

Supplementary Table 2: DE genes from the differential expression analysis “IcSSc twins vs. unrelated controls”.
 The significance criteria are q -value < 0.1 , $\log_2FC > 0.6$ for upregulation (red font), and $\log_2FC < -0.6$ for downregulation (blue font). Table is sorted on Symbol in alphabetical order.

Symbol	log ₂ FC	q-value
A1BG	0.94642221	0.079381037
AADA4	-3.626946912	0.043097569
AARSD1	1.464690013	0.002987141
ABCA1	0.748995752	0.058348516
ABCA12	3.135776685	0.055879069
ABCA3	1.017657604	0.011806509
ABCB6	0.754335743	0.03571131
ABHD12B	0.955848286	0.075802401
ABI3BP	-1.259602047	0.055879069
AC003092.1	1.910857942	0.077412592
AC003101.1	2.462985441	0.083384539
AC004447.2	0.859822487	0.000108215
AC004466.1	2.519517794	0.072158423
AC004490.1	3.330309982	0.065716473
AC004637.1	3.596853907	0.021237723
AC004893.10	2.781055214	0.036404961
AC005008.2	-2.938578485	0.013428125
AC005519.4	1.590883091	0.004932373
AC005540.3	2.022419324	0.085358026
AC005592.2	2.205129917	0.001067132
AC005682.5	1.087370506	0.008927776
AC005682.7	1.936290988	0.028610857
AC005775.2	-1.664769744	0.060371965
AC005785.2	1.616731382	0.007924155
AC005943.5	-0.625799626	0.04346577
AC005954.3	2.757059152	0.079813751
AC007743.1	-1.684137152	0.048760015
AC008063.2	1.235281094	0.017990268
AC008268.2	-2.945136191	0.020544455
AC008982.2	1.810318782	0.001402398
AC009120.6	0.749985126	0.094830227
AC009133.12	0.600684338	0.007206227
AC009133.14	1.721130277	0.052203568
AC009336.1	-2.878652639	0.068713346
AC010525.7	3.484989003	0.026603675
AC010890.1	3.401144085	0.018270251
AC011841.1	-2.915050362	0.019554115

AC012146.7	-1.154469948	0.012182067
AC012314.8	2.022707466	0.003470345
AC015849.19	0.952531901	0.030551516
AC016582.2	-2.291492346	0.086102296
AC016999.2	1.448577805	0.094600231
AC018470.4	1.735797322	0.00708605
AC018647.3	-2.74571869	0.084170134
AC018720.10	1.231204597	0.066019598
AC018766.4	1.303746885	0.061810881
AC018766.5	1.697043717	1.45E-08
AC018766.6	3.429442388	0.005351814
AC025165.8	2.943200474	7.41E-08
AC027601.1	1.823560824	0.00015023
AC068039.4	2.254128036	0.000124727
AC068282.3	-1.376842561	0.051633193
AC068580.6	1.116109053	0.066385652
AC068831.6	1.638067924	0.045372038
AC073343.1	-0.72647087	0.057074858
AC074212.5	1.395968064	0.034074373
AC074212.6	1.447469114	0.001571954
AC079776.2	-2.280976242	0.0104085
AC084018.1	0.811481262	0.053325551
AC092155.4	-2.730398478	0.004060771
AC092675.3	3.69042334	0.025941714
AC093642.3	1.504475485	0.049710975
AC093838.4	0.61716684	0.001199661
AC096559.1	3.094313357	0.000937555
AC097658.1	-1.192401776	0.050452669
AC097662.2	-0.762501254	0.045159681
AC104135.2	-2.472210015	0.003322521
AC104135.3	-1.247731411	0.050030454
AC109828.1	3.938617483	0.008651549
AC112721.2	2.887497679	0.076245142
AC124789.1	0.937069366	0.011656703
AC130469.2	3.617929903	0.01562097
AC131025.8	2.407489369	0.002425758
AC132872.1	1.067230909	0.078813254
AC133528.2	0.728537077	0.015850695
AC144831.1	-1.208859533	8.88E-05
AC145676.2	1.619894792	0.081833938
ACAN	-2.15385153	0.070301682

ACAP3	0.69761613	4.81E-07
ACCS	0.622770175	0.000579213
ACKR2	-1.810964402	0.031576108
ACKR4	1.128866195	0.046110388
ACOT7	0.821397481	0.033435375
ACP5	2.374580794	0.017978601
ACP6	0.696506623	0.044970902
ACSL5	-1.207953354	0.02842861
ACSS1	-0.797018712	0.020781657
ACTA2	1.155734335	0.037286501
ACTC1	-2.072673749	0.052136786
ACTG2	4.074112137	0.001596203
ACVR2B-AS1	1.033463279	0.04375079
ACY1	1.080953851	0.046467092
ACYPI	1.275774639	1.74E-06
ADAM28	2.179813307	0.003878205
ADAM33	1.357766159	2.88E-07
ADAM8	0.85344023	0.087039667
ADAMDEC1	3.648634252	0.033526901
ADAMTS13	0.61701903	0.048039317
ADAMTS16	3.670638395	0.001805634
ADAMTS5	-1.763785283	1.98E-08
ADAMTS6	2.204987398	3.82E-05
ADAMTS7	-0.908070932	0.00708605
ADAMTSL1	-0.84988433	0.093786174
ADAMTSL3	-3.420849357	0.00286036
ADAMTSL4	1.061718363	0.004301636
ADAMTSL5	0.733497926	0.000412783
ADAPI	-1.580508576	0.052091085
ADARB1	-0.786030277	0.062315878
ADAT2	0.763392636	9.39E-08
ADCY1	1.390470713	0.057488669
ADCY4	1.333865832	0.000871017
ADD3	-0.60684155	0.000175781
ADIRF-AS1	0.905604122	0.002301961
ADORA2B	0.659578562	0.030032153
ADRA1B	-1.057160583	0.087843593
ADRA1D	1.919097823	0.002369758
ADRA2C	-3.098052211	0.000114262
ADSSL1	0.738838151	0.082316682
ADTRP	1.400839571	0.001145062

AF207550.1	1.594032276	0.056706159
AFAP1L2	3.989938059	0.01114026
AGER	1.363912257	0.015449803
AGT	1.587918068	0.056113562
AHSA2	1.079856922	6.17E-05
AJAPI	6.606976496	0.010841124
AKAP12	-0.736608118	0.010390527
AKRIC1	-1.182585736	0.053826753
AKRIC3	-0.995245949	0.011551521
AKR7A3	1.441954506	0.009834633
AL031320.1	1.521813866	0.032278678
AL118506.1	2.726361916	0.007126838
AL133458.1	2.662928179	0.000926412
AL139147.1	3.138401313	0.000169813
AL161915.1	-0.656162482	0.046492734
AL590431.1	1.558243663	0.044970902
AL592183.1	-1.406053069	0.006371921
AL592528.1	4.114255226	0.004457823
ALCAM	-1.431353617	2.74E-07
ALDH1A2	-1.175897956	0.009160418
ALDH2	-2.126221312	1.58E-15
ALG1L6P	-0.600839985	0.057299856
ALKBH6	0.925760837	0.066598664
ALKBH7	-0.670883828	3.82E-07
ALOX12P2	1.707258559	0.006370363
ALPK2	-0.828335691	0.072795705
ALPL	1.886757141	0.014526585
ALS2CL	1.982669558	1.62E-06
AMIGO2	0.986585853	0.071708123
AMT	1.937630684	2.35E-11
AMY2B	0.948883621	0.037348852
AMZ1	2.438782097	0.006520301
ANGPTL1	-1.49175208	0.002208476
ANGPTL7	5.421903713	7.40E-05
ANK1	0.988630012	0.061368865
ANKEF1	-1.324375671	0.009831794
ANKRD20A19P	2.678326764	0.098865695
ANKRD29	1.084164822	0.007320254
ANKRD33B	-1.284036277	0.022040395
ANKRD36	1.050534794	0.001199661
ANKRD36B	1.262646738	0.011468149

ANKRD36C	0.844117977	0.001055587
ANKRD9	0.718230792	0.078798918
ANKS1B	1.527015997	0.025385569
ANO1	5.351254848	0.004564487
AP000347.2	1.084562136	0.035045936
AP000442.1	1.221575184	0.047774492
AP000476.1	-2.238919277	0.088393657
AP000695.6	2.547882048	0.029349513
AP000708.1	-3.467437637	0.004200394
AP000769.1	0.638370827	0.003774206
AP001046.5	1.196967918	0.003099448
AP001062.7	1.111121655	0.022251663
AP001476.2	1.446789114	0.018970699
AP002954.3	1.524962986	0.028887777
AP006222.2	-1.504081596	0.027838021
AP006621.6	1.158642054	0.069864508
AP3B2	1.644889697	0.002438296
APBA2	3.158573538	3.99E-06
APBB2	0.662954141	0.015571447
APBB3	1.082479801	4.91E-10
APCDD1	2.796259523	0.005813847
APITD1	-0.617089676	0.003855637
APOBEC3D	-0.633510058	0.02209523
APOL3	-0.854810299	0.001986378
APOL6	-0.646935886	0.000597516
AQP11	1.18258643	0.019527654
AQP7P2	4.598034362	0.077297303
AR	-2.692974628	7.85E-06
ARAP1-AS2	4.045318882	1.44E-06
ARAP3	1.507179262	2.69E-22
ARFGAP1	0.654794473	3.82E-06
ARG2	-1.80839152	1.01E-07
ARHGAP20	-1.315165058	0.000724107
ARHGAP22	0.933405626	0.004455904
ARHGAP26	-0.702113276	0.014956953
ARHGAP27	0.843285325	0.057461778
ARHGAP28	-0.687233977	0.093786174
ARHGAP29	0.953741373	1.44E-05
ARHGAP33	1.081207034	1.26E-05
ARHGEF16	2.461597323	0.066232676
ARHGEF26	-1.066315945	0.008264581

ARHGEF28	1.198807383	1.10E-05
ARID5A	0.659625349	0.046815862
ARL4A	0.615690209	0.074663987
ARL4C	0.714712841	0.015318751
ARL6IP4	2.729385186	0.000228825
ARMC12	-1.989788615	0.045662421
ARMC4	1.15834123	0.026002236
ARSE	3.912705082	0.000442471
ARSG	0.852793591	0.078577402
ART5	1.87890897	0.055685716
ARTN	2.929503634	0.000229177
ARVCF	1.261236011	0.004198977
ASB16	0.696830672	0.035895306
ASB2	3.464831414	0.006750418
ASIC3	1.412144077	0.003120672
ASMTL-AS1	1.701004101	3.39E-08
ASPHD2	-0.734473911	0.039851734
ASS1P12	1.351269054	0.079706719
ASTN1	2.526222812	0.008814462
ATAD3B	0.839654848	2.95E-07
ATF5	-1.257837394	1.52E-07
ATG16L2	1.178240161	8.28E-09
ATHL1	1.334104098	1.35E-06
ATO8	-2.181352604	5.07E-08
ATP10B	5.507603793	0.008070734
ATP1B1	-1.152092331	0.072450052
ATP2A3	2.297547194	3.99E-06
ATP5J2	-0.944809389	1.62E-06
ATP5L	-0.618282041	1.77E-09
ATP6V1C2	1.175128469	0.002924293
AURKC	1.166712682	0.019675558
AVIL	0.821968331	0.048770727
B3GALT5	1.321898701	0.035108339
B3GNT5	1.310779687	0.055964085
B3GNT7	2.784833421	0.001465661
B4GALNT3	5.331723689	9.08E-05
B4GALNT4	1.334329758	0.046852248
B4GALT6	1.401193536	0.000142342
BACE2	0.774042874	0.03701304
BACH1-IT1	1.120211883	0.006896661
BAI2	1.046884085	0.000278048

BATF2	1.591806701	0.001340629
BCAT1	-0.994322846	0.033968769
BCDIN3D-AS1	-1.031724634	0.018238066
BCL11A	2.799739586	0.000204067
BCL2L2	0.747391806	0.001255758
BCL2L2-PABPN1	1.219369421	0.058470344
BCL7A	0.724698045	0.055637817
BCO2	2.284276394	0.004341266
BDH1	-0.78344177	0.096553727
BEAN1	-1.636710658	0.029020016
BHLHE40	1.438323101	0.003101231
BHMT2	0.795873393	0.005458523
BMP6	-2.468761869	1.82E-06
BMP8A	1.759169312	0.068068436
BMP8B	2.539236095	0.000552616
BMPR1B	-1.454562494	0.048387311
BMS1P8	2.384426435	0.022039299
BNIP1	2.022857525	0.09408579
BPIFB4	4.303340003	0.032953697
BRICD5	0.87876732	0.005419442
BRINP2	2.391629542	0.006466403
BST1	-1.402613181	0.007179369
BST2	2.76807324	0.000447837
BTBD19	1.229886922	7.45E-06
BX470102.3	1.104084172	0.008464833
C10orf105	2.548361833	0.0323419
C10orf11	-0.725146166	0.07328093
C10orf90	2.069339769	0.000210614
C11orf35	2.746822383	0.001573786
C11orf70	-0.852539971	0.000669574
C11orf87	-2.9739131	0.000567474
C11orf89	-4.342020937	0.004485859
C12orf45	-0.722688046	0.000151424
C12orf68	-1.36846024	0.000991288
C15orf52	0.687305781	0.023697627
C15orf54	3.684190694	0.000145251
C16orf45	-0.660436941	0.026911776
C16orf91	-0.691477627	0.001219884
C19orf26	0.679626099	0.001929861
C1orf192	-0.618943658	0.002225854
C1orf213	-0.712286675	0.066552685

C1orf228	1.27599421	0.013053882
C1orf54	-0.839443525	0.087708083
C1orf95	2.369721275	0.024280531
C21orf67	-0.812142743	0.000273693
C3	-1.604282089	0.015658267
C3orf70	2.561478647	3.07E-07
C3orf80	2.464697021	0.007126838
C4orf22	1.785026519	0.003788661
C5AR1	1.414690666	0.071566212
C5orf45	0.678760736	0.001570467
C6orf132	-1.224234457	0.003378123
C6orf201	1.50631462	0.025722579
C7orf43	0.607269169	8.57E-05
CACHD1	0.698970922	0.028123553
CACNA1A	0.753789746	0.035966407
CACNA1D	1.530207892	0.075704373
CACNA2D3	2.620387969	3.18E-05
CADM1	3.951655593	1.95E-08
CADM4	2.264581223	0.001196287
CADPS2	-1.481592882	1.19E-08
CALB2	3.885310132	2.23E-08
CALML6	1.678410921	0.001394186
CAMK1D	-0.667740623	0.073800262
CAMKK1	1.099494343	3.07E-08
CAPN10	0.735531494	4.31E-09
CAPN10-AS1	-0.786734357	0.037741124
CAPN3	1.313362374	0.069864508
CAPSL	-3.575153049	0.036277323
CARNS1	1.075781846	0.023516522
CASC10	-1.225553025	8.30E-07
CASZ1	-3.588475624	0.067379851
CATSPER2	1.461750115	0.000581063
CBLN3	0.638088612	0.070315915
CBS	-0.816839366	0.057511236
CCBE1	-1.105259072	0.01562097
CCDC136	-0.970595296	0.050881905
CCDC14	0.961085487	0.001465661
CCDC144CP	2.216029222	0.091033154
CCDC154	2.481425553	4.02E-07
CCDC159	0.676901083	0.00022204
CCDC23	-0.671335595	0.001814546

CCDC3	-2.137600937	0.028962891
CCDC51	-0.66510297	0.009239963
CCDC78	2.912575622	8.17E-11
CCDC80	-0.783162313	0.009270722
CCDC85A	-2.060549761	0.064309025
CCND1	1.608394378	0.000840434
CCND2	2.208790749	0.002943247
CCND2-AS2	3.698744993	0.038020795
CCNJL	-1.814599161	0.006435385
CCNL1	0.647832558	0.008140791
CCNL2	1.125526061	1.38E-07
CD14	-0.978683262	0.037814028
CD34	-2.886855437	1.13E-07
CD70	-4.786925214	3.10E-06
CD74	4.374768665	5.95E-07
CD82	0.794231276	0.005045444
CD9	0.873963263	0.078577402
CD99P1	0.620499758	0.051232964
CDC42BPG	-1.307032294	0.091475001
CDH15	2.832433688	0.025438486
CDH18	-5.470754794	0.000191977
CDH19	5.134827132	0.001015785
CDH20	1.388845206	0.04740441
CDH24	0.661413906	0.017776452
CDHR1	-2.248039152	0.046506013
CDK10	0.708132747	0.000316928
CDK11A	1.246277398	0.034104417
CDK14	0.645173573	0.001821654
CDK18	3.67451438	0.002675965
CDK3	1.708573784	0.000312794
CDK5R1	0.726999378	0.055879069
CDK5RAP3	0.892612377	1.57E-06
CDKL1	-0.750240288	0.078256195
CDKN2A	1.216482012	3.38E-08
CDR1	0.930012283	0.001360149
CDS1	-1.881394341	0.054579664
CDX1	1.197445732	0.052549242
CEACAMP10	2.438263458	0.090510529
CEBPG	-0.614058736	0.037741124
CECR6	-1.434354278	0.096553727
CELSR1	2.065533035	4.82E-05

CELSR2	1.318790064	0.005860355
CEND1	-0.741678801	0.087858122
CENPT	0.758229928	7.96E-07
CEP135	0.676574907	0.002404937
CES4A	1.646734356	5.48E-07
CFP	1.913744748	0.082171426
CGNL1	-1.556207101	0.052142885
CHCHD7	0.77194674	2.63E-06
CHDH	1.585045001	0.001223077
CHKB	1.982828135	0.000125181
CHRD1	-4.125120398	8.40E-06
CHRM3	6.034944447	4.46E-07
CHRNE	2.093021262	0.017170961
CHST1	2.18470331	0.078198365
CHST10	0.679564528	0.043942423
CHST15	1.590577373	0.048171044
CHTF18	1.233986177	2.02E-05
CIITA	1.321695162	0.047354175
CILP	-2.795630132	0.00731878
CILP2	4.281566288	5.30E-05
CIRBP-AS1	1.569796437	1.18E-07
CIT	1.237594893	0.016311105
CITED4	1.41005829	0.010238624
CKS1B	-0.78559971	4.81E-07
CKS2	-1.151430771	4.25E-05
CLASRP	0.811627607	7.28E-10
CLCA2	1.816063525	0.002364433
CLCN2	0.669968354	8.45E-06
CLDN14	4.01831815	0.008547682
CLDN4	2.166866451	0.003991708
CLEC14A	3.08088757	0.016699429
CLEC3B	-2.569431219	0.003919479
CLK2	0.867645303	3.35E-11
CLTCL1	0.699418536	0.089407777
CMKLR1	1.946568467	0.077104465
CMTM8	1.773584069	0.012358019
CMYA5	1.350322351	0.009670989
CNGA3	3.116830993	0.000740009
CNKS2	-3.307279464	1.80E-06
CNKS3	-0.634416697	0.001207229
CNOT6LP1	1.854726347	0.002298279

CNTN1	2.674028492	0.019758322
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COL10A1	3.104520631	0.006331157
COL13A1	1.645991818	0.000485509
COL14A1	-1.633141961	0.001495886
COL18A1	1.72805373	2.28E-12
COL21A1	-3.068907132	6.90E-12
COL22A1	3.755225681	0.022163931
COL23A1	2.858660124	0.02368588
COL27A1	0.863331484	0.004316509
COL3A1	-1.085669489	0.055199837
COL6A1	0.601658018	0.000493384
COL6A2	0.703807511	2.86E-06
COL6A6	-2.269460009	2.10E-06
COL7A1	2.733204845	1.49E-06
COL9A2	-1.227660288	1.21E-05
COL9A3	4.368146256	0.0001769
COLQ	0.720048195	0.060370854
CORO2B	0.748791738	5.06E-07
CORO6	1.007914562	0.000518921
COX14	-0.754391837	0.000144097
COX5B	-0.668991878	5.94E-06
COX6A1	-0.600464013	0.021136611
COX7A1	-1.261319866	0.001090302
COX7A2	-0.742696282	0.000112711
COX7B	-1.044360758	2.57E-23
COX7C	-0.600189822	3.65E-06
CPB1	-2.883727333	0.016681587
CPEB1	1.091866275	0.002150075
CPNE7	2.729309653	4.15E-05
CPT1B	3.060754766	9.25E-06
CPVL	-3.016197716	0.000107242
CPXM2	2.07981204	0.000674876
CRELD1	0.832907448	0.013417578
CRIPAK	0.628822485	0.006008052
CRISPLD1	-2.585148864	0.021189682
CRISPLD2	-1.117377648	0.042209825
CRYAB	-0.928262482	0.028791796
CSAD	0.920980708	0.003761408
CSF1	-0.607423828	0.001681498
CSF2RB	4.423357564	0.01715485

CSGALNACT2	0.672196316	2.11E-06
CSPG5	2.857504746	0.02614075
CSRNP1	0.943138629	0.000118898
CSRP2	0.656609457	0.060507167
CT62	2.736204182	0.029484489
CTA-384D8.36	0.987047483	0.021809453
CTA-941F9.9	-1.227313999	0.015093758
CTB-113D17.1	-2.606191169	0.008464833
CTB-113P19.1	1.64881692	0.020302847
CTB-114C7.3	-2.402555617	0.094901366
CTB-131B5.5	1.773363269	0.001237995
CTB-133G6.1	1.147320474	0.095194042
CTB-31O20.4	1.900094894	1.64E-07
CTB-33G10.1	1.169382909	0.080471123
CTB-33O18.1	3.702626407	0.020539065
CTB-51J22.1	1.375243195	0.065687366
CTB-58E17.3	-1.217688941	0.092518653
CTC-215O4.4	2.459762527	0.086667146
CTC-241F20.3	-1.409330165	0.003761408
CTC-297N7.5	-0.619494899	0.061906957
CTC-338M12.5	-2.1314629	0.033023073
CTC-548K16.6	1.99583881	0.03055362
CTC-558O2.2	-1.327678471	0.000116239
CTD-2006C1.2	-0.622247046	0.070698932
CTD-2020K17.1	2.011701589	4.40E-05
CTD-2140B24.6	1.54898168	0.080988641
CTD-2201I18.1	5.306521494	4.79E-06
CTD-2210P24.4	-2.994873317	0.037814028
CTD-2228K2.7	1.237351219	0.002583177
CTD-2240E14.4	2.685568394	0.08631294
CTD-2319I12.1	-1.834750877	0.011384117
CTD-2371O3.2	2.89375215	0.025981657
CTD-2517M14.5	2.046238491	0.014644998
CTD-2536I1.1	-5.863987455	0.000640795
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CTD-2547L16.1	-1.241252102	0.051633193
CTD-3032J10.4	1.982532132	0.004338281
CTD-3088G3.8	1.987217342	0.001795766
CTD-3110H11.1	-1.225436843	0.028882886

CTD-3236F5.1	2.97398219	0.044768127
CTH	-1.245582816	0.006096731
CTNND2	-5.003983494	0.048119072
CTSB	0.795489159	0.00163522
CTSH	2.763094629	6.70E-08
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CXCL1	-3.782305771	4.10E-08
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CXCL6	-3.650456254	6.05E-07
CYB5A	-0.631355229	0.004930841
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CYP2D6	1.107315559	0.021286657
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CYP3A7	2.039718764	0.007221266
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CYYR1	1.537098101	0.012811804
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DAB1	-2.384213049	0.009547007
DAB2IP	0.632320273	0.076551472
DAPK2	-0.869575945	0.060845617
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DCAF12L2	-3.69393171	7.34E-07
DCBLD1	0.935412638	0.001077697
DCDC2B	1.043985685	0.013534516
DCHS2	-0.944599814	0.022016345
DCLK2	0.602398381	0.038624425
DCST2	2.471766214	0.017204707
DDX12P	1.654014682	7.40E-06
DDX39B	0.679978245	0.001811802
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DDX47	1.302541065	0.001345786
DENND6B	0.644309073	0.000119685
DFNB59	0.732551179	0.048441212
DGKB	3.021053132	0.001264085
DIO3	4.820369979	0.001379711
DIO3OS	2.046872359	0.087039667
DIRC3	-1.857730955	0.046852248

DLL4	2.402634324	0.024754626
DLX5	5.06700591	0.017290881
DMPK	0.750248097	0.001647223
DMTN	0.886441893	0.063202728
DNAH10OS	-0.846524379	0.084431938
DNAH14	0.766297244	6.19E-05
DNAH17	0.875946996	0.015928444
DNAJC27-AS1	-1.080435357	0.073984085
DNAJC6	1.411214145	0.001788386
DNASE1L1	0.714238367	0.015850695
DNHD1	0.979694513	0.004958022
DNMT3B	0.754816024	0.008030584
DOCK3	1.911291168	0.001680346
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DOK6	-0.634596916	0.030228173
DOPEY2	0.63488513	0.001399859
DPM3	-0.819640659	4.68E-05
DPY19L2	1.387856109	0.044654336
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DRD1	-2.062415565	0.095189992
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DUSP6	0.977426334	0.010571071
EBF1	-0.989848413	3.57E-05
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EDN1	-1.556327154	0.001320253

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EFEMP1	-1.766915587	0.000579213
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ELANE	-1.392799946	0.01486886
ELFN1	1.15854119	0.066598664
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EME2	0.954874111	7.96E-07
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EMX2	-1.065054595	0.00459756
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ENO3	0.830869682	0.011446571
ENOSF1	1.128729511	1.39E-06
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EPB41L2	-0.890874175	2.71E-06
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EPHA5	-5.010082427	0.003284376
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EPHB2	0.995348092	0.00061891
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ETV2	-0.762842593	0.089015809
ETV4	1.465885637	6.30E-07
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EVI2A	1.743417113	0.017298126
EXOC6	0.782657521	0.07171742
EXTL1	3.064782252	0.001624029
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EYA4	-2.23998638	0.08632428
F2RL1	2.467943683	0.012957368
F7	1.189075322	0.046110388
FABP4	-3.079031008	0.037814028
FAH	0.642687647	0.011091641
FAIM2	-1.32447427	0.062982772
FAIM3	2.336131512	0.003291917
FAM101B	0.610882513	0.029858019
FAM102B	-0.791482832	2.21E-05
FAM131B	-0.964379158	0.005260725
FAM134B	2.257854078	0.016112984
FAM13C	-2.174285502	2.24E-05
FAM155A	2.900242261	2.60E-05
FAM156B	0.831782809	0.027648171
FAM157C	6.044184994	1.36E-05
FAM160A2	0.622180857	1.87E-07
FAM161A	0.746874134	0.039083418
FAM167B	-0.650160928	0.061810881
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FBXL6	0.776697184	1.34E-05
FBXO32	1.310929901	0.001279819
FBXO41	0.778863908	0.013494437
FCHSD1	0.828150941	0.0016668
FER1L4	0.911114917	0.030562909
FER1L6	1.789784991	0.002301961
FERMT1	-1.434415193	0.025981657
FERMT3	1.062651998	0.00446327
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FGD6	-0.983460628	0.021930179
FGF18	-2.470014538	0.00012791
FGF5	1.156253379	4.67E-05
FGF9	-3.184646623	0.028431681
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FHDC1	1.574667323	0.024967713
FKBP5	-0.748150334	0.096812833
FLJ00418	1.382157418	0.009374604
FLJ27365	0.93104498	0.001195409

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FLRT1	1.562172999	0.018970699
FLRT3	1.354596252	0.047486993
FMO1	1.788538809	0.089473605
FNDC4	0.750059728	0.02091011
FNIP2	0.932136699	0.048896336
FOS	1.531522753	0.018797522
FOSL1	0.791604537	0.015287393
FOXC1	-0.645817201	0.073527607
FOXD2	-1.124806674	0.034371666
FOXD2-AS1	-0.833437646	0.020894696
FOXD3	4.223215318	0.040428928
FOXF1	1.342949417	0.029853872
FOXF2	0.771447258	0.026547435
FOXM1	-0.721089688	0.031396186
FOXQ1	2.572762747	6.60E-05
FRAS1	-2.525826352	1.11E-07
FREM2	3.966776256	0.02387647
FRMD4B	2.394556584	0.0001051
FRMD5	2.100761381	1.51E-05
FRRS1L	-2.094108045	0.0256901
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FZD4	-0.82232752	0.006735763
FZD5	-0.865390095	0.046582777
GAB1	-0.624148824	0.008651549
GAB3	-1.078364045	0.05387478
GABBR1	1.711094825	4.38E-12
GABRA2	5.257831705	0.000992598
GABRB3	-1.417125257	0.068960961
GABRE	1.398903623	0.004328463
GABRR2	2.839926933	0.026214215
GALNT1	-0.722344591	0.00032954
GALNT13	-2.002233183	0.025484396
GALNT15	1.503121121	0.044976376
GALNT18	1.682126613	0.001937535
GALNT6	2.453366795	7.46E-06
GARNL3	1.06995587	0.013534516
GAS2L3	0.631276988	0.050452669
GAS5	-0.913400334	0.000120075

GAS7	0.921038327	0.061368865
GATM	2.461127778	0.044492496
GBAP1	0.739495701	3.26E-05
GBGT1	-0.923326413	0.011244069
GBP4	-2.801430704	3.24E-08
GBP5	2.516052556	0.061616927
GCA	1.277031883	0.007337976
GCAT	-0.746380528	0.007132928
GCKR	4.066137373	0.000208785
GCNT1	0.6358463	0.068908493
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GDF5	2.424493421	3.82E-05
GDF5OS	4.466845169	0.001882164
GDNF	1.727130498	0.0001051
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GDPD3	1.685016057	7.40E-06
GFRA1	-2.891286745	0.0002872
GFRA2	3.057182904	0.001167857
GFRA3	3.623134469	0.044761744
GIGYF1	0.632473209	0.001947636
GIMAP2	-1.838596071	0.002249147
GJA1	0.733328167	0.029799851
GJA3	2.487197785	0.000104537
GJC2	-0.730509336	0.085603958
GK	1.618757566	0.023279282
GKAP1	0.825543421	0.060507167
GK-AS1	2.596547399	0.002504354
GLDC	2.189665077	0.051642413
GLDN	1.749330779	0.066019598
GLI3	-0.618564005	0.013918928
GLIS1	1.273109918	0.003973704
GLRB	0.639288602	0.06605831
GMFG	-2.176373571	0.046295831
GMIP	0.793751737	0.000152832
GNAO1	1.580593404	0.051368184
GNAZ	1.301653121	0.000986929
GNB3	2.527581823	2.03E-07
GNMT	1.098596839	0.048225024
GNPTAB	0.816439625	0.090510529
GOLGA6L5P	0.992472971	0.003355319
GOLGA8A	2.006796584	1.33E-05

GOLGA8B	1.806916393	7.12E-08
GOLGA8M	2.132070838	0.03843008
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GOPC	0.6256296	0.013758
GPC4	-1.715263435	0.000787331
GPM6B	1.66835094	0.011840251
GPNMB	0.925333687	0.072411542
GPR133	-1.021767995	0.073623896
GPR137B	0.759668096	0.041669315
GPR157	0.794322918	0.089812695
GPR17	2.848300306	1.37E-06
GPR179	-2.839966425	0.027630678
GPR3	1.625784287	0.017553154
GPR4	-5.343075083	6.59E-15
GPR56	2.99909583	0.002157485
GPR63	-2.011135016	0.008464833
GPR68	0.919548994	0.04802635
GPSM1	0.691798152	7.48E-06
GPT	1.115978113	0.00538214
GPX3	-1.2669858	0.032953697
GRASP	0.870740103	0.003901107
GRIK2	3.039352485	3.32E-11
GRM4	-2.578634084	1.51E-05
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GSAP	0.858719652	0.043097569
GSN-AS1	0.89879238	0.046447058
GSTM2	0.626225842	0.007952586
GSTM3	-0.7343437	0.005819294
GTF2IRD1P1	-2.804225734	0.077593094
GUCY1A3	1.674929768	0.059516403
GUCY1B3	1.144792383	0.012458919
GUCY2C	-2.039790144	0.053730554
GYPE	-0.679297608	0.039479282
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HAAO	-1.18711099	0.079813751
HAGHL	1.350479262	1.88E-05
HAND2	-0.98194009	8.89E-05
HAND2-AS1	-1.173776112	0.00017605
HAPLN3	-1.308825164	0.027526648
HAR1A	-0.959726154	0.08632428
HAS3	-0.713152322	0.059027202

HAUS7	1.457184823	0.003154584
HBEGF	2.979354022	0.001320253
HCG25	1.427018217	0.036989355
HCLS1	-3.679606209	0.000357255
HCN3	1.151970384	1.32E-13
HDAC10	1.304832194	8.02E-06
HECW2	-0.827682351	0.004674734
HERC2P2	0.735538666	0.091803123
HES4	1.862735123	0.021076034
HEYL	1.920164557	0.050024056
HHEX	2.198625065	0.017814234
HID1	2.896913885	0.0256901
HILS1	2.692647319	0.055710245
HINT1	-0.633741897	0.000849381
HIST1H2AK	-1.494357837	0.077307483
HIST1H3H	-1.349897624	0.071708123
HIST1H4H	-1.03338148	0.010973237
HK2	0.856070015	0.003417595
HLA-C	1.007010749	0.017493175
HLA-DOA	3.98435714	0.035108339
HLA-DQA1	7.007430043	0.003572495
HLA-DRA	4.619711913	0.000324447
HLA-DRB1	6.248165575	7.04E-05
HLA-F-AS1	1.132795388	0.095768728
HMGA2	1.287121933	6.90E-07
HMGB3	1.275709991	1.45E-05
HMG3-AS1	-0.846096818	0.015198006
HMOX1	-0.855686039	0.009958407
HNRNPA1P14	1.886596752	0.097356144
HNRNPA1P49	1.172176701	0.064743394
HNRNPH1	0.679407374	0.003470345
HORMAD1	4.161874154	0.047789601
HOTAIRM1	1.203187855	0.034491448
HOTTIP	2.079840332	1.29E-06
HOXB13	-1.471490903	0.087336874
HOXB3	3.27643252	0.026911776
HOXB7	5.169185855	0.0031226
HOXB8	4.975016695	0.050904235
HOXC10	4.23656932	0.010314263
HOXD10	-2.133847973	6.38E-05
HOXD11	-2.033319336	1.41E-05

HOXD12	-2.377212697	0.00159152
HOXD13	-1.936534896	0.000126978
HOXD3	-1.692806172	0.021237723
HOXD9	-1.53973707	0.000284647
HOXD-AS1	-2.530850725	0.008178566
HOXD-AS2	-2.130337488	1.26E-05
HPCAL1	0.653933929	0.001688676
HPGD	3.688570636	0.03769534
HPSE	-2.666314867	3.60E-11
HRH2	2.459915867	0.078152596
HRSP12	-0.636137619	0.044492496
hsa-mir-6080	1.383474613	0.000717275
HSF4	1.577390757	0.001546483
ICOSLG	3.138957323	2.50E-05
ID1	-3.148147668	0.000327551
ID2	-1.637583472	0.00016501
ID3	-3.423447683	4.38E-11
ID4	-1.389024936	0.052091085
IER2	0.641358529	0.00581501
IER3	1.184640201	0.007782517
IFI27	2.044825505	0.081874278
IFI27L2	-0.82516947	0.000327551
IFIT1	-0.882552367	0.001966998
IFITM10	0.924723041	0.052272625
IFNE	1.886807064	0.006187699
IGDCC4	1.368807724	0.021237723
IGF2	3.827137432	0.000571657
IGF2BP3	1.818380852	0.000651271
IGFBP6	-1.143298157	0.082061246
IGSF9B	1.889442932	0.008651549
IL11	2.066493196	0.002249147
IL12A	1.532775908	0.046938664
IL16	1.664823928	0.007246211
IL18	-2.663709524	0.009002682
IL21-AS1	-4.613649535	0.001480797
IL24	4.281646138	0.00025463
IL26	-4.831825142	0.067049809
IL2RB	-1.370902083	0.095183828
IL34	1.639453732	0.000258609
IL411	1.493214526	0.016107985
IL6	2.421927426	1.87E-07

IL8	-3.018949571	0.076870386
INE1	1.567134434	0.000156794
INHA	1.553862371	0.010254407
INMT	-1.768666901	0.043360596
INPP4B	1.147047567	0.000167211
IQCD	0.837196544	0.059495645
IRAK1	0.775476387	0.046819694
IRAK3	-0.976175306	0.000119805
IRF9	1.114197495	0.000807156
IRS2	0.835506098	0.001487997
IRX3	-0.726389998	0.061725298
IRX6	1.464398249	0.067059489
ISG20	-1.173706162	0.003193503
ISYNA1	0.678447251	0.041599374
ITGA1	-1.154083076	0.026709782
ITGA2	0.770521964	0.030798544
ITGA6	1.437001732	0.00649218
ITGAE	-0.66293563	1.50E-07
ITGB1BP2	3.936326603	0.001647223
ITGB2	-1.505097202	0.044942741
ITGB2-AS1	-1.847728905	0.052091085
ITGB4	2.047959222	0.020471595
ITGB7	1.152863949	0.08072309
ITGB8	1.269131485	7.71E-05
IZUMO4	0.959344228	0.002407179
JADE3	-0.621518685	0.00357047
JAK3	0.968632309	0.037743911
JAKMIP2	4.842739796	0.043360596
JDP2	-0.738746517	8.29E-05
JMJD1C-AS1	-1.16674608	0.099757346
JMJD7-PLA2G4B	1.384949588	0.00016148
JUN	0.726217875	9.82E-05
JUNB	0.813863197	0.015286505
KAL1	1.653207779	0.065795287
KANK4	4.637466219	0.017624423
KAT2A	0.600204142	6.89E-05
KAZALD1	-1.106356252	0.000160627
KCNA1	-4.84643375	1.50E-05
KCNA3	3.513925709	1.42E-06
KCNA6	-3.223584796	0.001657264
KCNAB3	3.343160092	4.66E-11

KCNB2	4.45583905	0.055637817
KCNC4	0.949789762	0.000416924
KCND3	-1.469617542	0.015739475
KCNIP2	1.532670609	0.000663681
KCNJ6	2.149330595	0.001835964
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KCNK9	4.318150107	0.084112208
KCNMB2	1.88556525	0.087122275
KCNN4	2.218516306	0.004324986
KCNT1	4.255654653	0.002023602
KCNT2	-1.202708912	0.063080893
KCP	1.69450878	0.046347215
KCTD4	2.091682762	0.068914579
KDM5D	-11.62604669	0.000379326
KDR	-1.315863851	0.030263178
KEL	3.595761995	0.018293598
KHDRBS3	0.854316861	0.001453214
KIAA0895L	0.778046639	1.28E-05
KIAA1199	-0.692992534	0.023490534
KIAA1211	3.528960113	2.32E-06
KIAA1211L	3.049443294	0.007413949
KIAA1217	1.304816961	3.71E-05
KIAA1244	1.36136565	0.034992572
KIAA1462	0.71872104	0.063786648
KIAA1755	1.761703796	6.23E-05
KIAA1875	3.115265747	9.51E-05
KIF5C	2.044579764	0.004357923
KIFC2	1.278043362	4.24E-15
KLF10	1.066053661	0.002859681
KLF15	-1.157199336	3.98E-05
KLF4	-0.652351858	0.039037883
KLF5	0.979929724	0.060993439
KLF8	1.05961591	0.00409155
KLHL17	1.36600724	6.10E-20
KLHL5	0.765945631	0.000214007
KLRAP1	0.793781335	0.053137774
KNDC1	1.423469475	0.000273407
KRT18	2.727097428	0.04333955
KRT19	2.386440713	0.003572495
KRT23	3.001162495	0.068130047
KRT36	2.483024066	0.02767007

KRT38	2.847829859	0.026270816
KRT7	-2.859215659	0.007009064
KRTAP1-1	2.838721066	0.000250388
KRTAP1-5	1.916099664	0.0002127
KRTCAP2	0.903639958	0.001478389
LICAM	3.925151328	7.26E-07
L3MBTL1	1.650786931	2.44E-11
L3MBTL4	-2.503299415	0.006952356
LA16c-316G12.2	1.010569588	0.049645763
LA16c-361A3.3	1.659221269	0.006171687
LA16c-366D3.1	0.954434324	0.075939914
LA16c-390E6.4	3.109401361	2.02E-12
LA16c-431H6.6	2.163639573	0.004397158
LA16c-60H5.7	2.78942309	0.097642139
LAG3	2.79484578	0.006209746
LAMA3	1.80950696	1.41E-05
LAMC3	2.388327177	0.033001188
LAT	2.38889299	0.003874604
LCAT	1.419131401	4.98E-11
LCNL1	5.131286698	6.56E-23
LCPI	2.926405483	0.026335115
LENG8	1.470750168	2.59E-09
LEPREL1	-1.877429593	0.003846295
LETM2	0.701949056	0.002036158
LGII	2.620805803	0.094051576
LGMN	-0.994253216	0.00010687
LGR5	-7.160872485	4.68E-13
LHFPL3	6.696370213	5.24E-10
LHX8	-3.250292186	0.008250831
LIF	4.179750729	3.82E-05
LIMK1	1.07522415	5.12E-08
LIN7A	-1.047214446	0.002927754
LINC00106	1.516822022	2.03E-05
LINC00116	-1.387348189	0.000336179
LINC00202-1	1.84584112	0.002587498
LINC00242	-1.878235561	0.002404937
LINC00263	0.800668635	0.073489106
LINC00323	2.379284028	0.017005707
LINC00511	1.312062786	0.005119593
LINC00654	-0.721259019	0.056837927
LINC00680	0.618070477	0.053704039

LINC00689	-2.882960977	0.040363821
LINC00842	-1.682659361	0.045264219
LINC00857	-0.694591423	0.058607314
LINC00877	-3.709846301	0.002520912
LINC00893	1.308349756	9.45E-05
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LINC00933	-0.842033326	0.004359473
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LINC00960	-1.748735966	0.01941335
LINC00969	0.876502183	0.02213629
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LINC01004	-0.671969154	0.083103274
LINC01016	-3.409904305	0.000114827
LINC01021	1.265420203	0.07139253
LINC01023	-0.670162076	0.073395941
LINC01085	-2.857223563	0.08841133
LINC01117	-1.977300276	0.043287556
LINC01123	1.822679531	0.016556137
LINC01125	0.722081732	0.050900468
LINC01133	-1.489521906	0.024754626
LINGO1	-3.027278792	0.01650782
LIPC	-1.623382923	0.000274181
LITAF	1.21777973	1.36E-11
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LMTK3	-1.599420958	0.097092839
LOXL3	1.118370153	0.048320504
LOXL4	1.629301901	2.10E-06
LPAR2	1.330991998	0.000435283
LPHN2	-0.957827679	0.005610759
LPIN3	1.096235417	2.10E-13
LPXN	1.337356425	2.04E-09
LRAT	3.810485473	0.095561435
LRFN5	1.549615175	0.022251663
LRIG3	-0.759646063	0.042875971
LRP8	0.747475879	0.014455852
LRRC17	-2.835390664	0.008698763
LRRC37A5P	-1.368368391	0.078198365
LRRC3DN	0.903883433	0.069141042
LRRC6	-1.008190965	0.001265068

LRR8C	-0.997312184	0.006218505
LRR4M	-3.421025709	0.052262836
LSAMP	-0.915860043	0.085529545
LSMD1	-0.899852649	1.80E-06
LSP1	-5.500488969	7.99E-07
LTB4R	0.956018583	0.00794101
LTBP4	0.647878887	0.012705281
LUC7L	0.683847441	1.62E-07
LY6E	0.730969863	0.027981824
LY6G5B	1.931095723	5.73E-07
LY75	-1.293856001	0.000264908
LY96	-0.809456515	0.001596203
LYNX1	0.814871164	0.078126439
MAB21L1	-0.788334443	0.012043742
MAFK	0.705015915	0.001028806
MAG11	-0.810378602	0.004336255
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MAMDC4	1.114736117	0.00984516
MAN1C1	-1.325013332	1.36E-05
MAN2A1	-0.707332925	2.19E-06
MAN2C1	0.917989857	9.86E-15
MAOA	-2.263151296	3.76E-07
MAP1B	-0.648358644	0.099250161
MAP1LC3C	-1.222265379	0.060936076
MAP2	1.504545466	0.005882829
MAP3K1	-0.751856239	0.012446237
MAP3K12	0.80773371	0.000258573
MAP6	0.728766286	0.020302847
MAP7	2.526587591	8.76E-05
MAP9	0.790473255	1.62E-06
MAPK10	1.099987772	0.015032524
MAPK12	0.600657589	0.001360149
MAPK8IP3	0.675033354	0.011656703
MAPKBPI	0.62576371	5.07E-06
MAPT	2.134729148	0.001624029
MASPI	-1.014814232	0.026446772
MATN2	-2.145220021	1.33E-12
MBOAT2	-1.033321091	0.000298888
MCAM	2.76885902	0.007344398
MCM3AP-AS1	0.617831552	0.051747741
MCMDC2	-0.72581249	0.087793618

MCOLN3	1.235922809	0.071070169
MCTP1	2.067774393	0.004036498
MCU	-0.613648698	0.011666096
MECOM	0.956547153	0.024936191
MED31	-0.622310774	0.010569847
MEG3	0.904174984	0.004434979
MEG8	0.741645121	0.035966407
MEG9	1.544782184	0.000814994
MEGF6	0.963216386	0.017762742
MEIG1	-2.089911964	0.097562051
MEIS1	0.958357707	0.001058354
MEOX2	-3.623216266	0.004745534
METRN	0.63860242	0.026924733
METTL21C	-3.566239032	0.012185014
MFS7	1.244355904	2.69E-09
MGAT5B	1.435930742	0.056263364
MGC4294	4.070513322	0.003663506
MGST1	-0.67447658	0.021082827
MGST2	-0.653161642	0.026057471
MIAT	1.544336113	0.089562587
MICAL1	0.71468565	0.021527582
MICALL2	1.22705161	2.79E-06
MID1	-0.601746907	0.025438486
MIR1302-9	2.934568381	0.014332757
MIR143HG	1.312236706	0.08087293
MIR210HG	1.616529283	0.011551521
MIR221	1.905791608	0.000435283
MIR29A	0.928948942	0.001922745
MIR3176	2.500701213	0.022623134
MIR503	4.045934447	0.001191155
MIR503HG	1.655327084	0.008622785
MIR5587	4.596566561	1.64E-05
MIR647	2.774487265	1.37E-07
MKLN1-AS	-0.623817303	0.006256977
MLPH	1.926391744	0.001487997
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MME-AS1	1.534149357	0.054468218
MMP1	3.429330896	0.000388738
MMP10	-3.882219425	0.001220139
MMP15	1.269069764	0.037600447
MMP25	3.048235708	0.000357198

MMP9	-2.347104487	0.012857524
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MOG	4.511849394	0.079117475
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MOV10L1	0.947364972	0.029538365
MPP3	0.633300435	0.031202787
MPP4	1.386875226	0.025291189
MRAP2	2.520122049	2.26E-05
MRO	-3.270638999	0.053622558
MRPL13	-0.609535798	2.36E-05
MRPL54	-0.997848747	1.48E-06
MSH5	1.825965249	4.27E-08
MSR1	1.654714179	0.079624279
MST1	1.083733837	0.000165548
MST1L	1.635295718	0.04622998
MST1P2	1.772665711	0.000177532
MST1R	3.021831117	8.30E-07
MSX1	-0.601356553	0.005610759
MT1M	-0.911286959	0.007179369
MT2A	1.236424238	0.000248953
MTHFD2	-0.849461949	0.096782199
MTMR8	-3.06281944	0.052908109
MTMR9LP	0.839346938	0.003722261
MT-TE	1.190098508	0.013053882
MT-TN	-0.748910341	1.87E-07
MTUS2	-1.785705015	0.012603627
MTX3	0.798825416	0.001259924
MUC20	1.647265469	0.015558204
MUC6	4.241017978	0.000208416
MURC	0.973309106	0.055199837
MYEF2	2.261718243	4.13E-06
MYEOV2	-1.289108038	2.13E-10
MYH14	3.705605098	0.054601134
MYH15	-2.253881575	0.003828088
MYH7B	0.771522469	0.036338444
MYL5	0.863516829	2.04E-05
MYO15B	1.603123076	0.005365727
MYO1B	-0.670578615	0.00783678
MYO1E	-0.740235611	0.003302964
MYO1H	1.328832745	0.005346676

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MYOZ1	2.872767806	0.022451514
NBEAL2	1.019491052	2.91E-10
NBL1	1.092862508	0.001121672
NCALD	-0.879484633	0.0382727
NCLP1	2.751428417	0.098986816
NDNF	-1.807218106	0.003138357
NDUFA13	1.759439513	0.001591196
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NDUFB1	-0.773047084	7.34E-07
NDUFB2	-0.699908373	0.002334581
NDUFB3	-0.771004264	1.07E-05
NDUFB6	-0.614002768	1.52E-05
NDUFB7	-0.722538811	1.43E-06
NDUFV2	1.58411979	0.035121192
NEAT1	2.115438679	2.45E-08
NECAB3	0.724360878	4.46E-07
NEDD4L	1.307633641	0.001797889
NEDD9	0.770986307	0.079849384
NEFM	1.611704299	0.049736942
NEIL1	0.982082053	2.56E-05
NES	2.571541068	4.31E-06
NEURL4	0.613483317	0.000651271
NFATC2	1.448805088	0.052091085
NFATC4	0.781108625	0.000527697
NFE2L3	1.163213737	0.029261269
NFIA	-1.923319727	6.65E-11
NFIB	-2.251450455	0.01285959
NGFR	4.918275249	0.021527582
NHLRC4	-1.928879757	0.000160471
NICN1	0.851993849	6.90E-12
NID2	-1.912758659	4.13E-11
NKD2	5.069529626	5.36E-05
NKX3-2	-3.824087045	8.03E-05
NKX6-1	3.07596948	0.000658794
NLGN1	-1.345979445	0.015527049
NLGN4Y	-24.9031039	4.46E-14
NLRP1	0.616278216	9.90E-11
NLRP10	1.92318111	0.017218174
NOS3	-2.504444453	0.034417269

NOTCH3	1.043642912	0.067538035
NOX4	2.137084932	6.71E-08
NOXA1	1.963704652	6.47E-06
NPEPL1	1.042045162	1.91E-07
NPHP3	0.657886733	0.000897118
NPIPA1	0.91066816	0.002407179
NPIPA3	2.484976685	0.019491414
NPIPA8	3.941891274	0.012322057
NPIPB11	0.856958229	0.076870386
NPIPB3	0.652730633	0.064487743
NPIPB4	1.027579531	0.008605655
NPIPB5	0.953754419	0.005842321
NPIPP1	0.780233028	0.001265068
NPM1P26	2.022473669	0.092567291
NPNT	2.244951681	0.013047111
NPR1	-3.557013376	2.70E-05
NPTX1	3.601239639	0.001360149
NPTX2	3.022222357	1.09E-05
NPTXR	0.715629061	0.021076034
NQO1	-1.322722545	0.000142342
NR2F1	1.295275837	0.001624029
NR2F1-AS1	0.63495573	0.083092902
NR4A1	0.624719458	0.052937315
NRBP2	0.674731028	8.10E-10
NRK	-4.992026656	0.013774508
NRP1	-0.692894193	0.001696061
NRROS	1.706883153	0.017103126
NRXN3	3.575045362	0.007409274
NSUN5P1	1.405140358	3.50E-12
NSUN5P2	1.524715328	0.000282353
NT5E	-0.808005074	0.021778452
NTF3	2.233068225	0.000131771
NTM	1.767688817	0.043287556
NTRK2	-2.382233789	0.027696611
NTSR1	2.024156671	0.003742302
NUDT14	0.835384461	0.010830207
NUPR1	-0.669961595	0.000475368
NXF1	0.61111475	9.78E-07
NXN	1.162773642	2.62E-09
NXP3	0.728543233	0.046869497
OCIAD2	0.907859955	0.034356216

OGN	-1.187124253	0.087039667
OGT	0.607638754	0.052802631
OLFM1	-0.624767072	0.09169751
OLFML3	-0.741799203	0.000104537
OPRD1	4.21133417	0.029968341
OR1H1P	1.968271984	0.036056362
OR1Q1	1.509974314	0.074190661
OR2A1-AS1	-1.065205423	0.007413949
OR2A20P	-3.33818784	0.01396183
OR2W3	4.601003708	0.028123553
OR5B21	3.721886102	0.015928444
OR7D2	-4.588161753	0.003761408
OR7E22P	-4.207780127	0.011223817
OR7M1P	4.179508407	0.001724928
OSBP2	1.449144011	0.047971254
OSGEP	0.728333286	1.22E-08
OSR1	0.952678355	0.048770727
OVCH2	3.238834967	0.04204466
PABPC1L	1.632868353	7.34E-07
PACSIN3	1.218130425	3.38E-08
PAD11	3.646415369	0.058956254
PAM16	1.165535441	0.000635905
PAN2	0.778629006	0.000203834
PAPLN	1.176420883	0.006718298
PAQR4	0.712541286	0.056080716
PAQR5	1.206668241	0.003228713
PAQR6	0.819763318	0.084438291
PARD6B	1.600255478	0.052203568
PARD6G	1.808534195	2.86E-06
PCBP3	2.435980049	2.44E-05
PCDH1	3.388743644	0.002828582
PCDH20	2.693626993	0.096173674
PCDH7	2.772124181	1.84E-07
PCDHAC2	2.308098136	0.011654191
PCDHB14	0.770310124	0.024967713
PCDHB16	0.85655226	0.010517696
PCDHGA2	-0.947854694	0.008987213
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PCSK4	0.952267504	0.017502584

PCSK5	-0.794579521	0.057511236
PCSK9	-1.831081258	0.04346547
PDE3B	1.966280728	0.099850156
PDE5A	1.132883347	0.043435697
PDGFA	1.145527023	0.007611825
PDGFB	2.780711372	0.087763682
PDGFD	-1.186903375	0.006683552
PDK1	0.793319425	0.003746724
PDXDC2P	1.586414469	2.55E-07
PDZD4	1.153024949	0.096173674
PEG10	-0.862347567	0.070464934
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PERP	0.953250355	0.029982836
PFDN4	-1.238592116	7.05E-19
PFDN5	-0.648335189	2.07E-16
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PI4KAP1	1.504274211	0.004301636
PI4KAP2	0.763312866	0.000871602
PIDD	0.955720025	4.67E-05
PIGL	0.632387881	0.023628673
PILRB	2.664605196	0.000282353
PIM2	0.720628828	0.004393516
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PITRM1-AS1	1.256445515	0.04709701
PITX1	2.871982741	0.008666561
PKD1P6	0.791418528	0.001151189
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PKN3	1.116031665	0.003645802
PKP1	5.350136483	0.000601935
PLA2G2A	-3.052390411	0.008212813
PLAC9	-1.135215973	0.000123598
PLAG1	1.506866892	6.96E-17
PLAUR	0.806346597	0.000135917
PLBD1	-1.748239846	0.000871017
PLCB1	-0.979970878	0.069734703

PLCE1	-0.915692715	0.066179903
PLCE1-AS1	-2.684365883	0.01114026
PLCG2	1.258714383	0.022162352
PLCL2	-0.603199591	0.023495062
PLCXD3	2.674153126	0.021291476
PLEKHA4	0.828932454	0.002371992
PLEKHB1	1.033112922	0.076741672
PLEKHG1	1.090824419	0.087310529
PLEKHH1	1.345098713	0.01938207
PLEKHM1P	1.320271613	2.18E-06
PLEKHN1	1.289981128	0.034992572
PLIN4	1.121882519	0.094051576
PLK3	1.029753115	6.86E-05
PLXNA2	-1.233658813	0.006379303
PLXNA3	0.774052287	8.62E-05
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PLXNB3	2.267686141	2.68E-15
PMEL	1.851102754	0.015076603
PMEPA1	1.758913433	0.011376222
PMP2	6.732096865	0.001378467
PNPLA7	0.715672114	0.063250304
PODXL	-3.307352455	1.42E-08
POLM	0.649358833	0.000327025
PON3	-3.467155009	0.005532836
POU2F2	1.068032925	0.041215356
POU2F3	2.04800933	0.087039667
POU3F2	4.443738671	0.013470281
PPAP2A	-1.024808231	1.54E-05
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PPFIA4	1.944417642	0.0035618
PPIEL	1.059514071	0.034992572
PPIL3	-0.718377296	0.000293575
PPIP5K1	0.758921784	3.11E-06
PPP1R3C	-1.090414382	1.56E-05
PPP1R3G	0.609222645	0.042656699
PRAC1	-4.20635435	0.024606927
PRAC2	-1.940339823	0.006446674
PRCD	1.108590926	0.006288989
PRDM6	-1.055063797	0.002124007
PRED62	3.118065613	1.07E-05
PRG4	-4.596765832	0.00021012

PRICKLE4	0.801722982	0.030551516
PRKAA2	0.71899333	0.014686389
PRKAG3	1.828822327	0.079117475
PRKY	-9.499112254	0.01573614
PRL	-2.362365219	0.076870386
PRMT5-AS1	4.114199761	0.000344578
PROCR	-0.812444494	0.010290369
PROM2	1.112423179	0.058956254
PRRT2	1.372227984	0.001433505
PRSS21	-4.05500608	0.063250304
PRSS51	3.374218296	0.028743894
PRSS53	2.453081068	9.20E-08
PSD	0.955436745	0.012059054
PSEN2	0.909847888	0.008234447
PSG11	3.642957391	0.006415916
PSG9	2.789311336	0.000257124
PSMB9	-0.756716822	0.001323048
PTCHD4	1.949575122	0.026158708
PTGDS	3.223789388	3.89E-08
PTGER2	-1.517827745	0.004956677
PTHLH	1.704571883	0.057812879
PTK6	-1.595351631	0.074162367
PTK7	1.089958772	6.22E-07
PTPLAD2	-0.677408735	0.001951949
PTPRD	-2.311562814	0.051550096
PTPRE	2.38082482	0.002483415
PTPRN2	-2.212384505	0.000256382
PTPRZ1	4.371170559	0.006824879
PTRHD1	-0.818061288	7.41E-06
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RAB11FIP2	-0.794919441	0.00368972
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RAB39B	-2.338519734	0.000577293
RABGAP1	-0.701055859	6.40E-06
RAD9A	0.752480394	0.001361075
RAI14	0.799623871	0.001235606

RAI2	-2.25374107	0.004726314
RAMP2	-1.418857867	0.093846722
RAMP2-AS1	-3.060914775	0.032595813
RAPGEF5	1.524736045	0.051508659
RARRES2	1.608936479	0.093049896
RASD2	2.383125552	0.017431651
RASEF	3.862651355	0.000301075
RASGEF1C	5.867601758	0.001824889
RASGRF2	2.074902169	2.72E-05
RASGRP1	1.715952203	0.047132185
RASL12	2.327930645	0.09710309
RASSF4	1.174717029	0.001647223
RASSF5	-1.027289037	0.00116127
RBKS	-0.994556567	0.004478104
RBMS3	-0.738781047	0.020904056
RBP4	-2.929521505	0.08817873
RBX1	-0.751884419	9.86E-05
REC8	1.955605954	3.19E-12
REEP2	1.518133957	0.000155731
RELN	-4.400879879	0.000207328
RELT	0.739612961	0.062262284
RERG	-4.329622945	0.043446213
RFTN1	-1.496240264	1.35E-21
RFX8	1.318454399	9.82E-05
RGCC	1.450562276	0.009897095
RGS11	1.402060058	8.58E-05
RGS17	1.204144159	0.011241988
RGS7	1.647778418	0.009211001
RHBDL1	1.752607914	2.51E-06
RHOBTB1	-0.71862443	0.0001051
RHOF	0.92187265	0.034256027
RHOT2	0.643928138	2.46E-27
RHOU	-0.921106259	0.043596326
RHPN1	1.59136436	0.006152318
RIMS1	-1.424626599	0.087141672
RIMS3	-0.912357435	0.089984821
RIMS4	1.605727045	0.005532836
RIPK3	1.467870465	0.006187699
RIPK4	-1.777786685	0.008526847
RN7SKP16	1.422431634	0.058237766
RN7SL1	2.299412197	5.07E-06

RN7SL2	2.061843674	7.61E-06
RN7SL23P	2.022222845	0.066744327
RN7SL403P	3.038416969	0.073078989
RN7SL600P	4.215386262	0.028567109
RNA18S5	-2.00316275	3.40E-10
RNA5SP383	2.676453226	0.07881768
RNASEH2CP1	-6.228606886	0.088973965
RND2	1.726011943	0.006119705
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RNF128	1.612822684	0.026709562
RNF144B	-1.736412264	0.070315915
RNF157	2.250156623	0.002699499
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RNFT2	1.359888994	0.096406506
RNU6-403P	4.22481542	0.002249147
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RNY4P10	2.335792725	0.005712485
ROBO3	0.800179904	0.00247395
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ROMO1	-1.119373737	5.45E-08
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ROS1	3.240845836	0.057115089
RP1-102K2.8	5.737217458	0.001647223
RP11-100E13.1	1.575020522	0.071031087
RP11-1017G21.4	1.761393696	0.008146297
RP11-106M3.2	1.998817543	0.013157881
RP11-108K14.4	1.223519967	0.000316618
RP11-108L7.15	-1.134291007	0.067976444
RP11-108P20.1	-0.910251609	0.007942184
RP11-111M22.3	-0.90722955	0.024427604
RP11-118F19.1	3.294340712	0.000260306
RP11-1299A16.3	1.162502259	0.015182791
RP11-137H2.6	2.298301359	0.059867309
RP11-138H8.6	2.3571515	0.005511777
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RP11-1391J7.1	1.169617153	0.017288587
RP11-1407O15.2	0.95699202	0.000871017
RP11-141B14.1	1.678951536	0.051408074
RP11-148B18.3	2.157956	9.20E-06
RP11-148K1.12	2.073363397	0.060507167
RP11-152P17.2	3.603647715	0.030374253
RP11-157G21.2	1.22928964	0.044025294
RP11-159D12.2	1.195026577	0.003572495
RP11-159F24.6	1.67489208	0.080345118
RP11-161M6.2	2.723229375	3.77E-07
RP11-163E9.1	2.268657669	0.012736721
RP11-164J13.1	1.763585021	0.000897423
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RP11-168K11.3	1.902486251	0.035944636
RP11-175B9.3	-1.871410141	0.001259924
RP11-175K6.1	-1.370781219	4.15E-05
RP11-182J1.1	-1.318422591	0.05300163
RP11-191N8.2	3.589614885	0.001152461
RP11-192H23.4	1.112554098	0.00107233
RP11-195F19.9	-0.703609567	0.002927754
RP11-196O16.1	1.025170696	0.020288253
RP11-19E11.1	-1.335102333	0.025436273
RP11-203M5.7	1.609798974	0.002199394
RP11-20I20.4	1.548880602	0.001374911
RP11-210M15.2	3.439734328	0.024963872
RP11-211G3.2	1.220548913	0.031824489
RP11-215G15.5	-1.015410842	0.048249586
RP11-216M21.1	1.738277388	0.000543357
RP11-218E20.5	3.845230491	0.002576942
RP11-218L14.4	5.43331805	0.00021034
RP11-228B15.4	0.856775504	0.089015809
RP1-122P22.2	-0.710331553	0.065361306
RP11-235E17.6	1.736749986	4.33E-10
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RP11-254B13.1	-1.798242511	0.052203568
RP11-259N19.1	0.739241993	0.065687366
RP11-25K19.1	0.732658592	0.094202726
RP11-260O18.1	3.87124432	0.097562051
RP11-263K19.4	1.164664406	0.030074408

RP11-264B17.2	0.700009453	0.039037883
RP11-264B17.3	2.429219859	7.79E-07
RP11-264B17.4	2.057523037	0.005659603
RP11-266L9.6	1.313417882	0.045019159
RP11-268J15.5	0.727720273	0.054068323
RP11-273B20.1	0.802610837	0.01504272
RP11-274B21.1	0.728092483	0.047261254
RP11-274B21.3	0.827693021	0.010841124
RP11-282O18.3	-0.702908805	0.007764737
RP11-284N8.3	3.730788502	9.96E-05
RP11-286H14.8	2.140031165	0.099273612
RP11-288I21.1	1.09757793	0.099500713
RP11-290F20.3	1.65447425	0.033531287
RP11-304F15.3	3.189824534	0.016367626
RP11-304L19.1	3.64148884	1.18E-05
RP11-304L19.3	3.159453879	0.000163944
RP11-30K9.5	-3.919223248	0.004401174
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RP11-33A14.1	-4.480591367	0.006117405
RP11-342M3.5	1.513885146	0.090144825
RP11-343L5.2	1.143131034	0.059117703
RP11-347I19.8	1.020032037	0.013978042
RP11-34A14.3	2.685559059	9.80E-11
RP11-350N15.4	1.767676236	1.86E-05
RP11-356C4.5	5.512298754	0.001266602
RP11-365N19.2	1.288429115	0.059388667
RP11-380G5.3	2.205259091	0.062982772
RP11-382A20.2	1.369401994	0.025436273
RP11-383J24.1	3.273398515	0.065468735
RP11-383J24.6	0.648417239	0.076870386
RP11-384K6.2	1.078664655	0.046852248
RP11-384K6.6	1.081954325	0.005882829
RP11-384P7.7	-3.693919352	0.01413085
RP11-38H17.1	-4.86986555	0.000321068
RP11-38L15.3	-1.409871836	0.025158026
RP11-38P22.2	3.283328413	0.000208785
RP11-395P17.3	1.325796796	0.01417657
RP11-400K9.4	-1.710427009	0.057403969
RP11-400N13.3	3.424047969	0.000165548
RP11-403A21.1	3.210460161	0.030551516
RP11-417E7.1	1.034166895	0.059894121

RP11-417E7.2	2.21179429	0.001320253
RP11-417F21.1	1.626104231	0.008320048
RP11-419C23.1	3.931966463	0.093419817
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RP11-433P17.3	3.021761009	0.073738697
RP11-439C15.4	2.447528189	0.015291055
RP11-449D8.5	2.117070349	0.011230872
RP11-449P15.2	1.132559407	0.004347965
RP11-455F5.4	2.886918013	0.025701531
RP11-458F8.4	0.768491549	0.066904452
RP11-465N4.4	1.468136732	0.028561767
RP11-465N4.5	1.619923124	0.004523227
RP11-466A19.1	1.353367405	0.008755252
RP11-467J12.4	-0.950552092	0.055769807
RP11-468E2.4	2.37543463	0.013918928
RP11-469A15.2	-2.613515616	0.005348143
RP11-473M20.7	0.788302843	0.019807739
RP11-475C16.1	-1.011377423	4.82E-05
RP11-488C13.6	3.076246591	0.013633102
RP11-493K19.3	1.400775629	0.011230872
RP11-495P10.8	-4.336857236	0.004108926
RP11-495P10.9	-4.717836628	0.021838993
RP11-497H16.9	-1.089127101	0.083235414
RP11-499E18.1	-1.07734075	0.00336464
RP11-49C9.2	1.851550372	0.063360443
RP11-4C20.4	3.427600697	0.044578868
RP11-503E24.2	2.668951989	0.000595174
RP11-503N18.5	2.452783816	0.075308418
RP11-504P24.8	1.087496511	0.004745534
RP11-50C13.1	-0.793927655	0.021237723
RP11-521B24.5	2.215968023	5.79E-06
RP11-524D16__A.3	0.70841805	0.048653989
RP11-527D7.1	1.492146828	0.064122309
RP11-536C5.2	-1.781082566	0.026559046
RP11-543P15.1	-0.867088026	0.002130235
RP11-549B18.1	2.099207661	0.005458232
RP11-54A4.2	3.044843563	0.000120075
RP11-54F2.1	-1.114277055	0.017881344
RP11-550I24.2	-1.074554295	0.057488669
RP11-558F24.4	-1.216965632	0.00061891
RP11-56B16.2	1.807459388	0.058455409

RP11-572C15.6	-1.17194846	0.002681425
RP11-583F2.1	1.34288916	0.097761868
RP11-589N15.2	1.08154071	0.064693334
RP11-599J14.2	4.907726763	0.001866948
RP11-603J24.5	2.049779401	0.060456878
RP11-611D20.2	1.803201673	0.003134424
RP11-613M10.6	-0.673878461	0.013255202
RP11-63P12.6	-2.757738211	0.00072814
RP11-64P14.7	1.834639116	0.089655399
RP11-655C2.3	1.912137743	0.007326649
RP11-65J3.1	0.731660988	0.021286657
RP11-65L3.2	-1.893776333	0.080290883
RP11-66B24.2	-2.221946202	0.081192005
RP11-672A2.6	4.430785856	0.008385982
RP11-673E1.3	-0.708870517	0.047194955
RP11-676J12.7	2.18538952	2.20E-05
RP11-676J12.8	1.74440392	0.094855614
RP11-677M14.6	2.263832046	0.030673585
RP11-695J4.2	-2.863864201	0.057629983
RP11-696N14.1	1.023320844	0.022653834
RP11-69E11.4	1.43153397	0.003154583
RP11-69E11.8	2.519090008	0.052914362
RP11-6N17.4	-1.430132818	0.000393523
RP11-703I16.3	2.972883567	0.034325763
RP11-707P17.2	1.57746974	0.004106166
RP11-715J22.2	3.267068062	0.046955984
RP11-72I8.1	1.88944144	0.00731878
RP11-73M7.6	1.790802651	6.30E-05
RP11-762H8.2	0.996139634	0.096812833
RP11-769O8.1	1.949137116	0.041485566
RP11-773H22.2	-2.087744667	0.088973965
RP11-794G24.1	3.352306357	0.085519527
RP11-798K3.3	3.084592915	0.071708123
RP1-179N16.6	2.222553944	2.90E-06
RP11-7F17.5	-1.645063273	0.088805836
RP11-7K24.3	-1.751035674	0.021279059
RP11-802E16.3	1.096756358	0.010566486
RP11-815M8.1	4.730188836	7.40E-06
RP11-817O13.6	1.809394039	0.021748982
RP11-820L6.1	-1.118523476	0.017170961
RP11-831H9.3	2.441941916	0.039037883

RP11-834C11.4	-0.788447013	0.067811519
RP11-84A19.3	2.116114108	0.007132928
RP11-855O10.2	3.308988495	0.014427834
RP11-85K15.2	-0.966199348	0.050420213
RP11-861E21.2	1.079625169	0.086309654
RP11-867G23.3	1.629215459	0.044025294
RP11-87H9.3	1.952368177	0.04375079
RP11-88H9.2	-1.421912865	0.077950107
RP11-893F2.14	4.835105617	0.055964085
RP11-89M16.1	3.603224845	0.072693083
RP11-909M7.3	0.785543134	0.075308418
RP11-923I11.7	1.426348193	0.051864153
RP11-927P21.4	1.282846498	0.01006667
RP11-94C24.8	2.162549025	0.012582932
RP11-94H18.1	2.261934071	0.089411764
RP11-958F21.1	1.788692457	0.041003006
RP11-958N24.2	2.712986057	0.056032289
RP11-973F15.2	-3.58260501	0.015710797
RP11-981G7.2	3.235988372	0.005459646
RP11-981G7.6	2.695604465	0.00632315
RP1-1J6.2	2.213136061	0.028123553
RP1-212P9.2	3.182501486	0.088805836
RP13-104F24.3	1.181827427	0.02688869
RP13-46H24.1	1.85553756	0.04380606
RP13-638C3.2	1.805543653	0.087568935
RP1-37C10.3	1.040688087	0.097901479
RP1-56K13.2	1.478141792	0.031200221
RP1-59D14.5	1.942440082	2.31E-08
RP1-74M1.3	1.028090657	0.092073703
RP3-402G11.25	2.059438893	0.001058354
RP3-403L10.3	3.122045497	0.071566212
RP3-416H24.1	-3.113954145	0.086280371
RP3-428L16.2	1.132573	0.017170961
RP3-462E2.3	-1.879695946	0.02041116
RP4-564M11.2	2.497278663	0.059827583
RP4-635E18.7	3.480209323	0.017784809
RP4-657E11.10	0.685968906	0.046282726
RP4-663N10.1	-3.748796133	2.58E-05
RP4-665J23.1	-1.085491447	0.050469049
RP4-668J24.2	1.763546616	0.013060017
RP4-669L17.10	3.291860905	0.06827191

RP4-717I23.3	0.913117595	0.031277519
RP4-792G4.2	4.320720641	0.055199837
RP4-800G7.2	1.311185748	7.62E-05
RP4-813F11.4	-1.062784554	0.033902502
RP5-1112D6.4	1.208857746	0.007337976
RP5-1142A6.2	1.477652321	0.075893256
RP5-1142A6.9	1.233179697	0.001175464
RP5-882C2.2	1.284567431	0.002349121
RP5-890O3.9	0.854686629	0.08632428
RP5-902P8.10	1.714861544	0.000589394
RP5-902P8.12	2.158396965	0.02964573
RP5-940J5.8	0.945881285	0.046815862
RP5-966M1.6	1.369167055	0.044678021
RP6-42F4.1	0.697775482	0.002049759
RP6-99M1.2	0.766162862	0.052091085
RP6-99M1.3	4.132385708	0.009633966
RPL15P3	-0.692544223	0.001520543
RPL22L1	-0.985974739	0.000199299
RPL23AP64	0.972149077	0.061341119
RPL24P4	-1.984763326	0.023628673
RPL26L1	-0.704112899	3.40E-05
RPL26P30	-2.721311867	0.068316944
RPL27	-1.226332516	1.38E-20
RPL27A	-1.098956612	5.80E-25
RPL31	-0.862450983	1.28E-09
RPL34	-0.893739051	1.90E-10
RPL35	-1.218495227	1.07E-25
RPL35A	-0.991976133	8.18E-12
RPL35P2	0.949079835	0.079117475
RPL36	-0.818396039	3.82E-05
RPL36A	0.779304018	0.067568985
RPL39	-1.053086913	5.32E-07
RPL39L	-0.737736959	0.070577278
RPL39P3	-0.802493878	0.015682794
RPL41	-0.640200883	0.012336857
RPL41P1	-0.934640402	5.97E-08
RPL9	-1.175186763	1.67E-09
RPLP0P2	1.945423467	0.007409274
RPS12	-0.663267241	0.000866491
RPS14	-1.053373614	1.63E-19
RPS15A	-1.36846985	3.81E-12

RPS18	-0.988573633	1.84E-11
RPS20P33	1.622184301	0.079183991
RPS21	-1.180250482	3.77E-07
RPS24	-0.820123177	8.55E-12
RPS27	-0.876077471	7.26E-07
RPS3A	-0.731395517	8.17E-11
RPS3AP5	-1.499538498	0.085584942
RPS3AP6	-0.641384591	0.001573786
RPS4Y1	-13.73243466	2.45E-08
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RPS7	-0.944875037	4.63E-16
RPS7P1	-1.504100203	2.54E-05
RPS8	-0.719177997	5.17E-09
RPSAP52	0.917038738	0.028689139
RRAS2	-0.662178859	0.045159681
RRM2P3	3.641995713	0.006453657
RSPH4A	1.489489924	0.035966407
RSPO1	1.870630241	0.010133844
RTEL1	0.95802572	0.007210439
RTEL1-TNFRSF6B	2.13835804	6.74E-11
RTN1	-3.915325	0.000114947
RTN4RL1	-3.797544757	1.44E-08
RTN4RL2	2.817168677	0.004982521
RUNX3	2.732391834	7.12E-08
RXFP1	2.438428466	0.011803417
S100A10	-0.889903563	0.000160627
S100A4	-0.916549681	0.010546285
S100B	6.798087005	0.001202634
SAA1	-3.892528493	0.00708605
SAMD12	-0.753734768	0.071645611
SAMD5	2.93091577	8.05E-06
SAP30	-0.637172301	0.00021012
SAPCD1	4.516934409	0.001315038
SATB2	0.609553058	0.000450663
SCAMP5	-1.171151929	0.095622173
SCARA5	-6.730747778	1.07E-08
SCARNA9	2.224132843	0.057488669
SCG2	2.177931354	0.011980379
SCIN	4.587801356	0.000159406
SCN1A	1.677312379	0.071566212

SCN2A	-1.364677259	0.017990268
SCN4B	-3.401747049	0.095909669
SCN9A	2.321901744	0.002831038
SCNN1D	1.834454783	1.27E-06
SCRG1	-4.710022227	2.04E-09
SCUBE3	-1.55266337	8.18E-05
SDF2L1	0.638153203	0.00372119
SDHDP6	-1.446636047	0.074487571
SEC14L2	1.022666486	0.02887466
SEC31B	1.609852593	1.13E-05
SEMA3C	-0.890199038	0.004745534
SEMA3D	-0.953865736	0.027706731
SEMA3E	-2.912422314	0.001199661
SEMA4F	0.701779926	0.016707502
SEMA5A	0.91205518	0.001313405
SEN3-EIF4A1	2.533069053	0.03489208
SEPT7P2	0.680813637	1.98E-05
SEPTIN3	3.116771918	0.005532836
SEPTIN5	1.070815346	1.15E-08
SERF2	-0.671970748	0.006249873
SERPINI1	-1.172348745	0.01275928
SESN3	-0.84004634	0.001813005
SEZ6	3.136073252	0.013615367
SFI1	0.648528131	2.03E-05
SGIP1	1.638184332	0.002699499
SGK2	1.421212841	0.093049896
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SGK494	1.727731529	0.026505304
SH2D1A	-4.281209024	0.001824889
SH2D4A	-1.198445135	0.008134895
SH2D5	1.280432745	0.026911776
SH3BP2	1.197561557	5.13E-06
SH3BP5-AS1	0.790512774	0.045854168
SH3D21	1.488663798	2.45E-07
SH3GL1P2	1.554222222	0.00324778
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SH3GLB2	0.675940348	9.80E-11
SHANK1	1.023275543	0.000251759
SHC2	1.943522506	0.071062996
SHF	0.69546923	0.084975244
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SHROOM1	1.401682247	9.29E-08
SHROOM2	4.05866826	0.00025063
SIK1	2.147876186	0.004031614
SIK3-IT1	3.590303596	0.08200582
SIPA1L2	1.202190677	0.044573978
SIX1	-1.165355675	0.007745953
SIX2	-4.952816028	7.12E-08
SKIDA1	-0.969663816	0.000537159
SKIL	0.699655826	0.008178566
SKP2	-0.993668927	1.51E-05
SLC12A5	-2.959412095	0.087389896
SLC12A7	0.973387824	0.001191155
SLC14A1	1.269760349	0.054295504
SLC16A2	1.035377115	3.50E-08
SLC16A3	0.912106472	0.01486886
SLC16A5	0.60131651	0.019039844
SLC16A6	5.423342859	1.78E-05
SLC17A7	-2.366928351	0.002023602
SLC17A9	1.863029149	1.41E-05
SLC1A2	1.667316381	0.01443029
SLC20A1	0.965072411	0.004028183
SLC20A2	0.668985883	0.043765724
SLC22A3	2.181274543	0.020356258
SLC23A3	1.380098477	3.28E-05
SLC25A27	0.900978324	0.030303184
SLC25A34	1.181966372	0.017251432
SLC26A1	0.69324072	0.008108665
SLC26A10	2.683302958	8.50E-05
SLC26A6	1.412768514	1.79E-18
SLC27A3	-0.735507189	0.005639208
SLC27A6	3.685844123	0.009389111
SLC2A1	2.012880488	2.15E-11
SLC2A8	0.731167193	0.078813254
SLC34A3	1.312184633	0.006690582
SLC35F1	5.053357783	0.043942423
SLC35F2	-0.891954491	0.007212256
SLC43A3	1.51460763	0.028159309
SLC44A3	0.946321599	0.041091429
SLC4A8	0.741878457	0.076572998
SLC6A6	-1.308178508	0.000214007
SLC6A7	3.462726025	0.011408402

SLC6A9	-0.83871246	0.076546102
SLC7A14	2.326942606	0.010257033
SLC9A3	1.636735895	0.000672082
SLC9A3R2	0.839730886	0.00689558
SLC9A7	0.823567936	0.036145926
SLFNL1	1.458142752	0.058010972
SLIT3	-0.793991824	0.000298888
SLITRK6	4.916701589	0.02162993
SLMO1	0.63839642	0.01403181
SMAD9	-1.268465081	6.37E-05
SMG1P1	1.275366354	0.000262067
SNAI2	-0.803076438	0.003815982
SNCA	4.356007571	9.06E-07
SNED1	-1.039058514	0.000306783
SNHG12	0.623045493	0.000114827
SNHG5	-0.785497135	0.03379117
SNORA55	2.496028746	0.097852178
SNORD63	1.596535153	0.04646158
SNORD83A	2.463906189	0.08843369
snoU13	1.102823142	0.037665039
SNRNP70	0.680388049	5.12E-08
SNRPD2	-0.744663813	3.41E-06
SNRPG	-1.005336049	8.96E-13
SNRPGP15	0.921390649	0.001413603
SNRPGP4	1.993631103	0.076870386
SNURF	1.298858815	0.043355275
SNX10	2.219389368	0.055770574
SOBP	-1.082627583	0.00779519
SOCS1	0.802729112	0.045662421
SOCS3	0.897821645	0.000400381
SOX10	5.40743811	0.000607576
SOX13	-0.627523439	0.021527582
SOX2	5.191663469	0.019143053
SOX8	3.068734244	2.21E-06
SOX9	0.874521916	0.014046067
SPACA6P	0.647450816	0.006931407
SPAG5-AS1	1.330397243	0.022843772
SPECC1	1.094396054	0.010510883
SPESP1	-1.981481259	0.059516403
SPHK1	1.067188621	0.001223669
SPNS1	2.230357241	1.17E-07

SPOCD1	1.779810007	9.32E-07
SPRY2	0.707780903	0.001922356
SPRY4	0.657988621	0.015937483
SPTBN1	-0.744005922	0.000637601
SPTBN4	0.711146166	0.00372486
SPTBN5	1.440850011	0.023359325
SPTLC3	-0.852181713	0.013874136
SQRDL	0.839497355	0.062804585
SRD5A2	3.094171521	0.041313276
SRPX2	0.673786254	0.002731545
SRRM2	0.628568081	0.004126875
SRSF11	0.635067266	0.001114539
SRY	-5.020305454	0.037338888
ST6GALNAC2	1.633633902	0.004213044
ST6GALNAC5	2.273452234	0.00022833
ST8SIA5	2.584633545	0.043802362
STAG3L5P	1.714070029	9.05E-06
STAP2	-0.841122549	0.050714587
STARD13-AS	1.907221302	0.021619143
STARD5	1.024154235	0.003154584
STARD8	1.646160225	0.003188145
STAT4	-2.136583507	2.28E-06
STEAP1	0.906687871	0.001186837
STEAP1B	1.177043682	0.009122501
STEAP2	1.508760683	2.09E-11
STK19P	4.557561929	0.056476625
STMN3	1.358200753	0.002041706
STRA6	2.773120194	0.089217411
STRADA	0.633339635	0.019538284
STRIP2	1.180428997	0.003761408
STX16-NPEPL1	1.48751036	0.029692855
STX1A	0.639120549	0.003995743
STX1B	1.191115103	0.005836437
SUSD4	4.347967223	0.004171973
SVIP	0.633324096	0.067643628
SYDE2	0.697424752	0.001423222
SYN2	-2.255835342	0.04204466
SYN3	1.371862811	0.05164772
SYNGR1	0.780364961	0.01790676
SYPL2	1.039052645	0.095245128
SYT14	1.078283466	0.008449991

SYT2	1.53813404	0.053772243
SYT7	2.182055122	6.93E-09
SYTL2	1.428754495	5.30E-05
SYTL3	-0.688157349	0.018126643
TACSTD2	-2.549466235	0.070914256
TAF1C	1.029724264	2.28E-12
TAS1R3	1.552817534	0.085439353
TBC1D10C	1.055184408	0.018905017
TBC1D3F	1.329784087	0.00084864
TBX15	-0.896880295	2.61E-06
TBX2	0.721142097	0.008345557
TBX3	1.420562278	1.39E-19
TC2N	1.30848339	0.06443715
TCEB1P19	0.825029045	0.087315907
TCEB2	-0.658021004	8.06E-05
TCF7L2	-0.743707995	0.006272655
TCTA	-0.687324113	0.004935098
CTEX1D4	2.002272884	0.000127115
TDRD9	-3.725395686	0.012721003
TDRP	2.567646529	0.001497065
TEC	1.479446604	0.025929923
TEK	-1.866668991	0.086681383
TEKT2	2.998404471	0.086072796
TEKT3	-1.681329244	0.096823248
TENM1	-3.114242394	0.007206227
TEX29	2.2597016	0.001453362
TFAP2A	1.313847508	0.002687787
TFAP2B	4.811099529	7.12E-08
TFAP2C	1.095573407	0.025004049
TGFB3	-1.913716281	6.13E-08
TGFBI	-1.059416867	0.023846151
TGFBR1	0.683778116	8.28E-05
THBS1	0.678023461	0.06443715
THBS4	5.615840136	1.80E-06
THEMIS2	1.250986148	0.000193405
TIAF1	0.666563001	0.043360596
TIMM10	-0.639278402	0.000258573
TIMM8AP1	1.370015324	0.012182019
TIMM8B	-1.355075414	4.15E-11
TINCR	1.748815858	0.037743911
TLE1	-0.612938489	0.031173921

TLE2	-1.361444367	2.02E-05
TLE4	0.989298512	7.13E-06
TLE6	-2.080805318	0.072013964
TLL1	2.744106035	0.087141672
TLN2	-0.607410586	0.005288803
TLR3	-1.228058621	0.000479351
TLX2	-4.962967233	5.26E-07
TMA7	-0.600039038	0.03801014
TMC7	1.394542648	0.004999863
TMCC3	1.891583249	0.043089637
TMEM100	-2.043681052	0.069200729
TMEM132D	4.226031138	0.0382727
TMEM155	-1.616324394	0.0289775
TMEM158	1.785101314	0.000635905
TMEM170B	0.760469518	0.077104465
TMEM171	-0.969040627	0.006187699
TMEM178A	2.117998535	0.004999863
TMEM198	1.290446619	3.57E-09
TMEM198B	0.618795837	0.002904284
TMEM221	1.415840982	0.012222187
TMEM234	0.621823599	2.04E-06
TMEM255A	-4.07165324	0.001824889
TMEM255B	0.961678659	0.074795095
TMEM256	-1.016868251	0.011551521
TMEM256-PLSCR3	1.288576426	0.085352921
TMEM262	1.039016253	0.037548579
TMEM30B	-0.969345096	0.001847098
TMEM37	-2.925622739	3.54E-05
TMEM91	0.735809869	0.001754111
TMEM92	1.477785419	0.022883807
TMLHE-AS1	3.00517405	0.080933815
TMPRSS9	1.334413331	0.024648001
TMSB10	-0.610049724	0.000204883
TNFAIP2	-0.853969855	0.013824577
TNFRSF11B	-1.075742436	0.047383491
TNFRSF14	1.336582614	0.026709562
TNFRSF19	1.654596353	0.000714046
TNFRSF21	1.491584024	3.66E-07
TNFRSF25	1.233687615	0.013255834
TNFSF13	-0.657712498	0.026559046
TNNC2	-1.126586182	0.010948729

TNNT1	-2.95287351	1.07E-06
TNXB	-1.965381076	0.001136209
TOR4A	1.997306095	5.21E-08
TOX2	2.162231649	0.000526563
TP53INP2	-0.798417891	0.002337435
TPCN1	0.683578486	0.001795579
TPD52L1	-1.902376376	0.063392438
TRABD2B	-1.171879964	0.081940953
TRAPPC12-AS1	-1.33644069	0.001414855
TRH	-3.627502932	0.027298524
TRHDE	3.193582212	0.001186837
TRHDE-AS1	2.80208827	0.027921681
TRIB1	1.316784222	0.008178566
TRIM45	0.604907493	0.086054182
TRIM58	4.606012689	0.008768051
TRIM9	2.123628264	9.56E-05
TRMU	0.627684794	3.17E-09
TRO	0.676452176	0.011616997
TRPC3	3.147122868	0.000353701
TRPM3	3.424023645	3.34E-07
TRPM4	0.634205807	0.091475001
TSC22D3	-0.825913906	0.007050454
TSHR	-2.473737306	0.015937483
TSHZ3	0.692021937	0.046852248
TSPAN10	1.269612038	0.037397087
TSPAN12	-1.166601361	0.030091653
TSPAN15	3.535071825	0.011943118
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TSPAN5	0.832773551	3.78E-05
TSPYL2	0.942908848	0.000554156
TTC18	0.669825876	0.094062322
TTC9	-1.658350934	0.071055413
TTLL3	0.957897933	4.90E-05
TTPA	-1.883850067	0.060748825
TTTY14	-7.107537011	0.057372326
TTTY15	-8.730386349	0.024155121
TUBGCP6	0.717503768	1.53E-10
TVP23C	0.750118015	0.072613948
TXLNG	0.625113562	0.046869497
TXLNG2P	-24.66097203	7.96E-14
TXNDC17	-0.748282273	0.000132148

TXNIP	1.210652362	0.001937535
UAP1L1	0.752331201	0.001141895
UBAP1L	0.972058812	0.007593725
UBASH3B	0.862285665	0.002334581
UBE2D3P3	1.508321926	0.087039667
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UBE2QL1	3.065598161	0.000114046
UCN2	2.76616962	0.004564487
UGT8	5.760594933	0.000197448
ULK3	0.638527632	3.25E-05
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UPK1A	-1.949258713	0.034396968
UPP1	0.783839804	0.008139
UQCC2	-0.826114639	0.000373857
UQCRH	-0.65049564	1.86E-05
UQCRQ	-0.904187017	1.07E-05
USH2A	4.707841195	3.49E-11
USMG5	-0.667459529	0.004338281
USP9Y	-24.67978381	7.80E-14
UTY	-9.258259615	0.017930951
UVSSA	0.825555401	6.85E-07
VAC14	0.684390687	0.000501066
VAMP1	0.612157356	0.00953939
VASH1	0.702559847	0.000623995
VEGFA	1.118852948	0.077710958
VPS9D1-AS1	1.273332511	0.007262386
VSTM4	-0.923284446	0.006589299
VWA1	1.632252414	0.000214007
VWA3A	1.583032089	0.082436549
WASH6P	1.4175332	0.016465004
WASH7P	0.717669755	0.00098044
WDR16	-2.133746763	0.030973928
WDR86	1.602833837	0.078198365
WDR90	1.37520124	1.03E-13
WFDC1	1.746258597	0.005107283
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WIF1	3.057034485	0.080311508
WISPI	1.539826844	0.00074889
WNT5A	1.156052606	0.061367322
WSCD1	2.330371849	0.073151703
WTAPP1	2.722011805	0.008274339

XKR4	6.488506179	0.014865497
XPNPEP2	-1.052715366	0.030146464
XXYLT1-AS2	2.193286906	0.023493838
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Z97634.3	1.21719361	0.008987213
ZC2HC1C	0.929178826	0.023327016
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ZDHHC15	-4.08284764	8.58E-09
ZDHHC23	0.645598333	0.099835681
ZFAS1	-0.700569761	0.002943247
ZFPM2	-1.363666462	0.010267976
ZFY	-24.78488547	6.02E-14
ZIC1	-0.678982471	0.007050454
ZMIZ1-AS1	1.207769086	0.016285018
ZNF208	-3.070716082	0.002298279
ZNF215	0.789249009	0.004732723
ZNF276	0.68980613	0.000165626
ZNF33B	-0.732495838	0.046869497
ZNF365	1.551012104	0.024754626
ZNF385B	-3.352088606	0.066232676
ZNF396	-0.859638418	0.076403903
ZNF425	-0.810840487	2.85E-10
ZNF436	-0.759052117	0.022251663
ZNF444P1	-3.046765625	0.038142634
ZNF460	0.833499233	0.045333557
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ZNF467	-4.287648993	0.000492138
ZNF503	-0.770217781	0.015241423
ZNF503-AS2	-0.910511979	0.000176445
ZNF66	-0.871477395	0.096812833
ZNF692	1.253840591	9.25E-16
ZNF783	0.682340554	5.53E-05
ZNRD1	-0.649602437	0.012219837
ZP3	-1.504422343	0.012938132
ZSWIM5	2.61047015	0.004934413