E-09	0.004277	0.00041
LDHA 14634 ES	-3.52517	9.76E-09	3.43E-13	0.000277	0.000423
CFLAR 56792 AT	3.523132	1.82E+13	764352.2	4.33E+20	0.000426
YPEL4 15880 RI	3.48036	11.69854	2.928286	46.7358	0.000501
PLEKHA4 50820 ES	-3.47873	0.000279	2.77E-06	0.028065	0.000504
MORF4L2 89774 ES	-3.47483	0.004597	0.000221	0.095707	0.000511
MASTL 11063 ES	-3.4705	0.000368	4.23E-06	0.032	0.000519
POLM 79444 AA	-3.4578	4.54E-05	1.57E-07	0.013149	0.000545
TMSB4X 88496 RI	-3.45766	1.26E-05	2.10E-08	0.00754	0.000545
TRMT10B 86424 AT	-3.45204	1.81E-07	2.69E-11	0.001218	0.000556
TRMT10B 86423 AT	3.452011	5526526	820.8418	3.72E+10	0.000556
SP140 57871 AT	3.449762	41.9161	5.019192	350.0483	0.000561
SEC14L1 43712 AA	-3.44294	9.64E-24	7.61E-37	1.22E-10	0.000575
PTS 18764 ES	-3.43826	5.56E-09	1.09E-13	0.000282	0.000585
PLCB2 29965 ES	-3.43404	1.46E-05	2.55E-08	0.008408	0.000595
C11orf74 15441 ES	3.43381	138.9292	8.312296	2322.019	0.000595
RAP1A 4176 AP	3.424157	3124.737	31.21806	312767	0.000617
SCD5 69716 AT	-3.41915	9.82E-11	1.80E-16	5.36E-05	0.000628
IQCA1 58093 ES	-3.40816	3.00E-07	5.31E-11	0.001691	0.000654
SCRN2 42115 AP	-3.40204	1.38E-05	2.18E-08	0.008699	0.000669
SCRN2 42116 AP	3.402036	72614.97	114.9518	45870820	0.000669
ZNF407 45821 AT	-3.40116	2.78E-16	3.02E-25	2.56E-07	0.000671
MKRN1 81998 AP	-3.39559	3.81E-09	5.26E-14	0.000276	0.000685
DENND3 85329 ES	-3.38896	2.55E-06	1.49E-09	0.004381	0.000702
SHROOM4 89139 AP	3.388611	14.70205	3.105772	69.59635	0.000702
C2CD3 17760 AT	-3.38627	1.04E-06	3.58E-10	0.00302	0.000709
LUC7L 32849 AD	3.380954	135.5039	7.871245	2332.707	0.000722
SLC25A35 39157 RI	-3.37871	4.60E-09	6.71E-14	0.000316	0.000728
USP38 70697 AT	-3.37665	1.11E-08	2.67E-13	0.000459	0.000734
TM4SF18 67217 AP	3.376637	5264.799	36.41759	761118.9	0.000734
C2CD3 17761 AT	3.373388	820706.5	300.6074	2.24E+09	0.000742
CENPM 62469 ES	-3.37302	7.98E-07	2.28E-10	0.002789	0.000743
BTBD11 24190 AP	3.368431	39.19647	4.636562	331.3583	0.000756
MMAB 24330 ES	3.366334	43.5433	4.838382	391.8704	0.000762
MORF4L2 89771 ES	-3.3629	0.011637	0.000868	0.155996	0.000771
LONP1 46920 RI	-3.33785	1.55E-11	6.94E-18	3.45E-05	0.000844
CYB5R2 14205 AP	-3.33388	0.000525	6.19E-06	0.044493	0.000856
TPM3 7785 AP	-3.32924	4.66E-05	1.31E-07	0.01653	0.000871
ELP2 45235 ES	-3.32841	3.64E-05	8.85E-08	0.014958	0.000873
ELMO2 59685 AA	-3.32832	0.000444	4.72E-06	0.041863	0.000874
DPYSL3 73958 AP	3.313645	68.95911	5.637625	843.5038	0.000921
DPYSL3 73957 AP	-3.31288	0.014507	0.001186	0.177511	0.000923
NSL1 9746 ES	3.311022	34779.74	71.29877	16965658	0.00093
VPS13D 706 AP	3.305177	18.54388	3.282161	104.7711	0.000949
SEPT11 69618 AT	3.297266	1.44E+10	13179.85	1.57E+16	0.000976
CCDC91 99554 ES	-3.28343	1.22E-05	1.43E-08	0.010463	0.001026
ATG13 15599 ES	3.28174	14205.1	47.03991	4289651	0.001032
FNTA 83754 AD	3.278049	34188.86	66.53491	17567898	0.001045
NAT9 43295 ES	-3.27394	1.10E-11	3.02E-18	4.00E-05	0.001061
FN1 57397 ES	3.273291	1242.332	17.43758	88509.38	0.001063
XRN2 58833 AP	-3.27191	4.40E-15	1.10E-23	1.75E-06	0.001068
WDR6 64798 ES	-3.26906	2.54E-07	2.82E-11	0.002286	0.001079
DMKN 49196 ES	-3.26711	4.70E-05	1.19E-07	0.018549	0.001087
VPS13D 704 AP	-3.26588	0.011487	0.000787	0.167625	0.001091

MMADHC 55560 AP	-3.26524	2.78E-08	8.09E-13	0.000954	0.001094
NFATC1 46245 ES	-3.26387	1.04E-11	2.63E-18	4.09E-05	0.001099
ARIH1 31555 ES	-3.25646	1.65E-17	1.31E-27	2.08E-07	0.001128
CYB5R2 14204 AP	3.254309	1702.966	19.28219	150402.8	0.001137
SHROOM4 89138 AP	-3.25314	0.075395	0.015884	0.35787	0.001141
CASP8 56824 ES	-3.25207	0.000163	8.51E-07	0.031272	0.001146
CCDC53 24021 ME	-3.24934	0.009606	0.000583	0.15829	0.001157
CKAP2 26001 AT	-3.24456	1.71E-09	8.62E-15	0.000338	0.001176
ERG 60587 AP	3.244089	173.8469	7.70437	3922.804	0.001178
SRSF5 28162 AD	3.243106	55432.99	75.31511	40799477	0.001182
SEPT11 69616 AT	-3.23706	1.51E-10	1.71E-16	0.000133	0.001208
ZNF223 50275 ES	3.235686	16.52802	3.022062	90.39374	0.001214
WDR74 16457 ES	-3.23518	8.65E-24	9.22E-38	8.11E-10	0.001216
TPM1 30979 AP	3.234242	98.99982	6.113245	1603.234	0.00122
ARMCX4 89644 AP	3.231204	46.23641	4.519063	473.0639	0.001233
C19orf47 49883 AD	3.228169	443.5202	10.96113	17946.15	0.001246
STXBP5 78057 ES	3.227956	36.19022	4.094862	319.8476	0.001247
ATP5C1 10726 ES	-3.22362	1.33E-07	8.74E-12	0.002014	0.001266
TMEM161B 72731 AT	-3.22229	0.000915	1.30E-05	0.06452	0.001272
TMEM161B 72730 AT	3.222242	1092.471	15.49757	77011.57	0.001272
S100A5 7709 AP	3.217233	42.7841	4.340025	421.767	0.001294
ANK3 11842 AP	-3.21679	0.024276	0.002519	0.233925	0.001296
IL1R1 54773 AP	3.214664	152.0707	7.106632	3254.071	0.001306
ARMCX4 89643 AP	-3.21264	0.021793	0.002111	0.224943	0.001315
UGP2 53757 ES	3.205183	6924.188	31.04489	1544357	0.00135
DIP2A 60939 AT	3.199402	77546022	1138.649	5.28E+12	0.001377
PDE4D 72138 AP	3.194542	32.28732	3.829901	272.1926	0.001401
NR1H3 15694 AP	3.181302	3172.586	22.09185	455611.6	0.001466
STAT3 41040 AA	3.173961	12244.19	36.60817	4095263	0.001504
SMIM12 1697 AP	-3.17044	1.92E-14	6.35E-23	5.79E-06	0.001522
MYL12A 44492 AD	-3.16571	1.97E-23	1.73E-37	2.25E-09	0.001547
MAGIX 89091 ES	-3.16393	0.01353	0.000941	0.194492	0.001557
TM4SF18 67218 AP	-3.15886	0.000277	1.71E-06	0.044622	0.001584
CDK11A 214 AD	3.15882	1064.059	14.08684	80374.38	0.001584
NEXN 3539 RI	-3.15421	1.40E-05	1.35E-08	0.014525	0.001609
LCMT1 35668 ES	-3.1468	2.97E-28	2.13E-45	4.15E-11	0.001651
EIF4H 80063 ES	3.145897	13427371	486.5115	3.71E+11	0.001656
PCGF3 68403 AA	-3.14541	8.96E-09	8.67E-14	0.000927	0.001659
AUTS2 79911 ES	-3.14458	0.001287	2.03E-05	0.081501	0.001663
FAM65B 75542 AT	-3.14105	0.001436	2.42E-05	0.085327	0.001683
ZNF720 36287 RI	3.138432	399.1222	9.477733	16807.66	0.001699
PLK3 2578 ES	-3.13796	5.22E-06	2.62E-09	0.0104	0.001701
COQ2 69778 ES	-3.13619	1.14E-20	3.92E-33	3.31E-08	0.001712
DAZAP1 46478 AA	3.135122	2.31E+11	18187.18	2.94E+18	0.001718
BCAS3 42872 ES	-3.13507	0.000155	6.41E-07	0.037296	0.001718
SMAP1 76647 ES	3.132244	546.9766	10.58566	28263.09	0.001735
LUC7L 32850 ES	3.128692	36.32551	3.826658	344.8289	0.001756
CCDC66 65343 AT	-3.12747	0.000618	6.02E-06	0.063395	0.001763
FN1 57396 ES	3.126625	4506.673	23.08825	879672.5	0.001768
INADL 3238 AT	3.117651	127319	78.6349	2.06E+08	0.001823
FGD4 21032 AT	-3.11437	7.89E-08	2.67E-12	0.002329	0.001843
USP36 43913 AT	-3.10662	3.45E-06	1.24E-09	0.009641	0.001892
EPB41L1 59270 AA	3.105602	1173.03	13.55969	101477.1	0.001899
RGS6 28207 AT	-3.09686	4.79E-08	1.11E-12	0.002055	0.001956
FAM129B 87639 AP	-3.0933	2.40E-17	7.07E-28	8.14E-07	0.001979
CPSF7 16199 AD	-3.09013	5.80E-161	1.35E-262	2.49E-59	0.002001
ARV1 10264 AD	-3.08102	1.15E-38	8.47E-63	1.57E-14	0.002063
PSMC3IP 41080 AD	3.078103	43.16368	3.926147	474.5374	0.002083

USHBP1 48250 ES	-3.07234	0.000274	1.46E-06	0.05132	0.002124
GSTT1 61366 ES	-3.07168	1.25E-14	1.67E-23	9.28E-06	0.002129
MORF4L2 89775 ES	-3.07139	1.50E-07	6.62E-12	0.003392	0.002131
IRF5 81734 AD	-3.06858	3.35E-05	4.64E-08	0.024168	0.002151
SULT1A1 35820 ES	3.068368	172.8294	6.431425	4644.381	0.002152
KLHL7 78948 AP	-3.06747	1.03E-08	8.16E-14	0.001308	0.002159
PHF19 87400 AP	3.067154	61.6975	4.428493	859.5657	0.002161
TOM1L1 42551 AA	-3.0625	4.81E-05	8.28E-08	0.027886	0.002195
RBCK1 58452 AD	-3.06226	4.77E-11	1.18E-17	0.000193	0.002197
S100A5 7710 AP	-3.06165	0.026557	0.002602	0.270997	0.002201
EIF3E 84876 ES	-3.06145	0.055145	0.008626	0.352535	0.002203
PHF19 87399 AP	-3.05789	0.01632	0.001167	0.228181	0.002229
CCDC90B 18069 AD	3.055456	17695.22	33.34349	9390764	0.002247
MTMR11 7415 ES	-3.05506	2.29E-07	1.26E-11	0.00417	0.00225
GPR97 36593 AT	-3.05214	2.24E-08	2.75E-13	0.001832	0.002272
NAPA 50659 ES	-3.05162	4.75E-32	3.62E-52	6.23E-12	0.002276
TMEM66 83266 ES	-3.04724	0.000806	8.26E-06	0.078743	0.002309
MAP2 57224 ES	-3.04195	0.000662	5.93E-06	0.074016	0.002351
USP4 64850 AT	-3.03956	3.14E-10	2.34E-16	0.000422	0.002369
WWP2 37322 ES	3.037062	1186.071	12.30942	114283.5	0.002389
DNAJC19 67760 ES	-3.03686	4.66E-08	8.64E-13	0.002513	0.002391
CITED1 89450 AP	3.033108	26421.66	36.68879	19027728	0.00242
SOX7 82607 AP	-3.03294	0.00201	3.63E-05	0.111156	0.002422
GUSB 79857 ES	-3.02929	0.001622	2.54E-05	0.103562	0.002451
ELMO1 79267 AP	-3.02902	0.031754	0.003407	0.295956	0.002453
CREB1 57176 AT	-3.02739	2.17E-12	6.10E-20	7.72E-05	0.002467
FLNB 65418 ES	-3.02698	2.00E-17	3.07E-28	1.30E-06	0.00247
PRSS23 18202 AT	3.017357	20743.39	32.56819	13211914	0.00255
PRSS23 18201 AT	-3.01618	4.83E-05	7.58E-08	0.030807	0.00256
PLCD4 57506 ES	-3.01593	0.044739	0.00594	0.336948	0.002562
SPTBN4 49912 AT	3.015783	130.1044	5.498053	3078.756	0.002563
ELMO1 79266 AP	3.014488	13.52601	2.487162	73.55889	0.002574
ZNF415 51674 ES	3.006671	33.13955	3.382794	324.6518	0.002641
TPM1 30980 AP	-3.00657	0.00971	0.000473	0.199225	0.002642
ACOT8 59626 ES	3.005682	28816.53	35.60989	23319156	0.00265
RAP1A 4178 AP	-3.00485	0.000779	7.32E-06	0.083011	0.002657
ZDHHC4 78750 ES	3.000422	95661.12	53.35466	1.72E+08	0.002696
CABIN1 61387 AP	2.998667	305.4924	7.257296	12859.55	0.002712
C8orf59 84338 ES	2.998652	2901915	173.2115	4.86E+10	0.002712
SOX7 82608 AP	2.997333	457.885	8.334528	25155.43	0.002724
AGO3 1741 AT	-2.99725	0.000276	1.30E-06	0.058622	0.002724
AGR2 78873 AD	2.996036	556527.5	97.02236	3.19E+09	0.002735
SPATA9 72817 AT	-2.99155	0.022075	0.001815	0.268485	0.002776
SPATA9 72815 AT	2.990047	45.24301	3.718296	550.5021	0.002789
GRAMD3 73157 AP	-2.98803	4.93E-06	1.63E-09	0.014927	0.002808
FBXW7 70849 AP	-2.98788	0.019337	0.001453	0.257316	0.002809
CEP57 18385 AP	-2.98519	7.45E-05	1.45E-07	0.038224	0.002834
MLX 41073 AD	2.984921	1.25E+08	602.4397	2.58E+13	0.002837
PAM16 33651 AT	-2.98051	4.50E-11	7.06E-18	0.000286	0.002878
PAM16 33652 AT	2.980474	2.22E+10	3490.029	1.42E+17	0.002878
STXBP2 47123 AP	2.979008	76.17515	4.402722	1317.97	0.002892
STXBP2 47122 AP	-2.97901	0.013128	0.000759	0.227133	0.002892
TK2 36723 RI	-2.9785	0.017497	0.001221	0.250705	0.002897
SCN1B 49017 AA	2.978051	6E+18	2628074	1.37E+31	0.002901
RFXANK 48606 AP	-2.9773	1.34E-07	3.99E-12	0.004478	0.002908
RFXANK 48607 AP	2.977295	7483878	223.2873	2.51E+11	0.002908
TMEM116 24566 ES	2.976419	127.2451	5.232876	3094.153	0.002916
PUS1 25231 AD	-2.9696	0.00344	8.14E-05	0.145358	0.002982

GALK1 43493 AT	2.969535	683.0633	9.197058	50730.95	0.002983
GALK1 43494 AT	-2.96953	0.001464	1.97E-05	0.108731	0.002983
USP15 22830 ES	2.9682	1625.313	12.32222	214380.3	0.002995
ZNF773 52278 AT	2.966175	69503.53	43.90828	1.1E+08	0.003015
ACAA2 45491 AP	-2.96616	8.36E-09	3.84E-14	0.001819	0.003015
ZNF773 52279 AT	-2.96604	1.44E-05	9.09E-09	0.022786	0.003017
ACLY 40961 ES	-2.96494	4.33E-20	6.85E-33	2.73E-07	0.003027
WFDC8 59591 AT	-2.9631	0.000201	7.19E-07	0.056011	0.003046
USP36 43912 AT	2.961239	157465.4	57.18859	4.34E+08	0.003064
MYO5C 30648 ES	-2.95903	2.78E-18	6.52E-30	1.18E-06	0.003086
TRA2A 78976 ES	2.957816	211.9163	6.09196	7371.765	0.003098
GPN3 24424 AP	-2.95659	1.10E-12	1.31E-20	9.32E-05	0.003111
SNX17 52998 ES	-2.95491	0.000691	5.54E-06	0.086274	0.003128
INO80C 45173 AT	-2.95184	1.73E-14	1.26E-23	2.38E-05	0.003159
INO80C 45172 AT	2.951637	5.76E+13	41996.03	7.91E+22	0.003161
GOLT1B 20705 ES	-2.9508	0.005867	0.000193	0.178099	0.003169
ADAMTSL1 85950 AT	2.949844	623.4832	8.666831	44852.77	0.003179
ZNF346 74698 AT	-2.94981	9.72E-08	2.13E-12	0.004435	0.00318
ZNF346 74699 AT	2.949117	10260030	224.6905	4.69E+11	0.003187
IRF7 13720 RI	2.948615	331.3492	6.998988	15686.88	0.003192
ZNF707 85473 AP	-2.9473	3.08E-05	3.08E-08	0.030814	0.003206
CACNB3 21469 AP	2.946074	42.46944	3.507115	514.284	0.003218
CABIN1 61386 AP	-2.94319	1.62E-05	1.05E-08	0.025118	0.003249
PHPT1 88225 ES	2.942615	1230930	108.0838	1.4E+10	0.003255
CD63 22242 AP	-2.94027	1.14E-17	5.82E-29	2.25E-06	0.003279
TARBP2 22086 ES	-2.93882	3.50E-18	7.98E-30	1.53E-06	0.003295
FAM86C1 17437 ES	2.937057	103.7284	4.684294	2296.95	0.003313
MTHFS 32161 AD	2.936624	36234.58	32.82988	39992377	0.003318
MKL2 34066 AP	-2.93559	0.000739	6.00E-06	0.091071	0.003329
ZNF7 85660 AA	-2.93351	0.000648	4.80E-06	0.087464	0.003352
PLEKHA5 20649 ES	2.928399	243.1828	6.152322	9612.288	0.003407
NFYC 2019 AA	2.92639	29177.56	29.82364	28545489	0.003429
IQCK 34339 ES	-2.92374	2.09E-11	1.44E-18	0.000301	0.003459
CCDC66 65341 AT	2.922051	795.4801	9.016409	70181.89	0.003477
SEC31A 69731 ES	-2.92064	0.00366	8.48E-05	0.157967	0.003493
KANK2 47641 AA	2.916102	513.5416	7.740152	34072.33	0.003544
IFT74 86038 AP	2.915018	5887	17.18457	2016737	0.003557
SECISBP2 86799 AA	-2.90922	0.000334	1.52E-06	0.073413	0.003623
MYPN 11921 AT	-2.90642	0.002078	3.23E-05	0.133818	0.003656
ABC8 82312 ES	2.905291	128.866	4.859588	3417.256	0.003669
GLRX 72830 AA	2.902224	418126.5	66.84358	2.62E+09	0.003705
PRPSAP2 39673 ES	-2.90083	0.000348	1.60E-06	0.075523	0.003722
NEDD1 23836 ES	-2.89968	0.002012	3.03E-05	0.133723	0.003735
DTNA 45112 ES	-2.89917	6.97E-06	2.27E-09	0.021349	0.003742
EMC3 63298 AT	-2.8956	5.98E-23	5.42E-38	6.59E-08	0.003784
SYTL3 78285 ES	-2.89547	0.000528	3.20E-06	0.087331	0.003786
TTC9C 16416 ES	2.894232	271176.4	56.73783	1.3E+09	0.003801
RPS6KC1 9783 ES	-2.89402	0.013098	0.000695	0.246786	0.003803
EVL 29239 AP	2.893832	16.28663	2.460764	107.7935	0.003806
BOP1 85554 RI	2.893563	215.2773	5.658936	8189.584	0.003809
RARA 40857 AP	2.88461	766.478	8.406415	69885.74	0.003919
IDH3G 90494 RI	2.882418	1.52E+09	867.3089	2.65E+15	0.003946
PACSIN2 62559 ES	-2.88157	0.000269	1.01E-06	0.072165	0.003957
ACLY 40962 AA	2.879099	553.4423	7.5112	40778.88	0.003988
SEC24B 70325 AA	-2.87868	0.001133	1.12E-05	0.114797	0.003993
PCGF2 40588 ES	-2.87858	3.76E-10	1.44E-16	0.000983	0.003995
CDKN1A 75989 AD	2.878506	97488.62	39.08356	2.43E+08	0.003996
PAM 72901 ES	-2.87793	2.37E-09	3.17E-15	0.001774	0.004003

CBWD1 85691 ES	-2.87643	2.21E-16	4.75E-27	1.03E-05	0.004022
UBAC2 26180 ES	-2.87636	3.26E-10	1.12E-16	0.000949	0.004023
IWS1 55221 ES	-2.87574	5.44E-11	5.50E-18	0.000539	0.004031
CTNNAL1 87155 AA	-2.87395	8.37E-16	4.37E-26	1.60E-05	0.004054
ZNF74 61154 ES	-2.8732	0.005055	0.000137	0.186264	0.004063
AKT2 49868 AP	-2.86754	0.022596	0.001694	0.301334	0.004137
AKT2 49869 AP	2.867537	44.25599	3.318552	590.1949	0.004137
LRRC23 19994 AP	-2.86679	0.000769	5.72E-06	0.103519	0.004147
LRRC23 19997 AP	2.866763	1299.758	9.659626	174889.8	0.004147
ROGD1 33859 ES	-2.86422	1.42E-06	1.42E-10	0.014265	0.00418
SEC11A 32313 ES	2.858297	293.9297	5.966823	14479.18	0.004259
TTLL5 28518 AT	-2.85785	1.30E-07	2.48E-12	0.006871	0.004265
EIF4E 70009 AP	2.856943	193.7948	5.225702	7186.869	0.004277
EIF4E 70010 AP	-2.85621	0.005163	0.000139	0.191573	0.004287
BIN1 55202 ES	2.855643	5814.605	15.16178	2229924	0.004295
ZBTB45 52479 AD	2.854409	1263.605	9.373626	170339.4	0.004312
TOP3B 61268 AD	2.852906	871.1037	8.321927	91183.4	0.004332
HIST1H2BD 75606 AT	-2.85184	0.000389	1.77E-06	0.08583	0.004347
IFT74 86040 AP	-2.85147	0.000416	1.98E-06	0.087711	0.004352
DMKN 49144 ES	-2.84576	0.000112	2.13E-07	0.058915	0.004431
FAM185A 81134 ES	-2.84454	0.001915	2.57E-05	0.142833	0.004448
NOLC1 12939 AD	2.842289	7162.993	15.72996	3261831	0.004479
KLC1 29478 AD	-2.84197	3.98E-05	3.68E-08	0.043103	0.004484
IFIH1 55768 AT	-2.84184	1.11E-07	1.77E-12	0.006948	0.004485
IFIH1 55767 AT	2.841836	9005757	143.9165	5.64E+11	0.004485
LEF1 70290 AT	-2.84001	1.39E-17	3.25E-29	5.98E-06	0.004511
MIA3 9888 AP	-2.83919	0.004708	0.000116	0.190251	0.004523
MIA3 9887 AP	2.838702	212.5278	5.25371	8597.367	0.00453
BTBD11 24189 AP	-2.83779	0.022914	0.001688	0.310971	0.004543
EIF3E 84875 ES	-2.83379	0.005818	0.000166	0.204525	0.0046
TJP2 86531 AP	2.833494	486.1368	6.73431	35093.28	0.004604
IL1R1 54771 AP	-2.83325	0.010522	0.000451	0.245672	0.004608
ATP2A2 24418 RI	-2.8332	0.00015	3.41E-07	0.066324	0.004608
CIRBP 46427 AA	-2.83093	0.001015	8.59E-06	0.119953	0.004641
LIPT1 54676 ES	2.830848	80.95949	3.864213	1696.19	0.004642
NDRG2 26511 ES	2.829869	1227.235	8.903075	169166.8	0.004657
PAM 72902 ES	-2.8298	5.89E-05	6.93E-08	0.050097	0.004658
C11orf80 17121 AA	2.828712	10849.97	17.35212	6784291	0.004674
METTL21A 57191 AT	2.82543	486.4601	6.653916	35564.53	0.004722
TSR1 38388 AD	-2.82454	4.57E-18	4.25E-30	4.93E-06	0.004735
C19orf44 48172 AA	-2.82361	3.73E-10	1.07E-16	0.001307	0.004749
FAM86C1 17436 ES	2.822222	451.0436	6.470369	31441.84	0.004769
YAF2 21146 ES	2.818367	16.52414	2.349676	116.2063	0.004827
TMEM134 17233 AA	2.818307	8763.092	15.87725	4836591	0.004828
RPS6KC1 9781 RI	2.816097	383.6051	6.102916	24111.89	0.004861
PDLIM5 69971 AT	-2.81422	0.00034	1.31E-06	0.088577	0.00489
ELP4 14825 ES	2.813912	1076.147	8.319415	139203.7	0.004894
PFKFB2 9614 AP	2.812449	2750.051	11.02815	685770.3	0.004917
SP140 57870 AT	-2.80694	0.01664	0.000953	0.290565	0.005002
HOXB3 42198 AT	-2.80591	1.84E-05	9.02E-09	0.03733	0.005018
HOXB3 42197 AT	2.805885	54492.74	26.7865	1.11E+08	0.005018
USP4 64851 AT	2.805583	1.68E+10	1206.67	2.33E+17	0.005023
MKNK2 46567 AT	-2.80481	6.83E-20	2.77E-33	1.69E-06	0.005035
ZNF384 19927 AD	2.800156	28.29965	2.726526	293.7328	0.005108
CHEK2 61544 ES	2.800051	18.18593	2.387553	138.5218	0.005109
C12orf57 20020 AD	-2.79831	2.90E-13	4.79E-22	0.000175	0.005137
EMC9 26859 RI	2.797697	1428.151	8.803486	231682.8	0.005147
HNRNP1 74913 AD	-2.7973	1.22E-06	8.74E-11	0.016965	0.005153

ANK3 11843 AP	2.795923	29.74136	2.75755	320.7734	0.005175
PCM1 82839 ES	-2.79243	8.99E-05	1.30E-07	0.062188	0.005231
TMUB1 82347 RI	-2.78972	0.003942	8.06E-05	0.192704	0.005275
C6orf1 75776 ES	-2.78799	3.20E-21	1.25E-35	8.19E-07	0.005304
MCRS1 21591 ES	2.785898	2240159	76.32471	6.57E+10	0.005338
IL32 33385 RI	2.784667	11896.8	16.10548	8787929	0.005358
KDM4C 85835 ES	-2.78153	1.28E-09	6.89E-16	0.00236	0.00541
GPR64 88618 ES	-2.77937	0.002929	4.79E-05	0.17912	0.005446
RBM38 59898 ES	-2.77876	9.37E-08	1.03E-12	0.008492	0.005457
ZNF438 11137 ES	2.777176	59.75817	3.332138	1071.696	0.005483
PKP4 55684 ES	-2.77674	2.85E-10	5.23E-17	0.001558	0.005491
PPIA 97441 ES	2.774926	436.2771	5.960275	31934.39	0.005521
SLC44A5 3480 AT	2.768846	13.1313	2.121773	81.26738	0.005626
SNX3 77149 AD	-2.7671	6.39E-21	3.18E-35	1.29E-06	0.005656
ZNF205 33452 AA	-2.7664	0.003642	6.82E-05	0.194586	0.005668
NKX2-1 102505 AA	2.765791	815.9791	7.052322	94411.73	0.005678
SEMA4B 32468 AP	2.764866	131.8082	4.141459	4194.993	0.005695
PIGG 68356 AT	-2.76344	6.93E-10	2.21E-16	0.002172	0.00572
PIGG 68354 AT	2.763434	1.44E+09	460.2813	4.52E+15	0.00572
ZNF329 52413 RI	-2.76268	7.58E-17	2.77E-28	2.07E-05	0.005733
HLTF 67208 RI	-2.7624	1.63E-12	7.05E-21	0.000377	0.005738
DPH6 29892 AT	-2.7614	2.55E-09	2.02E-15	0.003204	0.005755
DPH6 29893 AT	2.76139	3.93E+08	312.091	4.95E+14	0.005756
CPSF7 16201 ES	-2.75895	0.007371	0.000225	0.241231	0.005799
CD320 47212 ES	2.758078	894.8817	7.147624	112039.1	0.005814
ZSCAN30 45156 AA	2.75326	148.723	4.225971	5233.954	0.005901
SLC44A5 3481 AT	-2.75257	0.076753	0.012337	0.477488	0.005913
PRICKLE4 76140 AA	2.750151	132.4201	4.070901	4307.423	0.005957
ZNF263 33514 ES	-2.74906	0.013397	0.000619	0.289984	0.005977
NOSTRIN 55840 ES	-2.74539	3.77E-06	5.06E-10	0.028072	0.006044
STAG2 90031 AP	2.740489	10179344	99.05695	1.05E+12	0.006135
CCDC92 25124 ES	-2.73923	1.99E-07	3.19E-12	0.012406	0.006158
RHOC 4236 ES	2.73833	29.47931	2.616424	332.1441	0.006175
DUSP4 83257 AP	-2.73697	2.88E-08	1.14E-13	0.00723	0.006201
CCDC120 89057 AP	2.733465	78.76652	3.44046	1803.295	0.006267
SMIM12 1702 AD	2.732487	10193753	95.80368	1.08E+12	0.006286
EIF5A 38907 AP	-2.7284	2.00E-06	1.61E-10	0.024829	0.006364
CKMT2 72660 ES	2.728335	11.1764	1.973465	63.29574	0.006365
TM9SF1 26891 AP	-2.72775	0.001677	1.70E-05	0.165504	0.006377
TM9SF1 26892 AP	2.727751	596.1623	6.042112	58822.07	0.006377
LYRM1 34421 ES	-2.72757	0.014084	0.000658	0.301303	0.00638
C2orf81 54053 RI	-2.72756	8.09E-06	1.78E-09	0.0369	0.00638
RRM1 14037 ES	-2.72671	3.96E-07	9.91E-12	0.01584	0.006397
FBXL12 47421 ES	2.724614	96.41181	3.604432	2578.836	0.006438
TSC22D4 80951 AA	2.72425	2.57E+15	21055.98	3.14E+26	0.006445
DALRD3 64806 AP	-2.72289	0.000123	1.89E-07	0.080287	0.006471
LAT2 80066 ES	-2.71946	3.62E-05	2.27E-08	0.057477	0.006539
CALCRL 56490 ES	-2.71753	0.00186	2.00E-05	0.173315	0.006577
ZNF816 51644 AT	2.716173	408675.2	36.49739	4.58E+09	0.006604
EIF4A2 96628 ES	2.714255	100.0185	3.596021	2781.88	0.006642
GTPBP10 80390 ES	-2.71403	5.43E-07	1.63E-11	0.018171	0.006647
PARP9 66442 AT	-2.71371	5.21E-15	2.52E-25	0.000108	0.006653
COPS7A 19945 ES	2.712145	89.35904	3.476363	2296.952	0.006685
FXR1 67746 ES	-2.70908	1.89E-06	1.37E-10	0.026146	0.006747
FBXO7 61931 AP	-2.70813	0.001382	1.18E-05	0.162174	0.006766
FBXO7 61930 AP	2.708127	723.8096	6.166187	84963.42	0.006766
MKL2 34070 AT	-2.70744	1.39E-06	7.96E-11	0.024136	0.006781
MED8 2172 AA	2.706574	201.3058	4.32036	9379.778	0.006798

TMEM182 54811 AP	-2.70487	0.000914	5.74E-06	0.145567	0.006833
FLAD1 7863 AT	-2.70438	2.51E-13	1.85E-22	0.00034	0.006843
HNRNPA2B1 79039 ES	2.702662	5.66E+08	254.2268	1.26E+15	0.006879
TMM10B 14145 AT	-2.70212	4.10E-17	5.32E-29	3.16E-05	0.00689
FOXK2 44408 ES	2.702018	911899.2	43.32884	1.92E+10	0.006892
UBE2W 84194 ES	-2.69985	1.65E-09	6.96E-16	0.00392	0.006937
ADCK5 85593 RI	2.699178	366.206	5.036378	26627.63	0.006951
PTS 18758 AP	-2.69771	5.61E-11	2.00E-18	0.001572	0.006982
BACH1 60322 AP	2.697568	142.4539	3.88048	5229.534	0.006985
UBBP4 39829 RI	-2.69324	0.000148	2.43E-07	0.090693	0.007076
CLP1 15883 AP	-2.69157	0.001372	1.13E-05	0.166677	0.007112
SLC39A1 7765 AP	2.691075	416310	33.62659	5.15E+09	0.007122
TRMT10B 86427 AA	-2.69019	0.000902	5.46E-06	0.149116	0.007141
COMMD5 85672 AP	2.690101	1516.394	7.300011	314992.8	0.007143
COMMD5 85671 AP	-2.6901	0.000659	3.17E-06	0.136986	0.007143
TTLL3 63203 AP	2.689276	12481.53	12.90857	12068623	0.007161
TTLL3 63199 AP	-2.68921	8.01E-05	8.29E-08	0.077484	0.007162
FBXL12 47431 RI	2.688735	236.6263	4.400281	12724.64	0.007172
CXorf40A 90313 AD	-2.68617	0.005144	0.00011	0.240572	0.007228
ZNF395 83211 AP	2.683564	1491.771	7.174004	310200.5	0.007284
SLC35F5 55070 ES	-2.6825	2.84E-05	1.35E-08	0.059623	0.007307
MTFR1L 1216 AD	2.680844	42.39173	2.738901	656.1241	0.007344
CYP3A5 80708 AT	2.676141	16.94441	2.132586	134.6314	0.007448
ADAMTSL1 85946 AT	-2.67576	0.005719	0.00013	0.25122	0.007456
PPFIBP1 20888 AT	-2.67573	3.53E-14	4.94E-24	0.000252	0.007457
RGS6 28206 AT	2.673936	150.5057	3.814449	5938.462	0.007497
TMA16 71020 ES	-2.67353	2.12E-11	3.17E-19	0.001416	0.007506
NDUFA7 47217 AT	-2.6724	0.001393	1.12E-05	0.173225	0.007531
PPIE 1904 AD	2.671734	2062.292	7.63779	556843	0.007546
TCF3 46537 RI	-2.6713	7.27E-08	4.21E-13	0.012563	0.007556
WDR55 73716 RI	-2.66715	6.83E-06	1.09E-09	0.042689	0.00765
CRTAC1 12748 AT	-2.66492	8.25E-07	2.77E-11	0.02459	0.007701
SFTA3 27259 ES	2.664625	18235494	83.20545	4E+12	0.007707
RPLP0 24727 AA	-2.66297	0.023586	0.001496	0.37187	0.007745
TLE3 31425 ES	-2.66255	0.002903	3.94E-05	0.214035	0.007755
WDR90 32931 AA	-2.66234	0.000152	2.36E-07	0.098417	0.00776
MTUS1 82815 AP	2.659789	36.29668	2.57289	512.0503	0.007819
TSPAN4 13794 AP	2.65891	434039.1	30.33423	6.21E+09	0.007839
TPM3 7789 AT	-2.65675	1.62E-09	5.27E-16	0.004945	0.00789
BAIAP2 44102 ES	-2.65487	1.29E-07	1.06E-12	0.015723	0.007934
FBXL20 40641 AT	-2.65386	4.97E-05	3.30E-08	0.07496	0.007958
FBXL20 40642 AT	2.653563	20083.39	13.32579	30267821	0.007965
ZNF772 52255 AT	2.651782	528955.7	31.12947	8.99E+09	0.008007
ZNF772 52253 AT	-2.65178	1.89E-06	1.11E-10	0.032124	0.008007
NWD1 48207 AD	-2.6511	0.025094	0.001646	0.382623	0.008023
GGT1 100018 ES	2.649631	15054.84	12.22924	18533303	0.008058
PRICKLE4 76139 AA	-2.64931	1.22E-07	9.32E-13	0.015877	0.008066
ERLIN2 83343 AP	2.649239	16798.59	12.56969	22450250	0.008067
RNH1 13672 AA	-2.64748	0.006822	0.00017	0.273836	0.008109
DZIP3 66036 ES	-2.64719	2.68E-07	3.65E-12	0.019674	0.008116
GOLGA4 63986 ES	-2.6452	3.09E-10	2.77E-17	0.003438	0.008164
INADL 3239 AT	-2.6438	5.31E-05	3.60E-08	0.07841	0.008198
GGT2 121589 ES	2.64199	126.5183	3.488734	4588.166	0.008242
TG 319464 ES	2.641864	105.4949	3.328303	3343.798	0.008245
MAGI1 65529 AT	-2.64157	1.49E-23	1.72E-40	1.29E-06	0.008252
ZNF20 47779 AA	-2.64074	0.008668	0.000256	0.294038	0.008273
XBP1 61563 RI	-2.64043	0.009548	0.000302	0.301584	0.00828
FANCD2 63305 AT	2.638685	70130804	104.2606	4.72E+13	0.008323



ZNF181 48997 AP	2.636876	71.31195	2.990371	1700.59	0.008367
ZNF181 48996 AP	-2.63685	0.013613	0.000558	0.331877	0.008368
TRIM11 10208 AT	-2.63684	6.84E-18	1.19E-30	3.92E-05	0.008368
ARL6IP4 25034 AD	2.636379	30598.23	14.15449	66145194	0.00838
PTCD2 72456 AT	-2.63596	0.00019	3.26E-07	0.111166	0.00839
PTCD2 72458 AT	2.635933	5249.105	8.994833	3063215	0.008391
PCNA 58649 AP	-2.63529	0.000176	2.83E-07	0.109067	0.008407
PCNA 58648 AP	2.635273	5690.518	9.168248	3531972	0.008407
FBLIM1 775 AA	2.634954	97.71861	3.234205	2952.48	0.008415
MAP9 70916 AA	-2.63441	0.000393	1.15E-06	0.134346	0.008428
PTK2B 83155 AT	-2.63074	8.66E-13	8.92E-22	0.00084	0.00852
LRP2BP 71336 AP	2.629944	218.708	3.945318	12124.03	0.00854
FAM185A 81137 AD	-2.62887	0.037265	0.003207	0.432985	0.008567
LRP2BP 71337 AP	-2.62837	0.004581	8.25E-05	0.254191	0.008579
PRSS16 75702 ES	-2.62814	0.002293	2.46E-05	0.213254	0.008585
SNX15 16730 ES	-2.62704	1.17E-18	4.88E-32	2.80E-05	0.008613
ACOT9 88692 AT	-2.62554	2.87E-08	6.72E-14	0.012247	0.008651
MFF 57806 ES	-2.62534	0.003075	4.10E-05	0.230835	0.008656
DTX2 80174 ES	-2.62499	0.000502	1.73E-06	0.145962	0.008665
PCNXL4 27766 AT	2.623179	11775516	61.34042	2.26E+12	0.008711
EFCAB6 62586 AT	-2.62183	0.045416	0.004502	0.458162	0.008746
NMRAL1 33737 AD	-2.62004	0.022343	0.001301	0.38379	0.008792
FAM86B1 82688 ES	2.619488	39.71578	2.526855	624.2318	0.008806
ICA1 78786 AT	-2.61825	1.01E-09	1.86E-16	0.005474	0.008838
CLCN3 71153 ES	-2.61722	0.003952	6.27E-05	0.249176	0.008865
FAM86B1 82686 ES	2.616739	27.86325	2.305092	336.8024	0.008877
TSTD1 8524 AP	-2.61369	9.20E-14	1.54E-23	0.000549	0.008957
LOXL3 54112 ES	-2.61265	0.007473	0.00019	0.294279	0.008984
PCNXL4 27767 AT	-2.6126	6.91E-08	2.93E-13	0.016265	0.008986
FAM49B 85146 ES	-2.61158	0.000314	7.40E-07	0.133691	0.009012
MAGED2 89250 RI	2.60942	574755.8	27.13136	1.22E+10	0.00907
ZNF720 36292 AD	2.609213	51.0307	2.660472	978.8236	0.009075
FGFR1 83430 ES	-2.60907	0.045668	0.004495	0.464009	0.009079
RAB17 58121 ES	-2.60904	1.01E-11	5.54E-20	0.001838	0.00908
FAM193A 68579 ES	2.608617	2827.559	7.21474	1108160	0.009091
EFCAB6 62585 AT	2.607174	21.84153	2.150138	221.8706	0.009129
FKBP11 21497 AA	-2.60682	0.000109	1.14E-07	0.103869	0.009139
LIN9 10012 AT	-2.60545	9.18E-10	1.46E-16	0.005769	0.009175
ARMC6 48572 ES	2.605411	3833.85	7.722985	1903202	0.009176
SYNC 1630 ES	2.604591	28.93057	2.29975	363.943	0.009198
PRMT5 26673 AD	-2.60359	5.22E-06	5.51E-10	0.049449	0.009225
ELMOD3 54217 RI	-2.60331	1.41E-05	3.16E-09	0.06333	0.009233
ABLIM2 68748 AA	-2.6026	0.002525	2.79E-05	0.228323	0.009252
DDX11 20968 ES	2.598777	510.9495	4.631851	56363.93	0.009356
CXorf23 88651 ES	2.598322	44.39919	2.539385	776.2858	0.009368
TSPAN14 12373 ES	-2.59785	1.85E-07	1.54E-12	0.022222	0.009381
ASPSCR1 44251 AP	2.594437	1778.859	6.234852	507524.2	0.009475
ASPSCR1 44250 AP	-2.59437	0.000562	1.97E-06	0.160415	0.009476
CUL4A 26367 AP	-2.59412	0.008435	0.000229	0.311179	0.009483
FAM219B 31801 AD	2.591775	207.8961	3.67311	11766.81	0.009548
CDCP1 64397 AT	-2.59175	7.41E-08	3.00E-13	0.018277	0.009549
SFTA3 121940 ES	2.590395	153.3066	3.403342	6905.836	0.009587
TANGO2 61112 AP	2.590208	1809.48	6.203282	527820.5	0.009592
HNRNPH1 74914 AD	-2.58852	1.77E-06	7.78E-11	0.040092	0.009639
DCLRE1C 10837 AT	-2.5883	1.55E-07	1.09E-12	0.02224	0.009645
DCLRE1C 10838 AT	2.588289	6436830	44.96265	9.21E+11	0.009645
SIAH1 36338 AP	2.587594	16233.75	10.5015	25094950	0.009665
TCEAL3 89760 AD	2.585421	2190842	34.19012	1.4E+11	0.009726

KLC1 29487 AD	-2.58433	0.000302	6.46E-07	0.141094	0.009757
PHKA1 89509 ES	-2.58393	1.78E-07	1.35E-12	0.023456	0.009768
TXN2 62049 AP	2.583583	32595.87	12.28503	86486616	0.009778
TXN2 62048 AP	-2.58355	3.07E-05	1.16E-08	0.081411	0.009779
CYP3A5 80710 AT	-2.58228	0.062106	0.007536	0.511861	0.009815
CRCP 79875 ES	-2.58211	0.004698	8.03E-05	0.274825	0.00982
DACT3 50576 AT	-2.58147	0.004606	7.75E-05	0.273801	0.009838
DACT3 50577 AT	2.58147	217.0861	3.652241	12903.42	0.009838
APOD 68181 ES	-2.58041	0.001019	5.44E-06	0.190803	0.009868
PLIN5 46809 AT	2.580184	8137.836	8.709653	7603560	0.009875
PLIN5 46808 AT	-2.58018	0.000123	1.32E-07	0.114817	0.009875
GLRX 72826 AT	-2.58013	2.83E-22	1.21E-38	6.62E-06	0.009876
MANBAL 59340 ES	2.580056	958.4239	5.207014	176411.4	0.009878
MUTYH 2652 ES	-2.58003	2.63E-08	4.58E-14	0.015072	0.009879
AP4B1 4309 RI	2.579895	45.36057	2.500856	822.751	0.009883
MTA3 53367 AT	-2.57983	0.000539	1.77E-06	0.163934	0.009885
MTA3 53366 AT	2.579766	1855.306	6.098933	564387.2	0.009887
TPM1 30985 AT	-2.57871	9.94E-06	1.57E-09	0.063051	0.009917
FAM228B 52815 ES	-2.57819	0.005117	9.28E-05	0.282249	0.009932
SIX5 95264 AA	2.575477	104.6748	3.038938	3605.476	0.01001
CCPG1 30723 AP	2.574938	208.2987	3.579099	12122.7	0.010026
FASTK 82341 ES	2.574739	3.48E+22	241122.4	5.02E+39	0.010032
ERLIN2 83344 AP	-2.57215	0.000484	1.44E-06	0.16257	0.010107
PPP1R1A 22198 ES	-2.57178	0.002749	3.07E-05	0.245925	0.010118
RPS15 46485 AA	-2.57051	0.011795	0.000399	0.348328	0.010155
PEX26 61024 RI	-2.57005	0.001372	9.00E-06	0.209142	0.010168
SPTBN4 49913 AT	-2.56847	0.002429	2.46E-05	0.240202	0.010215
RAD23B 87146 AP	2.56752	898.6952	4.999394	161550.2	0.010243
MSANTD1 68631 AT	2.567408	3064.145	6.681205	1405283	0.010246
C11orf74 15439 ES	-2.56736	2.51E-07	2.30E-12	0.027454	0.010248
ARHGEF26 67329 AP	-2.56734	0.034399	0.002626	0.450588	0.010248
RAD23B 87147 AP	-2.56727	0.001114	6.20E-06	0.200162	0.01025
HIST4H4 20554 AT	-2.5669	0.006228	0.000129	0.300938	0.010261
HIST4H4 20553 AT	2.566898	160.5716	3.322943	7759.163	0.010261
INSIG2 55092 ES	-2.56408	9.73E-08	4.25E-13	0.022285	0.010345
P4HA2 73261 ES	-2.56276	4.30E-07	5.81E-12	0.031806	0.010384
TMEM126B 18123 ES	2.561943	93047.63	14.706	5.89E+08	0.010409
KIF1B 602 AT	-2.56064	2.79E-05	9.10E-09	0.085425	0.010448
KIF1B 601 AT	2.560636	35858.41	11.70611	1.1E+08	0.010448
PHLDB2 66063 AT	-2.56008	2.80E-07	2.69E-12	0.029101	0.010465
ZFYVE26 28102 AT	-2.55637	4.91E-09	2.09E-15	0.011522	0.010577
FAM71D 28041 AT	2.553772	16.59092	1.921528	143.2499	0.010656
DDX11 20980 ES	-2.55353	0.000104	9.17E-08	0.118712	0.010664
AVL9 79198 ES	-2.55238	0.000103	8.95E-08	0.118756	0.010699
CROT 80321 AP	-2.5521	2.38E-05	6.69E-09	0.084566	0.010708
NKX2-1 102506 ES	2.551043	393.3259	3.992144	38752.43	0.01074
FAM13A 69911 ES	-2.55068	0.001716	1.29E-05	0.22885	0.010751
ABC8 82291 AD	2.550002	2255.491	5.968939	852285.4	0.010772
PDCD6 71426 AD	-2.54913	7.26E-05	4.76E-08	0.110485	0.010799
CCNDBP1 30222 ES	-2.5483	2.08E-12	2.16E-21	0.00201	0.010825
PANK1 12494 AP	2.548152	53.78798	2.508954	1153.129	0.01083
ZNF562 47394 ES	-2.54711	0.000139	1.50E-07	0.12916	0.010862
PRDM1 77110 AP	2.546224	43.36692	2.382047	789.5266	0.01089
TST 62070 RI	2.545303	846665.5	23.07732	3.11E+10	0.010918
SPATA13 25474 AP	2.545089	83.39521	2.764886	2515.388	0.010925
CACNB3 21470 AP	-2.54447	0.002338	2.20E-05	0.248638	0.010944
ZMIZ2 79561 AA	-2.54434	0.000163	1.96E-07	0.134855	0.010949
CYB5RL 3129 AT	2.544322	58.47164	2.545757	1342.993	0.010949

CYB5RL 3128 AT	-2.5443	0.017103	0.000745	0.392828	0.01095
CASP8 56825 ES	-2.54354	0.008045	0.000196	0.330716	0.010974
GGT1 61437 AA	-2.54351	0.027077	0.001678	0.43692	0.010975
FAM49B 85136 AP	2.543102	138.4348	3.097359	6187.271	0.010987
CMTM7 63816 ES	-2.54296	1.81E-07	1.15E-12	0.028471	0.010992
FADS1 16298 AP	-2.54171	0.007911	0.000189	0.330328	0.011031
PNPLA6 47115 ES	2.541288	227.8866	3.462044	15000.48	0.011044
SSSCA1 16871 RI	2.541119	5.59E+09	169.5282	1.84E+17	0.01105
IFNGR1 77930 AP	-2.53975	1.24E-06	3.42E-11	0.044819	0.011093
KRIT1 80426 ES	-2.53975	7.54E-11	1.16E-18	0.004888	0.011093
OSMR 71851 AD	2.538343	92.37298	2.804551	3042.472	0.011138
GPR110 76434 AP	-2.53793	7.03E-05	4.36E-08	0.113284	0.011151
TASP1 58706 ES	-2.53516	3.65E-14	1.49E-24	0.000894	0.01124
SNX4 66556 ES	-2.53479	1.52E-08	1.37E-14	0.01687	0.011251
EVA1C 60349 ES	2.533503	1.26E+17	7440.098	2.15E+30	0.011293
APLP2 19479 ES	2.532421	809.9121	4.544189	144350.9	0.011328
SPATA6L 85760 AD	2.532383	1068.866	4.837901	236151.1	0.011329
C18orf21 45196 RI	2.532379	862.4421	4.608798	161388.4	0.011329
BCAS3 42871 ES	-2.53088	0.005885	0.00011	0.313976	0.011378
RANBP1 61139 AA	2.529161	1.71E+08	71.23332	4.09E+14	0.011434
ITGB1BP1 52625 ES	-2.52915	0.00047	1.24E-06	0.178301	0.011434
AHNAK 16349 ES	-2.5276	8.12E-05	5.47E-08	0.120612	0.011485
CDK2AP1 25064 AP	-2.52598	0.001078	5.37E-06	0.216314	0.011538
PANK1 12493 AP	-2.52491	0.019024	0.000878	0.412089	0.011573
ST7L 4209 ES	-2.52397	0.020948	0.001041	0.421543	0.011604
SACM1L 64410 ES	2.522877	378540.1	17.56333	8.16E+09	0.01164
CDK2AP1 25065 AP	2.522025	37772.81	10.4731	1.36E+08	0.011668
C19orf66 47453 ES	2.521158	17753867	41.08167	7.67E+12	0.011697
C16orf93 94142 ES	2.520322	150.0667	3.046953	7390.992	0.011725
CD9 19819 AP	2.520279	1678.254	5.211457	540450.7	0.011726
CD9 19817 AP	-2.52028	0.000596	1.85E-06	0.191886	0.011726
IMPDH1 81676 ES	-2.51984	4.41E-10	2.33E-17	0.008343	0.011741
NR4A2 55614 AP	2.518148	12.15601	1.739641	84.942	0.011797
CREBZF 18139 RI	2.517195	307.3721	3.553809	26584.88	0.011829
ASMTL 88387 AP	-2.517	3.00E-10	1.15E-17	0.007809	0.011836
FAM122C 90162 AT	-2.51563	0.009086	0.000233	0.354022	0.011882
FAM122C 90163 AT	2.515608	110.0589	2.824564	4288.435	0.011883
INTU 70537 AA	-2.51502	0.038568	0.003051	0.487513	0.011903
EFEMP2 16933 ES	2.513239	5.19E+32	15922689	1.69E+58	0.011963
DCTD 96838 ES	2.512588	311.2793	3.53467	27412.68	0.011985
MS4A6A 16065 AD	2.512268	3.46E+14	1571.85	7.63E+25	0.011996
MAP3K2 55209 AP	-2.50751	0.001787	1.27E-05	0.251157	0.012159
ZNF720 36288 AA	2.506877	197.2611	3.167362	12285.29	0.01218
COL1A1 196922 ES	-2.50591	9.88E-18	4.95E-31	0.000197	0.012214
PUS1 25229 AD	-2.5053	0.003451	4.09E-05	0.291125	0.012235
ETFA 31944 ES	-2.50461	0.047791	0.004425	0.516197	0.012259
ZMIZ1 12300 ES	2.503918	3485.084	5.881851	2064964	0.012283
NUPL2 78961 AT	-2.50326	2.57E-06	1.08E-10	0.061198	0.012305
NUPL2 78960 AT	2.503254	389167.6	16.33983	9.27E+09	0.012306
CTNND1 15932 RI	-2.50303	2.21E-10	6.06E-18	0.008034	0.012314
TG 319468 ES	2.502966	73.28273	2.538632	2115.453	0.012316
GNAL 44641 AP	2.502194	7.079003	1.528236	32.79092	0.012343
AGAP3 82352 AT	2.50149	3818025	26.59773	5.48E+11	0.012367
AGAP3 82351 AT	-2.50148	2.62E-07	1.82E-12	0.0376	0.012368
NRG1 83314 AT	-2.50095	1.06E-07	3.60E-13	0.030964	0.012386
EIF4G1 67875 AP	2.500681	471.5383	3.785204	58741.44	0.012395
METTL21A 57189 AT	-2.50034	0.001357	7.67E-06	0.240049	0.012407
HAS3 37253 AT	2.500278	44916.69	10.12495	1.99E+08	0.01241

HAS3 37254 AT	-2.50027	2.23E-05	5.02E-09	0.098769	0.01241
CCAR2 83036 AP	-2.49997	0.000127	1.12E-07	0.143973	0.01242
CCAR2 83035 AP	2.499967	7884.199	6.945693	8949515	0.01242
SFTA3 121939 ES	2.498913	219.389	3.198434	15048.46	0.012458
COPA 8458 AA	2.498771	2116704	23.12031	1.94E+11	0.012462
USP3 31052 ES	-2.49853	0.005559	9.46E-05	0.326531	0.012471
TNFRSF10C 83066 ES	-2.49816	2.37E-16	1.30E-28	0.00043	0.012484
ZSCAN9 75724 AD	2.497793	214.2859	3.176242	14456.85	0.012497
PTPRE 13458 AP	-2.49759	0.090663	0.013781	0.596456	0.012504
ZDHH4 78748 AD	2.496758	16.99973	1.838825	157.1606	0.012533
AASDHPPT 18561 ES	-2.49558	3.28E-15	1.38E-26	0.000779	0.012575
ASPSCR1 44258 ES	2.494044	3.92E+08	69.20369	2.22E+15	0.01263
PSEN2 10024 AP	-2.49403	0.056673	0.005939	0.540818	0.01263
ARHGEF26 67328 AP	2.492363	26.20007	2.008938	341.695	0.01269
NDUFAF6 84599 AD	2.492047	205.4071	3.117253	13535.02	0.012701
PSEN2 10023 AP	2.491749	17.38355	1.839367	164.289	0.012712
PRPSAP2 39671 ES	-2.49113	2.43E-05	5.69E-09	0.103784	0.012734
DMPK 50526 AA	-2.48955	0.006257	0.000115	0.339816	0.012791
EVL 29241 AP	-2.48711	0.085118	0.012213	0.59322	0.012878
ACAD8 19554 ES	-2.48635	1.14E-05	1.45E-09	0.089855	0.012906
PADI4 852 AT	-2.48454	0.020425	0.000949	0.439755	0.012972
SULT1A1 235342 ES	2.483189	83.7666	2.542169	2760.179	0.013021
PADI4 851 AT	2.48247	48.88132	2.267398	1053.8	0.013048
EPS8L1 52013 RI	2.480871	33672.15	8.924596	1.27E+08	0.013106
RPS6 214602 AA	2.480844	96251.37	11.12552	8.33E+08	0.013107
ZMYND8 59712 ES	-2.48028	0.000904	3.55E-06	0.229846	0.013128
TNRC6B 62335 AP	2.479694	54.83909	2.314747	1299.203	0.01315
TMEFF1 87084 AP	2.478424	347.0312	3.399523	35425.74	0.013196
PTGR2 28317 AD	2.477762	16.28173	1.791508	147.9729	0.013221
PRR13 22026 AP	-2.47301	5.00E-10	2.13E-17	0.011762	0.013398
RGS11 32860 AT	2.472968	368.4161	3.40701	39838.58	0.0134
RHBDF1 32789 AT	-2.46981	9.82E-11	1.12E-18	0.008591	0.013519
CPNE1 59205 AD	2.468657	1613.578	4.581411	568304	0.013562
DDT 61355 AP	2.468572	480.6575	3.569011	64732.69	0.013565
BAIAP2 44097 RI	2.468418	26.99405	1.971597	369.588	0.013571
LGALS3 27617 AT	-2.4678	0.00041	8.36E-07	0.200877	0.013594
PCDHA2 73770 AT	-2.46584	0.03883	0.002936	0.513524	0.013669
NRSN2 58447 ES	2.462648	150.741	2.783735	8162.723	0.013792
ARMCX3 89663 AA	-2.4626	0.005033	7.46E-05	0.339561	0.013793
CKLF 36732 ES	-2.46246	3.63E-10	1.11E-17	0.01185	0.013799
RARRES2 82226 RI	2.461791	12.74963	1.680164	96.74841	0.013825
APH1A 7444 RI	2.460392	35127.82	8.40537	1.47E+08	0.013879
TMEM151B 97224 AT	2.458844	13.25329	1.689315	103.9769	0.013939
TMEM79 8218 AP	2.458668	6.202981	1.447995	26.57259	0.013945
MVP 233980 ES	-2.45802	0.003207	3.29E-05	0.31238	0.013971
RPL7 84149 AD	-2.45781	3.18E-15	8.75E-27	0.001157	0.013979
TJP2 86538 ES	-2.45778	0.02856	0.001676	0.486654	0.01398
TMEM232 72938 ES	2.457415	22.46893	1.877582	268.8845	0.013994
PCK2 26813 AP	-2.45686	2.85E-13	2.79E-23	0.002902	0.014016
FAM76A 1342 ES	-2.45354	0.009071	0.000212	0.388277	0.014146
COL16A1 1493 ES	2.4529	43.48202	2.134202	885.8985	0.014171
SPARCL1 69872 ES	2.452866	30365590	31.88448	2.89E+13	0.014172
GAS7 39265 ES	-2.45284	5.03E-06	2.93E-10	0.086157	0.014173
PAM 72899 ES	-2.45282	8.44E-06	7.45E-10	0.095619	0.014174
SIPA1L1 28199 ES	2.451278	536.546	3.524524	81679.59	0.014235
TMEM151B 97223 AT	-2.45044	0.073913	0.009202	0.593697	0.014268
RAD51 30018 ES	-2.45006	0.00179	1.14E-05	0.282134	0.014283
FNTA 83748 AP	-2.44906	0.002294	1.77E-05	0.297089	0.014323

FNTA 83749 AP	2.449065	435.9147	3.36599	56453.4	0.014323
RCAN2 76415 AP	2.448408	7.953279	1.512356	41.82525	0.014349
ZNF562 47387 ES	-2.4484	0.000289	4.26E-07	0.196841	0.014349
ZNF720 94157 ES	-2.44838	0.003027	2.91E-05	0.314411	0.01435
NT5C3A 79208 AP	2.448042	860.5799	3.847011	192512.5	0.014363
TMEM108 66827 AT	-2.44597	0.000673	1.94E-06	0.234315	0.014446
TMEM108 66828 AT	2.445966	1484.807	4.26772	516587.7	0.014446
POM121C 80119 AP	-2.4446	0.001128	4.89E-06	0.260403	0.014501
POM121C 80118 AP	2.444327	885.6208	3.837257	204397.1	0.014512
RAMP2 41122 ES	-2.44419	8.01E-05	4.16E-08	0.154341	0.014518
UEVLD 14672 ES	-2.44366	5.23E-06	3.04E-10	0.090075	0.014539
ARRB2 38574 ES	-2.442	1.79E-06	4.37E-11	0.073376	0.014606
PUM2 52777 ES	-2.44153	0.000202	2.19E-07	0.186833	0.014625
PPP6R2 62824 AA	2.440703	2.76E+08	45.98394	1.66E+15	0.014659
SCML4 77135 AT	2.439531	38.25856	2.047084	715.0256	0.014706
TMEFF1 87085 AP	-2.43939	0.003049	2.90E-05	0.320289	0.014712
NT5C3A 79207 AP	-2.43903	0.001172	5.17E-06	0.265651	0.014727
C1orf63 1146 AA	-2.43858	0.073583	0.009036	0.599215	0.014745
CCPG1 30722 AP	-2.43857	0.005887	9.49E-05	0.365014	0.014746
PTBP1 46321 ES	-2.43789	1.81E-08	1.08E-14	0.030363	0.014773
TCF3 46538 AA	-2.4375	0.002423	1.91E-05	0.307303	0.014789
ALDH1A3 32741 AT	-2.43712	8.70E-20	4.08E-35	0.000185	0.014805
CCDC148 55661 AT	2.43579	24.01217	1.860647	309.8838	0.014859
TMEM79 8217 AP	-2.43406	0.163525	0.038049	0.702789	0.014931
IAH1 52628 AP	2.432705	2.46E+09	66.84539	9.09E+16	0.014986
IAH1 52629 AP	-2.43245	4.07E-10	1.11E-17	0.014999	0.014997
WBP2NL 62480 AT	-2.43198	0.05902	0.006033	0.577387	0.015017
SERF1A 72415 AT	-2.43139	8.18E-05	4.15E-08	0.161254	0.015041
PTBP2 3832 ES	2.430373	13.94393	1.665331	116.7535	0.015083
CXorf40A 90314 AD	-2.42997	0.007515	0.000145	0.3883	0.0151
RGN 88903 ES	2.429054	787.6727	3.625194	171143.5	0.015138
METTL21A 57190 AT	-2.42869	8.94E-12	1.08E-20	0.007373	0.015153
SLC36A1 74171 AT	-2.42855	0.000119	8.14E-08	0.174985	0.015159
ABCC9 20715 AT	-2.42807	3.86E-11	1.51E-19	0.009825	0.015179
SMAGP 21836 RI	-2.42793	0.020035	0.000853	0.470635	0.015185
CCDC130 47933 AP	-2.42735	0.001373	6.71E-06	0.281114	0.01521
CCDC130 47932 AP	2.42735	728.1226	3.557272	149036.3	0.01521
ZNF415 51676 ES	2.426816	16.54497	1.715684	159.5492	0.015232
SUMF2 79803 ES	-2.42627	0.002484	1.95E-05	0.315761	0.015255
UBALD1 33778 AD	-2.42603	2.83E-10	5.47E-18	0.014646	0.015265
RBM6 64939 ES	2.425949	92.39618	2.385446	3578.808	0.015268
KCNJ11 14528 AP	-2.42577	8.61E-08	1.69E-13	0.043994	0.015276
MUTYH 2650 ES	-2.42508	0.006334	0.000106	0.378768	0.015305
CAV1 81536 AD	2.424137	2499.972	4.473376	1397124	0.015345
CNRIP1 53837 AT	-2.42402	1.28E-08	5.30E-15	0.030821	0.01535
SPTAN1 87770 ES	-2.42347	9.44E-09	3.06E-15	0.029188	0.015373
ARHGEF26 67332 AA	-2.42329	0.012668	0.00037	0.433753	0.015381
NDRG2 26503 RI	-2.42161	0.0703	0.008198	0.60282	0.015452
CPNE1 59196 ES	-2.42154	1.07E-06	1.57E-11	0.072764	0.015455
NEDD1 23841 ES	-2.42133	0.010333	0.000255	0.418432	0.015464
AXL 50027 ES	2.42125	599.8727	3.3827	106378.7	0.015467
PIGV 1299 AP	-2.41891	0.01337	0.000405	0.441032	0.015567
CCL2 40220 RI	2.418488	11800.93	5.915602	23541471	0.015585
CYP4B1 2838 AA	2.418322	14335.36	6.134614	33498839	0.015592
ETFA 31939 ES	-2.41796	0.057613	0.005699	0.582405	0.015608
SCRN2 42120 RI	2.416612	245.0231	2.827933	21229.75	0.015666
CDK2AP2 17244 AD	2.416547	3784031	17.49202	8.19E+11	0.015669
ATG16L2 17663 ES	-2.41587	0.000909	3.10E-06	0.266722	0.015698

PRDM1 77111 AP	-2.41443	0.026081	0.001351	0.503388	0.01576
PIGV 1300 AP	2.413776	73.98941	2.246057	2437.353	0.015788
BBIP1 13092 ES	-2.41364	0.001045	3.97E-06	0.27525	0.015794
WDFY3 69811 ES	-2.41248	0.013505	0.000409	0.446	0.015844
ZNF227 50300 ES	-2.41235	0.012133	0.000337	0.43721	0.01585
PLD4 29579 RI	2.411802	43.44098	2.026989	930.996	0.015874
BCAT2 50814 ES	2.411178	21.38491	1.773817	257.8138	0.015901
WDR20 29338 AT	2.410738	99012719	31.2666	3.14E+14	0.01592
LRRC23 20002 ES	2.409977	626.562	3.328698	117938	0.015954
SYTL3 78284 ES	-2.40806	3.09E-15	4.80E-27	0.001996	0.016038
GRAP 39686 AP	-2.40724	2.53E-05	4.59E-09	0.139961	0.016074
VAV3 3931 AT	-2.40707	1.09E-08	3.60E-15	0.033207	0.016081
GPATCH2L 28540 AT	2.406491	3244.698	4.482316	2348801	0.016107
GPR162 19974 ES	-2.40545	4.48E-05	1.28E-08	0.156511	0.016153
C2orf68 54308 AT	-2.40509	6.55E-06	3.91E-10	0.10981	0.016169
C2orf68 54309 AT	2.405079	152610	9.106262	2.56E+09	0.016169
FDPS 8074 AA	-2.40139	5.75E-05	1.99E-08	0.166163	0.016333
ARID4A 27700 ES	-2.4008	6.31E-08	8.37E-14	0.04764	0.016359
MTUS1 82818 AP	-2.4008	0.043869	0.003417	0.563212	0.016359
HSFX2 90316 ES	-2.40019	0.041466	0.003083	0.557783	0.016386
YAF2 21105 AT	-2.39885	2.22E-11	4.39E-20	0.011242	0.016447
YAF2 21104 AT	2.398851	4.5E+10	88.94964	2.28E+19	0.016447
MSMO1 71042 ES	-2.39833	0.002085	1.34E-05	0.323581	0.01647
TSTD1 8525 RI	2.396377	26623693	22.50307	3.15E+13	0.016558
NARG2 30965 AA	-2.39636	0.001661	8.85E-06	0.311743	0.016559
SLMAP 65408 ES	2.39605	199.5502	2.621887	15187.63	0.016573
CCDC120 89058 AP	-2.39575	0.020268	0.000835	0.492047	0.016586
AURKAIP1 150 RI	2.395599	65383103	26.37717	1.62E+14	0.016593
MKL2 34068 AP	2.394986	30.93521	1.865194	513.0766	0.016621
TMEM44 68154 AP	2.394829	43.35805	1.982748	948.1391	0.016628
HCFC1R1 33353 AA	-2.39439	0.00405	4.46E-05	0.368049	0.016648
RNF167 38613 AD	-2.39324	4.29E-14	4.85E-25	0.003801	0.0167
SETD5 63091 ES	-2.39296	0.000902	2.89E-06	0.281205	0.016713
RCAN2 76416 AP	-2.39052	0.097899	0.014566	0.658006	0.016825
CLDND1 65747 AP	2.389879	451.6467	3.003114	67924.4	0.016854
MFSD9 54807 ES	-2.38917	0.003349	3.12E-05	0.359221	0.016886
PTPRE 13459 AP	2.388754	21.83657	1.739356	274.145	0.016906
ANKRD26 11054 AP	2.388259	66.70364	2.123887	2094.921	0.016928
ZFP64 59809 AP	-2.3876	0.047654	0.003917	0.579746	0.016959
MRPL27 42371 AP	-2.38752	1.80E-09	1.19E-16	0.027165	0.016962
MPPE1 44651 ES	-2.38668	0.002783	2.22E-05	0.349221	0.017001
SFTA3 27261 ES	2.386526	16741.18	5.687877	49274494	0.017008
GPR89A 7317 ES	2.384823	1650.859	3.743164	728083.7	0.017087
ZSCAN18 52401 AT	2.384498	6.64E+25	39565.76	1.11E+47	0.017102
GOLGA7 83514 AD	-2.38434	4.05E-05	9.94E-09	0.165291	0.01711
THOC7 65512 ES	2.383832	1.53E+15	501.2026	4.67E+27	0.017133
MBOAT7 51802 AT	2.383476	1.1E+18	1605.729	7.53E+32	0.01715
RFX5 7603 AP	2.382379	122.9825	2.347177	6443.786	0.017201
SERPINA1 29123 AA	-2.38234	0.075731	0.009062	0.632853	0.017203
ZNF655 80688 ES	2.380627	13.34277	1.580644	112.631	0.017283
PEMT 39496 AD	2.379049	3.64E+16	826.5552	1.60E+30	0.017357
FASTK 82340 ES	2.378893	152859.1	8.184035	2.86E+09	0.017365
SFTA3 121942 ES	2.376692	199.656	2.531225	15748.31	0.017469
CREM 11230 AP	2.375653	63.12678	2.065376	1929.426	0.017518
ZNF266 47339 AD	-2.37428	0.040447	0.002863	0.571343	0.017583
ZDHHC4 78753 AD	2.373097	55.23496	2.010493	1517.489	0.01764
CLUAP1 33575 AP	-2.37243	0.000816	2.29E-06	0.290471	0.017671
KIAA2013 694 AT	-2.37197	3.52E-22	6.60E-40	0.000188	0.017693

ZSCAN31 75728 AP	2.371506	7.667031	1.424016	41.28	0.017716
CCDC53 24023 ES	2.370419	46305.15	6.425217	3.34E+08	0.017768
TPM2 98133 ES	-2.36915	0.075933	0.009	0.640669	0.017829
C11orf49 15609 RI	2.368733	579.7272	2.998096	112099	0.017849
ARL13B 65700 ES	-2.36803	0.028008	0.001453	0.540047	0.017883
SLC25A19 43434 ES	2.367603	32.47817	1.820774	579.3313	0.017904
LONRF3 89946 AP	-2.36753	5.15E-12	2.33E-21	0.011398	0.017908
NDUFAF6 84598 ES	2.36707	59.86903	2.021418	1773.162	0.01793
IL1RN 55030 AP	2.366448	14.00873	1.57368	124.7041	0.01796
PAK6 29958 AP	2.366271	18.45497	1.649687	206.4548	0.017968
RASA4 81121 AP	2.366236	26.61737	1.756687	403.3071	0.01797
RASA4 81120 AP	-2.36621	0.037571	0.00248	0.569275	0.017971
DENND1B 9304 AT	-2.36611	0.000147	9.81E-08	0.219796	0.017976
DENND1B 9305 AT	2.366107	6810.995	4.549584	10196460	0.017976
LRRC6 85182 ES	2.364347	442.0797	2.834457	68949.51	0.018062
NR4A2 55613 AP	-2.36409	0.098797	0.014499	0.67322	0.018074
CCT7 53965 ES	-2.3638	0.057334	0.005357	0.613603	0.018089
SSBP1 82055 AD	2.362095	1185003	10.81462	1.3E+11	0.018172
CCDC124 48386 AP	2.362072	1215.512	3.350692	440944.8	0.018173
CCDC124 48385 AP	-2.36205	0.000823	2.27E-06	0.298466	0.018174
TCOF1 74070 ES	2.361936	511756.7	9.367254	2.8E+10	0.01818
HNRNPUL1 50036 AA	-2.36121	3.64E-11	7.86E-20	0.016827	0.018215
ZNF517 85650 AT	2.3611	46621745	20.08369	1.08E+14	0.018221
KBTBD3 18557 AT	2.360076	2741.701	3.827013	1964175	0.018271
DMKN 49178 ES	-2.35994	2.18E-05	2.92E-09	0.162095	0.018278
ATP11A 26310 ES	2.359618	77.2233	2.088009	2856.04	0.018294
KBTBD3 18556 AT	-2.35962	0.000365	5.09E-07	0.261679	0.018294
TRPT1 16581 ES	-2.35809	0.016299	0.000532	0.499058	0.018369
ITFG2 19715 AT	-2.35731	1.76E-10	1.36E-18	0.022679	0.018408
MROH7 3156 AP	2.356231	87.37602	2.120802	3599.85	0.018461
TRMT44 68771 AT	-2.35603	4.72E-11	1.21E-19	0.018372	0.018471
CENPK 72212 AT	-2.35574	0.021384	0.000872	0.524141	0.018486
CENPK 72213 AT	2.355735	46.76281	1.90787	1146.179	0.018486
KCNH6 42934 AT	2.355552	129.5581	2.263414	7415.922	0.018495
ZSCAN18 52406 AD	2.355252	132.3216	2.270278	7712.279	0.01851
ZNF263 33511 ES	-2.35496	0.050833	0.004259	0.606713	0.018525
IL15RA 10681 ES	-2.35292	0.007714	0.000134	0.443774	0.018627
HSP90AA1 29333 AT	-2.35109	1.13E-14	2.67E-26	0.004784	0.018718
TMEM44 68155 AP	-2.35084	0.024534	0.001115	0.539843	0.018731
ZNF331 51722 AP	-2.35065	0.002496	1.69E-05	0.369333	0.01874
FBXW7 70846 AP	2.350615	24.0192	1.696041	340.158	0.018742
SFTPBJ 54324 AA	-2.35034	0.001253	4.77E-06	0.329618	0.018756
ATG13 15597 AA	-2.34999	0.008677	0.000166	0.454808	0.018774
TTLL3 63225 ES	2.348154	198.0206	2.397097	16358.18	0.018867
XRCC6 62440 AP	-2.34793	0.001539	6.90E-06	0.342935	0.018878
SETD4 60518 ES	2.347307	40.81204	1.844189	903.1732	0.01891
TMC6 43757 AT	2.34724	56.78041	1.947282	1655.649	0.018913
TMC6 43758 AT	-2.34723	0.017612	0.000604	0.513543	0.018913
GTF2H2C 72395 ES	-2.34713	2.44E-07	7.33E-13	0.081134	0.018919
VPS53 38220 AD	-2.34688	5.80E-22	1.07E-39	0.000315	0.018931
TANGO2 61114 AP	-2.34662	0.000924	2.70E-06	0.31622	0.018944
HIATL1 86935 ES	-2.34615	2.10E-06	3.81E-11	0.116301	0.018969
CTNND1 15935 ES	2.346006	89.87487	2.096414	3853.004	0.018976
KBTBD3 18559 ES	-2.34481	0.000171	1.21E-07	0.240808	0.019037
EPOR 47690 AA	2.344523	3155.803	3.749207	2656319	0.019051
SELP 8933 ES	-2.3441	0.000205	1.70E-07	0.248723	0.019073
RARA 40856 AP	-2.34343	0.000133	7.58E-08	0.232005	0.019107
PDGFD 18490 AA	2.343416	1778.755	3.402635	929858.3	0.019108

PKIG 59473 AP	-2.34296	5.62E-06	2.28E-10	0.138585	0.019132
PAM 72898 ES	-2.34153	4.57E-05	1.06E-08	0.196231	0.019205
SIRT3 13596 AD	2.339184	30863.13	5.343331	1.78E+08	0.019326
PIGT 59561 ES	-2.33771	0.003766	3.50E-05	0.40579	0.019402
SERPINA1 29104 RI	-2.33691	0.002316	1.43E-05	0.375769	0.019444
STAU2 84165 ES	-2.33681	1.06E-07	1.50E-13	0.075046	0.019449
EEF1E1 75283 AT	2.336435	88000359	19.05893	4.06E+14	0.019469
SIDT2 18891 ES	2.335802	3157.558	3.656428	2726752	0.019502
SRP68 43546 AP	-2.3354	0.034548	0.00205	0.582158	0.019523
SRP68 43547 AP	2.335236	28.94009	1.717366	487.6822	0.019531
ST7L 4216 AA	-2.33466	5.80E-07	3.38E-12	0.099799	0.019561
MRPL27 42369 AP	2.33391	3.5E+08	23.3906	5.25E+15	0.0196
RANBP17 74506 ES	2.333897	9.573886	1.436112	63.82461	0.019601
UBE2V1 59758 ES	-2.33379	7.84E-07	5.84E-12	0.105191	0.019607
PXN 24748 ES	2.333752	24.84779	1.672931	369.0603	0.019609
SMARCB1 61329 AD	-2.33293	4.50E-06	1.45E-10	0.139712	0.019652
FRMD3 86681 AP	-2.33147	0.001676	7.77E-06	0.361154	0.019729
MRI1 95017 ES	2.330926	168.1192	2.260489	12503.52	0.019757
CD22 49112 ES	-2.33076	1.79E-05	1.82E-09	0.175672	0.019766
WDR45 89077 AA	2.329597	3300149	10.82143	1.01E+12	0.019827
SESN1 77156 AP	-2.32821	0.012523	0.000314	0.500172	0.019901
ANKRD16 10668 ES	2.327574	79798579	17.70175	3.6E+14	0.019935
STX16 59983 ES	-2.32696	0.007469	0.000121	0.461935	0.019968
U2AF1L4 49269 AA	-2.32685	4.72E-08	3.19E-14	0.069973	0.019973
NCBP2 68272 AD	2.326848	24960.04	4.935507	1.26E+08	0.019973
MFSD11 43691 AD	-2.32672	0.10871	0.016767	0.704839	0.01998
VCL 12254 ES	2.325098	44.61872	1.815685	1096.462	0.020067
COPS3 39475 AA	2.324464	12290.24	4.378101	34501279	0.020101
PBX1 8787 AT	-2.32437	4.17E-16	4.47E-29	0.003879	0.020106
MKNK1 2815 AD	-2.32427	0.013546	0.00036	0.509546	0.020111
TNFRSF12A 33347 ES	-2.32412	0.019716	0.000719	0.540535	0.020119
KSR1 39851 AA	2.323508	676.3355	2.77215	165009	0.020152
VAMP8 54289 AP	-2.32094	1.66E-20	3.30E-37	0.000839	0.02029
NVL 9944 ES	2.320885	172.0575	2.226743	13294.66	0.020293
ACOT7 391 AP	-2.32074	0.034184	0.001975	0.591656	0.020301
PGS1 43874 AA	-2.32036	1.34E-13	1.80E-24	0.010017	0.020321
POLR2D 55247 AP	-2.31966	0.001311	4.81E-06	0.35729	0.020359
NSUN5 270161 ES	2.319482	1.02E+20	1262.659	8.23E+36	0.020369
ARMCX4 89650 RI	2.319324	8.737355	1.399133	54.56334	0.020377
SLC25A32 84813 ES	-2.3188	0.000125	6.26E-08	0.248833	0.020406
KANK2 47639 ES	2.318714	187.4044	2.247208	15628.46	0.020411
HDAC10 62801 ES	-2.31803	2.44E-08	8.95E-15	0.066704	0.020448
IQCK 34333 AT	2.317684	1.83E+09	26.89179	1.25E+17	0.020466
SERF1B 72403 AT	-2.31763	5.00E-05	1.15E-08	0.216898	0.020469
AKIP1 14279 ES	2.31737	1008.013	2.905506	349711.7	0.020484
TOLLIP 13825 AP	-2.31661	7.20E-05	2.25E-08	0.230251	0.020525
RGS11 32858 AT	-2.31612	0.00648	9.11E-05	0.460769	0.020552
BBS5 55864 AT	-2.31593	1.28E-05	9.20E-10	0.176909	0.020562
AKAP13 32349 AT	-2.3159	4.67E-17	7.06E-31	0.003091	0.020564
IKBK 90651 AP	-2.31534	1.19E-05	8.03E-10	0.175377	0.020594
RBMS3 63805 AA	2.313357	112.5946	2.057756	6160.859	0.020703
ASH2L 83369 AP	-2.31292	2.87E-05	4.06E-09	0.202691	0.020727
EMP1 20539 ES	-2.31244	8.29E-09	1.17E-15	0.058636	0.020753
ASH2L 83368 AP	2.312077	34815.79	4.916783	2.47E+08	0.020773
AP4M1 80892 ES	2.311086	858.6714	2.790836	264192	0.020828
ZNF302 48984 ES	-2.31059	0.000239	2.03E-07	0.282158	0.020855
FCER1G 8599 AT	-2.31022	3.42E-05	5.57E-09	0.210348	0.020876
FCER1G 8600 AT	2.310208	29224.16	4.753771	1.8E+08	0.020877



TJP2 86532 AP	-2.30933	0.013155	0.000333	0.519335	0.020925
RBM6 64943 ES	-2.30846	0.012609	0.000308	0.516739	0.020974
SMPD1 14103 AD	-2.30707	0.003919	3.54E-05	0.434391	0.021051
NEK5 25981 AT	2.307001	65.51846	1.875995	2288.209	0.021055
NEK5 25982 AT	-2.307	0.015263	0.000437	0.533051	0.021055
PDHA1 88633 ES	-2.30679	2.30E-11	2.11E-20	0.025152	0.021067
ABC8 82306 ES	2.305329	18.83611	1.552417	228.5462	0.021148
RIBC1 89220 AT	-2.30502	0.001701	7.52E-06	0.384986	0.021165
ARL17A 42031 ES	-2.30496	0.046177	0.003379	0.631099	0.021169
ECHDC2 3026 ME	-2.30448	0.00495	5.42E-05	0.452217	0.021196
TRIP4 31124 AA	-2.30355	1.80E-11	1.30E-20	0.024977	0.021248
PRMT1 51043 ES	2.302864	4240.939	3.468449	5185477	0.021286
CDKN1C 13930 RI	2.299981	59.14984	1.827917	1914.039	0.021449
ZDHH8 61145 ES	-2.29922	5.86E-13	2.19E-23	0.015671	0.021492
BAIAP2 44100 ES	-2.29841	0.000966	2.59E-06	0.359783	0.021539
NAGK 117487 ES	2.298275	86.81076	1.929134	3906.472	0.021546
WBP1 54068 ES	2.297683	3814.394	3.360521	4329567	0.02158
POLR3H 62429 AD	2.297537	131602.9	5.651517	3.06E+09	0.021588
ERG 60589 AP	-2.29748	0.037038	0.002226	0.616201	0.021591
UBL7 31724 AD	2.297453	626.8762	2.575714	152568.8	0.021593
PAK6 29956 AP	-2.29745	0.063713	0.006083	0.667339	0.021593
DDX11 20967 ES	2.297177	2.4E+10	33.39601	1.72E+19	0.021609
KCNC3 51173 AT	-2.29711	5.54E-05	1.29E-08	0.237296	0.021612
KCNC3 51172 AT	2.297111	18046.02	4.214145	77277574	0.021612
DECR1 84410 ES	2.29711	8.82E+09	28.81795	2.7E+18	0.021613
C10orf118 13186 AT	-2.29706	6.80E-06	2.65E-10	0.174443	0.021615
C10orf118 13185 AT	2.297055	147090	5.732422	3.77E+09	0.021616
MANBAL 59335 AP	-2.29677	0.000246	2.05E-07	0.295652	0.021632
RFC1 69056 AA	2.296578	1160.493	2.813135	478733.9	0.021643
KRTCAP3 53011 AP	2.296318	59.95506	1.821409	1973.532	0.021658
JKAMP 27751 AA	2.293638	38592.15	4.647666	3.2E+08	0.021811
METAP2 23795 AA	2.293315	186648.9	5.836936	5.97E+09	0.02183
SORT1 4009 AP	2.292955	785.2033	2.632813	234177	0.021851
IQCK 34334 AT	-2.29202	7.65E-10	1.23E-17	0.047785	0.021904
ABCD4 28376 RI	2.292011	8588.826	3.714622	19858801	0.021905
IRF5 81731 ES	-2.29046	7.09E-09	7.53E-16	0.066696	0.021995
KRTCAP3 53012 AP	-2.29011	0.016821	0.00051	0.554929	0.022015
SNAPIN 7752 ES	-2.29006	2.15E-10	1.15E-18	0.040414	0.022018
NSD1 74743 RI	-2.28937	0.008195	0.000134	0.500939	0.022058
LMO7 26069 RI	-2.28895	0.004004	3.55E-05	0.452292	0.022082
GOLGA4 63987 ES	-2.28811	0.068266	0.006849	0.680474	0.022131
ZNF233 50311 AT	-2.28799	0.000599	1.04E-06	0.345152	0.022138
ZNF233 50310 AT	2.287992	1668.703	2.897277	961099.3	0.022138
SLC23A3 57595 AT	2.287716	526.0028	2.453718	112759.1	0.022154
ZBTB8A 1609 AA	2.287294	383.1074	2.342574	62653.85	0.022179
PAQR4 33338 ES	-2.28682	1.10E-11	4.42E-21	0.027128	0.022206
EIF3H 84957 ES	2.286468	291.4299	2.248702	37769.05	0.022227
SLC23A3 57594 AT	-2.28622	0.001907	8.89E-06	0.409175	0.022242
ALG2 87057 ES	2.286117	208.6984	2.142487	20329.2	0.022247
DAP3 8121 ES	-2.28581	4.69E-11	6.52E-20	0.033696	0.022266
CCDC148 55662 AT	-2.2858	0.03103	0.00158	0.609548	0.022266
COPRS 40163 AP	-2.28566	3.60E-09	2.07E-16	0.062638	0.022274
MATN2 84632 AP	-2.28558	0.031552	0.001629	0.611174	0.022279
LCN6 88203 AP	2.284911	6.896291	1.316022	36.13832	0.022318
INSIG1 82433 ES	2.284623	210.4732	2.138653	20713.5	0.022335
GGNBP2 40493 AT	-2.28321	3.37E-13	6.61E-24	0.017145	0.022418
RANGAP1 62414 AP	2.28258	2691588	8.106001	8.94E+11	0.022455
PPP4R1 44608 ES	2.282447	185.6472	2.09189	16475.48	0.022463

CTNS 38480 AD	-2.28233	0.003173	2.27E-05	0.443705	0.02247
IQCK 93918 ES	-2.28049	0.03207	0.001668	0.616636	0.022578
TSPAN4 13789 AP	-2.27923	0.001075	3.01E-06	0.383875	0.022654
PHF20L1 85194 ES	2.279025	600.2849	2.448875	147145.9	0.022666
G3BP1 74194 AA	2.278438	12144.19	3.723072	39612785	0.022701
ZNF226 50296 ES	2.278297	2575.251	2.996223	2213427	0.022709
MKS1 42651 AA	2.27824	171.1236	2.05116	14276.45	0.022712
RUVBL2 50869 ES	-2.27823	0.187737	0.044523	0.791617	0.022713
CACTIN 46712 RI	2.276449	9.92E+09	24.53519	4.01E+18	0.022819
TMEM126A 18125 AD	-2.27528	1.57E-08	2.99E-15	0.082924	0.022889
SEC31A 69732 ES	-2.27428	0.054128	0.004384	0.668274	0.022949
SUSD4 9910 AT	-2.27395	0.002883	1.86E-05	0.445924	0.022969
CXorf23 88652 AD	2.273824	41.60354	1.672984	1034.591	0.022977
GPR61 4039 AT	-2.27238	0.001259	3.97E-06	0.399315	0.023064
NEK8 39970 ES	-2.27189	9.16E-12	2.75E-21	0.030514	0.023093
PPP3CB 12152 AP	-2.27064	0.002106	1.03E-05	0.430313	0.023169
DLG4 38844 AP	2.26974	316.6564	2.194231	45697.68	0.023223
YIPF2 47605 AD	-2.26859	3.26E-05	4.32E-09	0.245202	0.023293
TBC1D5 63665 ME	2.267519	3836.807	3.062753	4806489	0.023359
GIT2 24378 ES	-2.26721	1.13E-05	5.99E-10	0.213645	0.023378
MRPL48 17725 ES	2.266782	4004.358	3.073389	5217328	0.023404
BDH1 68299 ES	-2.26649	0.001954	8.88E-06	0.430157	0.023422
MYO1C 38306 AP	-2.26646	0.014504	0.000373	0.564126	0.023423
NCBP2 68271 AD	2.266305	224020.2	5.286993	9.49E+09	0.023433
NOL3 36955 ES	2.266143	806.942	2.470269	263596.9	0.023443
CLINT1 74394 AA	-2.26608	0.000394	4.48E-07	0.346825	0.023447
GSTT1 61365 ES	-2.26603	0.009354	0.000164	0.532044	0.02345
CENPV 39431 AA	-2.2651	0.012352	0.000276	0.553274	0.023507
SCML4 77137 AT	-2.26507	0.033083	0.001732	0.631814	0.023508
DLG4 38845 AP	-2.26407	0.003185	2.20E-05	0.461989	0.02357
ZKSCAN3 75740 ES	-2.26334	0.007197	0.0001	0.516149	0.023615
ARFGAP2 15645 ES	-2.26249	8.07E-07	4.25E-12	0.153203	0.023667
NSMF 88309 AT	-2.26164	0.001942	8.67E-06	0.434798	0.02372
MYO5B 45495 AP	2.261606	8.036504	1.320424	48.91261	0.023722
NFYC 2017 AA	2.260243	42583315	10.31723	1.76E+14	0.023806
METTL23 43631 AD	2.259765	54.53689	1.699828	1749.749	0.023836
DNPEP 57689 AD	2.258052	174.4561	1.97664	15397.31	0.023942
MTMR1 90351 RI	-2.25738	2.73E-12	2.49E-22	0.029956	0.023984
DDX31 87987 AA	-2.25731	2.77E-05	3.06E-09	0.251031	0.023989
PRKAG1 21509 ES	-2.257	9.59E-12	2.59E-21	0.035477	0.024008
TCEANC2 3123 AP	-2.2561	1.07E-09	1.71E-17	0.066416	0.024064
SH3KBP1 88642 AP	-2.256	0.009297	0.00016	0.541259	0.024071
FHL2 54831 AD	-2.25595	0.026012	0.001092	0.619534	0.024073
PFDN5 93147 ES	2.255749	248.0436	2.060547	29858.87	0.024086
TAF1C 37838 ES	-2.25545	2.57E-08	6.54E-15	0.101331	0.024105
C14orf80 29660 AP	2.255147	32.55552	1.577583	671.8262	0.024124
ARL6IP4 25030 ES	-2.25467	0.001849	7.79E-06	0.439318	0.024154
MYO5B 45493 AP	-2.25279	0.12503	0.020483	0.763176	0.024272
DIP2A 60938 AT	-2.25216	1.57E-05	1.03E-09	0.23804	0.024312
RHOG 14028 AP	-2.25188	1.97E-05	1.58E-09	0.245463	0.02433
ZNF222 50267 ES	-2.25153	0.001362	4.36E-06	0.42547	0.024352
DCAKD 41931 AT	-2.24904	2.15E-16	4.79E-30	0.009689	0.02451
ARL6IP4 25032 AD	-2.24879	1.62E-05	1.08E-09	0.242498	0.024526
CSAD 21968 ES	-2.24713	0.000284	2.29E-07	0.352164	0.024632
SORT1 4008 AP	-2.24683	0.00139	4.47E-06	0.431752	0.024651
FAM195B 44165 AP	-2.2463	1.13E-08	1.33E-15	0.097104	0.024685
MRPL21 17344 AD	2.245025	11617.34	3.282206	41119445	0.024766
NDUFS8 17276 AP	-2.24295	4.47E-14	9.67E-26	0.02069	0.0249

TMEM127 54517 AP	-2.24281	3.68E-07	8.76E-13	0.154356	0.024909
GLS2 22441 AA	2.242721	23.00449	1.48489	356.3945	0.024915
HKR1 49500 ES	-2.24272	0.001422	4.62E-06	0.437585	0.024915
SNCG 12440 AA	2.242104	433495.9	5.120861	3.67E+10	0.024955
SEMA4B 32469 AP	-2.24167	0.015805	0.000421	0.593811	0.024983
GHRL 63319 ES	-2.24136	0.029756	0.001376	0.643226	0.025003
CCDC25 83176 ES	-2.23972	7.93E-11	1.15E-19	0.054746	0.025109
COPS5 84054 AP	-2.23936	1.46E-14	1.14E-26	0.018791	0.025133
MFSD9 54806 AA	2.23927	664.5421	2.249341	196331.4	0.025138
ANP32E 7431 AA	-2.23853	5.91E-08	2.77E-14	0.126043	0.025187
RRP8 14161 ES	-2.23755	1.23E-06	8.19E-12	0.184848	0.02525
MYCL 1975 AT	-2.23734	2.11E-05	1.69E-09	0.263201	0.025264
MYCL 1976 AT	2.237275	47412.72	3.798213	5.92E+08	0.025268
NARG2 30959 AT	-2.23536	6.27E-07	2.29E-12	0.172133	0.025394
NARG2 30962 AT	2.235346	1593716	5.809024	4.37E+11	0.025395
NBPF10 4441 AP	2.235196	32870.77	3.598975	3E+08	0.025405
NBPF10 4439 AP	-2.23518	3.04E-05	3.33E-09	0.277877	0.025405
RFXANK 48609 AA	2.234312	105313.2	4.137176	2.68E+09	0.025463
RRNAD1 8313 RI	2.23284	533.3462	2.154114	132053.4	0.025559
SFI1 61871 ES	-2.23263	9.36E-18	1.05E-32	0.008324	0.025574
MROH7 3155 AP	-2.23157	0.014296	0.000343	0.596304	0.025643
MRPL47 67700 ES	-2.23141	3.87E-11	2.77E-20	0.054126	0.025654
C5orf45 74948 RI	2.230977	134.036	1.813049	9909.077	0.025683
SNCA 69932 AD	2.230534	42.92767	1.577812	1167.937	0.025712
SLC25A10 44158 AP	2.230145	4944.719	2.802488	8724476	0.025738
SLC25A10 44160 AP	-2.23014	0.000202	1.15E-07	0.356829	0.025738
TENC1 21923 AP	-2.22903	0.030131	0.001386	0.655246	0.025812
C14orf93 26685 RI	-2.22853	1.08E-05	4.66E-10	0.252141	0.025845
RAD1 71743 ES	-2.22828	0.000105	3.35E-08	0.331991	0.025862
CPNE1 59198 ES	2.227309	47.11581	1.587929	1397.984	0.025927
EFCAB11 28799 AT	2.227298	538366.8	4.873925	5.95E+10	0.025927
ASCC3 77091 AT	2.225866	44605374	8.19966	2.43E+14	0.026023
DMKN 49133 AP	2.224612	12.98435	1.356615	124.2751	0.026107
PPP6R3 92707 AA	2.224564	51.97847	1.599882	1688.726	0.026111
KCNH6 42933 AT	-2.22449	0.009711	0.000164	0.576308	0.026116
SPATA13 25473 AP	-2.22419	0.000652	1.02E-06	0.418339	0.026136
USB1 36625 AT	-2.22196	2.99E-11	1.56E-20	0.057427	0.026286
METTL3 26599 AA	-2.22026	3.36E-07	6.50E-13	0.174226	0.026401
ANKRD44 56672 AT	2.219138	411.2087	2.019747	83719.69	0.026477
LILRB1 51921 ES	-2.21868	1.37E-06	9.00E-12	0.207074	0.026508
IL32 33432 ES	-2.21849	1.42E-10	2.83E-19	0.071191	0.026522
MIF4GD 43426 ES	2.218476	32123.22	3.35093	3.08E+08	0.026522
DFFA 616 AT	-2.21778	4.60E-05	6.76E-09	0.313201	0.02657
DFFA 617 AT	2.217781	21724.55	3.192788	1.48E+08	0.02657
C11orf48 16385 AP	2.217566	7860705	6.324229	9.77E+12	0.026584
C11orf48 16384 AP	-2.21756	1.27E-07	1.02E-13	0.158125	0.026585
MTX2 56124 ES	2.217108	62.97127	1.616843	2452.545	0.026616
KLF3 69021 AT	-2.21636	0.000436	4.65E-07	0.408508	0.026667
ZNF701 51473 ES	2.215971	11.84713	1.330554	105.4859	0.026694
EFCAB11 28797 AT	-2.21546	1.74E-06	1.40E-11	0.216656	0.026729
POLR2H 67948 ES	-2.21497	3.82E-15	6.68E-28	0.021886	0.026762
C5orf45 74949 ES	-2.21492	6.77E-17	3.33E-31	0.013764	0.026766
AMACR 71701 RI	-2.2146	3.10E-16	5.83E-30	0.016475	0.026788
F11R 8516 AP	-2.21441	0.002377	1.13E-05	0.499435	0.0268
C20orf196 58657 AT	-2.21433	0.007172	9.07E-05	0.567119	0.026806
C20orf196 58656 AT	2.214326	139.4282	1.76329	11024.97	0.026806
F11R 8517 AP	2.214096	420.4808	2.00056	88377.3	0.026822
ATRIPI 64659 ES	-2.21395	2.12E-05	1.54E-09	0.290887	0.026832

RNH1 13664 AP	-2.21386	0.003959	2.96E-05	0.530248	0.026838
RMND5B 74842 ES	2.213844	285631.4	4.223397	1.93E+10	0.02684
SNX1 31090 AT	-2.21308	2.06E-14	1.56E-26	0.027209	0.026892
LYSMD4 32723 ES	2.212302	29.42022	1.470672	588.54	0.026946
R3HDM1 55444 ES	-2.21176	0.016988	0.000459	0.6288	0.026983
GYG1 67206 ES	2.211296	2.72E+27	1312.762	5.64E+51	0.027015
TMEM184C 70795 AT	-2.21071	5.53E-13	7.50E-24	0.040708	0.027056
CEP78 86656 AT	-2.21064	0.008621	0.000127	0.583315	0.027061
CEP78 86655 AT	2.210625	115.9973	1.714296	7848.924	0.027062
PLXNB1 64637 AP	2.209548	167.4317	1.783192	15720.89	0.027137
CHTF18 33021 AA	-2.209	5.06E-08	1.70E-14	0.150465	0.027174
EXOC3 71443 ES	-2.20862	1.77E-09	3.02E-17	0.103415	0.027201
STAT3 41041 AA	2.208484	58.96193	1.582129	2197.362	0.027211
RSPH1 60716 ES	2.208207	50758.6	3.380542	7.62E+08	0.02723
C19orf60 48491 ES	-2.20817	0.006294	7.00E-05	0.56571	0.027233
ZNF720 36291 ES	2.208116	213.8003	1.827472	25013	0.027236
BOP1 85552 AT	-2.20617	9.65E-07	4.37E-12	0.213141	0.027372
TACC2 13341 ES	2.206047	24.97182	1.431808	435.5277	0.027381
SF3A1 61730 ES	2.206037	162.1871	1.764073	14911.32	0.027381
GEMIN6 53288 AD	-2.20522	4.43E-07	9.97E-13	0.196487	0.027439
PHKG2 36179 AA	2.204935	3333566	5.305231	2.09E+12	0.027459
C1orf50 2112 AA	-2.20476	1.74E-06	1.32E-11	0.229393	0.027471
ZSCAN18 52399 AP	2.204552	1167107	4.711136	2.89E+11	0.027486
ZSCAN18 52400 AP	-2.20454	8.57E-07	3.46E-12	0.212278	0.027486
RPL28 52096 AT	2.203652	10838.49	2.793846	42047026	0.027549
SEPT7 79241 AD	-2.20327	0.00459	3.82E-05	0.551821	0.027576
PFDN5 22011 ES	-2.20229	0.000346	2.87E-07	0.416034	0.027645
ZBTB7B 7877 AP	2.202211	31.36118	1.46085	673.2545	0.02765
CDK7 72327 ES	-2.20201	0.000302	2.23E-07	0.410339	0.027665
RBM4 17097 AD	2.201889	4.32E+09	11.44687	1.63E+18	0.027673
RASGEF1B 69694 AT	-2.20094	9.69E-08	5.51E-14	0.170646	0.02774
RASGEF1B 69695 AT	2.200907	10316292	5.858706	1.82E+13	0.027743
NUP50 62643 ES	2.199231	104.7924	1.658836	6619.968	0.027861
PLA2G6 62211 AD	2.198587	102.7086	1.653214	6380.935	0.027907
TCIRG1 17286 AD	-2.19844	4.76E-10	2.33E-18	0.097452	0.027918
ACOT8 59634 ES	-2.19836	3.23E-07	5.28E-13	0.197752	0.027923
PBLD 11926 AT	-2.19835	1.99E-06	1.64E-11	0.24082	0.027924
LARP7 70390 AD	-2.19834	1.91E-06	1.52E-11	0.2398	0.027925
MPPE1 44652 ES	-2.19816	0.000141	5.20E-08	0.382592	0.027938
RFC5 24685 ES	2.197169	24.8017	1.414319	434.9263	0.028008
CAPN3 30147 AP	-2.19705	0.00997	0.000163	0.608187	0.028017
MRPL2 76236 AT	2.196666	24899.02	2.976542	2.08E+08	0.028044
MRPL2 76235 AT	-2.19666	4.02E-05	4.80E-09	0.335976	0.028045
ZNHIT3 40469 AT	-2.19652	1.76E-08	2.13E-15	0.146216	0.028055
USP28 18808 ES	2.196475	54360.85	3.235074	9.13E+08	0.028058
ZNHIT3 40468 AT	2.196448	56665350	6.835537	4.7E+14	0.02806
CCDC36 64847 AT	-2.1958	0.008356	0.000117	0.598154	0.028106
CCDC36 64848 AT	2.195591	119.6355	1.671059	8565.01	0.028121
GUCD1 61412 ES	-2.19442	0.028491	0.001187	0.683754	0.028205
SLC39A13 15739 RI	2.193342	25284.54	2.940872	2.17E+08	0.028283
FAM184A 77361 AT	2.192612	67240.19	3.252656	1.39E+09	0.028335
SEMA4A 8191 ES	-2.1925	1.20E-10	1.63E-19	0.088685	0.028343
TMEM80 13726 AD	-2.19237	1.86E-08	2.28E-15	0.15151	0.028353
NPEPL1 59991 AP	-2.19234	0.000219	1.18E-07	0.409442	0.028355
CFLAR 56790 AT	2.192234	513433.9	4.02747	6.55E+10	0.028363
SCAMP5 31817 AP	2.191525	46.98747	1.501983	1469.939	0.028414
FHL1 90188 AP	-2.18968	0.00016	6.37E-08	0.39964	0.028548
DTD2 27119 RI	2.189133	557.4399	1.938589	160291.5	0.028587

TADA2A 40518 AT	-2.18874	0.000112	3.26E-08	0.386477	0.028616
NECAB3 59001 RI	2.188718	312.4854	1.822835	53568.85	0.028617
TADA2A 40520 AT	2.188254	8900.567	2.582403	30676888	0.028651
SERF1A 72416 AT	2.188037	6305.817	2.489265	15973924	0.028667
IRX2 71501 RI	2.187592	21.73268	1.377628	342.8425	0.028699
C14orf79 29592 ES	-2.18736	3.61E-06	4.81E-11	0.271808	0.028716
GORASP1 64152 ES	-2.1869	2.81E-12	1.24E-22	0.063281	0.02875
RFFL 40240 ES	2.186869	54.38905	1.513817	1954.113	0.028752
C2orf81 54050 AP	2.186794	51.1699	1.504082	1740.835	0.028758
C2orf81 54051 AP	-2.18679	0.019543	0.000574	0.664867	0.028758
LCN6 88202 AP	-2.18557	0.152296	0.028167	0.823445	0.028847
UBE2Q2 31898 ES	-2.18526	0.001048	2.23E-06	0.492953	0.02887
UAP1 8751 ES	-2.18503	0.0462	0.00293	0.728538	0.028887
SHF 30416 ES	-2.18481	0.003337	2.00E-05	0.556044	0.028902
PPIG 55876 AD	2.184136	5.430599	1.189658	24.78981	0.028952
SLC9B2 70167 AP	-2.18402	0.021274	0.000672	0.673687	0.028961
VPS28 85598 AP	-2.18318	9.40E-10	7.40E-18	0.119412	0.029022
VPS28 85599 AP	2.183069	1.06E+09	8.365867	1.35E+17	0.029031
SUPT4H1 42666 AD	2.183002	33670575	5.875734	1.93E+14	0.029036
MBD4 66720 AD	-2.18265	4.95E-05	6.74E-09	0.363712	0.029062
OVOL1 16917 AP	-2.18209	0.008427	0.000115	0.614955	0.029103
HAUS3 68549 ES	-2.18144	0.001248	3.07E-06	0.507223	0.029151
TMEM194B 56574 ES	-2.1811	8.23E-05	1.76E-08	0.385362	0.029176
FAM184A 77360 AT	-2.18087	1.54E-05	7.26E-10	0.325423	0.029193
CAD 52954 ES	-2.18058	0.000366	2.99E-07	0.449097	0.029215
CASC1 20784 AA	2.17997	704100.6	3.891812	1.27E+11	0.02926
RAMP2 41123 ES	-2.17689	1.11E-11	1.52E-21	0.08096	0.029489
FLNB 65419 ES	-2.1757	0.010327	0.000168	0.635436	0.029578
C17orf75 40200 AA	-2.17532	8.42E-05	1.79E-08	0.394987	0.029606
PTPN6 20029 AA	-2.17479	0.010357	0.000168	0.636713	0.029646
FAM65B 75540 AT	2.174311	2347.112	2.149181	2563272	0.029682
EIF6 59071 AP	-2.1741	1.21E-05	4.48E-10	0.327895	0.029697
EIF6 59072 AP	2.174099	82534.51	3.049698	2.23E+09	0.029698
PTRH2 42790 AP	-2.17397	0.000483	4.94E-07	0.471555	0.029708
PTRH2 42789 AP	2.173954	2072.205	2.120551	2024961	0.029709
FGF12 68129 AP	-2.1734	0.106014	0.01401	0.802206	0.02975
TECPR2 29416 AT	2.173282	77130.48	3.017897	1.97E+09	0.029759
PPP4R1 44609 ES	-2.17313	0.032884	0.001512	0.715362	0.02977
UBOX5 58571 ES	-2.17287	0.001647	5.08E-06	0.533683	0.02979
DCAF10 86447 ES	-2.1727	0.000542	6.14E-07	0.478881	0.029803
TECPR2 29415 AT	-2.1727	1.30E-05	5.08E-10	0.332341	0.029803
ANAPC13 66872 AD	2.172309	16029.35	2.57652	99723724	0.029832
FN1 57398 ES	-2.17223	0.018383	0.000499	0.676706	0.029838
YBEY 60921 AD	2.171604	1395.741	2.025285	961885.3	0.029886
POLR2H 67947 ES	-2.17141	0.03396	0.001603	0.719362	0.0299
LGMN 29005 ES	2.17139	21.13809	1.345924	331.9795	0.029902
SETD3 29218 ES	-2.17065	4.31E-08	9.64E-15	0.192804	0.029958
TM2D3 32771 ES	-2.16942	0.00089	1.56E-06	0.507557	0.030051
RPL39L 68070 AP	2.169133	24.8337	1.363087	452.438	0.030073
RPL39L 68071 AP	-2.16911	0.040271	0.002211	0.733661	0.030075
KIAA1407 66238 AD	2.168922	80.79957	1.526733	4276.17	0.030089
SUSD4 9911 AT	2.168311	205.9889	1.66852	25430.59	0.030135
DMKN 49132 AP	-2.16822	0.079734	0.008106	0.784337	0.030142
TMEM9B 14289 ES	-2.1682	7.73E-14	1.08E-25	0.055043	0.030143
ARL13B 65699 ES	-2.16762	0.083402	0.008825	0.788227	0.030188
ANKS1B 23885 AT	2.167318	795.8764	1.894666	334317.1	0.030211
ANKS1B 23886 AT	-2.16732	0.001256	2.99E-06	0.5278	0.030211
FAM71D 28039 AT	-2.16627	0.094108	0.011092	0.798458	0.03029

DYNLT1 78273 AP	2.165558	78263.3	2.914647	2.1E+09	0.030345
DYNLT1 78274 AP	-2.16556	1.28E-05	4.76E-10	0.343095	0.030345
MYEF2 30479 AT	2.165346	13973.3	2.472746	78962122	0.030361
ZNF235 50306 AT	2.164731	63859.24	2.847984	1.43E+09	0.030408
SLC43A3 15833 AP	2.164337	125.8811	1.578681	10037.52	0.030438
LMBR1L 21521 AD	2.163073	2.95E+08	6.241953	1.4E+16	0.030536
MTRFR1L 1212 AA	-2.16259	1.71E-07	1.26E-13	0.232263	0.030573
TM7SF2 16763 ES	-2.16244	1.04E-15	2.76E-29	0.039559	0.030584
RNF213 44046 AT	-2.16218	4.05E-05	4.22E-09	0.388304	0.030605
ANKRD26 11053 AP	-2.16207	0.017336	0.000439	0.684516	0.030613
AUH 86823 AT	-2.16138	7.09E-06	1.52E-10	0.331235	0.030666
AUH 86822 AT	2.161321	140933.6	3.017879	6.58E+09	0.030671
TMC6 43765 ES	-2.16011	1.67E-06	9.59E-12	0.291574	0.030764
GPR107 87896 ES	-2.15886	0.001056	2.10E-06	0.531867	0.030861
TMEM44 68161 ES	2.158633	106.0336	1.536071	7319.409	0.030879
PARP3 65117 AA	-2.15858	0.023431	0.000775	0.707949	0.030883
ZNF784 52117 AD	2.15844	713.5991	1.829721	278306.7	0.030894
RTEL1 60145 AT	2.158433	135.8107	1.570811	11742.05	0.030894
RTEL1 60144 AT	-2.15843	0.007363	8.52E-05	0.636616	0.030894
TMEM260 27646 ES	-2.15762	0.004651	3.54E-05	0.611402	0.030957
PACRGL 68883 ES	-2.15732	0.009156	0.000129	0.65093	0.030981
MLK4 10329 AT	-2.15708	1.04E-08	5.77E-16	0.186381	0.030999
ASCC3 77092 AT	-2.15664	2.88E-08	4.04E-15	0.205271	0.031033
BZW2 78864 ES	-2.15664	2.18E-11	4.47E-21	0.106609	0.031034
SLC25A35 39149 AT	-2.15663	0.000744	1.07E-06	0.518436	0.031035
SLC25A35 39151 AT	2.156627	1344.866	1.928879	937677.1	0.031035
UBE2D4 79369 AT	-2.15647	1.31E-07	7.32E-14	0.236023	0.031047
UBE2D4 79371 AT	2.156428	7605208	4.235572	1.37E+13	0.03105
KAT8 36242 RI	2.155384	2287377	3.772041	1.39E+12	0.031132
CCDC84 19052 AD	2.155276	127.6528	1.55185	10500.52	0.03114
CDC42 1006 ES	2.154319	11729.89	2.328717	59084189	0.031215
BTN3A1 75662 AA	2.152952	50337.88	2.6392	9.6E+08	0.031322
ZC3H11A 9454 AP	2.152618	25.59946	1.336698	490.2624	0.031349
SESN1 77155 AP	2.152081	85.20934	1.487084	4882.464	0.031391
PHC3 67605 AA	-2.15169	0.00091	1.55E-06	0.535851	0.031422
EPN1 52138 AA	2.151387	47197864	4.817258	4.62E+14	0.031446
STK11 IP 57739 AD	2.151285	71.70535	1.462245	3516.275	0.031454
EEF1E1 75282 AT	-2.15108	3.59E-07	4.82E-13	0.267546	0.03147
STARD10 17647 AD	2.150003	116.5838	1.522895	8924.967	0.031555
MED11 38579 AA	2.149943	865.5456	1.817828	412123.2	0.03156
STAU2 84155 AT	2.148718	224.802	1.609139	31405.57	0.031657
GCNT2 75296 AP	-2.14859	0.03868	0.001991	0.751611	0.031667
LETMD1 21754 ES	-2.14848	0.0105	0.000164	0.670462	0.031676
SLC25A17 62379 ES	-2.14797	1.31E-09	1.03E-17	0.166974	0.031716
GLI4 85408 AA	-2.14772	0.000925	1.57E-06	0.542953	0.031736
MVP 35966 AA	2.147397	2550.161	1.983074	3279414	0.031762
TTLL3 63216 AA	2.147272	15.01168	1.266545	177.9255	0.031772
TAB1 62302 AT	-2.14726	2.12E-10	3.13E-19	0.143263	0.031773
LYRM1 34404 AP	-2.14697	0.003136	1.62E-05	0.605238	0.031796
TMEM136 19161 AA	2.145904	22.67593	1.310563	392.3488	0.031881
PDE4D 72140 AP	-2.14543	0.060535	0.00467	0.784705	0.031918
PPP1R1A 22195 AT	-2.14465	0.039636	0.002074	0.757312	0.031981
PRICKLE3 89098 AT	2.144584	9637.46	2.202753	42165704	0.031986
PRICKLE3 89099 AT	-2.14446	0.000104	2.38E-08	0.454251	0.031996
CDPF1 62699 AD	-2.14387	0.000632	7.52E-07	0.531598	0.032043
PPP1R1A 22194 AT	2.143678	25.20989	1.318607	481.9774	0.032059
USP2 19141 ES	-2.14288	0.012229	0.000218	0.686653	0.032123
EXOC6B 53943 AT	-2.14287	1.47E-14	3.28E-27	0.065969	0.032123

APTX 86073 AP	2.142648	575.3341	1.719149	192542.5	0.032141
GAB1 70700 ES	-2.14212	0.017425	0.000428	0.708653	0.032183
GNRH1 83105 RI	-2.14198	0.000601	6.79E-07	0.532483	0.032195
HOMER3 48536 AP	2.14187	6383.389	2.10454	19361781	0.032204
ANKMY1 58265 AD	-2.14186	0.053072	0.003614	0.779305	0.032204
ZNF611 51548 ES	-2.14139	0.002515	1.05E-05	0.602247	0.032243
FAH 32179 RI	2.140256	24.44824	1.309013	456.6161	0.032334
ZDHHC15 89528 ES	-2.1402	0.006641	6.73E-05	0.655545	0.032339
SYT9 14193 AT	2.139516	31.15346	1.334558	727.2355	0.032394
RNF7 67078 ES	2.138825	190.5123	1.551175	23398.35	0.03245
IL17RC 63262 ES	2.138777	11829.05	2.190387	63882036	0.032454
APCDD1 44629 ES	-2.13873	3.76E-05	3.30E-09	0.426683	0.032458
COL1A1 402674 ES	2.138614	621.3594	1.711367	225601.8	0.032467
MYEF2 30481 AT	-2.13838	0.000572	6.09E-07	0.536317	0.032486
MAT2B 74448 AP	2.138155	15892.26	2.239342	1.13E+08	0.032504
MAT2B 74449 AP	-2.13815	6.29E-05	8.87E-09	0.446574	0.032505
THOC5 61617 ES	2.137864	53.05756	1.391626	2022.888	0.032528
ZNF415 51678 ES	2.137862	35.90685	1.347135	957.0692	0.032528
ACADM 3492 ES	-2.13778	5.07E-05	5.86E-09	0.43932	0.032535
ASCC1 12079 ES	2.137501	94.40358	1.458946	6108.545	0.032557
LRRFIP2 63981 AD	-2.13733	0.000114	2.76E-08	0.470743	0.032572
ZNF726 48832 AT	2.136786	786.9287	1.736373	356638.1	0.032615
DAPK2 31076 ES	2.136667	757.434	1.730307	331563.3	0.032625
NPRL2 65036 AA	-2.13644	0.000103	2.24E-08	0.468243	0.032643
TCTN1 24462 AA	-2.13628	1.52E-10	1.49E-19	0.154754	0.032656
NQO1 37304 ES	2.136229	3.38E+12	10.80808	1.05E+24	0.032661
PET100 47118 AT	-2.13607	4.67E-12	1.87E-22	0.116374	0.032674
SLAMF7 8485 ES	-2.13603	0.000235	1.10E-07	0.502247	0.032677
LAMA4 77295 AT	-2.1349	1.76E-10	1.95E-19	0.158747	0.032769
DMKN 49200 ES	-2.13464	0.006184	5.80E-05	0.65957	0.03279
MAEA 68467 AP	-2.13398	1.12E-14	1.72E-27	0.07284	0.032844
DCTD 96837 ES	2.133212	5763.937	2.020343	16444227	0.032907
ZCCHC11 3009 AA	2.133137	104.5927	1.458639	7499.891	0.032913
ACP5 47750 ES	-2.13312	0.018021	0.00045	0.721794	0.032915
NVL 9942 ME	2.132942	16.15359	1.253108	208.2331	0.032929
NMRAL1 33740 AD	2.132768	36.86892	1.339481	1014.81	0.032944
PDCD11 13007 ES	2.132447	12.76821	1.228767	132.6755	0.03297
SH3KBP1 88643 AP	2.132367	18.28066	1.264831	264.2111	0.032977
EIF4E3 65610 AP	-2.13191	0.002986	1.43E-05	0.625699	0.033015
MXI1 13082 ES	2.131806	3.84E+11	8.586619	1.72E+22	0.033023
LCK 1583 ES	-2.13173	0.000921	1.49E-06	0.56936	0.033029
ANGPTL1 9095 ES	-2.12963	0.012636	0.000226	0.705916	0.033202
KIAA0226L 25827 AP	-2.12956	0.077488	0.007361	0.815722	0.033208
NT5DC2 65224 AP	2.12954	238.0957	1.546185	36664.14	0.03321
NT5DC2 65225 AP	-2.12954	0.0042	2.73E-05	0.646753	0.03321
ZNF574 50117 AP	-2.1292	0.006073	5.53E-05	0.666527	0.033238
ZSCAN31 75730 AP	-2.12881	0.157126	0.028592	0.86348	0.03327
RILP 38360 ES	2.127505	9.36E+09	6.098566	1.44E+19	0.033378
TSR1 38389 ES	-2.12744	0.000203	8.07E-08	0.512107	0.033384
EPOR 47694 ES	-2.12661	0.002005	6.54E-06	0.614605	0.033453
PHYHD1 87799 ES	-2.12619	7.94E-05	1.32E-08	0.478041	0.033488
IL15RA 10678 AA	2.125546	586.8661	1.643129	209607.3	0.033541
APOC1 50357 AP	-2.12413	0.014352	0.000286	0.720365	0.033659
ACADM 3510 ES	-2.12252	0.001788	5.19E-06	0.615986	0.033794
ERN1 43052 AT	2.122168	161.5572	1.474991	17695.52	0.033824
ERN1 43053 AT	-2.12217	0.00619	5.65E-05	0.677972	0.033824
IER2 47930 AP	2.121888	133.0811	1.452425	12193.8	0.033847
IER2 47929 AP	-2.12189	0.007514	8.20E-05	0.688504	0.033847

CNDP2 45811 AP	-2.12107	0.00068	8.04E-07	0.574642	0.033916
RAG1 15433 AT	2.120729	9.898287	1.189789	82.34748	0.033945
DYRK1B 49843 AT	-2.12038	2.28E-19	1.34E-36	0.038876	0.033974
COPS4 69764 ES	2.120268	5.29E+13	10.90395	2.57E+26	0.033983
CLSPN 1730 AT	-2.11986	0.021187	0.0006	0.747715	0.034017
CLSPN 1731 AT	2.119849	47.19597	1.337367	1665.555	0.034019
MCFD2 53472 AP	2.119621	3619.34	1.853739	7066595	0.034038
HS1BP3 52778 AT	-2.11836	6.09E-05	7.68E-09	0.483975	0.034144
RAG1 15432 AT	-2.11783	0.101218	0.012153	0.843045	0.03419
WDR27 78474 ES	2.117667	13.13743	1.211422	142.4707	0.034203
ANKRD10 26274 ES	-2.11742	0.024359	0.000782	0.758625	0.034224
FAM21A 11563 ES	-2.11729	0.017781	0.000427	0.741248	0.034235
MFF 57798 ES	-2.117	0.003497	1.86E-05	0.657338	0.03426
METTL23 43632 ES	-2.11698	0.09395	0.010519	0.839116	0.034262
SCAP 64519 ES	2.116411	1.36E+18	21.90216	8.47E+34	0.03431
GSTT1 61384 ES	-2.11553	2.58E-06	1.71E-11	0.388191	0.034384
STAU2 84157 AT	-2.1153	0.005558	4.52E-05	0.68297	0.034404
FUZ 51084 AD	-2.11484	6.08E-06	8.90E-11	0.414935	0.034443
CCDC41 23730 ES	2.113966	2254.658	1.754978	2896608	0.034518
UBXN4 55450 ES	-2.1138	0.0304	0.001192	0.775511	0.034532
IFI27 29088 AA	2.113617	28160.69	2.106078	3.77E+08	0.034548
CCT7 53961 ES	-2.11352	0.076407	0.007037	0.829578	0.034557
PIGQ 32903 ES	-2.11299	0.052767	0.003445	0.808107	0.034601
IMMP1L 14819 ES	-2.11283	0.00288	1.27E-05	0.654918	0.034616
SERF1B 72405 AT	2.111578	11406.68	1.955733	66528736	0.034723
STX16 59984 ES	-2.11114	0.010507	0.000153	0.721638	0.03476
ATG4B 58404 ES	2.109741	12539.8	1.954115	80469484	0.034881
CHMP7 83076 AD	-2.10956	0.000374	2.45E-07	0.571448	0.034896
TET2 70187 AT	-2.10949	0.006099	5.34E-05	0.69665	0.034902
TET2 70188 AT	2.109489	163.9505	1.435435	18725.88	0.034902
CSTF3 14887 ME	-2.10948	0.00272	1.12E-05	0.65791	0.034903
RHEB 82378 AP	2.108106	4385.84	1.802752	10670130	0.035022
GOLGA7 83513 AA	2.107703	30160.39	2.060558	4.41E+08	0.035057
RASSF3 22860 ES	-2.10763	7.42E-06	1.26E-10	0.437141	0.035063
HLTF 67209 AA	-2.10715	0.011719	0.000187	0.733015	0.035105
TLE1 86673 AT	2.10655	2327.467	1.715091	3158492	0.035157
UBB 39435 AD	2.10649	13.05785	1.195692	142.6015	0.035162
CD44 15056 ES	-2.10646	0.040925	0.002092	0.800699	0.035164
TENC1 21925 AP	2.106292	32.27729	1.272993	818.4053	0.035179
FPGT-TNNI3K 3457 AT	2.106035	9.113527	1.165634	71.25424	0.035201
FAM204A 13246 ES	-2.10544	9.56E-12	5.27E-22	0.17321	0.035253
C11orf54 18326 ES	2.105391	29.82271	1.264306	703.4638	0.035257
BCL2L1 58902 AA	-2.1053	0.000377	2.45E-07	0.580308	0.035265
NAT9 43294 ES	-2.10517	0.040881	0.002084	0.802104	0.035277
ZNF587B 52344 AP	2.105076	47.79737	1.305476	1750.005	0.035285
NDUFB10 33166 RI	2.10499	1808.993	1.676584	1951860	0.035292
BRMS1L 27244 AT	2.104484	1.13E+47	1703.185	7.50E+90	0.035336
GEMIN7 50398 ES	2.104059	42.32568	1.2924	1386.152	0.035373
JUP 40932 RI	2.103523	5411.634	1.797993	16288038	0.03542
ZC3H11A 9455 AP	-2.10349	0.040404	0.002032	0.803369	0.035423
DNAJB12 12088 AP	-2.10344	2.17E-10	2.15E-19	0.219196	0.035427
CHTOP 7751 AA	-2.10341	2.56E-05	1.34E-09	0.486207	0.03543
ZNF397 45149 AD	2.103055	9.536109	1.165832	78.00211	0.035461
YIPF1 3074 ES	2.102989	4635.187	1.775543	12100502	0.035467
NSRP1 40075 AT	-2.10295	5.06E-11	1.28E-20	0.199498	0.03547
OXSR1 64042 ES	2.101733	4468.224	1.762843	11325468	0.035577
SAC3D1 16732 RI	2.101725	25.19983	1.243151	510.824	0.035577
FEZ2 53197 ES	2.10108	4.01E+08	3.783039	4.26E+16	0.035634



ZNF268 25351 ES	-2.10084	0.003128	1.44E-05	0.679264	0.035655
EPS15L1 48161 ES	2.100025	113.6537	1.371187	9420.431	0.035727
ZNF177 47313 ES	-2.09981	0.021821	0.000614	0.775119	0.035745
SCIN 78817 ES	-2.09965	0.000112	2.32E-08	0.546113	0.03576
EIF4G1 67892 ES	-2.09918	0.064065	0.004925	0.833406	0.035801
NACA 22488 AD	2.099168	57.3886	1.308081	2517.773	0.035802
CES4A 36915 ES	-2.09913	2.17E-06	1.12E-11	0.421188	0.035805
ALS2CL 64466 RI	2.098106	199.6737	1.417283	28131.01	0.035896
ZNF675 48822 AT	2.097895	311761.2	2.297227	4.23E+10	0.035914
DMKN 49142 AD	2.097749	2050.572	1.65018	2548112	0.035927
DNAJC17 30040 AA	2.097052	5.11E+08	3.709055	7.03E+16	0.035989
ADAM15 7897 ES	-2.09704	0.01933	0.000484	0.772643	0.03599
LRRC23 20001 ES	2.096878	4566.826	1.733609	12030335	0.036004
RAB28 265743 ME	2.096127	1896.563	1.632809	2202922	0.036071
PRR14 36165 AP	2.095659	1762.586	1.622518	1914746	0.036112
PRR14 36164 AP	-2.09565	0.000567	5.22E-07	0.616343	0.036113
DHRS4 26788 ES	2.095549	17.13972	1.201827	244.4363	0.036122
CEACAM1 50164 ME	-2.09553	0.005434	4.14E-05	0.713649	0.036124
MMAB 24331 ES	2.095261	1.78E+14	8.320968	3.80E+27	0.036148
DDO 77229 ES	2.095217	72.04911	1.318002	3938.593	0.036152
HAX1 7823 ES	-2.09483	0.002359	8.22E-06	0.677414	0.036186
RUVBL2 50864 AD	2.094475	44.64542	1.276298	1561.715	0.036218
TSTD1 8526 ES	-2.0941	0.009731	0.000127	0.743242	0.036251
TFDP2 67090 AA	2.094091	199.5153	1.403827	28355.59	0.036252
SEPT2 58377 ES	-2.09354	4.89E-07	6.04E-13	0.395682	0.036301
C18orf32 45473 AP	-2.09354	1.28E-13	1.10E-25	0.150482	0.036301
ZMYND8 59711 AP	2.092933	112.9493	1.350283	9448.047	0.036355
GCNT1 86638 ES	-2.0928	0.008707	0.000102	0.740006	0.036367
GRK6 74764 AT	-2.09246	2.37E-10	2.28E-19	0.245746	0.036398
NFE2L1 42157 AP	-2.09235	0.009339	0.000117	0.744005	0.036407
CSF2RA 88365 ES	-2.09147	0.000285	1.35E-07	0.598472	0.036486
SNX5 58748 RI	2.09075	41.61888	1.262683	1371.787	0.03655
NUDT18 82937 RI	2.090638	106.7192	1.338981	8505.709	0.03656
ACP6 7383 AT	-2.08846	0.026835	0.0009	0.800432	0.036757
ACP6 7384 AT	2.088436	37.26402	1.249279	1111.527	0.036759
DDX17 62239 AD	-2.08791	0.00014	3.38E-08	0.58055	0.036806
CREM 11244 AD	-2.08755	0.024165	0.000733	0.796499	0.036839
LTBP4 49936 ES	2.086965	1046.439	1.526734	717239.9	0.036891
TRIM14 87027 AP	-2.08681	3.38E-07	2.82E-13	0.404211	0.036905
PTBP1 46317 ES	-2.08658	5.06E-06	5.38E-11	0.477162	0.036926
FAM110A 58466 AP	-2.08651	0.004727	3.09E-05	0.72271	0.036932
ZNF302 48983 AA	2.086256	49.66968	1.266698	1947.645	0.036955
MATN2 84633 AP	2.085962	17.25736	1.187727	250.7449	0.036982
LUC7L 32842 RI	2.085806	4845607	2.531297	9.28E+12	0.036996
PQLC1 46259 ES	-2.08535	0.00091	1.26E-06	0.656391	0.037037
TARDBP 634 ES	-2.08509	6.01E-09	1.13E-16	0.321104	0.037061
RHEB 82377 AP	-2.08448	0.000238	9.29E-08	0.607456	0.037117
MFSD10 68614 RI	2.084317	6270.457	1.684814	23337070	0.037131
VKORC1 36233 ES	2.084291	1.01E+17	10.33409	9.85E+32	0.037134
TLE1 86675 AT	-2.08419	0.000478	3.61E-07	0.634021	0.037143
ABCD4 28386 ES	-2.08415	0.002118	6.47E-06	0.692877	0.037146
BECN1 41142 AD	-2.0841	0.000829	1.05E-06	0.655331	0.037151
RABL3 66379 ES	-2.08351	9.59E-09	2.75E-16	0.334597	0.037204
EVI5L 47191 ES	2.082833	385.6406	1.420895	104665.5	0.037266
RIBC1 89219 AT	2.082828	161.6803	1.349852	19365.48	0.037267
P4HA2 73262 ES	-2.08114	0.008703	9.98E-05	0.758643	0.037421
PTBP1 46318 ES	-2.08102	1.61E-05	4.90E-10	0.52613	0.037432
FAM173B 71547 ES	-2.08076	0.004287	2.52E-05	0.728678	0.037456

BCAT2 50816 ES	2.079857	52.62314	1.256657	2203.621	0.037539
HNRNPH3 11928 AD	-2.07984	6.34E-06	8.00E-11	0.501642	0.03754
LSR 49088 ES	-2.07914	0.000242	9.44E-08	0.620476	0.037605
GNB2L1 127737 ES	2.079059	22.61207	1.195586	427.6611	0.037612
SULT1A2 35758 AA	2.079053	810.4693	1.46762	447568.6	0.037612
CACTIN 46714 ES	-2.07894	0.015222	0.000294	0.787016	0.037623
SMAGP 21829 AP	-2.07889	0.002772	1.08E-05	0.714021	0.037627
TAF6 80899 AD	2.077961	5427.791	1.629559	18079073	0.037713
ZNF419 52268 AT	2.077858	791694.3	2.161089	2.9E+11	0.037722
ZNF419 52269 AT	-2.07785	1.26E-06	3.45E-12	0.462741	0.037723
WDR91 81880 AP	-2.0776	9.33E-05	1.47E-08	0.591297	0.037746
RBMS2 22465 ME	2.077502	6047.128	1.636619	22343472	0.037755
CYP51A1 80417 AP	-2.0771	0.017218	0.000373	0.795277	0.037792
TRIM9 27505 AT	2.076525	28.4398	1.206738	670.2554	0.037845
HCFC1R1 33354 ES	-2.07604	8.89E-06	1.51E-10	0.521889	0.03789
CRYGN 152609 AD	2.076014	184.0394	1.338474	25305.32	0.037893
ISLR 31676 AP	2.075973	22.75936	1.190805	434.9904	0.037896
ETV4 41711 AP	2.075532	239.0056	1.356538	42109.89	0.037937
ELOF1 47744 ES	2.074869	1.38E+12	4.702836	4.07E+23	0.037999
AKAP8L 48085 ES	-2.0748	0.001102	1.77E-06	0.685949	0.038005
CACNB1 40629 ES	-2.07459	0.003628	1.80E-05	0.733113	0.038025
DNAH9 39292 AT	-2.07437	0.018643	0.000433	0.802814	0.038045
ANKDD1A 31138 AT	-2.07415	0.000135	2.97E-08	0.612288	0.038065
ANKDD1A 31137 AT	2.074142	7411.177	1.633169	33631277	0.038066
VSTM4 11499 AT	2.073591	1651.773	1.500843	1817883	0.038117
VSTM4 11498 AT	-2.07357	0.000605	5.50E-07	0.666341	0.038119
TMEM14B 75312 AT	-2.07326	6.88E-06	9.05E-11	0.522259	0.038148
RPS15 46490 RI	2.072975	31.64856	1.207241	829.6861	0.038175
ARAP3 73825 ES	-2.07218	0.002244	7.00E-06	0.718703	0.038249
LSM14A 48951 ES	2.072032	8613.166	1.632442	45445188	0.038262
ISLR 31677 AP	-2.07164	0.044079	0.002299	0.845114	0.038299
C18orf8 44832 ES	-2.07109	4.41E-13	8.95E-25	0.217293	0.03835
CREBRF 74575 AT	-2.07061	5.89E-13	1.56E-24	0.22206	0.038395
EPOR 47693 ES	-2.06924	0.129402	0.018654	0.897637	0.038523
AP1G1 37491 ES	-2.06892	4.32E-05	3.17E-09	0.589065	0.038553
TGFBR3 3742 AP	-2.06883	0.000309	1.46E-07	0.653586	0.038562
ZNF415 51679 ES	2.068313	15.22895	1.153333	201.0875	0.038611
NDEL1 39184 AP	-2.06826	1.28E-09	4.80E-18	0.342285	0.038615
NCBP2 68263 AP	-2.06808	9.45E-10	2.64E-18	0.337459	0.038633
ZNF585B 101324 ME	2.067359	15064.27	1.648301	1.38E+08	0.0387
MVK 24347 ES	-2.06713	0.002958	1.18E-05	0.739401	0.038721
CHI3L2 4146 AP	2.067005	8.675672	1.118383	67.30008	0.038734
METTL23 43633 ES	-2.06694	6.45E-05	6.86E-09	0.606912	0.038739
MRPL55 10069 ES	-2.06681	6.94E-05	7.91E-09	0.60958	0.038752
FN1 57392 AA	-2.06662	4.56E-06	3.92E-11	0.530094	0.03877
CABIN1 61390 AD	-2.06652	0.000591	5.13E-07	0.681618	0.038779
FCF1 28425 AD	-2.06644	0.00012	2.28E-08	0.627945	0.038787
ALG10 21066 AD	-2.06625	0.004634	2.83E-05	0.758472	0.038805
NPAS3 27142 AT	-2.06555	0.00029	1.27E-07	0.659384	0.038871
SETMAR 62996 AA	2.065316	121.9181	1.277645	11633.92	0.038893
DKFZP761J1410 47687 A	2.064966	295.5048	1.335445	65388.75	0.038926
ACTN1 28118 ES	-2.0649	1.38E-05	3.37E-10	0.566304	0.038932
KIAA1598 13243 ES	-2.06481	0.000468	3.23E-07	0.677521	0.038941
ANKS3 33838 ES	2.06473	18.81045	1.16055	304.884	0.038949
IL1RAP 68106 AT	2.063687	547.9616	1.372941	218699.8	0.039047
HNRNPU1 50034 AA	-2.06334	0.000524	4.01E-07	0.684941	0.03908
GRAMD1A 49013 ES	-2.06324	4.45E-15	1.04E-28	0.191265	0.03909
ZSCAN32 33556 ES	-2.06288	0.050905	0.003006	0.86195	0.039124

SLC39A9 28148 ES	-2.06257	8.44E-06	1.27E-10	0.559245	0.039154
MRPL35 54418 RI	2.062232	1.28E+11	3.554719	4.60E+21	0.039186
LINS 32734 AT	-2.06207	0.002422	7.90E-06	0.742112	0.039201
LINS 32733 AT	2.062072	412.9245	1.347505	126535	0.039201
VWA9 31210 ES	2.061761	44.27168	1.205801	1625.461	0.03923
C7orf31 79030 AD	2.060856	1199.648	1.414946	1017109	0.039317
BCL2L13 60990 ES	-2.06002	4.34E-08	4.30E-15	0.438931	0.039396
NKIRAS1 63722 AA	2.059977	2175385	2.030916	2.33E+12	0.039401
GTF2H3 25106 ES	-2.0599	1.85E-10	1.01E-19	0.337131	0.039408
ZNF101 48677 RI	2.05942	589.6592	1.360822	255505.9	0.039454
EFCAB11 28801 AA	-2.05917	1.23E-07	3.25E-14	0.464583	0.039478
C11orf54 18325 AA	-2.05875	0.003212	1.36E-05	0.759217	0.039518
CREM 11231 AP	-2.05818	0.004478	2.60E-05	0.772514	0.039573
ZNF587B 52345 AP	-2.05769	0.023276	0.000648	0.836446	0.03962
ZNF200 33465 AD	2.057491	197838.8	1.78259	2.2E+10	0.039639
SMARCD1 21641 AP	-2.05733	3.30E-05	1.78E-09	0.613674	0.039655
MRPS17 79761 AP	-2.05729	3.58E-05	2.08E-09	0.616073	0.039658
BLOC1S1 22229 AP	2.057082	7.21E+22	11.99933	4.33E+44	0.039678
GSTM2 4061 AT	-2.05661	5.19E-09	6.60E-17	0.408021	0.039724
TAZ 90586 ES	-2.05656	0.000664	6.21E-07	0.709127	0.039728
CIZ1 87714 RI	-2.05625	4.40E-10	5.31E-19	0.364654	0.039759
ZNF302 48994 AD	2.05612	13.83731	1.130738	169.3328	0.039771
PARP10 85520 AD	-2.05595	6.26E-10	1.05E-18	0.371786	0.039787
DISP1 9903 AT	-2.05544	4.73E-12	7.52E-23	0.297803	0.039836
CNTROB 39079 AA	2.053711	308.8483	1.299124	73424.29	0.040004
CENPN 37745 ES	-2.05353	0.000172	4.41E-08	0.673783	0.040022
WDR11 13290 ES	2.053191	6.39E+22	10.85168	3.76E+44	0.040054
C2orf74 53688 AP	-2.05254	2.35E-06	9.93E-12	0.557366	0.040117
LETMD1 21761 ES	2.052536	2143.54	1.413313	3251060	0.040118
SMIM7 48189 AD	2.052189	573.7503	1.330383	247439.5	0.040151
KLHL21 478 AP	-2.05142	1.65E-08	6.03E-16	0.449776	0.040226
ICOSLG 60809 RI	-2.05116	2.71E-05	1.17E-09	0.626557	0.040251
CEP70 66998 AT	2.051061	2741.898	1.421348	5289349	0.040261
C14orf159 28860 ES	2.050664	205.8824	1.265698	33489.49	0.0403
ZNF385A 22176 AP	-2.05025	0.00732	6.65E-05	0.805314	0.040341
TPM1 30987 AD	-2.05013	0.060398	0.004127	0.883872	0.040352
PLA2G6 62210 ES	-2.04804	5.03E-06	4.28E-11	0.591764	0.040556
GJA9 1857 AT	2.047531	224.999	1.260654	40157.35	0.040606
ZNF280B 61274 RI	-2.04744	0.005559	3.86E-05	0.801049	0.040615
DNAJC28 60425 AD	2.047319	9.241979	1.09953	77.68245	0.040627
KIAA0226L 25828 AP	2.046809	16.63168	1.126688	245.5097	0.040677
GIPC1 47980 ES	2.046538	126856.9	1.643935	9.79E+09	0.040703
TFPT 51789 AA	-2.04558	2.20E-14	1.80E-27	0.268124	0.040797
SYT9 14192 AT	-2.04555	0.03568	0.001464	0.869823	0.0408
IYD 78144 ES	2.044718	47857.28	1.563091	1.47E+09	0.040883
ZNF235 50305 AT	2.044615	2728.758	1.387575	5366286	0.040893
GIT2 24381 ES	-2.04458	0.015705	0.000293	0.84206	0.040896
SIDT2 18892 ES	2.044046	11215.86	1.467544	85718350	0.040949
CDC42SE1 7556 ES	-2.04403	0.000714	6.86E-07	0.742323	0.040951
BBS9 79220 ES	-2.04381	2.69E-11	1.96E-21	0.368424	0.040972
WDR52 66200 AT	-2.04303	0.007163	6.27E-05	0.818072	0.04105
WDR52 66199 AT	2.043025	139.6185	1.222375	15947.09	0.04105
ANKRD17 69480 AP	2.042672	41.9466	1.16333	1512.483	0.041085
ZBTB44 19492 RI	2.04258	217781.5	1.644014	2.88E+10	0.041094
MIB2 192 ES	-2.04246	1.08E-18	6.24E-36	0.188082	0.041106
LRRC2 64455 AP	-2.04215	0.049194	0.002732	0.885839	0.041136
TCEA1 83859 ES	-2.04215	1.49E-10	5.50E-20	0.402243	0.041137
HPS1 12762 ES	2.041885	562579.7	1.700975	1.86E+11	0.041163

C11orf48 16388 RI	-2.04166	0.005459	3.67E-05	0.811803	0.041185
PLEC 85512 AP	-2.04114	0.00016	3.64E-08	0.706435	0.041236
ALKBH6 49326 RI	2.040446	21.3427	1.128315	403.7091	0.041306
FOXRED1 19378 ES	2.040237	18336082	1.930965	1.74E+14	0.041327
PARL 67810 AD	-2.04003	2.15E-05	7.02E-10	0.655803	0.041347
IDH1 57208 AP	2.039463	1161607	1.723533	7.83E+11	0.041404
IL4R 35690 ES	-2.03933	0.00096	1.21E-06	0.763059	0.041418
ACAD8 19559 ES	2.038852	2994.379	1.363033	6578205	0.041465
PNPLA6 47109 AP	2.038755	2377.854	1.350451	4186893	0.041474
IRF3 51011 ES	-2.03864	0.021088	0.000516	0.861627	0.041486
ARHGEF1 50100 ES	-2.03805	0.000185	4.77E-08	0.719461	0.041545
EPN2 39700 ES	2.037712	61475.14	1.52304	2.48E+09	0.041579
TRMT61B 53080 ES	-2.0376	7.29E-07	9.11E-13	0.583688	0.04159
PRMT1 51044 ES	2.037514	13527.97	1.436278	1.27E+08	0.041599
MLLT4 78458 AA	2.037228	139.3908	1.205932	16111.86	0.041627
FICD 24213 AA	2.03681	509.7199	1.265157	205361.3	0.041669
LRRC2 64456 AP	2.036231	20.33671	1.119441	369.4538	0.041727
ERCC1 50447 AD	-2.03622	0.003874	1.85E-05	0.812225	0.041728
DNAH9 39293 AT	2.035803	50.53443	1.157345	2206.54	0.04177
ARL16 44152 AD	-2.03564	2.73E-06	1.20E-11	0.621084	0.041786
DUSP15 58908 AT	-2.03464	2.43E-06	9.49E-12	0.622196	0.041887
UCKL1 60177 AP	-2.03441	2.03E-06	6.66E-12	0.619003	0.04191
CHD7 83952 ES	-2.03414	7.04E-05	7.03E-09	0.705656	0.041938
MLLT4 78446 AT	-2.03386	8.95E-11	1.86E-20	0.431443	0.041966
SUPT20H 25661 ES	2.033682	330.3412	1.23398	88433.59	0.041984
RPLP0 24736 AD	-2.03356	0.010656	0.000134	0.848438	0.041996
PTK2B 83150 AP	-2.03341	0.06864	0.00519	0.907769	0.042011
TYMP 96247 ES	-2.03322	0.003517	1.52E-05	0.815804	0.04203
AKAP8L 48081 RI	2.033004	1980555	1.68355	2.33E+12	0.042052
RTN4 53592 ES	2.032273	7.559136	1.074623	53.17262	0.042126
CIC 50146 AA	2.032179	75540.57	1.490565	3.83E+09	0.042135
STRADA 42976 ES	-2.03138	0.032296	0.001177	0.886317	0.042217
RREB1 75249 AP	2.03038	7.34E+08	2.029862	2.65E+17	0.042318
C3orf18 65065 AD	2.030217	1.24E+09	2.063685	7.43E+17	0.042334
GEMIN7 50399 AD	2.029857	22.0775	1.112438	438.1514	0.042371
ELMO2 59684 ES	-2.02898	0.010376	0.000126	0.856085	0.04246
MBD1 45507 AA	-2.02869	0.00243	7.24E-06	0.815512	0.04249
DHPS 47837 AD	-2.02805	2.69E-14	2.07E-27	0.350309	0.042556
CD2BP2 36096 AP	-2.02685	5.79E-07	5.38E-13	0.622547	0.042678
ACACB 24283 ES	2.026444	86.01344	1.157353	6392.444	0.042719
MEN1 16706 AD	-2.02603	0.040886	0.001855	0.900996	0.042761
OAZ3 7653 AP	-2.0253	2.45E-06	9.08E-12	0.659148	0.042837
PHF11 25893 ES	2.024909	93664055	1.80166	4.87E+15	0.042877
NEK1 71147 ES	2.024735	24.15555	1.107242	526.9765	0.042895
GGCT 79138 ES	-2.02462	6.64E-05	5.99E-09	0.735489	0.042906
RANBP3 46996 ES	2.02401	17.26751	1.094333	272.4645	0.042969
TULP3 19733 RI	-2.02395	1.57E-10	5.02E-20	0.489806	0.042975
C8orf31 85393 ES	-2.02367	0.000471	2.83E-07	0.785745	0.043004
LAT2 80064 AT	-2.02354	0.004438	2.34E-05	0.843486	0.043017
LAT2 80065 AT	2.023542	225.3026	1.185556	42816.43	0.043017
SHC4 30508 AP	-2.02334	0.027544	0.000849	0.893594	0.043038
GPR137 16617 AP	2.023202	1858.939	1.265277	2731145	0.043052
MPV17 52966 AT	-2.02317	4.76E-16	6.81E-31	0.332133	0.043056
MUS81 16927 AP	-2.02259	2.01E-05	5.63E-10	0.715398	0.043116
SH2B1 35878 AD	-2.02258	1.18E-06	2.13E-12	0.655399	0.043117
MUS81 16926 AP	2.022468	49820.53	1.396926	1.78E+09	0.043128
RAB40C 32913 ES	2.022008	32.14427	1.112357	928.8867	0.043176
FAM179B 27390 ES	-2.02172	6.53E-08	7.07E-15	0.603264	0.043205

ARL6IP4 25029 AD	-2.02147	0.00025	8.07E-08	0.776999	0.043231
APOL3 61991 RI	2.020829	33.49155	1.11155	1009.117	0.043298
MRPL35 54419 RI	2.020427	17506.58	1.339619	2.29E+08	0.043339
ARHGEF10 82561 AA	-2.01997	0.001177	1.69E-06	0.81845	0.043387
LFNG 78616 AP	-2.01983	0.000374	1.77E-07	0.791461	0.043401
MOV10 4226 AA	2.019795	29.7566	1.105736	800.7839	0.043405
SETMAR 63000 ES	-2.01942	0.048416	0.002563	0.914703	0.043443
SUOX 22342 ES	2.01914	16.95544	1.086496	264.6002	0.043473
APTX 86070 AP	2.019027	2285.028	1.253887	4164131	0.043484
COX20 10474 ES	2.01884	3215.929	1.265567	8171994	0.043504
MANBAL 59344 ES	-2.01868	0.000276	9.70E-08	0.787945	0.04352
SULF2 59728 ES	2.018646	209.8256	1.168145	37689.49	0.043524
FKTN 87133 RI	-2.01811	2.42E-14	1.44E-27	0.405187	0.043579
ZSWIM7 39398 ES	2.017842	3412.025	1.262812	9219041	0.043608
MAP2K3 39818 ES	-2.01747	7.26E-07	7.89E-13	0.668358	0.043646
RAD51D 40267 ES	-2.01743	0.040097	0.001762	0.912448	0.04365
RNH1 13662 AP	2.01648	186.9815	1.157901	30194.34	0.04375
ETV7 75974 ES	-2.01625	0.007617	6.65E-05	0.872703	0.043774
ENOSF1 44476 AD	2.016094	27.94699	1.097154	711.8733	0.04379
MFF 57809 ES	-2.016	3.11E-07	1.47E-13	0.659396	0.0438
PLEKHA5 20644 AP	-2.01568	0.000207	5.42E-08	0.790979	0.043833
IFFO1 19883 ES	-2.0152	0.003854	1.73E-05	0.858679	0.043884
TGFBR1 87053 ES	-2.0148	0.001667	3.31E-06	0.840201	0.043925
VAMP7 90683 ES	-2.01472	2.48E-06	8.72E-12	0.704105	0.043934
RUVBL2 50865 ES	-2.01448	0.012633	0.00018	0.888432	0.043959
FAM3A 90630 AA	-2.01429	1.07E-07	1.78E-14	0.648683	0.043979
ZNF180 50335 ES	-2.01393	0.036282	0.001439	0.914971	0.044017
PDHA1 88629 AP	-2.01345	1.53E-05	3.16E-10	0.744934	0.044067
ITSN1 60468 AT	-2.01335	9.86E-08	1.49E-14	0.651961	0.044078
NBPF10 4448 ES	-2.01313	0.063704	0.004364	0.929868	0.044101
SLC47A1 39745 ES	-2.01301	1.51E-05	3.06E-10	0.746394	0.044113
PIK3R1 72291 AP	-2.01235	0.105071	0.011707	0.943035	0.044183
SEC22A 66465 AA	-2.01231	3.86E-16	3.74E-31	0.397215	0.044187
PTK2B 83149 AP	2.012065	12.61966	1.067852	149.1367	0.044213
JMJD7 30119 AA	2.011975	39.44707	1.09966	1415.048	0.044223
SEC24C 12178 ES	-2.01162	3.11E-06	1.34E-11	0.722067	0.04426
COL8A1 65802 ES	2.011107	80.96232	1.118221	5861.896	0.044314
GEMIN2 27354 ES	-2.01063	6.13E-05	4.79E-09	0.783148	0.044365
PCDHA2 73769 AT	2.010319	16.45305	1.072666	252.3643	0.044397
SF3A1 61729 ES	2.009824	1.01E+19	2.961528	3.48E+37	0.04445
RWDD3 3828 ES	-2.00948	0.010783	0.00013	0.894389	0.044486
TMEM234 1575 ES	2.009124	831.1905	1.178802	586084.3	0.044524
FOXP1 65601 AT	-2.00906	2.05E-12	8.09E-24	0.518058	0.044531
SNRNP200 54521 ES	2.006531	14430.06	1.248897	1.67E+08	0.0448
TNFRSF10C 83064 AT	-2.00639	0.000723	6.17E-07	0.84589	0.044814
SLC34A2 68967 AP	-2.0051	0.002682	8.22E-06	0.875214	0.044953
ANKRD10 26270 AT	-2.00506	0.00069	5.61E-07	0.848989	0.044957
ANKRD10 26271 AT	2.005046	1449.484	1.177817	1783811	0.044958
ATPIF1 1381 RI	2.004721	1116.065	1.169611	1064969	0.044993
MINA 65746 AD	2.004534	198.3109	1.124813	34963.34	0.045013
TTLL4 57561 AA	-2.00329	6.14E-06	4.89E-11	0.771404	0.045146
NECAB3 59008 AA	-2.00319	7.87E-06	7.98E-11	0.776	0.045157
HNRNPK 86708 AP	-2.00308	2.59E-05	8.39E-10	0.796632	0.045169
HNRNPK 86709 AP	2.003077	38682.37	1.255278	1.19E+09	0.045169
GSDMD 85422 AP	2.002482	35008.65	1.248776	9.81E+08	0.045233
MRPL51 19868 AP	2.00232	1.76E+11	1.729234	1.78E+22	0.04525
MRPL51 19869 AP	-2.00228	5.70E-12	5.62E-23	0.57858	0.045255
TBC1D3 40560 AP	2.001664	46017.19	1.250666	1.69E+09	0.045321

FARP1 26163 AP	2.001508	124.6613	1.10535	14059.29	0.045338
POLM 79464 AD	-2.00099	0.008808	8.55E-05	0.907526	0.045393
CBWD2 55055 ES	2.000755	657.2802	1.141427	378488.9	0.045419
ZNF208 48802 ES	2.000681	28.75031	1.070743	771.9689	0.045427
LEKR1 67370 AT	1.999864	32.73474	1.072079	999.5191	0.045515
FHL2 54823 AT	-1.99985	9.34E-07	1.15E-12	0.758117	0.045516
TPGS2 45266 AT	1.999716	2.45E+08	1.468167	4.1E+16	0.045531
AGO3 1740 AT	1.998483	545.243	1.129134	263290.1	0.045664
FBXO10 86409 AT	-1.99848	3.52E-07	1.65E-13	0.750969	0.045665
FBXO10 86408 AT	1.998444	2843021	1.331271	6.07E+12	0.045669
ZNF177 47304 AA	-1.99797	0.016695	0.000301	0.925102	0.04572
SNAPC3 85915 RI	-1.99756	7.94E-09	8.96E-17	0.703985	0.045765
PDCD5 48877 AP	-1.99739	2.02E-05	4.99E-10	0.816632	0.045783
PDCD5 48878 AP	1.997382	49557.14	1.224493	2.01E+09	0.045784
DNAJC14 22262 AP	-1.99711	0.009278	9.39E-05	0.916639	0.045814
DNAJC14 22260 AP	1.996853	107.7252	1.090294	10643.65	0.045841
CNOT2 23366 AT	1.996102	8765.748	1.178641	65192347	0.045923
CITED1 89454 ES	-1.99592	0.010253	0.000114	0.920801	0.045943
EFCAB13 99855 ES	1.995781	30.00085	1.062941	846.7551	0.045958
PSPH 79781 AA	1.995435	541.2363	1.118379	261929.7	0.045995
MED14 98321 ES	1.995406	7.43E+11	1.624995	3.40E+23	0.045999
GBA 8041 AP	1.99501	109.0622	1.085915	10953.49	0.046042
GBA 8040 AP	-1.995	0.009169	9.13E-05	0.920913	0.046043
BACH1 60323 AP	-1.99479	0.036008	0.001374	0.943625	0.046066
MAGOHB 20472 ES	1.994785	762.5374	1.122826	517857.2	0.046066
SGSM2 38394 ES	1.994148	188.0364	1.093919	32322.05	0.046136
SFMBT2 10709 AT	1.994125	4957531	1.302255	1.89E+13	0.046138
VWA9 31215 ES	1.993745	69.6	1.074533	4508.152	0.04618
SARDH 88080 AT	1.99364	38.38156	1.063551	1385.119	0.046191
HNRNPF 11322 AP	1.993563	39945.92	1.195506	1.33E+09	0.0462
TMEM8B 86319 AP	1.99347	1703.46	1.133214	2560660	0.04621
RANGRF 39168 RI	1.992749	13261.48	1.169031	1.5E+08	0.046289
UBAP1 86154 ES	-1.99271	0.122416	0.015512	0.966071	0.046293
POC1A 65180 ES	-1.9927	0.007546	6.17E-05	0.922854	0.046294
DNAH7 56630 AT	1.992581	238.2615	1.093732	51903.55	0.046307
ELOVL5 76490 AP	-1.99252	1.62E-05	3.16E-10	0.835111	0.046314
NCOR1 39419 AD	-1.99215	7.34E-08	7.03E-15	0.766902	0.046355
PTPN18 55344 ES	1.992017	102.0338	1.077264	9664.212	0.046369
MACF1 1881 ES	-1.99086	0.003128	1.07E-05	0.914373	0.046496
FAM213B 293 AA	1.990601	7258.637	1.146625	45950333	0.046525
NDUFB8 12824 AT	-1.99009	1.89E-15	5.97E-30	0.598618	0.046582
IDUA 68443 ES	-1.99008	3.44E-09	1.59E-17	0.744602	0.046582
NDUFA7 47216 AT	1.989993	158.442	1.079434	23256.5	0.046592
USP19 64839 AD	-1.98998	1.18E-06	1.71E-12	0.813933	0.046593
BCAT2 50811 AP	1.989797	5605.922	1.138159	27611581	0.046613
HKR1 49495 ES	-1.98976	0.063313	0.004178	0.959519	0.046618
BCAT2 50810 AP	-1.98962	0.000178	3.62E-08	0.87929	0.046633
RBBP4 1626 ES	-1.98953	0.198207	0.040243	0.976232	0.046642
PRICKLE4 76141 AA	-1.98904	0.076138	0.006019	0.963054	0.046697
PDHB 65453 AD	1.988848	5712.499	1.133863	28780053	0.046718
NFE2L1 42158 AP	1.987923	84.6869	1.064422	6737.808	0.04682
USMG5 13004 ES	1.987806	2.13E+12	1.488281	3.05E+24	0.046833
ATXN3 28978 ES	-1.98778	1.03E-05	1.26E-10	0.851605	0.046836
THTPA 26760 RI	1.987719	1757.421	1.109963	2782552	0.046843
PGS1 43878 ES	-1.98764	1.03E-10	1.45E-20	0.725954	0.046851
SRP54 27180 ES	1.987236	8.89E+20	1.938652	4.08E+41	0.046896
SFTA3 27254 ES	1.987234	47.32087	1.054352	2123.829	0.046897
KMT2C 82413 AP	-1.98696	0.022537	0.000535	0.949786	0.046927

BCCIP 13433 AT	-1.98686	0.000683	5.15E-07	0.906044	0.046938
KMT2C 82412 AP	1.986853	44.35784	1.052662	1869.183	0.046939
TMEM108 66830 AA	1.986168	70.42158	1.057736	4688.502	0.047015
PCDH11X 89581 AT	-1.98591	0.014596	0.000225	0.946272	0.047043
ZNF227 50299 AA	-1.9855	0.001195	1.56E-06	0.917098	0.047089
RIC8A 13587 AA	1.984911	4.58E+10	1.361411	1.54E+21	0.047154
EYA3 1370 ES	-1.98442	0.000872	8.28E-07	0.91684	0.047209
STEAP4 80362 AT	1.98379	85.1564	1.054829	6874.68	0.047279
STEAP4 80361 AT	-1.98379	0.011743	0.000145	0.948028	0.04728
STK33 14240 AP	-1.98362	3.69E-05	1.54E-09	0.885363	0.047298
DNAJA4 32073 AT	-1.98349	1.08E-10	1.54E-20	0.761766	0.047313
GGA1 62120 AP	1.983054	1055.952	1.08444	1028212	0.047361
CYP51A1 80416 AP	1.983049	50.56249	1.046729	2442.434	0.047362
SYS1 59527 AT	-1.98298	1.37E-18	3.04E-36	0.620359	0.047369
GGA1 62121 AP	-1.98266	0.000948	9.73E-07	0.923411	0.047406
NAP1L1 23493 ES	-1.9826	0.067536	0.004704	0.969695	0.047412
PACRGL 68908 ES	1.982339	52955.33	1.130627	2.48E+09	0.047441
SNAP23 30166 AP	-1.9823	4.75E-11	2.95E-21	0.765029	0.047446
HYI 2182 AT	-1.98224	1.33E-05	2.01E-10	0.881458	0.047452
ZNF567 49414 AP	1.981451	6.729762	1.02089	44.36295	0.047541
FARP1 26162 AP	-1.98122	0.008273	7.21E-05	0.949856	0.047566
TRIM9 27503 AT	-1.98116	0.038762	0.001556	0.965827	0.047574
TSGA10 54665 AA	-1.98091	0.035436	0.001301	0.9653	0.047601
ZNF175 51359 AT	-1.9804	0.002066	4.55E-06	0.938202	0.047659
REPIN1 82247 ES	1.979669	17.15127	1.028693	285.9609	0.047741
TBC1D9B 74991 ES	1.979348	1.41E+08	1.201766	1.66E+16	0.047777
MLH1 63953 AD	1.978797	170.3865	1.050117	27646.01	0.047839
STRA13 44263 AD	1.978661	3.74E+08	1.205057	1.16E+17	0.047854
C14orf159 28870 ES	-1.97865	0.002751	8.00E-06	0.945839	0.047855
MAPK10 69824 AA	1.977747	120.2226	1.044005	13844.25	0.047957
DNAH7 56629 AT	-1.97739	0.004297	1.94E-05	0.953117	0.047998
CKLF 36731 ES	-1.9771	8.37E-09	8.23E-17	0.8511	0.04803
METTL23 43648 AD	1.975998	12.87082	1.020948	162.259	0.048155
TGFBR3 3739 AP	1.975463	16.64992	1.022311	271.1697	0.048216
OS9 22697 AA	1.974942	276820.4	1.099696	6.97E+10	0.048275
ZNF669 10513 AD	1.974803	56.88817	1.030831	3139.472	0.048291
EIF3M 14855 ES	-1.97434	0.00223	5.20E-06	0.956528	0.048344
STXBP6 27043 AD	1.972921	559.0642	1.042421	299833.4	0.048505
SZT2 2175 AT	1.972176	1.7E+08	1.124526	2.58E+16	0.04859
CNTN6 62939 AT	-1.97157	2.41E-05	6.16E-10	0.939297	0.048658
RFC4 68062 ES	-1.97089	2.59E-11	7.70E-22	0.873649	0.048737
CADM1 18849 ES	-1.97053	0.001042	1.13E-06	0.963861	0.048778
NAT16 81045 AT	1.970348	47.13835	1.020515	2177.357	0.048798
EXOSC10 645 RI	1.970177	90.80118	1.023647	8054.392	0.048818
EGLN3 27148 AT	1.969972	3982.975	1.043014	15209848	0.048842
CNTRL 87411 AT	-1.96972	2.40E-08	6.26E-16	0.916731	0.04887
EGLN3 27149 AT	-1.96963	0.000251	6.58E-08	0.960156	0.048881
GFM2 72503 ES	-1.96952	5.16E-05	2.79E-09	0.953221	0.048893
MTFR1L 1197 AP	1.969514	166326.5	1.060022	2.61E+10	0.048894
PPFIA3 50895 RI	-1.96914	0.006323	4.09E-05	0.976678	0.048937
GMEB2 60137 AP	-1.96908	0.059049	0.003533	0.986993	0.048944
ZNF789 80652 ES	1.968763	37.15284	1.016288	1358.211	0.04898
SYVN1 16795 AA	1.968346	675.2789	1.028133	443523.9	0.049028
SUV420H1 17300 ES	-1.96808	7.10E-07	5.34E-13	0.943316	0.049059
ZDHHC4 78749 ES	1.967413	10.14268	1.008811	101.9754	0.049136
ERBB2IP 72267 ES	-1.96669	0.017844	0.000323	0.98591	0.049195
LARGE 61939 AP	-1.96685	0.127566	0.016391	0.992813	0.0492
PHLN1 21222 ES	-1.96682	0.036522	0.001349	0.988535	0.049204

U2AF1 60778 ES	1.966403	1079.03	1.023131	1137983	0.049252
AKAP6 27135 AT	1.966381	4185.793	1.027588	17050479	0.049255
AKAP6 27136 AT	-1.96636	0.000239	5.86E-08	0.973244	0.049257
CAPN10 58269 AT	-1.96663	2.53E-08	6.77E-16	0.945191	0.049264
C1D 53822 ES	1.96551	557.398	1.018001	305198.7	0.049355
LIPA 12487 AD	1.965277	2747.952	1.021636	7391320	0.049382
COPZ1 22171 ES	-1.96523	0.016792	0.000285	0.989118	0.049388
FAM213A 12362 AP	-1.96457	0.010911	0.00012	0.989471	0.049464
EPN1 52137 AP	1.963492	962.5072	1.012419	915055.9	0.049589
EPN1 52136 AP	-1.96349	0.001039	1.09E-06	0.987748	0.04959
SHC4 30507 AP	1.963052	33.0346	1.005518	1085.296	0.04964
ZNF446 52471 AD	1.962603	230.7578	1.007343	52861	0.049692
ZMAT5 61664 ES	-1.96255	0.000629	4.00E-07	0.990325	0.049698
ENOSF1 44465 ES	-1.9613	8.97E-07	8.12E-13	0.990572	0.049844
OPTN 215727 ES	1.961281	9.85E+17	1.028222	9.44E+35	0.049846
EFCAB13 42070 AT	1.961184	79.36628	1.002724	6281.893	0.049858
C11orf74 15440 ES	1.960911	50452.02	1.005241	2.53E+09	0.049889
MRPL36 71494 AD	1.960909	3405.555	1.003926	11552455	0.04989
UBXN11 101231 ES	1.96081	188.4736	1.002262	35442.12	0.049901
SERPINB6 75146 AP	-1.96062	0.000171	2.93E-08	0.997081	0.049923
COL14A1 85018 AT	-1.96034	0.001153	1.33E-06	0.998713	0.049956
UBXN11 1254 ES	1.960061	136.3873	1.000243	18596.96	0.049989