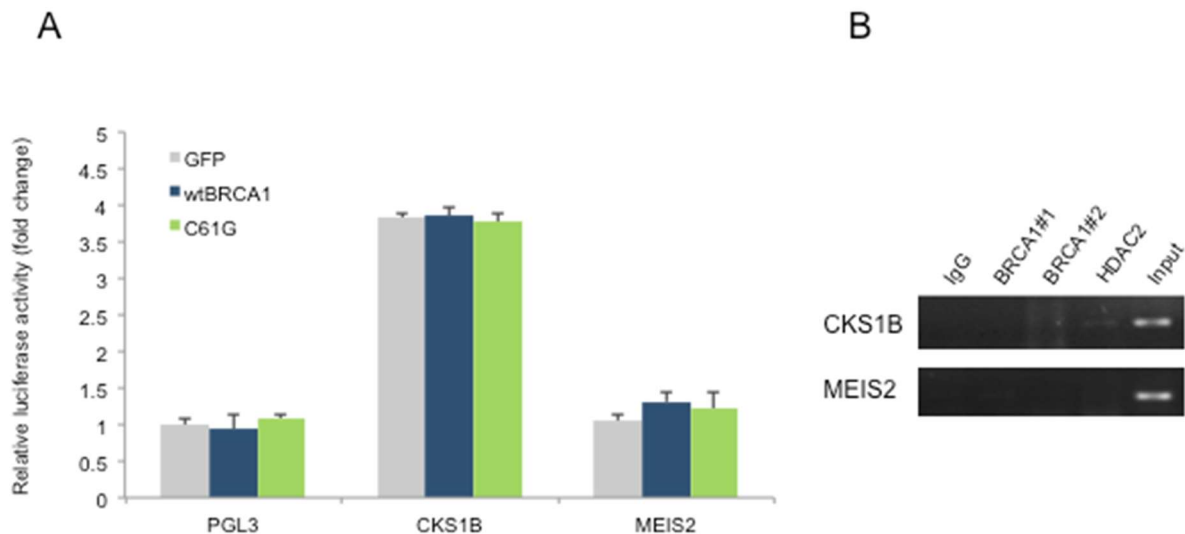


Supplementary Figure 1



Promoter analysis for the putative BRCA1 target genes. (A) A graph for luciferase reporter assay of the CKS1B and MEIS2 promoter plasmids, in combination with wild type BRCA1 (wtBRCA1) or non-functional mutant (C61G). (B) ChIP results for CKS1B and MEIS2 promoter with two different BRCA1 antibodies and HDAC2. IgG and Input was used as a negative or positive control, respectively.

Supplementary Table 1. The BRCA1 ChIP signal from ENCODE database and BRCA1 dependent expression change from two GEO datasets			
Gene Name	ENCODE data (BRCA1 CHIP seq)	GSE22259 Expression data	GSE30822 Expression data
ANPEP	unnamed (-79179)	#N/A	0.140046483
CENPE	unnamed (-76)	0.463340941	0.155474015
ID1	unnamed (-32379), unnamed (+7707)	1.020982905	0.214958903
PNN	unnamed (+161)	0.772059373	0.215856379
SUSD2	unnamed (-24295)	#N/A	0.230809307
LEMD1	unnamed (-63610)	#N/A	0.254516474
DLGAP5	unnamed (-79580)	0.914187251	0.281355563
DARS2	unnamed (-11)	0.9045215	0.289088038
SMC3	unnamed (-361)	1.021103204	0.309860113
TNNI3	unnamed (-3119)	#N/A	0.318065991
FUT8	unnamed (+1870)	0.992421144	0.322867733
MOB1B	unnamed (-154)	#N/A	0.328830217
HMGCS1	unnamed (-283)	1.677479154	0.338263784
CTH	unnamed (-163)	1.30602241	0.341207388
SEPT10	unnamed (+15)	1.04077455	0.345515568
SLC45A3	unnamed (-68696), unnamed (+49304)	#N/A	0.346195509
TAF1B	unnamed (-73)	0.797296768	0.348470135
OXCT1	unnamed (-33516)	0.996978985	0.353844424
KIF15	unnamed (+76)	0.678047851	0.356200772
FBP1	unnamed (-87049)	#N/A	0.36391027
C4orf21	unnamed (-234)	#N/A	0.367754534
HMGB2	unnamed (-1054)	1.137292779	0.368187682
PTGR2	unnamed (+147)	#N/A	0.375853006
ID1	unnamed (-58)	0.760898277	0.376427911
NSRP1	unnamed (-20)	#N/A	0.378117286
FER	unnamed (+1060)	0.8294352	0.37987163
KIF18A	unnamed (-2078)	0.858023151	0.381624982
PHF3	unnamed (-73235)	0.589242724	0.385235959
CORO6	unnamed (-140127)	#N/A	0.394731959
TTC18	unnamed (-3)	#N/A	0.397570018
STAG1	unnamed (-149)	0.820095844	0.400692437
CUL4B	unnamed (+14495)	0.826892	0.401545178
SFR1	unnamed (+109822)	#N/A	0.404459958
CWC27	unnamed (+80)	0.91259454	0.405328964
FYTDD1	unnamed (-8)	0.566419036	0.410533966
FADS1	unnamed (+84)	1.113099392	0.410780339
CELSR3	unnamed (+8998)	#N/A	0.413508261
MRPS18B	unnamed (-1491)	0.859723503	0.415137504
AHSA2	unnamed (-352)	0.326957844	0.418477842
CREBZF	unnamed (-28)	0.793315308	0.421151257
AGBL2	unnamed (-51902)	#N/A	0.423998893
PCM1	unnamed (-54)	0.693233394	0.427891438
IER2	unnamed (+4941)	1.32968529	0.429742875
LGALS3	unnamed (-77469)	1.073609087	0.431220222
GJC1	unnamed (+55821)	0.765822073	0.431282472

PJA2	unnamed (+661092)	1.004277127	0.433109387
SMARCAD1	unnamed (+96)	0.830872651	0.433959047
STX16	unnamed (-124)	0.783611628	0.437318659
EIF5B	unnamed (-959)	0.546961619	0.44208339
SPOCD1	unnamed (+26565)	#N/A	0.44294245
ZBTB25	unnamed (-1052), unnamed (-23)	0.963847438	0.445669273
TMF1	unnamed (+2)	1.403000802	0.449739795
DARS	unnamed (-101)	0.996569457	0.451375361
MYSM1	unnamed (+137)	1.338821339	0.455914991
TUBA1B	unnamed (+1070)	1.035181245	0.456099714
EFHA1	unnamed (+123)	1.014915078	0.457187082
GNE	unnamed (+18507)	1.178785378	0.460751632
MRPS9	unnamed (+295)	0.957214321	0.46081088
YIPF3	unnamed (-39)	0.974015333	0.462831691
CFL2	unnamed (-158742)	1.071882131	0.465198096
TBC1D5	unnamed (-102)	0.63021023	0.465575013
WNT7A	unnamed (+229497)	#N/A	0.467512187
RANBP2	unnamed (-49), unnamed (+67189)	0.985749145	0.468284624
NEMF	unnamed (-10152)	#N/A	0.470033855
SMARCAL1	unnamed (-243)	1.258806314	0.470929141
DNTTIP2	unnamed (-30)	0.950002933	0.474349306
RBBP8	unnamed (+62)	1.258783826	0.474576323
TTC32	unnamed (+153)	0.83599461	0.4756728
MTHFD1	unnamed (-108)	0.992885456	0.478477648
DALRD3	unnamed (-3517), unnamed (-2835)	0.780682291	0.479377527
MYL12A	unnamed (+96)	0.715193136	0.482497558
DDX27	unnamed (+66)	1.066801662	0.482638644
WRN	unnamed (+453)	#N/A	0.482865316
FZD2	unnamed (+132439)	1.463979329	0.483434728
PIBF1	unnamed (-206)	0.837491244	0.483440865
MYL12B	unnamed (-82)	1.158012413	0.485099694
RPL26	unnamed (+199)	0.942067041	0.488757831
C8orf45	unnamed (+54811)	#N/A	0.489973284
ABHD15	unnamed (-1837)	1.35646249	0.490135984
PTCD2	unnamed (-103)	0.784423362	0.491987581
PIK3C2A	unnamed (-38084)	0.866073062	0.492322837
IFT74	unnamed (+22)	0.980687007	0.493561426
ZNF33B	unnamed (-125)	0.504812323	0.493840564
FKBP3	unnamed (+279)	0.928847661	0.494618435
USO1	unnamed (-431)	1.10033935	0.49992946
SREK1	unnamed (+180)	0.814338842	0.499997287
WDR6	unnamed (+136)	1.030953641	0.50139691
DZIP3	unnamed (+252)	#N/A	0.501446168
TRMT61B	unnamed (-17)	1.202193217	0.502075521
SIRT1	unnamed (-35136), unnamed (-182)	1.345268044	0.502874307
NCOR2	unnamed (-199732)	1.452910334	0.502914155
DHX29	unnamed (-336)	0.88383919	0.504268385
XPO1	unnamed (-108)	0.876640976	0.504425492
RPS6	unnamed (-13)	0.836769321	0.506523013
FANCM	unnamed (-1406)	#N/A	0.507235835
SKIV2L2	unnamed (+281)	0.82493928	0.507854399

MATR3	unnamed (-4)	0.648285837	0.50811514
MTIF2	unnamed (+151)	1.088390892	0.508573501
CCP110	unnamed (-1795)	#N/A	0.508672443
FAM174B	unnamed (-153470)	#N/A	0.508703969
FYCO1	unnamed (-89)	#N/A	0.508784893
ARL6IP6	unnamed (-370), unnamed (+611)	0.982441245	0.509097408
KIAA0196	unnamed (+10)	0.862717371	0.509895147
TMEM41B	unnamed (-137)	1.126248035	0.510039241
CCDC99	unnamed (+231)	1.116666597	0.51345111
METTL4	unnamed (+108)	1.099489708	0.513785132
RPGRIP1L	unnamed (-230)	0.829525311	0.516450805
MKRN2	unnamed (-125)	0.800701455	0.516583401
GCC2	unnamed (+17)	1.019550709	0.517152323
RAB42	unnamed (-10554)	1.34291915	0.518066868
CTR9	unnamed (-104)	0.954013154	0.518450282
DDIT4	unnamed (+61)	0.673959548	0.519209825
IPO11	unnamed (-6228)	0.823808048	0.519552137
TLE2	unnamed (-6539)	0.667176356	0.52176234
DBN1	unnamed (+19014)	0.939822984	0.522444304
NUF2	unnamed (-383)	0.772921169	0.523014843
TLCD2	unnamed (-6054)	0.657502608	0.523092656
ZDHHC3	unnamed (-68)	0.809660159	0.523816835
ARHGEF40	unnamed (+22309)	#N/A	0.524061266
CALM2	unnamed (-118)	0.992701546	0.524316755
COPS2	unnamed (-105)	0.593330326	0.524386166
SENP7	unnamed (-236)	#N/A	0.524436259
EIF1B	unnamed (-150)	0.805460345	0.524645688
KNTC1	unnamed (-477)	0.776829935	0.527817073
TAF1D	unnamed (+432)	0.897045176	0.528445346
COASY	unnamed (-12)	0.865192992	0.529293947
CDNF	unnamed (-204)	#N/A	0.529850135
ZZZ3	unnamed (-834), unnamed (+85)	0.852681176	0.530594634
CBR4	unnamed (+302)	0.884638731	0.532001901
RAB5A	unnamed (-287)	0.98126523	0.533440677
LIG4	unnamed (-2933)	0.997700723	0.533897573
DFNB59	unnamed (+194)	#N/A	0.534070662
CETN3	unnamed (+63)	0.977189771	0.534319884
ZBTB11	unnamed (-200)	0.870179964	0.534561207
GIN1	unnamed (+89)	0.711356152	0.534617816
ATG16L2	unnamed (+189)	#N/A	0.534757444
TGDS	unnamed (+151), unnamed (+46416)	1.225683706	0.534941987
MRPS31	unnamed (-47)	1.083926731	0.535181668
PRPF40A	unnamed (-1043), unnamed (-62)	0.957916058	0.537013979
PPIG	unnamed (+40)	0.966641871	0.537016537
RBBP7	unnamed (-960)	1.088827692	0.537933296
USP8	unnamed (-31)	0.419457672	0.539868384
DUSP13	unnamed (-2151)	#N/A	0.54056628
KIF18B	unnamed (-202)	1.259865988	0.541004972
C15orf23	unnamed (+161)	0.777861394	0.542959881
NCAPG	unnamed (+1)	0.787987203	0.543743932
PIM1	unnamed (-445)	1.359836913	0.544021585

THAP9	unnamed (+45)	1.535761887	0.545715611
RPL14	unnamed (-4366), unnamed (-57)	0.617296484	0.546698833
THUMPD3	unnamed (+113), unnamed (+33517)	0.976501203	0.546705312
TMEM55A	unnamed (-29186)	#N/A	0.547022319
SRSF2	unnamed (-145)	0.76059065	0.547461291
EIF3A	unnamed (+708)	0.85585189	0.550391746
APPL1	unnamed (-149)	0.727878269	0.550765559
KBTBD6	unnamed (-144)	1.010497121	0.552237117
CCNH	unnamed (+295)	0.853542732	0.552630847
NKRF	unnamed (-578)	0.861622649	0.552718387
HEXIM1	unnamed (+987)	1.043847281	0.553962082
OXNAD1	unnamed (-218)	1.323607751	0.554477506
ENOPH1	unnamed (-979), unnamed (-97)	0.903774006	0.555059749
HELLS	unnamed (-327)	0.572755837	0.556497987
PLCD3	unnamed (-663)	#N/A	0.55655551
ZMYM1	unnamed (+75)	0.839394238	0.558220882
DDX5	unnamed (-498)	0.976638597	0.559204873
ZNF518A	unnamed (+228)	1.324832806	0.559989713
RRAGA	unnamed (-103)	1.094485198	0.560586474
MRPS25	unnamed (-24)	0.634050069	0.561591513
C1D	unnamed (-1)	0.792077747	0.561828919
TTC7B	unnamed (+57801)	#N/A	0.563396662
ZC3H15	unnamed (-216)	1.03897568	0.563441268
GPBP1	unnamed (-39982)	0.738343719	0.56373824
MAK16	unnamed (-21)	0.903259655	0.565240025
C3orf23	unnamed (+137)	0.828773823	0.566276787
MNS1	unnamed (+99762)	#N/A	0.566494584
FAM110A	unnamed (+61)	#N/A	0.570633266
CCNJ	unnamed (-13)	1.230814738	0.570978648
CNOT7	unnamed (+1)	0.797735205	0.57499947
OAZ1	unnamed (+4281)	1.29717828	0.575054782
DLG1	unnamed (-211723)	0.670474221	0.575687737
RPL23A	unnamed (+124)	0.973659717	0.577102396
NKAP	unnamed (+43)	0.526640578	0.577392153
CCDC88A	unnamed (-43)	0.433928126	0.57853153
COX15	unnamed (+501)	1.448195544	0.57918922
GTPBP2	unnamed (-604)	1.312319649	0.580047729
RPL36AL	unnamed (-95)	0.983460761	0.581601462
DHX36	unnamed (+75)	0.805997171	0.581972825
PNPLA2	unnamed (+783)	#N/A	0.582135848
KDM1A	unnamed (-124)	0.988486644	0.582883237
H2AFX	unnamed (-101)	1.009357569	0.583110866
DNAAF2	unnamed (+789), unnamed (+1617)	#N/A	0.583373584
DNAJC28	unnamed (+11275)	#N/A	0.586136243
CD2AP	unnamed (-56)	0.955885708	0.586969339
NDUFAF3	unnamed (-222), unnamed (+460)	0.582777657	0.587688474
PARP2	unnamed (-34)	0.663952077	0.589039911
FANCD2	unnamed (-24)	0.705909016	0.589303745
SMC1B	unnamed (+40)	#N/A	0.589367358
CCNE1	unnamed (+33391)	0.829094241	0.590069121
BAZ1A	unnamed (+2082)	1.096976654	0.590344082

TSC22D2	unnamed (-909)	0.928908126	0.590864343
SLC4A3	unnamed (+15092)	#N/A	0.591589473
EIF3H	unnamed (-21)	0.920509219	0.591690767
YME1L1	unnamed (-771)	1.048962947	0.592033911
TKT	unnamed (+58970)	0.992639299	0.593178427
ARL8B	unnamed (-141771)	1.353606027	0.593832907
PPIA	unnamed (-314), unnamed (+884)	0.808171593	0.594921656
TMEM121	unnamed (-35745)	#N/A	0.59634397
PTGIS	unnamed (-43067)	#N/A	0.597117532
GDF9	unnamed (-1809)	#N/A	0.598510855
FZD3	unnamed (+128087)	1.042787866	0.598848377
RAB33B	unnamed (-297)	#N/A	0.599013402
DIS3	unnamed (+320)	1.033020824	0.599374346
RMI1	unnamed (-560)	1.344132005	0.601592815
MMGT1	unnamed (+144)	1.338074122	0.602556865
WSB1	unnamed (-52), unnamed (+39003)	1.075771861	0.604415648
SCFD1	unnamed (-131)	0.955379804	0.605214211
CTAGE6P	unnamed (-144337)	#N/A	0.605342128
ACTN1	unnamed (+162579)	1.131950295	0.605758568
CCDC51	unnamed (+4124)	1.678857295	0.606028992
TPR	unnamed (-326)	0.86860338	0.60608555
TPP2	unnamed (-77)	0.800438231	0.606498601
SMC4	unnamed (-265)	0.647499359	0.607947189
MED20	unnamed (-78)	0.99187481	0.60810807
CCT6A	unnamed (-216)	0.910893592	0.609587138
STT3B	unnamed (-1055)	0.815157048	0.609618745
SLTM	unnamed (+151)	1.200439542	0.60998837
MTR	unnamed (-113)	1.205728809	0.611910818
TCERG1	unnamed (-185)	0.515348289	0.612238228
CCT4	unnamed (-36)	0.924957993	0.614193183
ERI2	unnamed (-59)	1.020140738	0.617612119
CPEB3	unnamed (+79)	#N/A	0.619616105
HEXIM2	unnamed (+572)	0.995343322	0.62214994
CEP95	unnamed (-176)	#N/A	0.623114303
SECISBP2	unnamed (+170)	0.665380487	0.623200623
CUTC	unnamed (-36)	0.776496219	0.623917391
ATR	unnamed (+159)	0.775060481	0.625284115
UBP1	unnamed (-516)	0.851397972	0.625395107
ZNF512B	unnamed (-4098), unnamed (-269)	0.947688108	0.625483038
ABLIM1	unnamed (+131329)	0.886282382	0.626226914
TRAPPC2	unnamed (-190)	1.109132538	0.626391044
MAEA	unnamed (-49)	0.900394812	0.626542602
MRPS22	unnamed (-14412), unnamed (+312)	0.713699	0.626792172
TOMM6	unnamed (+828)	#N/A	0.627536885
CKAP2	unnamed (-4598)	0.959141237	0.628322782
C14orf101	unnamed (-171)	1.344593945	0.628737753
BTBD10	unnamed (-59)	1.493152415	0.629039536
NT5DC2	unnamed (-3005)	1.563907164	0.630846433
C15orf38- AP3S2	unnamed (+18971)	#N/A	0.632093122
DEPDC5	unnamed (-554)	#N/A	0.632877383

HMGCR	unnamed (-487)	0.766300437	0.633548335
MAP1B	unnamed (+200910)	#N/A	0.633601212
MELK	unnamed (-84952)	1.151924065	0.633743982
PPT2	unnamed (+597)	0.928034955	0.635585134
ATP13A3	unnamed (-115680)	0.958448333	0.635672863
RRM1	unnamed (+20)	1.162598329	0.636489608
SCRN2	unnamed (-12)	0.628601513	0.637193045
OXSR1	unnamed (-323)	2.326002947	0.63740867
ANKRD12	unnamed (-204), unnamed (+132)	1.038105395	0.63744039
NOC3L	unnamed (-130)	0.993260861	0.638039567
SHISA4	unnamed (+7427)	#N/A	0.638819871
SF3B14	unnamed (+51)	0.747271865	0.640743975
RALGPS2	unnamed (-182641)	0.775956294	0.641297763
HIST1H2BF	unnamed (-2558)	0.578671983	0.642024809
QRICH1	unnamed (-233)	0.845543866	0.642519068
COPS3	unnamed (-45)	0.822803016	0.643497734
DGUOK	unnamed (-120)	1.096228	0.64389799
TSGA10	unnamed (-235), unnamed (+13102)	#N/A	0.644092238
USP9X	unnamed (-747), unnamed (-58)	0.616951944	0.644890305
PDE12	unnamed (-80)	1.156165543	0.645589853
TNFAIP1	unnamed (+37)	1.065355556	0.645859569
LSM3	unnamed (+33)	0.817387834	0.646054973
WEE1	unnamed (-194)	1.114774759	0.646918906
WDR67	unnamed (+84577)	1.158682305	0.647508107
PRC1	unnamed (-341)	1.05124879	0.647535999
SMC5	unnamed (-15)	1.205583331	0.647686517
MOB3B	unnamed (-44153)	#N/A	0.649141145
PIGW	unnamed (-49)	0.523276006	0.649333671
GOLGA5	unnamed (-35)	1.500982224	0.650750643
FAM200B	unnamed (-23)	1.131760424	0.650889247
C10orf137	unnamed (+75)	0.995990441	0.651341065
RG9MTD1	unnamed (+66)	0.94515859	0.651888235
PAIP1	unnamed (+106)	0.794061182	0.652033
HSDL2	unnamed (-274)	0.751610415	0.652345908
USP39	unnamed (+120)	0.989834103	0.652501727
CPSF3	unnamed (-106)	1.083564013	0.653298843
ATAD2B	unnamed (-47)	0.976007865	0.65435685
TFRC	unnamed (-36)	1.12496452	0.655018462
PRPF38B	unnamed (-55)	0.788021718	0.655868399
YTHDF3	unnamed (-318)	0.926549516	0.656877047
RICTOR	unnamed (-195)	1.006324884	0.657486886
AQR	unnamed (-26)	0.900375297	0.65773268
RANBP9	unnamed (-567)	1.071720358	0.658305641
PRKRA	unnamed (-399)	0.818781832	0.658626273
ACADSB	unnamed (-181)	#N/A	0.65953191
DUSP1	unnamed (-1105)	1.162967827	0.659994809
RAD9B	unnamed (+62)	#N/A	0.660608681
SPG11	unnamed (-75)	1.585953351	0.661074211
DPP8	unnamed (+105)	0.66531666	0.662153577
HOMER1	unnamed (-627)	0.473162244	0.66291685
MTHFD2	unnamed (+24), unnamed (+710)	0.890156971	0.663807096

FOS	unnamed (-61)	1.125695958	0.664306331
SRSF5	unnamed (+339)	0.88460361	0.664418748
METTL15	unnamed (+2026)	#N/A	0.667563048
PCCA	unnamed (-41)	0.810081251	0.667578114
CUL4A	unnamed (-882)	1.004550659	0.668668571
H1FO	unnamed (-2724)	1.011708368	0.669233125
UTP18	unnamed (-368)	0.834016379	0.669452816
ZCWPW1	unnamed (-466)	#N/A	0.66962313
C16orf62	unnamed (+76)	#N/A	0.670638587
TSPYL4	unnamed (-279)	0.944539474	0.6707741
WDHD1	unnamed (-121)	0.943464551	0.67145587
TNFAIP8	unnamed (-367561), unnamed (-285000), unnamed (-87067)	0.715038231	0.672312154
PIP5K1B	unnamed (+74275)	1.070819593	0.672467676
TUBGCP5	unnamed (+179)	0.826154309	0.672533202
PPP2R3C	unnamed (+76095)	0.896417776	0.67312916
KIAA0020	unnamed (-143)	0.884422537	0.673920427
DCP1A	unnamed (-13)	1.144582323	0.673996204
DYNC1H1	unnamed (-16287)	0.973799161	0.67537544
SREBF1	unnamed (+599)	0.973143422	0.675548143
AKAP11	unnamed (-321)	1.084363358	0.676380637
BRX1	unnamed (-108)	0.831950366	0.676443584
RNF141	unnamed (-67)	0.916754596	0.67672258
HERC1	unnamed (-123)	1.085043102	0.676816898
PRMT3	unnamed (-153)	0.809040239	0.677141901
DPH3	unnamed (+47)	0.860582583	0.677248679
ATAD2	unnamed (-76)	0.748256921	0.677252587
CYP2W1	unnamed (+10109), unnamed (+61060)	#N/A	0.677254935
HELQ	unnamed (-174)	0.641882316	0.677691218
ITGA2	unnamed (-188986)	1.065152207	0.678613083
ASTE1	unnamed (+154)	#N/A	0.680808997
CDKN2AIP	unnamed (-607), unnamed (-66)	1.071199285	0.680853944
ICT1	unnamed (+169), unnamed (+21419)	1.021770179	0.68136022
PLA2G12A	unnamed (+127)	0.612778341	0.68229331
SPC25	unnamed (-56)	0.981208542	0.682520188
KIAA0753	unnamed (+82)	#N/A	0.682621956
ZMYM5	unnamed (+16)	#N/A	0.682727145
PTPN4	unnamed (+59)	1.010328527	0.682786119
MGEA5	unnamed (-241)	0.786560431	0.684261753
ZNF23	unnamed (+21)	1.322691648	0.684432449
TK2	unnamed (-2259)	1.542362282	0.684584658
RPL27A	unnamed (+513)	1.006777096	0.684865893
PPIAL4A	unnamed (-568346)	#N/A	0.685063312
RPL37	unnamed (+181)	0.962108209	0.68665036
EIF1	unnamed (-227), unnamed (+692)	0.996583449	0.688106807
SLC4A1AP	unnamed (+362)	0.842669982	0.688472913
ZCCHC11	unnamed (-346)	0.939225483	0.688998969
FAM156A	unnamed (+60626), unnamed (+74318)	#N/A	0.68955012
BBS1	unnamed (-29)	0.648261067	0.690207484
MBD4	unnamed (-158)	1.077709662	0.690374697
ZNF133	unnamed (-94)	0.926834804	0.690872183

WDR36	unnamed (+94)	0.870261017	0.691114996
TROAP	unnamed (-100)	0.659847693	0.695567156
HNRNPH3	unnamed (+467)	0.998370421	0.696605365
TRAPPC10	unnamed (-73092)	0.69193472	0.697171421
DENR	unnamed (+11)	0.968193233	0.697290447
HAUS5	unnamed (-17)	0.884621392	0.697422094
RPLP2	unnamed (-98)	1.036210176	0.697527185
ZNF323	unnamed (+48)	0.903857365	0.697672633
PSAT1	unnamed (-94)	0.826933945	0.697910026
CRNKL1	unnamed (+3487)	1.061453972	0.698259478
CCBL2	unnamed (+301)	0.872062182	0.698679332
CDCA5	unnamed (-14)	1.390607443	0.699854173
TTC14	unnamed (-51)	0.790163814	0.700139248
TADA3	unnamed (+53)	0.505640214	0.700774039
GORASP2	unnamed (+445), unnamed (+232353), unnamed (+232918)	1.037286407	0.700939313
RAB6A	unnamed (-18440), unnamed (-271)	1.409060393	0.701582863
MRPL16	unnamed (+189)	0.766159174	0.702210055
DNAJB14	unnamed (-3707)	0.994678281	0.70237078
PRKRIR	unnamed (+61881)	1.007234544	0.702581044
COQ2	unnamed (+181)	0.787695839	0.703970364
ZNF444	unnamed (-147)	1.273113855	0.704133955
EIF4EBP1	unnamed (+453)	0.661263015	0.704703097
HCFC1R1	unnamed (+76)	0.936786116	0.705069437
FAM69B	unnamed (+15655)	#N/A	0.705455158
CANX	unnamed (-562)	1.263417225	0.70605614
MIPEP	unnamed (-49)	0.887791671	0.706629338
CUL3	unnamed (-154)	0.838752425	0.706936407
CEP76	unnamed (-351)	0.999761604	0.707142352
GLOD4	unnamed (-20)	0.914093964	0.707426111
GORASP1	unnamed (+8)	1.409488868	0.707641049
TLK1	unnamed (+69958), unnamed (+70523)	0.830690632	0.70779084
SMCR7	unnamed (-328)	#N/A	0.707978019
APBB2	unnamed (-2169)	0.802205114	0.708738856
DTNBP1	unnamed (+414203)	1.057845462	0.7087888
FANCC	unnamed (+313)	0.809432864	0.709387456
RPL4	unnamed (-248)	0.893478417	0.710377673
ZNF143	unnamed (-338)	0.979905036	0.710792572
INTS9	unnamed (-304)	1.114242708	0.711078735
MED4	unnamed (-79)	0.943732224	0.711275247
SMEK2	unnamed (+184)	0.431097971	0.71162745
VPRBP	unnamed (+43)	0.876278085	0.711955023
NLGN2	unnamed (-3536)	0.758746358	0.712118578
LOC81691	unnamed (+87)	#N/A	0.713772094
RPS29	unnamed (-140)	0.910742051	0.714123069
C20orf30	unnamed (-227)	1.559531692	0.714346765
CCNG1	unnamed (+351)	1.400324259	0.714523072
HACL1	unnamed (-326)	0.991150674	0.714681506
MRPL44	unnamed (-119)	0.714985654	0.715282037
MTMR6	unnamed (-135)	0.80076399	0.715500114
SPTY2D1	unnamed (+74)	0.52544815	0.715800426

MTMR4	unnamed (-627)	1.212202678	0.715848754
HNRNPD	unnamed (-498)	0.824295345	0.715882474
ARHGEF7	unnamed (+38290)	1.321688052	0.71622481
ABCE1	unnamed (+151)	0.773995771	0.716264835
LRR1	unnamed (+515)	#N/A	0.716768589
HAT1	unnamed (+4)	0.908108976	0.716860716
HAUS2	unnamed (+94)	0.746357467	0.717315952
FRMD6	unnamed (-314)	1.542497761	0.718164721
CDCA2	unnamed (+51)	0.774337984	0.718208836
PSMD10	unnamed (+196)	0.939936925	0.718353626
LIAS	unnamed (+4)	1.293453666	0.718865341
SNX5	unnamed (-420)	0.549081367	0.719680191
LBR	unnamed (-47024)	0.879310497	0.720411553
ARL6IP1	unnamed (-195)	1.079195648	0.720800617
B9D1	unnamed (-154)	0.627791004	0.721554856
B9D1	unnamed (-154)	0.627791004	0.721554856
DHX35	unnamed (+87912)	1.10280272	0.722278902
UBE2D3	unnamed (-351)	0.914077898	0.723466439
SOCS4	unnamed (+96), unnamed (+24622)	0.899222824	0.723571211
METTL8	unnamed (+44)	0.792996741	0.724334752
MUT	unnamed (-50)	1.011241805	0.724369543
GUF1	unnamed (-21)	0.765373382	0.724395116
MARCH7	unnamed (-106)	1.022073382	0.724450987
RNMT	unnamed (-56)	0.705129454	0.724974756
GPATCH8	unnamed (-61)	1.365143668	0.725019421
BDH1	unnamed (+45688)	#N/A	0.725092711
MED9	unnamed (-3)	0.856950572	0.725215438
PCNX	unnamed (+412821)	0.989476521	0.7260609
THBS1	unnamed (+201861)	1.617279264	0.726174589
ZDHHC4	unnamed (+20)	0.790844427	0.726761207
CRELD1	unnamed (-26)	#N/A	0.72718385
NUSAP1	unnamed (-345)	0.798975192	0.727273443
INSIG2	unnamed (-74132)	1.217498384	0.727675907
CDK12	unnamed (+14)	0.84156348	0.727896227
DCTN4	unnamed (+2)	0.858653012	0.728032624
SLC25A16	unnamed (-41)	0.690543074	0.728369597
TIPIN	unnamed (+75)	0.945324367	0.728505737
SRSF11	unnamed (+102)	0.758656963	0.729666252
BZW1	unnamed (-687)	1.429712162	0.730591939
TTLL5	unnamed (-65)	1.14874749	0.730931283
CCNB1	unnamed (+262)	0.979156753	0.731138728
MYH10	unnamed (-293)	0.694925651	0.73148526
ATG7	unnamed (+154)	0.802489099	0.731674515
XPC	unnamed (-89)	1.442735824	0.731909348
NOLC1	unnamed (+43)	0.57020477	0.732122888
NOD1	unnamed (+111)	#N/A	0.732396201
LOXL3	unnamed (-515)	#N/A	0.732683414
WBP4	unnamed (-101)	0.810310535	0.733387106
RAB28	unnamed (-228)	1.10507094	0.735420476
H3F3C	unnamed (+63116)	#N/A	0.73586205
COX11	unnamed (+148)	0.647184745	0.73626298

UTRN	unnamed (-75398)	0.605569626	0.736523444
TMEM107	unnamed (-21)	0.557681365	0.738846207
ZZEF1	unnamed (-706)	1.342918799	0.740534783
FAM173B	unnamed (-35)	0.726941229	0.740954488
STXBP4	unnamed (-210)	#N/A	0.741150116
ZRANB3	unnamed (+359)	#N/A	0.741556417
PXN	unnamed (-26099), unnamed (+36969)	1.536810816	0.741822397
AURKA	unnamed (-236)	0.815698387	0.742050734
SRP54	unnamed (+63320)	1.205938995	0.742618148
ATG14	unnamed (+140600)	1.081684579	0.742934579
CPSF2	unnamed (-152)	0.821757561	0.74336067
HIBADH	unnamed (-9)	0.986623131	0.743579705
CLTC	unnamed (-68)	1.067033329	0.744577421
TUFM	unnamed (-92)	0.987113292	0.744792965
KPNB1	unnamed (-106)	0.879461119	0.745379129
ANAPC4	unnamed (+25)	1.16469554	0.745403208
C20orf94	unnamed (-403)	#N/A	0.74551679
NOL11	unnamed (+75)	0.858623718	0.745780494
ST3GAL2	unnamed (+92267)	0.823414081	0.745831798
CAMK2B	unnamed (-165493)	#N/A	0.746044446
PSMG2	unnamed (+67)	1.009450581	0.74677701
TRAM1	unnamed (+20)	1.111627814	0.747176851
BRE	unnamed (+536)	1.148843706	0.747300577
TMSB10	unnamed (+9), unnamed (+20361)	0.994305583	0.747838693
SKA3	unnamed (+35)	0.904136208	0.748627508
PPM1B	unnamed (-645)	0.785777059	0.749263316
FAM114A2	unnamed (+181)	0.654749609	0.749691123
LIN54	unnamed (-2461)	#N/A	0.750965559
PRRT1	unnamed (-2106)	#N/A	0.751583313
ANKRD13C	unnamed (-79)	0.785319131	0.751792749
C5orf28	unnamed (-296)	0.960322652	0.751921337
NCAPG2	unnamed (-7)	0.501388226	0.75252153
GTF2H1	unnamed (-21)	0.84553698	0.752669202
CHUK	unnamed (-45)	1.17381483	0.7528108
DIP2C	unnamed (+178480)	#N/A	0.75303349
RFC5	unnamed (-43)	0.690231376	0.7533329
HSPA12B	unnamed (+35656)	#N/A	0.753375996
TMEM161B	unnamed (+33)	1.041462524	0.753665514
SIK2	unnamed (-263)	0.783522915	0.754126524
NMD3	unnamed (+62)	0.864871917	0.754363744
SEC62	unnamed (-126)	1.026519604	0.755264502
C9orf95	unnamed (+59618)	0.846169109	0.755440402
MAML2	unnamed (+99737)	#N/A	0.75606163
EIF5	unnamed (-178)	0.704567	0.756354962
C11orf58	unnamed (-247)	0.950711536	0.756373861
FBXW11	unnamed (-433)	0.971147089	0.756425788
SLC25A1	unnamed (+7172)	0.906071584	0.756613943
GGPS1	unnamed (+207)	0.836076184	0.757179069
LUC7L3	unnamed (+89)	0.77447924	0.75735017
KPNA2	unnamed (+42)	0.930319757	0.757417768
MTHFD2L	unnamed (-298)	0.526224393	0.757539691

FLII	unnamed (-2041)	0.76766339	0.757868489
ADAM11	unnamed (+15790)	#N/A	0.758551143
PLK4	unnamed (+426)	0.658920625	0.758648162
SLC39A13	unnamed (-64)	0.877163366	0.759269869
UPF3B	unnamed (-3)	1.146574505	0.759281673
ASPH	unnamed (-320)	0.589036449	0.759307961
PHF7	unnamed (-477)	#N/A	0.759362981
ECD	unnamed (+24)	1.07188261	0.759685201
TTC27	unnamed (-32)	0.978439359	0.759787934
RPP14	unnamed (+116)	1.157217633	0.760293627
RPP14	unnamed (+114)	1.157217633	0.760293627
SVIP	unnamed (-149)	0.550453612	0.761163448
RANBP1	unnamed (-268)	0.887198027	0.762814613
CGRF1	unnamed (-74)	0.936473743	0.762899543
SNAPC3	unnamed (-75)	0.672063606	0.762910771
C9orf102	unnamed (+61)	#N/A	0.762919549
SCAMP5	unnamed (-73)	#N/A	0.762985774
PPA2	unnamed (+126)	0.986302788	0.763006445
MGAT2	unnamed (-45), unnamed (+12842)	1.308859633	0.76441095
KLF14	unnamed (-373421)	#N/A	0.765528705
MCM4	unnamed (+669)	1.024882289	0.765678528
ZCCHC9	unnamed (-84)	1.501232932	0.765788075
GABPA	unnamed (+170), unnamed (+978)	0.604322743	0.766336729
ARFIP2	unnamed (-9)	0.878648982	0.766731368
ANKFY1	unnamed (+42)	1.257752869	0.76705008
PRKCD	unnamed (+35937)	#N/A	0.76729994
SLC15A4	unnamed (-35)	1.206478627	0.767447209
PIM3	unnamed (+114702)	0.999521911	0.767841338
C1orf9	unnamed (-347)	1.247231553	0.768102479
CLK1	unnamed (+40)	#N/A	0.768464604
C10orf76	unnamed (-140)	0.838386974	0.768975267
SFXN2	unnamed (-683)	#N/A	0.769228864
HIRIP3	unnamed (-2)	#N/A	0.769310258
TRAPPC1	unnamed (-222)	1.021176878	0.769665422
DMTF1	unnamed (-137)	0.875571419	0.770347234
PLEKHH3	unnamed (-1537), unnamed (-187)	#N/A	0.771703297
FAM54B	unnamed (+269)	#N/A	0.771848563
SPATA7	unnamed (+236)	#N/A	0.772675271
HSPH1	unnamed (-449)	1.333074624	0.772688823
VPS36	unnamed (-134)	0.96245732	0.772866353
ZNF217	unnamed (-475900)	1.036030028	0.773009063
RAD52	unnamed (-318)	0.876017212	0.773609864
PPIL4	unnamed (-68)	0.900269541	0.773650645
EIF3L	unnamed (-4807), unnamed (-540)	0.842362533	0.773944124
DDX18	unnamed (+199663)	0.666775114	0.774303613
NKIRAS1	unnamed (-1)	1.078351429	0.774329596
TPT1	unnamed (-73)	0.975708885	0.774896954
ATP5E	unnamed (-271)	0.878283097	0.775980749
FCHSD2	unnamed (-386)	#N/A	0.776726525
HPS4	unnamed (-4423)	1.041416374	0.776813414
DDX50	unnamed (-465)	1.185213635	0.777356228

METTL14	unnamed (-93728)	0.993037541	0.777911134
UIMC1	unnamed (-62)	1.132316708	0.777918348
IARS	unnamed (-24)	0.995633088	0.777927294
WDR44	unnamed (-12)	1.444637379	0.778264392
GLI4	unnamed (+11466)	#N/A	0.778515555
AZI2	unnamed (+255)	0.499344839	0.778571057
RPL26L1	unnamed (-21)	0.789650312	0.778797698
MCCC2	unnamed (-149)	0.862461666	0.78041348
ZMYND11	unnamed (+331194)	0.406736863	0.78045211
FASN	unnamed (-114659)	0.702532467	0.780924338
STXBP3	unnamed (+10)	1.751816416	0.781257772
MKKS	unnamed (-682)	0.744636939	0.781495526
HIST2H2BE	unnamed (+1120)	1.658631727	0.782656796
USP47	unnamed (+476)	1.399529407	0.782931538
NKTR	unnamed (-188)	0.729318009	0.783146418
SLU7	unnamed (-129)	0.977384485	0.783213472
MRP63	unnamed (+334)	0.687952262	0.783605325
CYP51A1	unnamed (-354)	0.818688318	0.784173142
BCLAF1	unnamed (+217)	0.783739577	0.784330144
GSTO1	unnamed (-22717)	1.156517775	0.784439501
ADNP	unnamed (-723)	0.881751889	0.784667795
WAPAL	unnamed (+144375)	0.669776599	0.785875511
SNRPB	unnamed (-49)	1.080068614	0.785959455
ABCA7	unnamed (-20)	0.758955556	0.7863919
SEC13	unnamed (-3)	1.576229158	0.78651349
RPL23AP32	unnamed (+29189)	0.790316228	0.786899167
TOPORS	unnamed (+1646)	1.022618686	0.786999467
REV3L	unnamed (-606)	0.660124851	0.787017572
RPS15	unnamed (+29)	1.103779564	0.788530772
SMU1	unnamed (+38)	0.918036672	0.788565376
CENPO	unnamed (-332)	0.59827481	0.788687002
LIPT1	unnamed (+4)	0.890430288	0.789511113
ATP9B	unnamed (-169)	1.305226497	0.790389737
ZNF184	unnamed (+193)	#N/A	0.790730983
MRPS18C	unnamed (+81)	1.033334292	0.791525799
DNAJB11	unnamed (-2716), unnamed (+400)	1.038286695	0.791535147
GBAS	unnamed (+69672)	0.450347693	0.791773416
LPXN	unnamed (-2432)	0.516015225	0.791970106
SGSM2	unnamed (-940), unnamed (+62306)	0.735359684	0.792524792
SUPT7L	unnamed (-251)	1.082126949	0.792837955
ABHD13	unnamed (+52)	0.675672032	0.792913685
FBXO4	unnamed (-21049)	0.801011023	0.792994067
SREBF2	unnamed (-320)	0.996856742	0.793120821
DHODH	unnamed (+138)	0.799888742	0.793143522
TMEM111	unnamed (-15)	1.059396546	0.793257155
LOC100506012	unnamed (+350)	#N/A	0.793531498
POLR1B	unnamed (+419)	0.76083426	0.793795759
QKI	unnamed (+1629)	1.085574269	0.794376764
HDAC2	unnamed (-111), unnamed (+112044)	1.16961926	0.794596538
RNF103	unnamed (+60821)	1.314039779	0.794757865

C20orf29	unnamed (-24)	0.850212142	0.795816436
RALGAPB	unnamed (-37463)	0.809141881	0.795960896
AP4E1	unnamed (-77)	1.068734015	0.796824914
NUFIP1	unnamed (-88), unnamed (+71099)	0.820487468	0.796882789
RALA	unnamed (+109811)	1.524062506	0.797007246
RBM26	unnamed (-541)	0.778762603	0.797547952
ING1	unnamed (-1605)	1.091849361	0.798012443
RAD51B	unnamed (+973787)	#N/A	0.798986751
SIRT4	unnamed (-10451)	#N/A	0.801310611
EIF4A3	unnamed (-145)	1.620702783	0.801574168
SERP2	unnamed (-494278), unnamed (+61696)	#N/A	0.802810371
AP3B1	unnamed (-204)	0.822700336	0.802817707
CLK3	unnamed (-50)	1.090518179	0.803045925
TUBGCP6	unnamed (+21)	#N/A	0.803239629
ASH2L	unnamed (+51)	0.991968456	0.803538336
PSD2	unnamed (+173118)	#N/A	0.803861775
DPEP2	unnamed (+6009)	#N/A	0.803884178
CHMP1B	unnamed (-250)	0.817975385	0.803886249
HPDL	unnamed (-22839)	1.309290894	0.804139418
PAICS	unnamed (-307)	0.643779984	0.80469208
MAPK6	unnamed (-3)	0.685325375	0.80530789
DDX46	unnamed (+87032)	0.957473183	0.805702439
GMPPA	unnamed (+150)	1.453203398	0.806489579
KIAA0284	unnamed (-49189)	#N/A	0.807255821
RNFT2	unnamed (-42), unnamed (+81255)	#N/A	0.807354229
RPL10A	unnamed (+51)	0.755738985	0.807419837
SRRT	unnamed (-54), unnamed (+558)	0.894273245	0.807803463
UCHL3	unnamed (-261)	0.991832261	0.807858976
SCAF8	unnamed (-150)	#N/A	0.808362055
MGAT4A	unnamed (-410496)	#N/A	0.808460776
RANBP6	unnamed (-49)	0.769639349	0.809440105
TRAPPC6B	unnamed (-4914)	0.987129025	0.809837464
TBX6	unnamed (-48)	#N/A	0.810038992
SBK2	unnamed (+33063)	#N/A	0.810718894
IMPDH2	unnamed (+87)	0.802793187	0.810887822
HTRA2	unnamed (+424)	0.760044294	0.811369455
UBR3	unnamed (-2537), unnamed (-80)	0.924846441	0.811790587
HSPA9	unnamed (-116)	1.099248913	0.811921644
FTO	unnamed (+126)	0.629206784	0.812251453
RAB11FIP5	unnamed (-64464)	1.294943538	0.812776221
IKBKAP	unnamed (+223)	0.9129211	0.813544646
KIAA1033	unnamed (-107)	1.442516702	0.814113182
OSBPL11	unnamed (+121)	1.46061204	0.814140287
TMEM66	unnamed (+122)	0.933963	0.814305639
SKP2	unnamed (+296)	0.869667648	0.81461694
SMNDC1	unnamed (-57), unnamed (+93716)	0.984532855	0.815338331
CSTF1	unnamed (+160)	0.800661087	0.815494867
TRIM37	unnamed (-114)	1.41710845	0.815509723
TTC23	unnamed (-1610)	1.094566067	0.815544922
CYB5B	unnamed (-47)	0.993038894	0.815548391
DUSP10	unnamed (-723480)	1.918064863	0.815557541

MKL2	unnamed (-78)	0.701696582	0.815675134
KCTD9	unnamed (-580)	0.707047415	0.815921757
MAPK7	unnamed (-671)	#N/A	0.816477028
UHRF2	unnamed (-50)	1.447092267	0.818198746
RBM39	unnamed (+131)	0.687465385	0.818430815
GLRX3	unnamed (-25565)	0.756868154	0.818479568
ZNF623	unnamed (-13865)	#N/A	0.818655801
CEP57	unnamed (-264)	0.620283604	0.818672077
GGA3	unnamed (-50)	#N/A	0.819353319
TXNDC5	unnamed (-216)	#N/A	0.819379862
SC5DL	unnamed (-167)	0.541361978	0.819661114
EBF3	unnamed (-146983)	#N/A	0.819992178
UBE2A	unnamed (-9062)	0.940783488	0.820057734
NDUFV2	unnamed (+62)	1.23758697	0.820205257
PARD6B	unnamed (+686)	0.963500511	0.820248805
MEF2A	unnamed (-59)	0.654473727	0.821993332
YTHDF2	unnamed (-305)	1.054985111	0.822673392
XPO7	unnamed (+90639)	1.023346242	0.823161709
KRIT1	unnamed (+161)	0.928568416	0.823465885
PARN	unnamed (-2422)	1.617651508	0.824207905
BAZ1B	unnamed (-157), unnamed (+495)	1.004679669	0.824271599
RPL22L1	unnamed (+332)	0.365631039	0.824303963
NEIL3	unnamed (+107)	0.968159883	0.826070589
LARP7	unnamed (-227)	0.941979979	0.82607527
C17orf61	unnamed (-516)	0.741312325	0.826143495
BOD1L	unnamed (-178)	1.122694352	0.826210861
C14orf133	unnamed (-195)	#N/A	0.82645034
TRNT1	unnamed (-47)	0.923216818	0.826469456
RPA3	unnamed (+77836)	0.879300097	0.826522341
PER1	unnamed (-1896), unnamed (+13300)	0.718623252	0.827206708
KCNAB3	unnamed (-2736)	#N/A	0.827309298
HPS5	unnamed (-74)	1.204908436	0.82781341
PIDD	unnamed (-4588)	#N/A	0.828488908
ACTB	unnamed (-323), unnamed (+526), unnamed (+4467)	1.161459779	0.828678428
PPAT	unnamed (-160)	0.895385882	0.829513814
ATP11A	unnamed (-83800)	0.883199049	0.829868056
IFT80	unnamed (+155)	0.800270754	0.83008283
C11orf51	unnamed (-31)	0.729741	0.830455668
NUDT18	unnamed (+360)	#N/A	0.830974855
TRIO	unnamed (+1111), unnamed (+520535)	0.994853519	0.831907488
MBNL1	unnamed (-30189)	0.813370006	0.831913483
CDC26	unnamed (+45)	1.051349968	0.832100835
PCID2	unnamed (-20)	0.906974247	0.832770564
POLR2B	unnamed (-1214)	1.067610158	0.833202286
EML6	unnamed (-166601)	0.795015666	0.833249791
DUT	unnamed (+641)	0.668240752	0.833268229
TIA1	unnamed (+50), unnamed (+105964)	0.829398251	0.833420471
DSE	unnamed (-155)	#N/A	0.833763129
NUP54	unnamed (+4)	0.89575	0.833850658
MIER3	unnamed (-221965)	1.094902939	0.833946614

TMEM89	unnamed (-41794)	#N/A	0.834297964
AGBL5	unnamed (-597)	0.758549572	0.834871872
VRK1	unnamed (-44)	1.098289205	0.834938058
GALNT9	unnamed (+267297)	#N/A	0.834956505
AP1G1	unnamed (+9)	0.883013627	0.835074288
C12orf73	unnamed (-104)	0.379867182	0.835147926
RGMA	unnamed (+169708)	#N/A	0.835185657
CHMP7	unnamed (+2954)	0.656235589	0.835232687
TMPRSS4	unnamed (+68442)	#N/A	0.835451615
PRKDC	unnamed (-689)	0.847463669	0.835866662
NHEJ1	unnamed (+565)	1.012328946	0.836762974
ELL2	unnamed (-211)	1.060748844	0.83700977
AGL	unnamed (-1)	0.927256252	0.837915972
HIGD2A	unnamed (-79)	0.964499077	0.837922448
FDXACB1	unnamed (+304)	#N/A	0.838108304
RAPGEF6	unnamed (-53)	0.956256021	0.83825787
TSEN34	unnamed (-871)	1.041708091	0.838365612
SETD3	unnamed (-558)	0.901695641	0.838825569
CD5	unnamed (+27530)	#N/A	0.83899354
NUDT15	unnamed (+455)	1.025906942	0.839083107
NDC80	unnamed (-129)	1.009715112	0.839169432
CLCN2	unnamed (-1854)	#N/A	0.83949065
RCOR1	unnamed (-467)	0.881179415	0.840208998
SOX12	unnamed (-340)	#N/A	0.840411084
LMBRD1	unnamed (+175)	1.079037736	0.84070906
TAF13	unnamed (-107)	#N/A	0.840988337
COMMD6	unnamed (-278)	1.323545305	0.841028703
NUP153	unnamed (-319)	1.063693782	0.84140076
ATP5J	unnamed (-342), unnamed (+466)	0.905934341	0.841934503
RAB34	unnamed (-1838)	0.855407662	0.841973171
NRBF2	unnamed (-153)	1.085659512	0.841982348
SHPRH	unnamed (-187)	1.081841721	0.842354128
CIAO1	unnamed (-106)	0.944377808	0.842404723
TSC1	unnamed (-83)	1.196538443	0.842764899
ZNF286A	unnamed (-8)	#N/A	0.842842757
CSTF3	unnamed (-13)	0.538659618	0.844914939
LRPPRC	unnamed (-79)	0.91622557	0.845042365
KBTBD7	unnamed (+3)	0.771425227	0.845163516
UQCRC2	unnamed (-129)	0.73452194	0.845491105
RNF167	unnamed (-28)	0.875651248	0.845673657
NCOA4	unnamed (+30)	1.179030993	0.845727015
UBB	unnamed (-32), unnamed (+495)	0.963277571	0.846037414
SFI1	unnamed (+177)	2.317379627	0.846048497
MARCH5	unnamed (-124)	1.117197451	0.846587309
QTRTD1	unnamed (-10)	1.113213643	0.846907083
CETP	unnamed (+2786)	#N/A	0.846920664
BIRC2	unnamed (-176)	1.590082161	0.847332128
KIF24	unnamed (-9)	#N/A	0.847517888
C12orf49	unnamed (-211)	0.517450437	0.848188346
C15orf24	unnamed (-148)	1.001594349	0.848447314
RPIA	unnamed (-93)	1.095040485	0.848511449

ENDOV	unnamed (+39490)	#N/A	0.848615516
PDCD10	unnamed (-999)	0.755498682	0.849009231
MST1P9	unnamed (-140404), unnamed (+120013)	#N/A	0.849398078
NUCB2	unnamed (-68849)	0.844711767	0.849402775
TFB2M	unnamed (+13)	0.806469898	0.84945477
FRS3	unnamed (-159)	#N/A	0.850464231
C6orf57	unnamed (-153887)	#N/A	0.851050883
NUP98	unnamed (-82)	0.624761594	0.851107372
CAMK2G	unnamed (+94)	0.626843276	0.851214752
C11orf54	unnamed (-522)	1.388044293	0.851309826
HLA3	unnamed (+3)	1.00880746	0.851422998
NRAS	unnamed (+115)	0.594167771	0.851988145
TMEM101	unnamed (-71)	1.003616735	0.852462319
ING3	unnamed (+264)	0.462712083	0.852732186
MBTD1	unnamed (-102)	0.796826351	0.852793328
CRBN	unnamed (+21)	0.69276057	0.853383668
INO80	unnamed (-499)	0.829662039	0.853548038
CHRA1	unnamed (-46783), unnamed (-120), unnamed (+885)	0.537878158	0.85362075
C7orf11	unnamed (-76)	0.910415733	0.854191311
GLB1L	unnamed (-91)	#N/A	0.854450643
TRIP4	unnamed (-32)	1.226400806	0.854638123
KIAA0232	unnamed (-164)	1.210812495	0.854679622
HHIPL2	unnamed (+82448)	#N/A	0.854886565
MTMR14	unnamed (-135)	1.077433764	0.854910329
ATP5G2	unnamed (+192)	0.95476575	0.855046447
CTSH	unnamed (+71226)	#N/A	0.855133734
YWHAQ	unnamed (-179)	0.841797377	0.855288428
GNPTG	unnamed (+53)	0.928376434	0.855422912
USPL1	unnamed (-80)	0.841364274	0.855888221
GOLGA1	unnamed (-31)	1.309172651	0.855990593
UNK	unnamed (+330)	0.919856277	0.856362604
C3orf75	unnamed (+65)	0.871591478	0.857408299
TAS2R42	unnamed (+15247)	#N/A	0.857839173
CCNL1	unnamed (-14492), unnamed (+133)	1.043310458	0.857845793
MASTL	unnamed (+367)	1.416621785	0.857864987
HDDC3	unnamed (-40)	1.146313004	0.85845181
TRIM33	unnamed (-187)	0.880543756	0.858469713
ZNF426	unnamed (-21)	#N/A	0.858684762
DAK	unnamed (+340)	0.867758396	0.858732555
ZNF721	unnamed (+444)	0.601204408	0.858825411
ANKH	unnamed (+207523), unnamed (+726947)	1.000734801	0.859799593
RNF169	unnamed (+618)	0.939246284	0.859857593
ANO8	unnamed (-3)	#N/A	0.860377045
COPB2	unnamed (-10)	1.204877122	0.861117093
PRKAB1	unnamed (-140)	0.701073286	0.861288793
BDP1	unnamed (+11)	0.759150083	0.861809078
BMP1A	unnamed (-518)	0.579348057	0.862007751
NEURL2	unnamed (+2)	#N/A	0.862142663
CACNA1A	unnamed (+351051)	#N/A	0.862298921
DNAJC25	unnamed (-179)	1.106182625	0.862406375

FRYL	unnamed (+570)	0.70331358	0.862680289
PPM1G	unnamed (-317)	0.974668021	0.862741387
IGSF6	unnamed (+53158)	#N/A	0.863242944
CYB5D2	unnamed (+497)	0.837001994	0.863333198
PREPL	unnamed (+43)	0.511965032	0.863548848
MICAL3	unnamed (+22986)	1.415984471	0.863894138
NSUN3	unnamed (+120)	0.993133339	0.864269186
PPP1CC	unnamed (-159)	0.883578347	0.86431334
CASC4	unnamed (-339)	1.046575458	0.864903377
DOK1	unnamed (+65)	#N/A	0.864918907
ARF6	unnamed (-30045), unnamed (+320)	0.989676884	0.865050697
NOA1	unnamed (-69)	#N/A	0.865701217
MDH1	unnamed (-414)	0.886335559	0.865933228
CEP350	unnamed (-94)	1.023883511	0.866260337
IFT20	unnamed (-90)	1.099604413	0.8665988
MYO1D	unnamed (+54243)	#N/A	0.868111351
SSR1	unnamed (-51)	0.900400128	0.868174741
H2AFV	unnamed (-376), unnamed (+487)	0.657525278	0.868225154
ATE1	unnamed (-90)	1.082937084	0.868231516
ZNF639	unnamed (-714)	0.63855001	0.868240444
PEBP1	unnamed (+18)	1.048557359	0.868723813
PFKM	unnamed (+416)	0.78112578	0.869009249
NARG2	unnamed (+181)	0.824331327	0.869089004
PPP1R10	unnamed (+1025)	1.017370579	0.869229229
KIAA1191	unnamed (+275)	1.208702009	0.869889838
MRPL19	unnamed (+69)	0.765582764	0.869907406
ANKIB1	unnamed (-295)	1.061624491	0.869991571
CRLF3	unnamed (+164)	1.202746855	0.870648565
VAMP1	unnamed (-122)	0.763976281	0.870734145
JRK	unnamed (-15)	0.835422771	0.871237333
PTPMT1	unnamed (-12088), unnamed (+130)	0.83477478	0.871345525
SLC18A2	unnamed (-24309)	#N/A	0.87139712
NGDN	unnamed (-225)	1.145947711	0.871589678
SMC1A	unnamed (+315)	1.225432271	0.871733165
NFATC2IP	unnamed (-251)	0.853086082	0.872013352
CCT5	unnamed (-233)	0.926196375	0.872018008
ARL3	unnamed (+575)	0.79414663	0.872025439
PIP4K2B	unnamed (-25594), unnamed (-102)	0.825640827	0.87212687
TFG	unnamed (-195)	1.179090358	0.872200562
MYBPC2	unnamed (-1162)	#N/A	0.872371743
APPBP2	unnamed (+12)	1.052510641	0.87248333
ZNF652	unnamed (+369)	1.421674572	0.872712337
BANF1	unnamed (+162)	0.986035403	0.873102284
SREK1IP1	unnamed (-339)	0.896473963	0.873215613
TUBGCP3	unnamed (-18362)	0.832997824	0.873624792
RBM22	unnamed (+8)	1.095618656	0.874008056
SBNO1	unnamed (-15076)	0.689952097	0.874059685
DDHD2	unnamed (-397)	0.876776453	0.874103432
ZKSCAN5	unnamed (-4416), unnamed (-39), unnamed (+530)	0.716664675	0.875095803
ITGB1BP1	unnamed (-119)	0.842523119	0.875635188

TRMT5	unnamed (+20)	0.715858875	0.875960688
INPP5A	unnamed (-496)	1.143528357	0.876818653
SPSB2	unnamed (-17890), unnamed (+94)	0.984152624	0.877516847
HIST1H1C	unnamed (+1153)	0.334632591	0.877816395
SLC6A19	unnamed (-27072)	#N/A	0.878105918
TMEM143	unnamed (-368), unnamed (+647)	#N/A	0.878651798
SIRT5	unnamed (-446)	0.788065563	0.87871635
PSMA3	unnamed (+270)	0.977041251	0.878788728
HSPA4L	unnamed (+267)	0.821649914	0.878863081
UBE2R2	unnamed (-198), unnamed (+232100)	1.37341177	0.879213465
PDGFB	unnamed (-66138)	#N/A	0.879361561
NCBP1	unnamed (-221)	1.134076416	0.879636283
PPP2R5C	unnamed (+186443)	0.581219958	0.879750929
TMEM146	unnamed (-221)	#N/A	0.8800372
TSPYL1	unnamed (+152)	0.775495819	0.880102462
EXTL3	unnamed (-79344)	#N/A	0.880544596
PHACTR2	unnamed (+165146)	0.770543517	0.881010032
CAMKMT	unnamed (-85)	#N/A	0.881393534
TAOK1	unnamed (-644)	#N/A	0.881690369
CEP63	unnamed (-138)	0.972959278	0.881998318
DDX20	unnamed (+141)	0.954971405	0.882220874
BUB1B	unnamed (+176)	1.282035011	0.882314332
KAZALD1	unnamed (-18174), unnamed (-673), unnamed (+6800)	0.909831537	0.882562593
MVK	unnamed (-311)	0.977690051	0.882868162
GRID1	unnamed (-10916)	#N/A	0.88299414
BAHCC1	unnamed (+77920)	1.432014393	0.883372093
COMMD8	unnamed (-60)	0.599420363	0.884000058
SHISA5	unnamed (+469)	1.1917332	0.884164019
BYSL	unnamed (-10)	1.015204051	0.884331375
KLF6	unnamed (-203)	1.199829404	0.885012118
RBM15B	unnamed (-103)	0.982746356	0.885904399
PRDM10	unnamed (+176)	0.983282065	0.885947971
EGR1	unnamed (-633)	#N/A	0.88629925
NUP50	unnamed (-53)	0.795729784	0.886479843
DRG2	unnamed (-70)	0.953348847	0.886603631
R3HCC1	unnamed (-41508)	1.110560195	0.886656383
RPL24	unnamed (-8)	0.906295244	0.887642719
CCBL1	unnamed (+29)	0.93077435	0.888022779
ANKAR	unnamed (-1361)	#N/A	0.888059832
LRRC23	unnamed (-13558)	#N/A	0.888067095
YY1	unnamed (-45625), unnamed (+31)	0.68535214	0.888216619
LHFPL4	unnamed (+157252)	#N/A	0.888246918
EIF2A	unnamed (-175)	0.886905632	0.889123727
NMUR1	unnamed (-82185)	#N/A	0.889275388
PUF60	unnamed (+138)	1.06508027	0.889674698
NAT10	unnamed (-194), unnamed (+69003)	0.711020531	0.890017591
CCDC90B	unnamed (+197)	1.099111014	0.890088321
TXLNG	unnamed (-125)	0.930658897	0.890442632
MCM3AP	unnamed (-1353)	1.049274734	0.890457075
C15orf44	unnamed (-13)	1.290416256	0.891768098

DDX41	unnamed (-186)	0.693174292	0.891889921
SSB	unnamed (+184)	0.918464569	0.892427242
CAB39	unnamed (-192)	1.142919996	0.892777771
PRDM14	unnamed (-330987)	#N/A	0.892932145
BRIP1	unnamed (+12)	1.132455079	0.89319974
MBLAC2	unnamed (+396)	0.47713516	0.893455817
PCBP1	unnamed (-887), unnamed (-217), unnamed (+55230)	1.002368562	0.894326571
MMS22L	unnamed (-123)	#N/A	0.894394655
DAND5	unnamed (-4106)	#N/A	0.8950759
RPL12	unnamed (-77)	0.89023784	0.895373498
EEF1E1	unnamed (0), unnamed (+38062)	0.880061756	0.895487338
PGP	unnamed (-443)	0.896798838	0.89610629
MYLK2	unnamed (+3626)	#N/A	0.896751474
ZNF589	unnamed (+164)	#N/A	0.897085717
C3orf78	unnamed (+177)	1.017069437	0.897256427
SELPLG	unnamed (+27892)	#N/A	0.897592194
ZC3H3	unnamed (-74)	#N/A	0.898296035
EXOSC3	unnamed (+41)	0.686079061	0.898514425
CDKL3	unnamed (+141067)	#N/A	0.898604332
PHF17	unnamed (+1101)	0.530444946	0.89885518
DDX42	unnamed (-528)	0.716091802	0.89940909
CAPN7	unnamed (-161)	0.808966968	0.899843901
THAP5	unnamed (+32)	0.804144694	0.899992579
SEPT7	unnamed (-244)	0.996762215	0.900843395
ABI3	unnamed (-17820)	#N/A	0.901447838
PRDM4	unnamed (-207)	1.396798278	0.901773188
PANK3	unnamed (-105)	0.577083038	0.902078092
CCNI	unnamed (-329)	1.502995373	0.90208406
TP53	unnamed (+273)	1.043846758	0.902135109
FAM96B	unnamed (-30)	1.027258761	0.902354438
HMBOX1	unnamed (-175)	0.716082577	0.902479382
FKBP2	unnamed (+14)	0.954709458	0.902955516
AAGAB	unnamed (-111)	1.855650336	0.903072512
UFSP2	unnamed (-107)	0.801803178	0.904679954
C14orf93	unnamed (+3341)	#N/A	0.904886468
PSIP1	unnamed (-42124), unnamed (-214)	0.82328265	0.904995129
PRICKLE4	unnamed (-711)	#N/A	0.905143952
SLC41A3	unnamed (-28)	0.862500412	0.905227313
CUTA	unnamed (-139)	1.178387465	0.905748041
EIF3B	unnamed (-349)	0.861209276	0.906005064
DDB1	unnamed (-328)	0.929310935	0.906090798
PAIP2	unnamed (-38)	0.738647434	0.906305347
FAM108B1	unnamed (-271)	1.666524674	0.906441307
PIGP	unnamed (-329)	0.763622297	0.90662118
KIAA1524	unnamed (-98)	1.044074067	0.906895993
CTDNEP1	unnamed (-611)	1.259666972	0.906943656
ACD	unnamed (-282)	1.006232745	0.907197085
SRPR	unnamed (-84)	0.737117554	0.908103694
ZKSCAN2	unnamed (-441)	#N/A	0.908461936
CDC5L	unnamed (-20)	0.867374143	0.908888761

TSPAN31	unnamed (+7)	0.763011667	0.909566008
ECT2L	unnamed (-22587)	#N/A	0.909753839
ADPGK	unnamed (-284)	1.085763073	0.910181151
TGS1	unnamed (+224)	0.974839444	0.91047323
RPP38	unnamed (-32)	1.188836507	0.911233483
ZNF12	unnamed (-58)	1.26510337	0.911345193
MOG	unnamed (-6720)	#N/A	0.911857364
EFTUD2	unnamed (+95)	0.998772013	0.912283449
CDK2AP2	unnamed (+7)	1.450130458	0.912372344
WASL	unnamed (-45)	1.05238205	0.913039756
SETD1B	unnamed (-1768)	1.194163398	0.913064717
FANCG	unnamed (+7)	0.794265997	0.913282388
OMA1	unnamed (-68)	1.192223876	0.913296845
CLDND2	unnamed (+2416)	#N/A	0.913322056
TKTL2	unnamed (-20649)	#N/A	0.913660722
SYNGAP1	unnamed (-1643)	#N/A	0.914448887
EPN1	unnamed (-1416)	#N/A	0.914620922
SSC5D	unnamed (+15502)	#N/A	0.914917886
RCE1	unnamed (+27)	0.923638111	0.915295197
YBEY	unnamed (+322)	#N/A	0.91555737
GSG2	unnamed (-200)	0.741961079	0.915569132
TGOLN2	unnamed (+237)	0.872351477	0.915746251
STK16	unnamed (+30)	#N/A	0.915823884
CNOT6	unnamed (-168)	1.042965044	0.915936824
ATP5G1	unnamed (-240)	0.798113833	0.916048125
ATXN2L	unnamed (-625), unnamed (+854)	#N/A	0.916129981
RNASEH1	unnamed (-154)	0.76166988	0.916178069
CKS2	unnamed (-229)	0.980443733	0.916231187
RNF38	unnamed (-87657)	0.736322336	0.916397982
GABBR1	unnamed (-17076)	#N/A	0.917150437
SSH2	unnamed (+168450)	0.507583368	0.917717582
OSR1	unnamed (+10168)	#N/A	0.918239801
NUPL2	unnamed (+1)	0.86837916	0.918571203
IKZF5	unnamed (+63)	0.703962457	0.918571617
C14orf1	unnamed (+52)	0.722630666	0.919155205
MRE11A	unnamed (+39)	0.760565197	0.919272538
ATP5D	unnamed (-1379)	0.683026166	0.920319052
FAM98B	unnamed (-59)	0.719276594	0.920465785
PTRH2	unnamed (+15)	0.95448698	0.920589141
UQCR10	unnamed (-266)	1.424388245	0.920703898
MPP5	unnamed (-150)	1.495921158	0.920820893
EIF2AK3	unnamed (-353)	2.153553436	0.920932641
TAF12	unnamed (-229)	0.834221867	0.92136212
SGMS1	unnamed (-656)	0.923732394	0.92204215
MAP3K7	unnamed (-114)	0.882395428	0.922111605
LBP	unnamed (+89138)	#N/A	0.922299385
SMARCC1	unnamed (-10)	0.642959321	0.922503303
TEX14	unnamed (-646)	#N/A	0.923960451
ZNF579	unnamed (-6576)	#N/A	0.924453747
OVOL1	unnamed (+31354)	#N/A	0.924588161
ZBTB49	unnamed (+45220)	#N/A	0.924624977

DDX55	unnamed (-114)	0.914066371	0.92492031
ARL10	unnamed (-3968)	#N/A	0.92555833
SCAND3	unnamed (-308977)	1.229578248	0.926004274
HNRPDL	unnamed (-251), unnamed (+631)	0.707334358	0.926095989
MAP3K9	unnamed (-243)	1.802261537	0.926248545
NDUFA6	unnamed (-112)	0.925646253	0.926589911
TSKS	unnamed (-2642)	#N/A	0.927012679
NPTX1	unnamed (+21947)	1.270197872	0.927316637
ATF2	unnamed (+201)	0.713931956	0.927429456
B4GALNT4	unnamed (-13615)	#N/A	0.927452922
PTPN1	unnamed (-194)	0.953493941	0.927530297
H2AFZ	unnamed (-74)	0.909679312	0.927565343
ZNF317	unnamed (+85)	1.267597032	0.927724104
ZNF317	unnamed (+85)	1.267597032	0.927724104
NBN	unnamed (+98)	0.899662757	0.927836579
SNRPA	unnamed (-28)	0.838450679	0.928019677
EIF4EBP2	unnamed (-39426)	0.58110068	0.928203007
SFXN3	unnamed (+11829)	0.898999076	0.928638222
DLST	unnamed (-51)	0.958358992	0.928720176
YOD1	unnamed (-1883), unnamed (+481)	1.385785612	0.928977596
C7orf10	unnamed (-248)	#N/A	0.929303241
ZFHX2	unnamed (-4626), unnamed (-169)	#N/A	0.929573169
COPG	unnamed (+28953)	1.015715946	0.929732985
TRUB1	unnamed (+1)	1.088588901	0.930128451
NCOA2	unnamed (+1471)	1.271628271	0.930148953
CNNM4	unnamed (-268)	#N/A	0.930348697
PSMC3IP	unnamed (+12)	1.011441222	0.93125345
TTI1	unnamed (-96)	1.399212544	0.931831979
MYLK3	unnamed (-41739)	0.423630988	0.931963877
PTPN11	unnamed (+152)	0.656776877	0.932085223
SLC30A5	unnamed (-34)	0.699776148	0.932335785
SRSF1	unnamed (+63)	0.548605944	0.93268316
DNAJA3	unnamed (-117)	0.920949199	0.932688897
NKX6-3	unnamed (-181380)	#N/A	0.933095973
RNMTL1	unnamed (+78)	1.175486676	0.933149988
NSFL1C	unnamed (+701)	0.83571786	0.93327402
RBM12B	unnamed (+81)	0.902829188	0.933355131
PLDN	unnamed (+80)	0.564373024	0.933451493
C14orf135	unnamed (+50)	#N/A	0.933815389
TXNRD3	unnamed (-327527)	#N/A	0.933859163
ATP5H	unnamed (+12875)	0.900807096	0.933952998
VTI1B	unnamed (-25)	0.794106751	0.934124732
MAPKAPK5	unnamed (-623)	0.836716132	0.934140158
PTTG1	unnamed (-2568)	0.81888049	0.934176396
CCT7	unnamed (-795)	0.903819411	0.934238947
PRKCI	unnamed (-254)	1.212592273	0.934570479
AHCYL1	unnamed (-108)	0.960317735	0.934636764
UMPS	unnamed (-37)	0.855147422	0.934940219
SLC7A11	unnamed (+38)	7.602955925	0.936005838
TCF12	unnamed (-39)	0.617876439	0.936493446
FOXK2	unnamed (-347)	0.988574957	0.937376379

EXOSC7	unnamed (+1)	0.969827389	0.937574309
CCDC142	unnamed (-46)	#N/A	0.938898943
ZNF367	unnamed (+951)	1.045286709	0.939233287
SIAE	unnamed (+24)	1.257212094	0.939238516
AGA	unnamed (+15)	1.056389522	0.939322749
ZNF192	unnamed (-5044)	1.096720797	0.939401059
LUC7L2	unnamed (-120), unnamed (+18408)	0.578940188	0.939748418
STX11	unnamed (+65821)	#N/A	0.940273813
NPM2	unnamed (-14535)	#N/A	0.940422627
EED	unnamed (+76)	1.28996325	0.940444651
MTERF	unnamed (-126)	#N/A	0.941103034
DCAF6	unnamed (-86)	0.683240479	0.941171878
ARHGEF4	unnamed (-117011)	0.776293565	0.941696925
NMT1	unnamed (-114)	0.758462259	0.942201492
AIM1L	unnamed (+32434)	#N/A	0.942431309
GPANK1	unnamed (-151)	#N/A	0.942479582
MIEN1	unnamed (-39)	#N/A	0.942637047
IFT122	unnamed (+42)	0.749758915	0.942969193
MRPS27	unnamed (-13), unnamed (+12056)	0.947491459	0.94369724
TRIM69	unnamed (-7477)	#N/A	0.944086569
GCFC1	unnamed (+44)	0.89087239	0.944431618
SPAG4	unnamed (-57)	#N/A	0.944788951
ATP8B4	unnamed (+498381)	#N/A	0.94481895
NUP210L	unnamed (-28235)	#N/A	0.945022431
SNX32	unnamed (-15551)	#N/A	0.945938466
EFHC2	unnamed (-199384)	0.863232248	0.946000914
DCLRE1B	unnamed (+13)	1.287313211	0.946760047
XRN2	unnamed (+303)	0.842373656	0.946985965
BCCIP	unnamed (-41)	0.691044738	0.947271025
SPAG16	unnamed (+20)	1.512509028	0.947371575
ULK4	unnamed (-50)	#N/A	0.947803849
RBAK	unnamed (-21)	1.252979572	0.949280656
ZNF335	unnamed (+40)	#N/A	0.949387789
CITED2	unnamed (-1374), unnamed (-459)	1.470045763	0.949560653
KCNK18	unnamed (+19275)	#N/A	0.94964337
ABHD11	unnamed (-96)	0.953611777	0.949870525
KDM4C	unnamed (-76184)	#N/A	0.950029333
CLTA	unnamed (+67693)	1.127325979	0.950717418
EXTL2	unnamed (-1305)	0.870778506	0.95075017
BHLHE40	unnamed (+1062)	1.073067158	0.950802306
RPS8	unnamed (-187)	0.947403306	0.952195565
USP37	unnamed (-436)	1.234758125	0.952241587
CCDC77	unnamed (-60)	1.278959099	0.952931167
R3HDM1	unnamed (-636)	0.505706422	0.953155624
MTHFSD	unnamed (-19)	0.611345262	0.953191201
HRSP12	unnamed (-165)	0.646621951	0.95344862
NEK1	unnamed (+188)	0.711527759	0.953874833
RBM7	unnamed (+78)	0.760545386	0.954770955
IRS4	unnamed (-318013)	#N/A	0.954988328
STRAP	unnamed (+109)	1.024563679	0.955141183
CCT8	unnamed (-149)	1.070053947	0.955142016

PHRF1	unnamed (-150)	#N/A	0.955866537
FOXS1	unnamed (+22616)	#N/A	0.956115025
AASDH	unnamed (+144)	1.101353986	0.956507524
EFHC1	unnamed (+54)	0.957557883	0.956533312
GAP43	unnamed (-476630), unnamed (+161381)	#N/A	0.956850136
NUP85	unnamed (+33)	0.958644645	0.957241292
ECHDC1	unnamed (-905)	0.854074082	0.957326527
TDP1	unnamed (+31)	0.719130668	0.95736636
OSBP	unnamed (+161)	1.309103497	0.957390563
SPEF1	unnamed (+13129)	#N/A	0.957704957
PDCL3	unnamed (+301)	#N/A	0.957731447
SRSF6	unnamed (-97)	1.158322084	0.95780915
SAV1	unnamed (-166)	1.152360735	0.957935091
C11orf30	unnamed (-255)	1.030145709	0.958160091
ZNF622	unnamed (-105)	1.398842667	0.958181385
TMED5	unnamed (+623)	0.883052868	0.958306072
TSC22D1	unnamed (-341813), unnamed (+141027)	0.836577708	0.958452252
C16orf7	unnamed (-1277), unnamed (+20701)	#N/A	0.958615519
KRBA1	unnamed (-90201)	#N/A	0.958785294
METTL20	unnamed (+69450)	#N/A	0.959288358
ASXL1	unnamed (-324)	0.531606407	0.96011251
ZCCHC6	unnamed (+96)	1.069821334	0.960611469
ABCB10	unnamed (-352)	1.259939207	0.960730136
PIGG	unnamed (+9)	1.187421435	0.960783785
CD81	unnamed (+23142)	0.994945828	0.961170124
C1orf124	unnamed (-408), unnamed (+300)	1.024269425	0.961269052
KRAS	unnamed (-135332)	1.011248012	0.961624482
RFFL	unnamed (-56127)	1.664749077	0.961773669
DNTTIP1	unnamed (+17)	0.989868047	0.962163194
SYT3	unnamed (-39789)	#N/A	0.962230301
MRPS24	unnamed (-71)	0.865182125	0.962525936
ZNF646	unnamed (+21)	#N/A	0.964567341
THADA	unnamed (+20)	0.995703552	0.964716064
KIAA0141	unnamed (+114)	0.726317148	0.964806004
TEX10	unnamed (-66)	1.045418606	0.965067997
ZNF3	unnamed (-70)	#N/A	0.965543292
NCBP2	unnamed (+81)	1.061190889	0.966138255
C17orf90	unnamed (-220)	0.855928924	0.966615895
RRNAD1	unnamed (+190)	#N/A	0.966971312
FUBP1	unnamed (-147)	0.524002218	0.967083456
SEC23B	unnamed (+56)	1.183904467	0.9671192
PMS2	unnamed (+202)	#N/A	0.968589605
HECTD1	unnamed (-98)	0.969201996	0.968597002
NANOS3	unnamed (-30130), unnamed (+3046)	#N/A	0.968643374
LMOD1	unnamed (+50484)	#N/A	0.968933131
KIAA1468	unnamed (-266)	1.229028319	0.969415567
SETDB2	unnamed (-7591)	#N/A	0.969930373
VPS37B	unnamed (-102)	1.207804801	0.970193582
YIF1A	unnamed (+6508)	1.154062667	0.970250843
HBQ1	unnamed (+1095)	#N/A	0.970589346
ELMOD2	unnamed (+170)	0.844641822	0.971130861

G3BP1	unnamed (-313)	0.876504624	0.971193901
PTCRA	unnamed (-25226)	#N/A	0.971419722
FLCN	unnamed (-257)	2.666433553	0.972119795
ETFDH	unnamed (-227)	1.076827288	0.972217363
TFAP4	unnamed (+18842)	#N/A	0.972834695
COL1A1	unnamed (+891)	0.811674315	0.972947598
SUV420H2	unnamed (-832), unnamed (-149)	#N/A	0.97319804
YWHAZ	unnamed (+835)	0.992634048	0.974188025
TTC21A	unnamed (-30)	#N/A	0.974221572
TP53BP2	unnamed (-146673)	0.658758542	0.974257508
NANP	unnamed (-309)	0.682145637	0.974507184
JUND	unnamed (-123)	1.145988908	0.974705975
TCF7	unnamed (-12543)	0.855624652	0.975374221
ARPM1	unnamed (+4746)	#N/A	0.975600851
C14orf102	unnamed (-51062)	0.871778986	0.97562535
THAP1	unnamed (+151)	0.884731929	0.976115262
TMEM203	unnamed (-36)	0.787963787	0.9762663
PMS1	unnamed (-24)	1.036040215	0.976429362
FABP2	unnamed (-132545)	#N/A	0.976552013
FBXW7	unnamed (-1308)	0.853746951	0.976632002
DOM3Z	unnamed (-88)	0.683710734	0.976796355
VPS37A	unnamed (-15)	0.927060212	0.977260129
C10orf111	unnamed (+168)	#N/A	0.977396872
MOB1A	unnamed (-59)	#N/A	0.978199637
DUSP21	unnamed (-300942)	#N/A	0.978232948
DCAF12	unnamed (+77489)	1.215146699	0.978369793
HIST4H4	unnamed (+750)	#N/A	0.979096896
ZNF500	unnamed (-1567)	1.092789914	0.979278281
PIGB	unnamed (-28294)	0.699193578	0.979668016
ANXA7	unnamed (+126)	0.811083278	0.979870181
SLC39A9	unnamed (-170)	0.797979143	0.980020496
CLCN3	unnamed (-276)	1.027591231	0.980154364
COX4I2	unnamed (-24898)	#N/A	0.980220167
RFC1	unnamed (+114)	0.526957791	0.980387067
SLC10A2	unnamed (+221056)	#N/A	0.980573775
TINF2	unnamed (-190)	1.046099446	0.981210182
CISD2	unnamed (+125)	0.711412038	0.981228759
LCMT1	unnamed (-4490)	0.986489165	0.981358811
NOC4L	unnamed (-35), unnamed (+9615)	0.986380209	0.981483566
EXOC6B	unnamed (-36508)	1.112461085	0.981751805
MORF4L1	unnamed (+1022)	0.892634301	0.981874608
VPS13C	unnamed (-82)	1.444424477	0.982192745
SP4	unnamed (-469)	0.653683154	0.98275077
RPN2	unnamed (+103)	0.469385412	0.983278905
POLG	unnamed (-361)	0.844655657	0.983317438
HSD17B13	unnamed (+102263), unnamed (+315795)	#N/A	0.983644328
TCF3	unnamed (-2689)	0.70517836	0.984264773
CHST8	unnamed (+156227)	#N/A	0.984632677
PWP1	unnamed (-73)	1.180953227	0.984678239
ULBP3	unnamed (+121)	#N/A	0.984759559
ZFC3H1	unnamed (-55)	0.777722574	0.984967051

DIABLO	unnamed (+1449)	1.16075103	0.985024839
ZNF337	unnamed (-512194)	1.236372049	0.985107653
ZDHHC5	unnamed (-297)	1.05238253	0.985226175
PHB2	unnamed (-40)	1.010230825	0.985490964
RPN1	unnamed (-30084)	1.065278174	0.985820363
SCAMP1	unnamed (+60)	0.595874584	0.986054576
ZNF764	unnamed (-315)	1.099379604	0.986128772
RBM4B	unnamed (-372)	1.026059584	0.986181966
CPN2	unnamed (+38629)	#N/A	0.986433736
ITGA1	unnamed (+12396)	0.798283419	0.986757138
PAX2	unnamed (+167667)	#N/A	0.987335069
PLEKHG2	unnamed (-648)	#N/A	0.987525468
TMEM41A	unnamed (+49)	1.35314968	0.987886029
ZBTB37	unnamed (-443)	#N/A	0.987951781
COX5B	unnamed (+136)	1.015835464	0.988237843
GRK4	unnamed (-430)	#N/A	0.988252975
ETV5	unnamed (+565)	0.939711857	0.989381385
SRRM2	unnamed (+74)	0.920724695	0.98949612
NBPF1	unnamed (-30980), unnamed (-797)	#N/A	0.98965637
IFLTD1	unnamed (+167031)	#N/A	0.989734938
DCAF16	unnamed (-145)	0.882896548	0.989931746
CEP152	unnamed (+153)	0.77828621	0.990099837
NAA38	unnamed (+130)	0.808440167	0.990325948
GOT2	unnamed (-52)	1.168209968	0.990392148
MTF2	unnamed (+67)	0.860333217	0.990998885
GEMIN4	unnamed (-105)	1.161832877	0.991413795
ARG2	unnamed (-30)	#N/A	0.99142077
PURG	unnamed (-914)	#N/A	0.991703247
GGA1	unnamed (+261)	0.99817262	0.992096484
STK35	unnamed (+548)	1.423755046	0.992471172
RPLP0	unnamed (-27591), unnamed (-51)	0.989465944	0.992542093
SCARF1	unnamed (-3157)	#N/A	0.99254381
CDH17	unnamed (+217049)	#N/A	0.992565355
SRGAP1	unnamed (+377824)	1.020035162	0.992817779
FRAT1	unnamed (-221)	0.902854191	0.993668124
TMEM209	unnamed (+34)	1.467231671	0.993804886
GRIP2	unnamed (-109525)	#N/A	0.994019597
BMS1	unnamed (+227)	0.824611576	0.994162822
CIC	unnamed (-16259)	#N/A	0.994848454
CDC123	unnamed (-9)	0.868430637	0.995282966
SNAP29	unnamed (-71)	0.568242122	0.9955907
TP53I13	unnamed (+140)	#N/A	0.995698145
AAAS	unnamed (-96)	1.190989038	0.996771612
HTRA3	unnamed (+158735)	#N/A	0.996881862
SLC25A36	unnamed (-76)	0.979033667	0.997183521
CRYZL1	unnamed (-269)	0.652118014	0.997611783
C7orf53	unnamed (-30226)	#N/A	0.997663723
ZNF571	unnamed (+135)	#N/A	0.997728146
ZNF239	unnamed (+118841)	0.790033409	0.998545079
SIPA1L1	unnamed (-209086)	#N/A	0.998657814
OLFML2A	unnamed (+75911)	#N/A	0.998678859

MAPK8IP3	unnamed (-9)	#N/A	0.9988234
C19orf26	unnamed (-2380)	#N/A	0.999365392
NARS	unnamed (+102)	1.079671003	0.999816496
PEX11B	unnamed (+172)	1.026115048	1.000040288
ACTR3	unnamed (-247)	0.924243554	1.000319771
LSM14B	unnamed (-306)	#N/A	1.000380623
CREM	unnamed (-409)	0.882747082	1.000419775
PIGO	unnamed (+65)	1.096012455	1.000739419
ZC3H4	unnamed (+76)	1.091228546	1.000870655
RLF	unnamed (-151)	1.117414981	1.001144268
KDM6B	unnamed (-4224)	1.313709705	1.0013367
METTL16	unnamed (-28)	#N/A	1.001389168
CHAF1A	unnamed (-141)	0.863008793	1.002585808
CDADC1	unnamed (-72)	0.662816114	1.002765101
DCAF8	unnamed (+26)	0.93928755	1.003818272
C2orf28	unnamed (+236)	0.893825794	1.004055181
PI4KA	unnamed (-121)	1.053938502	1.004113206
NOP56	unnamed (+26)	0.578073229	1.004193672
SEPT1	unnamed (-17702)	#N/A	1.004677015
MRPL13	unnamed (+87)	0.798594747	1.004848576
USP53	unnamed (-346)	1.16796768	1.004955892
GGNBP2	unnamed (-328)	1.041882124	1.005436589
C6orf62	unnamed (-1958)	0.80959051	1.005564455
OIP5	unnamed (+272)	0.772378697	1.005753533
CDK18	unnamed (-18860)	#N/A	1.005781976
LMBRD2	unnamed (-426)	1.127375032	1.006356289
TATDN1	unnamed (+158)	0.962111083	1.006469793
KIF22	unnamed (0)	0.838902919	1.006554264
C11orf1	unnamed (-71)	1.104137868	1.006711925
CNNM3	unnamed (+69)	1.030318057	1.006896964
MRM1	unnamed (-340)	#N/A	1.006977794
NHP2	unnamed (+49)	0.380577542	1.007309064
NUS1	unnamed (-285)	0.798207519	1.007374531
RAB5B	unnamed (-177)	1.416787262	1.007551841
HDAC6	unnamed (-479)	1.569740249	1.007925583
TRA2B	unnamed (+447)	0.812616541	1.008065728
GSS	unnamed (-21)	0.914138464	1.008294092
C11orf82	unnamed (-99)	0.773376263	1.008611479
PDS5A	unnamed (-98)	0.781151183	1.008645199
NXPH3	unnamed (-7869), unnamed (-5651)	#N/A	1.008836132
SSBP1	unnamed (+28)	0.896485736	1.008868915
SLA2	unnamed (+40648)	#N/A	1.008919311
PIK3CD	unnamed (-24577)	#N/A	1.008976312
ZNF425	unnamed (-107)	#N/A	1.009215944
MYOZ1	unnamed (+15639)	#N/A	1.009387677
MIA3	unnamed (+26163)	0.881164266	1.009409315
HSPA14	unnamed (-74)	0.572957495	1.009460456
HSPA14	unnamed (-74)	0.572957495	1.009460456
TMPRSS11B	unnamed (-104470)	#N/A	1.009732226
ATP5I	unnamed (-46)	0.864541152	1.009817125
FAM206A	unnamed (-288)	#N/A	1.010118046

MEIS2	unnamed (+521171)	0.771655928	1.010233931
SCGB1C1	unnamed (-3035)	#N/A	1.010454211
EXOSC10	unnamed (+130)	0.792003263	1.010471954
DDX19B	unnamed (+47652)	#N/A	1.010649838
ANAPC13	unnamed (-46)	1.179926759	1.010949479
ADAMTS16	unnamed (+282063)	#N/A	1.011026853
NDUFB6	unnamed (-97)	0.970527027	1.011049156
TAF11	unnamed (-35)	0.86133573	1.011058717
SS18	unnamed (-244)	1.034327922	1.011776318
SLC26A7	unnamed (-179127)	#N/A	1.011963808
YTHDC2	unnamed (-63)	0.904107996	1.012525845
GNAS	unnamed (+35953)	0.603924454	1.012617885
SLC35G5	unnamed (+135890)	#N/A	1.012722631
RNF8	unnamed (+39)	1.036891222	1.012753364
RNF151	unnamed (-1979)	#N/A	1.013041981
SUV39H2	unnamed (-101)	0.675508782	1.013147612
ACO2	unnamed (-170)	1.24618258	1.013542948
CHD1L	unnamed (-55)	0.743244058	1.013551202
CEP135	unnamed (-209)	#N/A	1.013629367
ZNF346	unnamed (+42)	1.155295238	1.013702905
LAMP1	unnamed (-9)	1.12745838	1.013825821
OSBPL8	unnamed (+77)	0.669426896	1.015011251
DCAF17	unnamed (+507)	0.835655156	1.015127056
RABGEF1	unnamed (-85515), unnamed (+104808)	#N/A	1.015205492
ARL4D	unnamed (-37757), unnamed (-29771), unnamed (-10027), unnamed (-1)	0.732748005	1.015914716
HYAL1	unnamed (-18048)	1.230667841	1.01625315
TACO1	unnamed (-21)	1.12477136	1.016317053
MFSD11	unnamed (+55)	0.857960619	1.01633722
GZF1	unnamed (-2398)	1.444580581	1.016397722
BAP1	unnamed (-41)	0.930496202	1.016553114
CREB3L1	unnamed (-34237)	#N/A	1.01663159
KCMF1	unnamed (-45107)	1.117311286	1.016691407
SCARB1	unnamed (-46787), unnamed (+96777)	0.965146342	1.017863549
RAB11A	unnamed (-194)	1.027147118	1.017975645
TMEM68	unnamed (-130)	0.630858215	1.018035522
DNAJC27	unnamed (+116)	#N/A	1.018078323
WNK1	unnamed (-1658)	0.94275073	1.018317616
WDPCP	unnamed (-4)	#N/A	1.018539244
TTC31	unnamed (+203)	1.072158924	1.018736577
PTCHD2	unnamed (-138)	#N/A	1.018985771
PHF12	unnamed (-737)	#N/A	1.019124724
RHOD	unnamed (+24835)	0.530654488	1.019668168
GDF7	unnamed (+156356)	#N/A	1.01972329
MAT2A	unnamed (-472)	0.804586422	1.01972405
SENP1	unnamed (-431)	0.660946175	1.02016495
IPO4	unnamed (+842)	0.530585103	1.021388678
MED10	unnamed (+956133)	1.764681375	1.021515575
PANK2	unnamed (+231)	0.978292678	1.021664244
CLN5	unnamed (+190)	1.120879212	1.021671237
C9orf5	unnamed (-203)	1.424351603	1.021996591

TLCD1	unnamed (-568)	0.813059034	1.022027268
SART3	unnamed (-1094)	1.149161026	1.023356107
EIF2AK2	unnamed (-40)	1.429404656	1.023604162
DDX3X	unnamed (+472)	1.322226799	1.023695272
PNPLA8	unnamed (-153)	0.714627947	1.024241286
PGRMC2	unnamed (+633)	1.128656828	1.024770551
EFNA3	unnamed (+6024)	#N/A	1.024793176
SENP2	unnamed (-115)	0.656773682	1.02505791
CD52	unnamed (+3776)	#N/A	1.025964024
C13orf16	unnamed (-167101)	#N/A	1.026024818
NPHP4	unnamed (+315)	#N/A	1.026253251
EIF2C3	unnamed (+33)	0.748995262	1.026844822
ASAH1	unnamed (-23)	1.048529161	1.027034777
SLC25A37	unnamed (-53)	0.862270301	1.027129407
XRN1	unnamed (-146)	0.980927411	1.027130419
TMEM127	unnamed (-27)	1.085609635	1.027206595
UBR4	unnamed (-79)	0.917649114	1.027494366
HMGB3	unnamed (-9)	0.5771203	1.027716689
C19orf77	unnamed (+45443)	#N/A	1.027782773
UNG	unnamed (-3987)	0.992410401	1.027815972
ZCCHC14	unnamed (-1183)	0.885971993	1.028601961
DQX1	unnamed (-3548)	#N/A	1.028732687
MLF2	unnamed (-913)	1.2830095	1.028877346
RBM45	unnamed (-78)	1.10285825	1.029236494
USP54	unnamed (-50443)	0.680444863	1.030966611
UBE2N	unnamed (+142)	0.926510806	1.031125355
GTF2I	unnamed (-391)	0.911924676	1.031163653
LAMP2	unnamed (-91985)	0.68076154	1.031203735
C7orf42	unnamed (-76412)	0.96272204	1.031250622
SIGLEC10	unnamed (+23387)	#N/A	1.031670443
SGK196	unnamed (+220)	#N/A	1.032237555
APTX	unnamed (+4)	0.949306163	1.032420061
POLDIP3	unnamed (-359)	1.190894834	1.032616193
PSRC1	unnamed (+19367)	1.062717264	1.032688319
WFDC3	unnamed (-46)	#N/A	1.033029421
MLC1	unnamed (+54936)	#N/A	1.033591999
ATP8A1	unnamed (-289)	#N/A	1.034205086
ARID4B	unnamed (-428)	1.264703573	1.035031315
FXC1	unnamed (+41)	0.855887137	1.03506982
KIAA1967	unnamed (-433)	1.017470371	1.035820836
STK11IP	unnamed (+409)	#N/A	1.035829787
NBEAL2	unnamed (-3106)	#N/A	1.036934835
CNTROB	unnamed (+47)	#N/A	1.037011413
UBXN4	unnamed (-47)	0.931226881	1.037204915
NACA	unnamed (-892)	0.678965263	1.037662137
GPR56	unnamed (+29220)	2.112999138	1.038546752
SERBP1	unnamed (-243)	0.751274842	1.038577049
MMAB	unnamed (+169)	0.557151945	1.038844188
GSC2	unnamed (-21333)	#N/A	1.039088873
TMEM106A	unnamed (+74702), unnamed (+82688), unnamed (+102432)	#N/A	1.039803875

GTPBP10	unnamed (-60)	1.036150506	1.039859625
NDUFA7	unnamed (+140)	1.054128504	1.039952152
FDPS	unnamed (+47)	0.838467166	1.039991962
RPL7L1	unnamed (-96454), unnamed (+10830)	0.84243443	1.040120955
CREB1	unnamed (+132)	0.745523554	1.04025329
RBM14	unnamed (+59)	0.844187952	1.040271468
SPRED1	unnamed (-1128)	0.501341503	1.04051069
SCAF11	unnamed (+86)	#N/A	1.040836034
DUSP3	unnamed (+388)	0.866816132	1.040872336
ATF6B	unnamed (-2054)	#N/A	1.041247859
GPT2	unnamed (-94348)	#N/A	1.041422566
HIST1H2BD	unnamed (-530)	1.738511051	1.041565688
POLR2E	unnamed (-254)	0.798596503	1.041809095
RPL15	unnamed (-80)	0.745626263	1.041996222
GIT2	unnamed (-2758)	1.172426059	1.04206429
PTPN23	unnamed (+253)	#N/A	1.042208533
ASF1B	unnamed (-614)	1.090216442	1.042378287
PPM1K	unnamed (+19)	#N/A	1.043214275
EDAR	unnamed (+202702)	#N/A	1.04324064
ZFP30	unnamed (-637)	#N/A	1.043452786
LARP1B	unnamed (-166)	0.749760601	1.04375357
KLC4	unnamed (-370)	#N/A	1.043980404
ARL2BP	unnamed (-171)	1.45262181	1.044797315
WDR4	unnamed (-49)	0.568891934	1.045421569
DNAJA1	unnamed (-42)	1.06123954	1.046432448
TRNAU1AP	unnamed (+28924)	1.004844359	1.04671441
CTNNB1	unnamed (+7)	0.644782874	1.047472257
HSD3B7	unnamed (-94)	1.208866191	1.047843483
P4HB	unnamed (-331)	1.421198579	1.047862832
SPG21	unnamed (-96)	0.846078608	1.047869517
FGFR1OP2	unnamed (-90)	0.275453168	1.048125631
YARS2	unnamed (+656)	0.886846264	1.048357129
SUCLG1	unnamed (-44)	1.108401675	1.048569617
NRG2	unnamed (-64357), unnamed (+74360)	#N/A	1.048764407
C17orf81	unnamed (+55)	0.62156916	1.048842594
NAA35	unnamed (-108)	0.959380225	1.048950896
EXOC8	unnamed (-404), unnamed (+304)	1.027903597	1.049244216
D4S234E	unnamed (-50440)	#N/A	1.049373464
GRAP	unnamed (+42299)	#N/A	1.049557336
GCN1L1	unnamed (+71)	0.911591182	1.049737358
FBXO45	unnamed (-260)	0.736192352	1.050099765
ESD	unnamed (-30)	0.969626582	1.050392247
LIN7C	unnamed (-126)	0.328685272	1.05110069
GPN3	unnamed (-589), unnamed (+367)	0.809556866	1.051468305
C1orf49	unnamed (+29447)	#N/A	1.051540616
PPM1L	unnamed (-1090)	0.693995734	1.051797098
CCNA2	unnamed (-21)	0.684460919	1.051927067
FGF11	unnamed (-4047)	#N/A	1.052138811
LRSAM1	unnamed (-746)	#N/A	1.052331901
LFNG	unnamed (-68230)	#N/A	1.052527113
LAMTOR2	unnamed (-195)	#N/A	1.052586631

ABCD1	unnamed (-423)	1.311541064	1.052871517
SPSB1	unnamed (-25508), unnamed (+136070)	#N/A	1.053071577
RPL23	unnamed (+248), unnamed (+28301)	0.854254373	1.053546447
PIF1	unnamed (-165)	#N/A	1.054092793
MXI1	unnamed (+3628)	0.537298283	1.054605768
SUGT1	unnamed (-127)	0.797185223	1.054690254
RPS7	unnamed (+48)	0.972600426	1.054910563
POLR2L	unnamed (-146)	0.687567023	1.05498028
NFE2L2	unnamed (+1529)	1.076840028	1.055054051
TIMM17A	unnamed (-78)	1.141434954	1.055814606
C21orf2	unnamed (+2)	#N/A	1.05587672
VRK2	unnamed (-116)	0.962594591	1.055936784
MED23	unnamed (-74)	1.450974727	1.056043308
SETD8	unnamed (-18640)	0.825659945	1.056282624
TCTEX1D2	unnamed (+99)	1.0686361	1.056389589
ELP4	unnamed (-4)	0.951409863	1.056526992
PTX3	unnamed (-261606)	#N/A	1.056981685
GBF1	unnamed (-80)	0.92566458	1.057373655
SUCNR1	unnamed (+395574)	#N/A	1.057385218
C16orf79	unnamed (-4196)	#N/A	1.058186337
ZFAND5	unnamed (-249)	1.257380635	1.058389508
RNF13	unnamed (+419)	1.211966663	1.058674558
THTPA	unnamed (-4171), unnamed (+286)	0.62056638	1.058816484
C5orf41	unnamed (-64)	0.700115489	1.058913173
JMJD1C	unnamed (+383)	0.955249442	1.058999067
SLC35E2	unnamed (-340)	#N/A	1.059151284
SNRPG	unnamed (+88)	0.889792274	1.060389754
NUDT5	unnamed (+191)	0.718874254	1.060721717
SLC25A5	unnamed (+97074)	0.969081832	1.06072319
STX12	unnamed (-47591)	1.062239544	1.060801257
MFAP3	unnamed (-203)	0.538615583	1.061066689
SERPINF2	unnamed (-26414)	#N/A	1.061127353
PPM1F	unnamed (+14436)	0.869654278	1.061520974
EP400	unnamed (-16)	1.003278348	1.061568409
TP53INP2	unnamed (-333), unnamed (+35)	2.087748273	1.061815533
TMEM208	unnamed (-149)	1.18109656	1.061841582
NUP160	unnamed (+81227)	0.518014693	1.06206401
KCTD18	unnamed (+2)	#N/A	1.062166677
DCTN2	unnamed (-56)	1.035226234	1.062598222
DAXX	unnamed (-60)	1.277245379	1.062624891
TRPM6	unnamed (-140879)	#N/A	1.062817496
NPPB	unnamed (-49426)	#N/A	1.06326019
TRAPPC4	unnamed (-143)	0.756008055	1.063542139
TSR1	unnamed (+812)	0.814109391	1.06412132
MRPS28	unnamed (+121)	0.637890196	1.064179882
MKLN1	unnamed (-220286)	0.790645285	1.06433841
MEF2D	unnamed (-4635)	0.916950599	1.064479364
PNRC2	unnamed (+104)	1.403623773	1.064798954
KCTD7	unnamed (-135333), unnamed (-348), unnamed (+25600)	#N/A	1.065590641
NRXN2	unnamed (-329)	#N/A	1.066300561

BRF1	unnamed (+234)	#N/A	1.066399176
SLC25A3	unnamed (-163)	1.063517338	1.066552026
IREB2	unnamed (+187)	0.854839161	1.066606148
ANKS1A	unnamed (-1184)	0.986552349	1.066641514
TSTD2	unnamed (+478)	#N/A	1.066984321
MRRF	unnamed (+292)	0.731862271	1.067419377
OSGEP	unnamed (+173)	#N/A	1.067762903
C1orf27	unnamed (-4116)	1.329868987	1.067765225
CTF1	unnamed (-2304)	#N/A	1.067874466
DLGAP4	unnamed (+93958)	1.435313627	1.06804686
ENOX1	unnamed (-250087)	1.169083923	1.068401287
MARCH1	unnamed (+888711)	#N/A	1.068521975
FAM57B	unnamed (-22126)	#N/A	1.06940843
AKAP1	unnamed (-364)	1.115952918	1.069534287
RAD51C	unnamed (+99)	1.27913974	1.069789815
ZW10	unnamed (+2)	1.10057587	1.06988076
MAD2L1	unnamed (-216)	0.950558684	1.070043292
TMEM194A	unnamed (-197)	0.961225512	1.070465928
ADAT1	unnamed (+85)	#N/A	1.070499616
SEMA4G	unnamed (-59151)	#N/A	1.070700068
STK10	unnamed (-371)	1.010255239	1.070776922
C7orf45	unnamed (-2400)	#N/A	1.070786991
ERLIN2	unnamed (-63)	0.853232853	1.070862604
BCL6	unnamed (+81)	0.926501433	1.071363365
GGH	unnamed (-399), unnamed (+275)	0.966114449	1.071498077
ZCCHC3	unnamed (-6872), unnamed (-233)	1.060762289	1.071653128
MYO19	unnamed (-49)	0.878312819	1.071931598
DHFRL1	unnamed (+92)	#N/A	1.072133497
TOB1	unnamed (+38)	1.420869457	1.072460082
ERAP2	unnamed (+59192)	#N/A	1.072515424
KIF26B	unnamed (-183926)	#N/A	1.072688177
MTBP	unnamed (-106)	#N/A	1.07280295
PPIL3	unnamed (-327)	1.282557855	1.07317264
PPP2R5E	unnamed (-82)	0.58659673	1.073219345
EPB41	unnamed (-231)	1.369946188	1.073425148
SPATA2	unnamed (-242)	#N/A	1.073648976
ETFA	unnamed (-80)	0.950482677	1.074082841
PAXIP1	unnamed (-284)	1.187799722	1.074538767
CSDE1	unnamed (+79)	0.714728452	1.074613805
SRP19	unnamed (+79)	1.235515637	1.074762777
CTSA	unnamed (+308)	1.258294094	1.075848522
SLC10A7	unnamed (-434)	#N/A	1.076033803
C11orf24	unnamed (-67)	1.185855692	1.076587746
EPC2	unnamed (-278)	0.866070111	1.076724129
VDAC3	unnamed (-149)	0.973378089	1.07728053
ATG9A	unnamed (-62)	1.108289873	1.077374202
PYGO2	unnamed (-176)	1.028216718	1.077559943
ZSWIM5	unnamed (-97456)	#N/A	1.07788719
TRIM24	unnamed (-528)	0.688471413	1.07818023
CLPB	unnamed (+134)	0.925549711	1.078244867
ALG10B	unnamed (-75)	0.878898417	1.078416845

C22orf23	unnamed (-11)	#N/A	1.078437488
RAD51	unnamed (-196)	1.439286469	1.078909248
MRPS7	unnamed (+8)	0.701447299	1.079257791
FOXRED1	unnamed (+26)	1.363081362	1.079600091
EEFSEC	unnamed (-126)	0.869427105	1.079603852
SLC26A8	unnamed (-3183)	#N/A	1.079640403
SEP15	unnamed (-1035)	0.920862197	1.080041816
HSPA13	unnamed (-189)	0.577509804	1.080696354
ZNF219	unnamed (-5080)	#N/A	1.080823342
CAMLG	unnamed (-385)	1.100477281	1.080832987
NIF3L1	unnamed (+126)	1.235735237	1.080876014
ZNF410	unnamed (-131)	1.091810753	1.081008412
C21orf67	unnamed (-21)	#N/A	1.081192924
CLPX	unnamed (+73), unnamed (+717)	0.974254795	1.081244794
SF1	unnamed (-511)	1.05424675	1.081409348
ZNF547	unnamed (-120)	#N/A	1.081582139
CENPL	unnamed (-516)	1.033584836	1.081711341
BCL2L11	unnamed (-633), unnamed (+149)	0.604164567	1.081712175
TCTE3	unnamed (+129)	0.800934109	1.082184793
KDM3A	unnamed (+121595)	0.912235218	1.082441115
NOL9	unnamed (+47)	0.965640668	1.08264033
SLC5A10	unnamed (+52559)	#N/A	1.08304834
PSMD5	unnamed (-51)	0.885967641	1.083604378
PARK7	unnamed (-227)	0.881053381	1.083792301
LMF2	unnamed (-530)	0.993448536	1.083857296
G6PC3	unnamed (0)	0.901751851	1.08395794
SPNS1	unnamed (-25)	1.165338143	1.084406172
NEK8	unnamed (-2034)	#N/A	1.084572059
SCN4B	unnamed (+7461)	#N/A	1.084607186
PLCB3	unnamed (+18775)	#N/A	1.084617341
MINK1	unnamed (-89)	1.204407581	1.0846629
SLC36A1	unnamed (+147)	#N/A	1.084990806
CRIP1	unnamed (+3951)	1.02962232	1.085014534
PRPF40B	unnamed (-7530)	#N/A	1.08506172
ANKRD17	unnamed (-263)	0.96536193	1.085128787
ZBED5	unnamed (+225)	0.806277212	1.085144821
ATF7	unnamed (+89)	0.464607366	1.085236438
HEBP2	unnamed (+369325)	0.737026485	1.085591819
B3GNT4	unnamed (+22391)	#N/A	1.086053203
RFX7	unnamed (-122090)	0.830202814	1.086216597
HNRNPM	unnamed (-125)	0.968873021	1.086256683
ZMYM3	unnamed (-16)	0.619698912	1.087257189
NUP214	unnamed (-20)	0.90550352	1.0872951
GALNT1	unnamed (+318148), unnamed (+413034)	0.69622851	1.087565854
ACBD4	unnamed (-2460)	#N/A	1.088142393
RNPC3	unnamed (-34)	0.850821431	1.088478963
RET	unnamed (+28584)	#N/A	1.088858684
ZNF434	unnamed (+29)	1.120501905	1.089021102
FNTA	unnamed (-152)	1.038600046	1.089252377
C14orf2	unnamed (-17)	0.798781684	1.089442031
GJD2	unnamed (+166095)	#N/A	1.089898969

DBR1	unnamed (+188)	1.219967969	1.090651719
NPR3	unnamed (-1306)	0.648323537	1.090929547
RPL3	unnamed (+8575)	0.884165682	1.091447761
TMEM39A	unnamed (-113)	1.037261441	1.091558837
VPS37C	unnamed (+31456)	1.656077276	1.091755241
SAMD8	unnamed (-272)	1.200085941	1.091953077
ZNF740	unnamed (-139)	0.742758439	1.092026045
KDM2A	unnamed (-37616)	1.285363545	1.092090174
FLJ43860	unnamed (+75557)	#N/A	1.092263323
TBCCD1	unnamed (-3211), unnamed (-95)	1.440626361	1.092609424
CYC1	unnamed (+13)	0.905895846	1.092616884
TUBA1A	unnamed (+2492)	1.218085669	1.092864217
CREB3L2	unnamed (-273)	1.212548798	1.093264474
HES1	unnamed (+179497)	1.229763837	1.093479912
ALS2	unnamed (-76)	#N/A	1.093536636
MRPL48	unnamed (-8276)	1.040717586	1.093754897
SYVN1	unnamed (-523)	1.221452262	1.094213404
POLR3D	unnamed (-19)	0.697019202	1.094268313
MTAP	unnamed (-375)	0.784243549	1.094292892
SIK3	unnamed (-390)	0.624484779	1.09516604
FRAT2	unnamed (-128)	1.003772952	1.095561193
RBM15	unnamed (-446)	0.541964573	1.095668336
CYB561D1	unnamed (-9865), unnamed (-180)	1.201487561	1.095859684
HES7	unnamed (-15043)	#N/A	1.096550938
ADCY1	unnamed (+194543)	#N/A	1.096564131
ZNF77	unnamed (-316)	#N/A	1.096635694
RTTN	unnamed (-134)	0.952532925	1.096767065
TPD52L2	unnamed (-60)	1.217906816	1.09695619
EFCAB11	unnamed (-1188)	#N/A	1.097216837
ACTG1	unnamed (-6607), unnamed (+28432)	1.051272539	1.097264577
METTL5	unnamed (-2585), unnamed (-128)	0.964483065	1.097332971
BHLHE23	unnamed (-50182)	#N/A	1.097661306
BCL7C	unnamed (-225)	0.693465058	1.098147724
C6orf203	unnamed (+204)	1.025100427	1.098211079
TAB3	unnamed (+13)	0.861115077	1.098326369
FSCN2	unnamed (-8918)	#N/A	1.098479933
COL9A1	unnamed (-109952)	#N/A	1.098519203
ZDHHC22	unnamed (+43568)	#N/A	1.098843354
VPS29	unnamed (-151)	1.056256113	1.099023723
STX4	unnamed (-192)	1.618665322	1.099330099
C20orf11	unnamed (-83)	1.024457005	1.099897178
ABCC10	unnamed (+87)	1.429695983	1.100056641
INTS4	unnamed (-170)	0.947815495	1.100148708
RBPJ	unnamed (-1102), unnamed (+49)	0.681410453	1.101112797
APEX1	unnamed (-196)	0.558314716	1.101142395
SNF8	unnamed (-104)	0.945262726	1.101215074
HYAL2	unnamed (+1229)	0.902464993	1.101803231
PKN2	unnamed (+6)	0.740742304	1.102236256
ANAPC10	unnamed (+61)	0.846621986	1.102494773
IBA57	unnamed (+156)	#N/A	1.102679344
TXNDC9	unnamed (-15)	0.812213073	1.103005437

POLE3	unnamed (+161)	1.128100743	1.103523844
RPL13	unnamed (+5069)	0.831541557	1.103544819
KLC2	unnamed (-34859)	#N/A	1.104177515
SPRYD4	unnamed (-4056)	0.940158521	1.10497139
VIPR2	unnamed (+288451)	#N/A	1.105073781
NOP58	unnamed (+10)	0.93580932	1.105297425
MRPL2	unnamed (-17)	1.088392979	1.105337171
LMBR1	unnamed (-260)	0.490804689	1.106216583
FBXO24	unnamed (-3228)	#N/A	1.106635663
CNNM2	unnamed (+10)	1.201174651	1.107074619
NRD1	unnamed (-14)	1.214746435	1.107698737
INO80E	unnamed (-112)	1.258058119	1.108133187
SNAPC2	unnamed (+28)	#N/A	1.108631738
CENPC1	unnamed (+143)	0.681011954	1.108638291
CAND1	unnamed (-84)	0.938697516	1.110094886
ZNF292	unnamed (-25)	0.78925794	1.110292046
HHIPL1	unnamed (-40721)	#N/A	1.111015217
CDK5R1	unnamed (+335554)	#N/A	1.111326825
HERPUD2	unnamed (+95)	1.212954426	1.111679522
TARDBP	unnamed (-143)	0.92239421	1.112470494
MLL5	unnamed (-705)	0.779178982	1.112700867
LIM2	unnamed (-6460)	#N/A	1.11314393
DPAGT1	unnamed (-81)	0.823543975	1.113178207
GSK3A	unnamed (-407)	0.823330949	1.113308239
C3orf20	unnamed (-23493)	#N/A	1.113854995
TMEM18	unnamed (-106)	0.973992118	1.113906514
WDR33	unnamed (-76)	0.644949807	1.114261286
GDE1	unnamed (+66)	0.940705102	1.114557993
HOMER2	unnamed (-59038), unnamed (-33320)	#N/A	1.114635014
GPR153	unnamed (+860)	#N/A	1.114741941
RAB2B	unnamed (+20462)	1.0055591	1.115728669
PLD2	unnamed (-217)	#N/A	1.116669368
ASMTL	unnamed (-33)	0.707166179	1.116842186
TMEM116	unnamed (-18)	1.211484406	1.11713112
DDX51	unnamed (-78)	0.910751607	1.117183423
ARHGAP1	unnamed (-434)	1.451827126	1.11768018
TRIP10	unnamed (-2020)	0.852735155	1.117877238
ESYT2	unnamed (-26879)	1.318322365	1.118172394
ZNF200	unnamed (+223)	1.067990856	1.118230153
METTL23	unnamed (-80)	#N/A	1.118703471
FIZ1	unnamed (+12106)	0.912346358	1.118864817
BAG2	unnamed (+374)	0.782494074	1.119016998
CUL5	unnamed (+718)	1.120479267	1.119173038
CSNK2B	unnamed (-99)	0.987104478	1.119472635
ZNF341	unnamed (-70)	0.753369052	1.11965741
VAC14	unnamed (-72)	#N/A	1.119664648
C6orf70	unnamed (-212)	#N/A	1.119694561
TP53RK	unnamed (+172)	1.106168231	1.119742965
XKR6	unnamed (+361390)	#N/A	1.120390334
MDH2	unnamed (-209), unnamed (+118535), unnamed (+243706)	1.165534088	1.120755503

FTSJD2	unnamed (+58)	0.796705675	1.120983167
CDC25C	unnamed (-6034)	0.656331673	1.121402248
MMP23B	unnamed (+23003)	#N/A	1.122842578
PHF1	unnamed (-900)	1.15741198	1.123072949
POLR2F	unnamed (-9)	1.092077797	1.123138789
POLR2F	unnamed (-9)	1.092077797	1.123138789
BLK	unnamed (-27136)	#N/A	1.123790522
CDC40	unnamed (-298)	1.009752424	1.123852968
SMARCA5	unnamed (-130)	0.992516152	1.124099358
NPFFR1	unnamed (-80985)	#N/A	1.124147263
MUL1	unnamed (+53)	#N/A	1.124527758
ASB13	unnamed (-18043), unnamed (+43303)	0.898178499	1.1245519
GTF3C2	unnamed (+120)	0.935202915	1.124977511
ZNF691	unnamed (+78045)	#N/A	1.125075978
POLR2A	unnamed (+5)	1.000426601	1.125076056
SMARCC2	unnamed (-753)	0.893766396	1.125365601
UBE3A	unnamed (+26)	0.601382101	1.125435511
ZNF91	unnamed (+738)	#N/A	1.125793397
C1orf123	unnamed (+249)	1.056256308	1.126137782
METTL21B	unnamed (-153)	#N/A	1.127101913
USP22	unnamed (-754), unnamed (+99)	1.244263696	1.12716397
MON2	unnamed (+135897)	1.169767311	1.127215369
RBMXL1	unnamed (+301)	0.790469954	1.128065469
ZBTB5	unnamed (-167)	1.147161122	1.128261984
SPHK2	unnamed (-169)	#N/A	1.128345227
STARD13	unnamed (-257167)	#N/A	1.128383609
ATXN1L	unnamed (-32)	0.993884804	1.128638489
XRCC6	unnamed (+80)	0.922081366	1.129026094
C4orf29	unnamed (-73)	1.041487969	1.129234537
AURKAIP1	unnamed (-174)	0.881119814	1.129444538
RIC8B	unnamed (-289)	1.031560484	1.130633614
C20orf132	unnamed (+415)	#N/A	1.130640572
RPS15A	unnamed (-34), unnamed (+1006)	1.028314366	1.130717484
NPC1L1	unnamed (+50191)	#N/A	1.130792602
RBBP4	unnamed (-338)	0.814879348	1.130819753
DUS1L	unnamed (-104)	0.839071792	1.131625588
CDK13	unnamed (-216996), unnamed (-176)	0.647673201	1.131819841
SARS2	unnamed (+336)	#N/A	1.131887044
PSTK	unnamed (+562)	1.02317496	1.132956897
BTG1	unnamed (-180)	1.54721188	1.133425933
COX7B	unnamed (+104)	1.089836091	1.133472695
NUDT2	unnamed (-297)	0.966682262	1.133994683
ZNF770	unnamed (-557967), unnamed (-11)	0.902601263	1.134207255
GPR97	unnamed (-19027)	#N/A	1.134887393
GPR176	unnamed (+137952)	1.979514925	1.13499599
RING1	unnamed (-70)	0.801389101	1.135563918
OGDH	unnamed (-20)	1.538342967	1.135730205
MFSD4	unnamed (+62214)	#N/A	1.136157548
CLPTM1L	unnamed (-298)	1.235439279	1.136273923
PRKCSH	unnamed (-58)	1.242716871	1.136686894
METTL19	unnamed (-165)	#N/A	1.137102887

CDK16	unnamed (-4553)	0.982225039	1.137555282
TRAF3IP3	unnamed (+28456)	#N/A	1.138367548
TDRKH	unnamed (-955)	#N/A	1.138400766
PDPR	unnamed (+522)	0.976731047	1.138455473
CIAPIN1	unnamed (-92)	1.009471014	1.138795157
ATN1	unnamed (+13557)	#N/A	1.139574148
ZBTB2	unnamed (+736)	0.983915718	1.139636027
COQ3	unnamed (+276)	0.448289976	1.140495898
NOTCH1	unnamed (-98852), unnamed (-85747)	0.813027067	1.140778874
SFXN5	unnamed (+147)	#N/A	1.141644971
USP15	unnamed (-65)	0.684184616	1.141984775
CCNL2	unnamed (-218)	0.744323858	1.142970911
USP2	unnamed (-53)	#N/A	1.142998719
ZWILCH	unnamed (+10)	1.42062684	1.143386157
RAB21	unnamed (-143)	1.658920591	1.143732354
USP30	unnamed (-88)	0.902498509	1.143867187
C16orf5	unnamed (-77560)	1.290045911	1.143892091
MAPK14	unnamed (+34)	0.670142468	1.145347888
SAMD11	unnamed (-147033)	1.144821205	1.14597804
TCTN1	unnamed (+51)	#N/A	1.146574939
CEP85	unnamed (-265)	#N/A	1.14661087
REPS1	unnamed (-47)	0.979056714	1.146658697
SMG7	unnamed (-574)	0.800145812	1.146704078
PRPF31	unnamed (+110)	0.691692468	1.147121407
LZTR1	unnamed (-228)	0.985370123	1.147834587
PSMD11	unnamed (-105)	0.832349068	1.148702303
SRSF7	unnamed (+182)	0.810485769	1.149040593
ZNF384	unnamed (+288)	1.155123797	1.15006602
PPP1R15A	unnamed (-79), unnamed (+720)	1.745968372	1.150546027
CSAD	unnamed (+297)	0.978862834	1.150756204
ZNF689	unnamed (-40241)	0.960029875	1.151155762
TMEM87B	unnamed (+387)	0.889268986	1.151264834
TTLL12	unnamed (-463)	0.822330095	1.151364514
CAPNS1	unnamed (-11888), unnamed (-82)	0.968197688	1.151462458
DDX28	unnamed (+625)	0.926594726	1.152045848
CTAGE5	unnamed (+44), unnamed (+165359)	0.977210416	1.152529658
KIF2C	unnamed (-140)	1.09464208	1.152581301
NCK1	unnamed (+347)	1.410773149	1.152609469
GALC	unnamed (+221920)	#N/A	1.152924078
PKIG	unnamed (+41)	#N/A	1.153790293
SLC25A32	unnamed (-110)	0.570008655	1.154137828
C8orf76	unnamed (+84141)	1.270400105	1.154732838
CCNK	unnamed (+45), unnamed (+123020)	1.257432022	1.15475912
GDI2	unnamed (-390), unnamed (+128911)	0.937421692	1.155494061
COMTD1	unnamed (-72)	0.669067074	1.156275165
MUC5B	unnamed (+41535)	#N/A	1.156542752
ZNF543	unnamed (-85)	#N/A	1.156828469
IL10RA	unnamed (-39305)	#N/A	1.15785105
AIDA	unnamed (+68257)	0.338087605	1.158045066
SCAND2	unnamed (+23049)	#N/A	1.158459897
SLC38A6	unnamed (-70)	0.989851428	1.158600364

MAN2C1	unnamed (+52)	0.993302056	1.158774237
RQCD1	unnamed (-158)	0.54844451	1.158814084
ATP6V1H	unnamed (+30)	1.210975341	1.15884306
CENPQ	unnamed (-5)	0.693450694	1.159113003
C6orf228	unnamed (-233)	#N/A	1.159182585
KIF5A	unnamed (-2813)	#N/A	1.159758526
MAFF	unnamed (-1236)	1.170362389	1.160058967
P4HA1	unnamed (+36)	0.99345673	1.160187063
COQ9	unnamed (+124)	0.9622487	1.160628621
HNRNPH1	unnamed (-166)	0.761543412	1.161228033
TM9SF4	unnamed (+43)	0.675611305	1.161321159
DFFA	unnamed (-84)	0.84212166	1.161599988
COPS7B	unnamed (+97)	#N/A	1.162051707
SYNGR4	unnamed (-1112), unnamed (-97)	#N/A	1.162547345
NAA60	unnamed (-214)	#N/A	1.162598737
SCYL3	unnamed (-250)	1.191142105	1.163298433
SEC61A1	unnamed (-192)	1.486701166	1.163940123
MTMR2	unnamed (-319236)	1.092917116	1.164149037
PBLD	unnamed (+449)	#N/A	1.164230303
DPEP3	unnamed (-12903)	#N/A	1.164579398
RNF139	unnamed (-253)	0.770043718	1.164738732
CELSR2	unnamed (+13782)	0.977493244	1.165367634
CCNC	unnamed (+271)	0.825201871	1.165551169
KDM3B	unnamed (-14735), unnamed (-103)	1.116857752	1.166094967
PQLC2	unnamed (-143)	1.411798871	1.16628886
TSNAXIP1	unnamed (+26880)	#N/A	1.166836616
CNTNAP1	unnamed (-4047)	#N/A	1.167246699
TYROBP	unnamed (-23458)	#N/A	1.167759651
NDUFB9	unnamed (-172)	0.937924339	1.168195749
HGS	unnamed (+19421)	1.142417261	1.168272183
KLF10	unnamed (-151903)	1.701790653	1.1685548
TMEM201	unnamed (+38281)	#N/A	1.168912444
CD55	unnamed (-127)	0.923013276	1.169259268
SERP1	unnamed (+565)	0.993379339	1.17064946
IFRD1	unnamed (+27483)	1.307302039	1.170886091
EFNA1	unnamed (-42977)	0.817655001	1.170896881
SEC24C	unnamed (-304)	1.230744918	1.171043378
ISCU	unnamed (-35)	1.02345995	1.171295674
SRSF9	unnamed (-254)	1.04842707	1.17147616
ATP6V0D1	unnamed (-98)	1.185507331	1.171505564
MYH7B	unnamed (-82)	#N/A	1.171674669
NDUFS3	unnamed (-67)	0.851456922	1.171753807
ZNF783	unnamed (-261)	#N/A	1.171896167
NUMBL	unnamed (+27687)	1.7039598	1.172295536
RNASE4	unnamed (-4693)	#N/A	1.172569442
ACOX3	unnamed (+85), unnamed (+12228)	#N/A	1.173105284
NLRC5	unnamed (-52365)	#N/A	1.173519461
PRR3	unnamed (+238)	0.732921913	1.173856969
NDOR1	unnamed (+7)	#N/A	1.174733575
RER1	unnamed (-122)	0.969628162	1.174887434
AJUBA	unnamed (-24171)	#N/A	1.175107183

POLR3G	unnamed (-492)	0.718960363	1.175127402
TSPAN4	unnamed (-149)	0.733015667	1.175460144
STAT4	unnamed (+131197)	#N/A	1.17555359
CSH2	unnamed (+24642)	#N/A	1.175585324
PTEN	unnamed (-1146), unnamed (-117)	0.470551047	1.176349842
PPM1D	unnamed (+3)	0.823706196	1.176871558
NR6A1	unnamed (-255)	#N/A	1.17700062
TP73	unnamed (-2507)	#N/A	1.177180716
TAS1R1	unnamed (-727)	#N/A	1.177274237
AFAP1L2	unnamed (-122214)	#N/A	1.177353274
MGRN1	unnamed (-8449), unnamed (-326)	1.214466648	1.177507372
CREB3L4	unnamed (-4109), unnamed (-346)	0.432842716	1.178392345
PELP1	unnamed (+194)	1.192468709	1.178649026
GLYCTK	unnamed (+152)	#N/A	1.179279289
MLL2	unnamed (-5510)	1.191680652	1.180943505
ZYG11A	unnamed (+333)	0.727151834	1.181381855
RNF7	unnamed (+18)	0.908961009	1.181478513
BTD	unnamed (+201)	1.022164359	1.181522432
TOLLIP	unnamed (+45062)	#N/A	1.181559954
ARFGAP1	unnamed (-44)	1.012603875	1.182025163
HNRNPUL1	unnamed (-305)	1.013816303	1.18222408
PTPRS	unnamed (+292390)	1.082223993	1.182292925
MAPK1	unnamed (-70844)	0.899514768	1.182490821
FAM186B	unnamed (-17365)	#N/A	1.182598969
MED22	unnamed (-95)	0.745356356	1.182937559
ATF4	unnamed (-357)	1.142168857	1.183521192
PITX3	unnamed (-3944)	#N/A	1.183597047
TMIGD2	unnamed (+55349)	#N/A	1.18360516
CBY1	unnamed (-159)	#N/A	1.184627693
TMEM222	unnamed (+76)	0.924049138	1.184870912
CCT2	unnamed (+129)	0.97062664	1.185261509
NLE1	unnamed (-89), unnamed (+22436)	#N/A	1.186023218
NFX1	unnamed (-8)	0.785884294	1.186650442
SLC44A1	unnamed (-301)	1.001324002	1.187768376
GUCY2F	unnamed (+427665)	#N/A	1.187829876
F8	unnamed (-4417)	1.437207118	1.187832848
IPP	unnamed (+29)	1.055833736	1.187833911
CROCC	unnamed (-17066)	#N/A	1.189077251
MYLIP	unnamed (+349)	0.835087109	1.189725989
HNRNPAB	unnamed (-125)	1.399841601	1.190186979
SERTAD3	unnamed (+833)	1.184572074	1.190243303
DUS2L	unnamed (-59)	1.0568919	1.190318781
STAM2	unnamed (+108)	1.08929218	1.191864312
TBRG4	unnamed (+1)	0.918502074	1.192051541
PSPH	unnamed (+106), unnamed (+17326)	1.040877413	1.192128953
VDAC1	unnamed (-97035)	0.927240251	1.193112232
USP3	unnamed (+18)	0.835159398	1.193331972
PKNOX1	unnamed (-202)	1.085686588	1.194014946
PRKACG	unnamed (+234148)	#N/A	1.194044201
BCL7B	unnamed (+481)	0.766884209	1.194301338
MTERFD1	unnamed (-152)	1.325991147	1.195071947

PANX1	unnamed (+269), unnamed (+649)	1.343858505	1.195383677
WARS2	unnamed (+184)	0.898783569	1.195504745
HN1	unnamed (+288)	1.048403952	1.19624896
CSDA	unnamed (+1120)	0.483652348	1.197031275
TIMM22	unnamed (-231)	1.044436587	1.19728185
CHD9	unnamed (-205)	0.642850797	1.19732016
CDIPT	unnamed (-190)	0.934985597	1.19733861
C15orf61	unnamed (+459)	0.969275638	1.197530997
ARHGEF12	unnamed (-731)	0.86582239	1.197782389
BARX1	unnamed (-75383)	#N/A	1.197845024
ZNF259	unnamed (+15002)	1.181312399	1.198467339
ATP5F1	unnamed (+301)	0.950392337	1.19883965
RBKS	unnamed (-795)	1.003701765	1.199040324
FBXL19	unnamed (-1737)	#N/A	1.199147076
DCT	unnamed (-70159)	#N/A	1.199256981
SHC1	unnamed (-3576)	0.971688205	1.200152549
MECOM	unnamed (-101374)	#N/A	1.200171553
RFX1	unnamed (-358)	0.958228059	1.200179892
EIF2D	unnamed (-1)	#N/A	1.200790345
CNTNAP3B	unnamed (+542559)	#N/A	1.200948052
BAI2	unnamed (-25367)	#N/A	1.201122499
SSU72	unnamed (+68)	0.965060224	1.201446966
RBFOX2	unnamed (-95630)	1.167345417	1.202192078
CHD2	unnamed (-91050), unnamed (+3957)	0.312092403	1.202472803
TMPO	unnamed (+13)	0.607783236	1.202473529
LBX1	unnamed (+15126)	#N/A	1.203378272
IGHMBP2	unnamed (+34)	#N/A	1.203428255
KCTD5	unnamed (-10)	1.221729105	1.203839278
HNRNPA3	unnamed (+50908)	0.992627397	1.20392552
SIVA1	unnamed (-22)	0.846816414	1.203962031
TLX1	unnamed (-63262), unnamed (+82530)	#N/A	1.204126071
PTPDC1	unnamed (-53720), unnamed (+82722)	1.017005494	1.20431213
LEFTY2	unnamed (-58070)	#N/A	1.204511375
CNIH2	unnamed (+4434)	#N/A	1.204966245
CYCS	unnamed (-106)	0.731068951	1.205025749
PPP2R3B	unnamed (-142)	#N/A	1.205467954
ZNF408	unnamed (+237)	#N/A	1.205919142
RHOC	unnamed (-496)	1.088611076	1.206851749
CHST12	unnamed (+52), unnamed (+48054)	1.05939252	1.207709596
PURB	unnamed (-309)	0.503226935	1.208239131
WHSC2	unnamed (-31)	0.78043904	1.208579681
BRAT1	unnamed (+96)	#N/A	1.208742859
SLC2A1	unnamed (+34558)	0.716844009	1.20893285
PDE8A	unnamed (-1551), unnamed (-609)	0.852608057	1.209079753
PICK1	unnamed (-4801)	#N/A	1.209678711
FAM40A	unnamed (-92)	1.130785628	1.210348938
HNRNPL	unnamed (-481)	0.899825797	1.2103493
RAD1	unnamed (+68)	0.955051038	1.210493352
GATAD2B	unnamed (-379)	1.02515647	1.21054106
DCAF10	unnamed (-107)	0.774032743	1.210610301
LRP10	unnamed (-18574)	1.67100641	1.210632542

KDM5A	unnamed (-65)	0.776625975	1.211018956
ADNP2	unnamed (-74)	0.7124639	1.21122494
ULK3	unnamed (-154)	0.629569054	1.211562774
TSSK4	unnamed (+7761)	#N/A	1.211642055
KIAA0182	unnamed (-367501)	0.655426929	1.211642713
NAA40	unnamed (-97)	1.076053058	1.211849131
APOB	unnamed (+244165)	#N/A	1.211856735
ALDOA	unnamed (-12682)	0.870036904	1.211918742
CALM1	unnamed (-13784), unnamed (+2), unnamed (+361633)	0.897096704	1.211922966
ING4	unnamed (-263)	#N/A	1.212767583
IGFBP1	unnamed (-119291)	#N/A	1.212830366
IFITM3	unnamed (-35266)	1.010311809	1.213108418
PRR24	unnamed (-458)	1.135473296	1.21345781
FBXL18	unnamed (-12366), unnamed (-60)	1.340794501	1.213621243
TMEM38A	unnamed (-911)	#N/A	1.214023108
NFIC	unnamed (+68532)	0.767446867	1.21413085
C2orf49	unnamed (-165)	0.74608866	1.214662769
CTNNA3	unnamed (-68384)	#N/A	1.215526912
MYL9	unnamed (-80491)	#N/A	1.215929482
ZMAT5	unnamed (-123)	0.947679967	1.216768921
CREG1	unnamed (-160955)	1.144049823	1.217035093
POLB	unnamed (+15)	0.669408907	1.217520206
AUP1	unnamed (+18)	0.817902143	1.218087481
MBOAT7	unnamed (-500)	1.226321989	1.218239164
RPS25	unnamed (-41)	0.94152716	1.218576287
BCAS3	unnamed (-260)	#N/A	1.218896309
C11orf31	unnamed (+114)	0.886294779	1.219429491
CCPG1	unnamed (-35)	0.917351675	1.220388224
TULP1	unnamed (-10179)	#N/A	1.220406538
STYK1	unnamed (-47942)	#N/A	1.220737917
TIGD5	unnamed (-344)	1.184532169	1.220912397
MICA	unnamed (-36552)	0.935551749	1.221408632
RAB7A	unnamed (-45176)	0.736286194	1.221647421
SNAPC4	unnamed (-1902)	#N/A	1.221832385
MIB2	unnamed (+54)	#N/A	1.221848945
ESRRA	unnamed (-942)	0.979493735	1.222162665
RSL24D1	unnamed (+108)	0.777826149	1.223445902
SLC25A28	unnamed (-566)	1.102803157	1.223447526
NDUFS2	unnamed (+288)	1.256173592	1.223848644
PRCD	unnamed (+17770)	#N/A	1.224603452
GUSB	unnamed (+75)	0.942929766	1.224692939
MTRF1L	unnamed (-151)	0.930803515	1.225104047
GSTCD	unnamed (-2024)	1.370834361	1.225335626
ERRFI1	unnamed (-194)	1.145212236	1.225416203
PARD6A	unnamed (+149)	#N/A	1.225983629
ECSIT	unnamed (+287)	0.961535095	1.226892717
HIST1H3C	unnamed (+9907)	#N/A	1.228237963
WDR5	unnamed (+28701)	0.859429505	1.22848818
DHX37	unnamed (+4), unnamed (+48414)	#N/A	1.229504825
KIAA1797	unnamed (+25865)	0.881668627	1.230411143

DCAF11	unnamed (+56)	0.809530696	1.230768845
LRTOMT	unnamed (+417)	#N/A	1.231091147
LRTOMT	unnamed (+417)	#N/A	1.231091147
GP3M3	unnamed (-515)	#N/A	1.231625996
B3GAT3	unnamed (-62)	#N/A	1.233358649
NCDN	unnamed (+204)	#N/A	1.233411833
PPP1R2	unnamed (-104)	0.698084314	1.233465577
H2AFJ	unnamed (-3955)	0.914188794	1.233858527
SHANK1	unnamed (+37314)	#N/A	1.233908763
NOP14	unnamed (+205)	0.929078285	1.234226435
SYNCRIP	unnamed (+249)	0.65635974	1.235991328
PHACTR4	unnamed (+136659)	1.22253818	1.236122456
TBCA	unnamed (+92)	0.937271099	1.236333765
C1RL	unnamed (+659)	1.132142202	1.236713873
ASNSD1	unnamed (-76)	0.668047395	1.237137278
FOXK1	unnamed (-40234)	1.153290436	1.238064054
PLAGL1	unnamed (+165293)	0.786041205	1.238251564
AP2A1	unnamed (-1023)	0.909336885	1.239340979
JOSD1	unnamed (-4994), unnamed (-697)	2.168837917	1.239424879
PRUNE	unnamed (-232)	0.739021527	1.23988108
PLXNB1	unnamed (-6533)	#N/A	1.240768696
STK40	unnamed (-477)	#N/A	1.241450714
C19orf24	unnamed (+259)	0.779618025	1.242198068
MAP2K1	unnamed (-150)	1.178755745	1.242997682
PHF21A	unnamed (-122006), unnamed (+16)	#N/A	1.24333684
NOL8	unnamed (+5)	1.000618471	1.243924844
TWISTNB	unnamed (-76)	1.078341412	1.244763412
FOXJ3	unnamed (-150)	1.33271507	1.244857192
ZMPSTE24	unnamed (+37)	1.137218925	1.244985011
DAPK3	unnamed (-1596)	1.281010325	1.245374094
LNPEP	unnamed (-23320)	0.867326303	1.245532661
ZNF136	unnamed (+33)	1.143516119	1.245797554
TMEM11	unnamed (+257)	0.925927442	1.245856114
TMEM11	unnamed (+257)	0.925927442	1.245856114
NSDHL	unnamed (+55)	1.097144902	1.246055507
ZNF420	unnamed (-69)	1.55385638	1.246193161
ALKBH2	unnamed (-119)	1.078308222	1.24649871
CENPB	unnamed (+30)	1.106362188	1.246771216
ABTB2	unnamed (+183441)	1.824554741	1.24746697
PDP1	unnamed (+73774)	1.30179666	1.248176875
DNAJB12	unnamed (+96)	0.716862168	1.24826947
RAB11B	unnamed (-204)	1.024264888	1.248308241
COBRA1	unnamed (-170)	1.163901823	1.249012904
ANGPTL6	unnamed (-3684)	#N/A	1.249760231
CHERP	unnamed (-148)	1.043983529	1.249812619
FBXO5	unnamed (-386)	0.706420876	1.250451093
CAMSAP2	unnamed (-229)	#N/A	1.250480273
C17orf101	unnamed (-124)	0.761147434	1.25048719
NAP1L4	unnamed (-382)	1.031834268	1.250671153
WNT11	unnamed (-112425)	#N/A	1.251103039
GPR137	unnamed (-14041)	1.088894531	1.251772678

TMED2	unnamed (-256)	0.972389348	1.251876162
C7orf70	unnamed (-118)	0.774616175	1.252042298
MDM2	unnamed (+576)	0.844039469	1.25218854
TBC1D19	unnamed (+91)	#N/A	1.252488461
GAPDH	unnamed (-398)	0.982983837	1.25361698
HIBCH	unnamed (+130)	0.660699903	1.253915095
ZNF79	unnamed (+84)	#N/A	1.254399907
METTL2B	unnamed (-2)	#N/A	1.255461455
PTP4A1	unnamed (+1277)	0.793384788	1.256645535
CACNA1E	unnamed (-293498)	#N/A	1.256893767
OFD1	unnamed (+112)	1.11228489	1.257119069
PHB	unnamed (-160)	0.938187611	1.257149725
DOLK	unnamed (+21)	1.302714635	1.257208426
UBL3	unnamed (+220)	0.692959407	1.25725635
ZSCAN16	unnamed (+12285)	#N/A	1.259334781
RPS6KA1	unnamed (+74989)	1.473007567	1.25972355
LSAMP	unnamed (+660853)	#N/A	1.259889719
RC3H2	unnamed (-14)	0.719274983	1.259928087
SLC25A33	unnamed (-110517), unnamed (-274)	0.734662353	1.259970447
FAM82A2	unnamed (-164)	1.04115857	1.260015581
MRPL14	unnamed (+52726)	0.7660574	1.260353433
DCAF13	unnamed (+636)	0.934620832	1.260749956
MRPL21	unnamed (-50)	0.765007284	1.261272056
HAUS1	unnamed (+69439)	0.833225721	1.262250583
RFT1	unnamed (+99)	0.67404597	1.264012446
AHSA1	unnamed (-195)	1.302430764	1.264111352
ORMDL3	unnamed (-97)	#N/A	1.264415309
SH3GLB1	unnamed (+45)	0.865785701	1.265014798
PTP4A3	unnamed (+9766)	0.753411185	1.265099386
FOSB	unnamed (-24427)	#N/A	1.265868885
HECA	unnamed (-146)	1.101029717	1.266878243
MBLAC1	unnamed (+458)	#N/A	1.267224874
TMCO1	unnamed (-97)	0.858060922	1.267943599
CHRM1	unnamed (+40377)	#N/A	1.268665354
C7orf49	unnamed (+15)	1.050425297	1.268909079
CPSF1	unnamed (-52)	0.920399982	1.269009743
B4GALT5	unnamed (+102647)	1.500766791	1.270381394
LONP1	unnamed (-291)	1.020401895	1.270444253
SLC35B4	unnamed (-19)	0.910154004	1.270635125
TBC1D17	unnamed (-272)	1.000864887	1.271316695
POP7	unnamed (-30)	1.042521891	1.272513849
ZNF746	unnamed (-127049)	1.683723249	1.272673233
TIMM13	unnamed (+336)	0.805878996	1.273395624
ZNF263	unnamed (-211)	1.261941224	1.273399757
H3F3B	unnamed (-63255)	1.291780022	1.273614874
SPATA5L1	unnamed (+33)	0.774692499	1.274335851
HDAC10	unnamed (+146)	#N/A	1.274901864
ACTR1B	unnamed (+731)	0.669591387	1.274992238
PPP6R1	unnamed (-759)	1.209992974	1.275013503
ABI1	unnamed (-172)	1.21439776	1.27550614
MLX	unnamed (-4998)	0.879046369	1.275816684

ASH1L	unnamed (-595)	0.825386988	1.275887991
MZT2A	unnamed (-351)	0.891783582	1.276295732
BRAF	unnamed (-275)	0.540694661	1.276662054
SLC5A6	unnamed (+40)	1.05165447	1.277226867
PDRG1	unnamed (+52), unnamed (+72150)	1.161825339	1.277656753
SNRPD3	unnamed (+7)	0.970706047	1.278194595
PPCDC	unnamed (-8)	1.347796768	1.278315659
NPM1	unnamed (-66), unnamed (+880)	0.824925751	1.278431082
TYW1	unnamed (+74)	1.052473378	1.278796712
PSME3	unnamed (-265)	0.66685942	1.279782653
U2AF2	unnamed (-53)	1.02594845	1.280109068
CHAC2	unnamed (+66)	0.915144628	1.280449711
CHTOP	unnamed (+112)	#N/A	1.281131938
SRF	unnamed (-151)	1.281756717	1.281296065
RTN4RL2	unnamed (+32705)	#N/A	1.281904224
FGF7	unnamed (+197663)	#N/A	1.282851518
LAMTOR1	unnamed (+246)	#N/A	1.283175385
CCNT1	unnamed (+116)	#N/A	1.283219641
PRR14L	unnamed (-3335)	#N/A	1.283529663
MAN2A2	unnamed (-17960)	0.941369151	1.284057716
RNH1	unnamed (-12062), unnamed (-73)	0.960978174	1.284484876
NARFL	unnamed (-134)	#N/A	1.286989063
KIN	unnamed (-60)	0.855158435	1.287218575
MYL5	unnamed (-3538)	#N/A	1.287735405
KCTD15	unnamed (-18663)	1.002508185	1.288222562
ZBTB20	unnamed (-763032)	1.218857388	1.28823428
TBCC	unnamed (-37333)	0.836275669	1.28877466
ZDHHC7	unnamed (-33)	1.282883803	1.289094869
VMP1	unnamed (-22)	#N/A	1.28916103
U2AF1L4	unnamed (-2904), unnamed (+178)	#N/A	1.289407349
VMAC	unnamed (-1019)	#N/A	1.289435089
MLL3	unnamed (-28374)	0.895896301	1.291571674
ALDH4A1	unnamed (+82)	#N/A	1.291658938
TRAPPC9	unnamed (-5936)	0.816630887	1.291711914
E4F1	unnamed (+177)	0.907621781	1.291917179
SMG5	unnamed (+199)	1.130804932	1.29215237
HSPD1	unnamed (-119)	1.055001859	1.293125466
NME6	unnamed (-168)	0.969358739	1.293610592
ERGIC2	unnamed (+56)	0.635159602	1.293613144
SHF	unnamed (+2458)	#N/A	1.294584637
NEK11	unnamed (-202)	#N/A	1.294858201
NELF	unnamed (-32)	1.220604505	1.295085314
DHDDS	unnamed (-25)	0.957968359	1.295170326
MUTYH	unnamed (+121)	1.187179303	1.295227404
RALBP1	unnamed (-200)	1.127620568	1.295791786
AFF1	unnamed (+72107), unnamed (+285639)	0.855361752	1.29659046
M6PR	unnamed (-460)	1.004844392	1.299045351
C12orf65	unnamed (-356)	0.828904449	1.299046585
MED1	unnamed (+49)	1.146965276	1.299131114
SPA17	unnamed (+13)	0.793849964	1.300166771
SNRPC	unnamed (+289)	0.883934649	1.30107936

ARHGEF17	unnamed (-1344)	#N/A	1.301196868
RHBDD2	unnamed (+197)	1.597272424	1.301597678
SRSF10	unnamed (+215)	0.682180298	1.301783841
RBFA	unnamed (+355)	#N/A	1.302975856
PSMD9	unnamed (+135)	1.053799419	1.303238049
ZNF548	unnamed (-181)	0.728121437	1.303776451
ANKHD1-EIF4EBP3	unnamed (+733)	#N/A	1.303943714
AMDHD2	unnamed (-13)	#N/A	1.304614006
TPST1	unnamed (+288276)	#N/A	1.305681778
LAP3	unnamed (-220)	1.500804582	1.305744154
TMEM44	unnamed (+49502)	#N/A	1.30621196
NKIRAS2	unnamed (-2449)	1.054088511	1.306433899
EHD1	unnamed (-169)	1.154353952	1.30774451
ANAPC2	unnamed (-13)	#N/A	1.308867814
POLR3B	unnamed (-54923), unnamed (+100)	1.056611172	1.309477085
FOXL2	unnamed (-382404)	#N/A	1.309656952
PPP1R12A	unnamed (+347)	0.969348205	1.310100502
LRRC8A	unnamed (-66)	0.747117539	1.311832137
EMG1	unnamed (+12)	0.830296154	1.312568131
GTPBP1	unnamed (-4651), unnamed (-354)	1.428489377	1.312908873
HSD17B10	unnamed (-249698)	0.930387466	1.313241366
SIPA1L3	unnamed (-372)	#N/A	1.31336757
C6orf120	unnamed (-82)	1.191615434	1.313773483
IMMP1L	unnamed (-124)	0.4935279	1.313939555
PRDX2	unnamed (-69), unnamed (+8211)	0.954582836	1.31482657
DEGS1	unnamed (-190563), unnamed (+163)	0.880846025	1.314925046
CNPY2	unnamed (+267)	0.599888489	1.315193115
CELF1	unnamed (-64318)	0.86566717	1.315226673
AGRN	unnamed (+43961), unnamed (+49303)	0.915921158	1.315869375
UROS	unnamed (-226)	0.750069172	1.316027981
GIPR	unnamed (+13484)	#N/A	1.316091797
SFT2D3	unnamed (+130)	0.786263211	1.317790639
HIST1H4E	unnamed (+627)	#N/A	1.318110492
CHMP4B	unnamed (-208)	0.998069408	1.318182676
ZNF561	unnamed (-79)	0.722092486	1.319650049
RAVER1	unnamed (+418)	0.998978927	1.32063984
SESN1	unnamed (-882)	1.541384219	1.320724793
UBE2D2	unnamed (-96)	0.941760539	1.320765548
SPR	unnamed (-24827)	0.985124347	1.320791464
SNX21	unnamed (-102)	#N/A	1.321322846
ZNF397	unnamed (-199846), unnamed (-51)	#N/A	1.322174003
GLUD1	unnamed (-599)	1.082544904	1.322327975
ATG5	unnamed (+41)	0.903182794	1.32261199
ZFP91	unnamed (-765)	1.277288214	1.323043053
MAP4K1	unnamed (-1061)	#N/A	1.323486476
ADCK5	unnamed (-226)	#N/A	1.32360585
ANKRD54	unnamed (-4486), unnamed (-219)	0.856688595	1.324249529
TH1L	unnamed (-92322)	0.886613376	1.324859903
ZC3H10	unnamed (+10)	#N/A	1.3251323
PRPF4	unnamed (-90)	1.214992768	1.325476753

RPS14	unnamed (-162)	0.997158557	1.325809775
METTL1	unnamed (-316)	#N/A	1.326169633
SERPINI1	unnamed (+218)	0.853467112	1.32641409
LSMD1	unnamed (+349)	0.6281296	1.326641162
SLC25A10	unnamed (-8988)	#N/A	1.326672982
IDH3G	unnamed (+90)	0.989411611	1.327463068
RPL9	unnamed (-462)	0.975495217	1.329054171
SLC35F5	unnamed (+93)	0.720400156	1.329189758
AGBL3	unnamed (+72)	#N/A	1.330069102
GLCE	unnamed (-258)	1.389394202	1.331323461
ABL1	unnamed (+283)	1.006920776	1.331337888
AIMP2	unnamed (-347)	0.840971774	1.331449287
ZFP36L1	unnamed (-20544), unnamed (+2677)	1.881628789	1.332416655
SUV39H1	unnamed (+8)	0.832961885	1.332640385
SAR1A	unnamed (-144)	1.314534214	1.333348168
PKMYT1	unnamed (-3272)	1.312015797	1.33399879
PSMG1	unnamed (+104)	0.976294602	1.334675382
PEX14	unnamed (-2306)	1.152060814	1.334876863
ARIH1	unnamed (-290)	0.975939381	1.334898831
THAP11	unnamed (-8323), unnamed (-405)	0.970683237	1.335091187
PFKFB2	unnamed (-2679), unnamed (-315)	1.278480904	1.336359766
DNAJC7	unnamed (+77)	0.53023241	1.336861542
PPP1R15B	unnamed (-178)	1.104709924	1.337238443
EBI3	unnamed (+17539)	#N/A	1.337360027
DBF4B	unnamed (-18725)	#N/A	1.337664783
ETFB	unnamed (-11745)	0.801607371	1.337939225
PTRHD1	unnamed (+252)	#N/A	1.338128144
CSNK1D	unnamed (-27)	0.70560267	1.338678873
MRPS17	unnamed (-14)	#N/A	1.33870603
NAB1	unnamed (-431)	0.627615999	1.338937318
TGIF2	unnamed (+32095)	1.029017297	1.339741529
RERE	unnamed (+64)	0.886742297	1.340177135
KIAA0494	unnamed (-107)	1.127555584	1.341383755
ZNF295	unnamed (+139)	1.097137091	1.341720917
CSNK1G2	unnamed (-406)	0.991848622	1.342556173
ATP6V0C	unnamed (+65)	1.099023901	1.342591978
DHX34	unnamed (-131)	#N/A	1.342783645
HTT	unnamed (+677)	#N/A	1.342980511
LTBP4	unnamed (+65728)	#N/A	1.344219534
CDKN2D	unnamed (-198)	#N/A	1.344748868
DBP	unnamed (-1072)	#N/A	1.345455595
ACBD6	unnamed (+88)	0.891370195	1.345792317
C8orf55	unnamed (-127)	1.290396093	1.346196485
TTC3	unnamed (-139)	0.518271176	1.346360591
SLC25A11	unnamed (-140)	0.789751536	1.346648575
MPG	unnamed (+18969)	1.230113596	1.34665306
SMARCD2	unnamed (-6096), unnamed (+62)	1.11678822	1.347036997
TONSL	unnamed (-12525)	#N/A	1.347234484
INTS12	unnamed (-65)	0.868050777	1.347470288
DOT1L	unnamed (-329)	1.563714903	1.347548669
RPL27	unnamed (+454)	0.981643005	1.350093256

EIF4A2	unnamed (+211)	1.022907744	1.350390024
LIN37	unnamed (-3104), unnamed (-22)	1.401264928	1.351145432
HDAC5	unnamed (-254)	#N/A	1.351369067
ZNF146	unnamed (+243)	0.762443896	1.351550683
ANKRD49	unnamed (-152)	1.101180247	1.351601766
VEGFA	unnamed (+304519)	0.854087562	1.351758291
IPPK	unnamed (-111)	1.550268131	1.351883655
SSSCA1	unnamed (+14)	#N/A	1.353118968
ABCF1	unnamed (-39)	1.0251098	1.353520734
PRCP	unnamed (-1081)	1.153812139	1.353977664
ZNF276	unnamed (+719)	#N/A	1.354110885
WDR77	unnamed (-214)	0.813006064	1.354266528
C17orf76-AS1	unnamed (-102)	#N/A	1.35557513
PLEKHA8	unnamed (+106300)	0.994594829	1.355954165
BNIP1	unnamed (+56), unnamed (+557)	0.810225854	1.356060051
DCUN1D5	unnamed (-31)	1.004618031	1.356285918
IRF2BPL	unnamed (-69532)	#N/A	1.356399779
IFT52	unnamed (+66793)	0.9032294	1.356838342
C10orf26	unnamed (-212)	1.177243796	1.356930088
ABCC5	unnamed (-107)	0.575758399	1.356937943
DNAJA2	unnamed (-64379)	1.030423313	1.357366391
UBC	unnamed (-25666), unnamed (+258), unnamed (+885), unnamed (+4281)	1.124899484	1.358055881
DDX58	unnamed (-24658)	5.329119919	1.359019736
POP4	unnamed (-1)	0.93595495	1.359401438
EXOSC6	unnamed (-158)	0.922978277	1.360450234
ZNF296	unnamed (-2821)	#N/A	1.360789728
ZNFX1	unnamed (-509)	1.792263988	1.361395078
LENG9	unnamed (-1076)	#N/A	1.362325718
STX5	unnamed (+507)	#N/A	1.362686594
COPS5	unnamed (-1954), unnamed (+33728)	0.991527395	1.364334175
ZNRD1	unnamed (-96)	0.783878705	1.364819238
LRRC16A	unnamed (-480)	0.760094442	1.365687651
ZFAND2A	unnamed (-151), unnamed (+21852)	1.935364037	1.366099871
ZNF566	unnamed (+22)	#N/A	1.367043082
C19orf57	unnamed (+25800)	#N/A	1.367281767
EIF4B	unnamed (+472)	0.681132428	1.367727886
ICMT	unnamed (-67)	0.766415308	1.368121626
TSTA3	unnamed (-18357)	0.580601346	1.368589238
CETN2	unnamed (-265)	0.881532142	1.369387529
ZNF155	unnamed (+149)	#N/A	1.369842111
HSPA5	unnamed (-197)	1.358692408	1.369961426
ANG	unnamed (-4693)	#N/A	1.371552577
EEF1G	unnamed (-190)	1.022638611	1.371921109
SLC43A1	unnamed (+21314)	1.179587919	1.372373109
CRKL	unnamed (-129)	1.593205542	1.3728242
ZNF121	unnamed (+27)	#N/A	1.373248058
RPS26	unnamed (-55)	0.9856257	1.373494989
CCDC59	unnamed (-124)	0.651876201	1.373630761
RPS28	unnamed (-244)	1.051677113	1.375584658
ADCK4	unnamed (-199)	#N/A	1.376099388

UNC45A	unnamed (-2401)	1.135373635	1.376756709
CYB5D1	unnamed (-241)	0.826027838	1.377456694
MINOS1	unnamed (-104)	#N/A	1.377626778
UXT	unnamed (+286)	0.802635138	1.378006318
WFIKKN1	unnamed (+5643)	#N/A	1.378059186
CYP20A1	unnamed (+672)	1.075909199	1.378130486
NUMA1	unnamed (-221)	0.752851712	1.378410342
GTPBP5	unnamed (-63)	0.920166176	1.378752933
UBQLN4	unnamed (-806)	1.355179073	1.378838318
PPP2R1A	unnamed (+111)	1.139206334	1.379030761
SNX11	unnamed (-49)	1.018103064	1.379099534
PFDN4	unnamed (-11)	0.545950916	1.379575874
TXNDC15	unnamed (-27967), unnamed (+506)	0.882929851	1.380237693
DNMT1	unnamed (+2)	1.045381418	1.382272406
SUGP2	unnamed (-272)	0.791084494	1.383332073
ATG4A	unnamed (-221)	0.616452027	1.383571064
TMEM147	unnamed (-34)	0.868778092	1.384375238
SLC30A7	unnamed (+91)	1.544726612	1.384851964
ZFPL1	unnamed (-65)	#N/A	1.385135218
DDX56	unnamed (+429)	1.097705586	1.385724213
DPP9	unnamed (-154)	#N/A	1.386438606
SSBP4	unnamed (+604)	0.780131544	1.386862274
DNAJB9	unnamed (-54)	0.687494231	1.387197249
XPOT	unnamed (-181788)	1.204319934	1.387436615
ZNF181	unnamed (-350)	#N/A	1.387984766
PDCD7	unnamed (+817)	1.503861032	1.389466812
C6orf162	unnamed (-98)	#N/A	1.389920159
PTGES3	unnamed (-364)	1.05233826	1.39011658
GPR108	unnamed (-54)	0.907393064	1.390322464
NFATC3	unnamed (-470)	0.907004109	1.390620678
MSL2	unnamed (-1014), unnamed (-458)	0.974669833	1.391141841
NUP43	unnamed (-111)	1.008640517	1.392094552
RNF44	unnamed (-357)	1.320357501	1.392470038
ZNF174	unnamed (-206)	#N/A	1.393044673
ETNK1	unnamed (-80593)	0.616618166	1.394401324
TRPM5	unnamed (+22586)	#N/A	1.394527431
RNF166	unnamed (-54)	#N/A	1.395484016
BTBD1	unnamed (+55592), unnamed (+81310)	0.473759562	1.396063059
FASTKD2	unnamed (+46)	0.909681605	1.396543549
BTN2A2	unnamed (+91)	#N/A	1.396552389
CACYBP	unnamed (-379)	0.642145234	1.396725984
HRK	unnamed (+61881)	1.675979799	1.396825085
CLTB	unnamed (-323)	1.054968171	1.397218304
PDE4DIP	unnamed (+62441)	1.603789869	1.397315152
STK38	unnamed (+48)	0.755966472	1.398212615
HSP90AB1	unnamed (-256), unnamed (+587)	1.100804145	1.398386476
PLEKHM3	unnamed (-26)	#N/A	1.398901959
KSR1	unnamed (-138927)	#N/A	1.399093893
TPM3	unnamed (+8782)	0.616518214	1.401942275
POM121	unnamed (-125)	#N/A	1.4026435
NOP16	unnamed (-165)	0.968794413	1.402651391

CES2	unnamed (+3)	1.150302389	1.402854703
TAF7	unnamed (+114)	0.935058909	1.4030804
ZNF76	unnamed (-244)	#N/A	1.403530198
CENPP	unnamed (+130)	#N/A	1.403828793
FONG	unnamed (+27)	#N/A	1.404340191
SMAD2	unnamed (+181840)	0.59894465	1.40479651
NUP133	unnamed (+131)	0.987070506	1.405116896
EPB41L4A	unnamed (+258432)	0.806065602	1.405434193
GNL1	unnamed (+647)	1.096171485	1.405482144
NMRAL1	unnamed (+214)	0.804726079	1.406658765
HS2ST1	unnamed (+807)	0.83978865	1.407476831
SNAP47	unnamed (+320)	0.961952943	1.408001595
ZBTB1	unnamed (-715), unnamed (+314)	1.03815782	1.408710936
CPNE7	unnamed (-10042)	#N/A	1.40954038
SRRD	unnamed (+124)	0.972780796	1.409656917
FAF1	unnamed (-151)	0.893976426	1.411442717
C11orf2	unnamed (-89)	0.847734394	1.412000837
NOP2	unnamed (+24)	0.650132054	1.412055415
RAB4B	unnamed (-581)	#N/A	1.412121541
MLL4	unnamed (-966)	1.285179424	1.412189185
PPOX	unnamed (-67)	0.931285767	1.412326435
BFAR	unnamed (-118)	1.124433211	1.412473485
SAR1B	unnamed (-1), unnamed (+105079)	0.786920423	1.412937719
PPAN-P2RY11	unnamed (+210)	#N/A	1.413123877
RPS19BP1	unnamed (-90)	0.771489468	1.413203984
SEC63	unnamed (+156)	0.882765671	1.413813126
ZFAT	unnamed (+355)	0.893962463	1.414765564
ZNF565	unnamed (-181)	#N/A	1.414864897
NAA20	unnamed (+35269)	0.907845994	1.416342198
TRIM38	unnamed (+29812)	#N/A	1.417096136
VPS4B	unnamed (+53)	1.083389035	1.417918147
EGFL7	unnamed (-34239), unnamed (-21134)	#N/A	1.420423556
XRCC2	unnamed (+211786)	1.152610779	1.421186244
NPRL3	unnamed (+18), unnamed (+41559)	0.857548481	1.422117139
DHPS	unnamed (+274)	0.61923339	1.422771619
MEPCE	unnamed (-486)	1.168526553	1.422894077
WDR62	unnamed (-439)	#N/A	1.422988205
RNASEH2A	unnamed (-4665)	0.909395079	1.422997604
FES	unnamed (+1795)	#N/A	1.423043986
SF3B5	unnamed (-23)	1.00085978	1.423524312
CTDP1	unnamed (-35592), unnamed (-287)	#N/A	1.423722492
STYXL1	unnamed (+137)	0.948968737	1.424072843
RNF138	unnamed (-729)	0.760066535	1.425242911
ZNF394	unnamed (-4926), unnamed (-4357), unnamed (+20)	0.938703814	1.427297956
AGPAT6	unnamed (-76)	0.855342112	1.427966732
C9orf156	unnamed (+215)	0.708979793	1.428159503
CDC20	unnamed (-407)	1.0159487	1.428206324
BRMS1	unnamed (0)	1.327273322	1.428886152
TFCP2	unnamed (+51)	0.857081653	1.428993197
WDR74	unnamed (-1586), unnamed (+429)	0.753076039	1.42912275

NDUFB1	unnamed (+7)	0.955164178	1.429254979
PTPN6	unnamed (-8557), unnamed (-2776), unnamed (-1611)	1.265069722	1.430049674
CCDC86	unnamed (+97)	0.686832938	1.43009792
GPBP1L1	unnamed (-497)	0.75970386	1.430598989
PTPLAD2	unnamed (+347461)	#N/A	1.431745825
LANCL2	unnamed (+737)	0.738363367	1.431957531
RHOT2	unnamed (-31428)	0.854794149	1.432200479
NFATC1	unnamed (+243883)	#N/A	1.432680476
ARID1A	unnamed (-75190), unnamed (-2798), unnamed (-420)	1.011588498	1.433671497
PTPLB	unnamed (-358)	0.68932233	1.433722024
ZNF414	unnamed (+141)	#N/A	1.434938932
CLP1	unnamed (-213)	1.265873134	1.435189797
GEMIN8	unnamed (+303)	0.57574609	1.435380708
ABCF2	unnamed (-105)	0.694927449	1.435563394
TMEM119	unnamed (-7884)	#N/A	1.43569068
MAGOHB	unnamed (-71)	0.810540126	1.436065849
CNP	unnamed (-122)	1.292515746	1.436649819
NUP37	unnamed (-1787)	1.053591092	1.438698163
NSMCE2	unnamed (-32)	1.044648208	1.438784838
DIAPH1	unnamed (-292)	0.562210871	1.440002504
LYRM7	unnamed (-80)	0.483598991	1.440273016
IGLL1	unnamed (+298284)	#N/A	1.440519098
GATAD2A	unnamed (-148)	0.940071352	1.440657459
ESYT1	unnamed (-220)	0.654168142	1.441609714
FEM1B	unnamed (-43)	0.684169506	1.442965832
B4GALNT2	unnamed (+59440)	#N/A	1.443283964
RHEBL1	unnamed (+9158)	2.273377687	1.443477356
LSG1	unnamed (+20)	1.155757399	1.443514516
COQ7	unnamed (+184), unnamed (+19142)	0.76067531	1.444109626
TECPR1	unnamed (+244)	#N/A	1.445039408
RNASEH2C	unnamed (+189)	0.809709479	1.445308824
RDH13	unnamed (-171)	0.976822703	1.445547311
SLC35A2	unnamed (+432)	1.455326368	1.447218598
TMEM141	unnamed (+540)	0.649209848	1.449192465
PRKAB2	unnamed (+270620)	0.956385654	1.449478935
ZC3H6	unnamed (+51)	#N/A	1.449847622
TOB2	unnamed (+153)	1.361423404	1.449893071
WWOX	unnamed (+382)	#N/A	1.450169944
HRAS	unnamed (+16667)	1.084294379	1.450498445
POLR1C	unnamed (-10)	0.773955048	1.450836735
PIK3R2	unnamed (-289), unnamed (+15020)	#N/A	1.451261257
TTC4	unnamed (-17)	0.998337994	1.452742712
GUK1	unnamed (-114)	1.188226401	1.453193383
IFNGR2	unnamed (+77546)	0.934391426	1.453368422
ZNF614	unnamed (-130)	#N/A	1.45390537
FTH1	unnamed (-43)	0.867275919	1.454358209
THRAP3	unnamed (-382)	0.788881472	1.454561384
H1FX	unnamed (+37714)	1.591327336	1.455886774
NUP188	unnamed (+14)	0.904401555	1.456288753
DIMT1	unnamed (-8755)	#N/A	1.457513593

PPP6C	unnamed (+105)	0.879092167	1.458036395
ABHD2	unnamed (+243)	1.079191975	1.458262269
WRNIP1	unnamed (-260)	1.018774696	1.459048902
SUPT16H	unnamed (+150)	0.640958457	1.459655792
GET4	unnamed (-166)	0.95015532	1.460126984
EZR	unnamed (-181838)	0.84917381	1.460735957
C18orf32	unnamed (-355)	0.688160672	1.461826077
IST1	unnamed (-175)	#N/A	1.461921309
SELT	unnamed (+100666)	0.893147662	1.461961497
RAB5C	unnamed (-47)	0.964978467	1.462226546
VPS45	unnamed (+297)	0.864756756	1.46337112
APOL3	unnamed (+36762)	#N/A	1.463602574
AHCTF1	unnamed (-631)	0.590815055	1.464430333
ZNF24	unnamed (+420)	1.112453676	1.464727589
BCAS1	unnamed (+11697)	#N/A	1.465049323
NFYC	unnamed (+40)	1.028550635	1.465893455
ZNF593	unnamed (-33)	1.01951406	1.468708416
CLIP1	unnamed (+781)	0.980396884	1.469816279
LUC7L	unnamed (+48021)	0.889595097	1.470174969
AES	unnamed (+27260)	0.874293065	1.471559821
NMNAT1	unnamed (-377)	1.510943779	1.471779196
C16orf80	unnamed (-123)	1.45089316	1.472574814
JOSD2	unnamed (-397)	#N/A	1.472652559
JMJD6	unnamed (+49)	0.501456266	1.473065606
PRKACA	unnamed (-137)	#N/A	1.474168056
ORMDL1	unnamed (+310)	0.851819298	1.474216654
ZNF169	unnamed (-92145)	#N/A	1.474559974
SRSF4	unnamed (+33)	0.93224361	1.475581305
RXRA	unnamed (-188405)	1.157468196	1.478258602
BRI3BP	unnamed (-4531)	1.569822353	1.478649456
TMBIM6	unnamed (-423)	0.655828814	1.479018586
CHMP1A	unnamed (-217)	1.157119401	1.479206858
NDST2	unnamed (-10)	#N/A	1.479424387
PTP4A2	unnamed (-191)	0.916386982	1.480904286
TPRN	unnamed (-4963)	#N/A	1.481866031
RNPS1	unnamed (-293)	0.788075491	1.482189217
CYHR1	unnamed (+8142)	#N/A	1.482883905
BRF2	unnamed (+24)	1.259137843	1.483163595
JARID2	unnamed (+2559)	1.592422103	1.483472056
BTG3	unnamed (-206568)	0.55822479	1.483534189
CDK5RAP1	unnamed (-48)	1.053510411	1.485381585
FKBP5	unnamed (+165893)	0.677356604	1.48643786
TMEM69	unnamed (-1048)	0.940169585	1.486802879
PCMTD1	unnamed (-170)	0.532506448	1.488161831
UBQLN1	unnamed (+97)	1.035678795	1.489256467
ARF3	unnamed (-301)	0.70640771	1.489825992
EXOSC4	unnamed (-10)	0.827170874	1.490583892
GEMIN7	unnamed (-9)	0.82539939	1.490758654
ZBTB6	unnamed (+207)	#N/A	1.49158294
PPP1R13L	unnamed (-1458)	1.204523337	1.492036247
PTDSS1	unnamed (-219)	1.127128752	1.492720326

RBBP6	unnamed (-277)	0.8305899	1.494531489
GPR146	unnamed (-64197), unnamed (-13246)	#N/A	1.494838952
CNOT4	unnamed (-372)	0.912978651	1.496379431
PLXNA1	unnamed (-5943)	0.807926204	1.496998725
ADI1	unnamed (+76)	0.944756186	1.49730928
ZBTB4	unnamed (-135)	1.050195686	1.497942157
ISG20L2	unnamed (-748)	1.110687714	1.498239269
C19orf40	unnamed (-82)	0.820605961	1.500227009
PCBP2	unnamed (+399)	0.929024866	1.500393326
C20orf72	unnamed (-188)	1.24387393	1.501232605
MPZL1	unnamed (-7176)	0.95408693	1.501524535
PRDX4	unnamed (-54)	1.005782782	1.501552728
CCRN4L	unnamed (-53)	1.084226372	1.501900949
BRP44	unnamed (+596)	0.625739457	1.50277253
DCAF7	unnamed (-140)	1.048244158	1.504513373
ZNF559	unnamed (+535)	1.054821191	1.504767061
B4GALT7	unnamed (-72)	0.787832204	1.505196213
AFF4	unnamed (+847)	1.379839511	1.50525347
C16orf42	unnamed (-80)	0.711711358	1.506868394
KIF1B	unnamed (-392)	0.928875115	1.50769586
WRAP73	unnamed (+49)	#N/A	1.508846811
PPFIA3	unnamed (-455)	#N/A	1.508951457
AP2B1	unnamed (+121)	0.707516796	1.512703565
OPA3	unnamed (+18)	1.226318734	1.512829302
AIP	unnamed (+136)	0.927549193	1.512945233
ARPC1B	unnamed (-94)	1.020172221	1.512954777
AKR7A2	unnamed (+43)	0.838916745	1.513429879
LYRM2	unnamed (-207)	0.549195668	1.513838663
PAFAH1B3	unnamed (+111)	0.809886347	1.513988802
BAIAP2	unnamed (+66744)	#N/A	1.514040771
PDE6D	unnamed (+66658)	0.909977354	1.514358563
TBL3	unnamed (-63)	0.64696499	1.514861001
POLR2H	unnamed (+51)	0.999215023	1.516564533
SLC25A26	unnamed (+152024)	0.642550209	1.516814177
REEP3	unnamed (+520033)	0.870978533	1.517028057
WDR59	unnamed (-178)	#N/A	1.517207683
RPS3A	unnamed (+232)	0.90394065	1.517659228
SIAH2	unnamed (+59531)	1.040320534	1.518200142
PQLC1	unnamed (+7)	1.110925081	1.518220148
FDXR	unnamed (-428)	#N/A	1.518971506
RAP1GDS1	unnamed (-414)	0.400253781	1.520884663
RACGAP1	unnamed (-121)	0.898364144	1.521635866
SLC25A25	unnamed (+49612)	#N/A	1.52245809
TRAF7	unnamed (-333)	0.817170321	1.523559412
HIST2H2AC	unnamed (-1413)	#N/A	1.525057978
BCDIN3D	unnamed (-6)	0.780380467	1.526550964
JUNB	unnamed (-1405), unnamed (+2173)	1.252302544	1.526631426
SUV420H1	unnamed (-532)	0.847283423	1.527557219
RHBDD3	unnamed (-421)	1.355150135	1.528022755
MTX1	unnamed (+18408)	#N/A	1.528257824
MYO9B	unnamed (-247)	#N/A	1.52984582

CHD8	unnamed (-24803)	1.090693731	1.529961544
MRPL49	unnamed (-4432), unnamed (-7)	1.224893389	1.530187017
CD58	unnamed (+152494)	0.876565736	1.530372634
KATNB1	unnamed (-545)	0.873294811	1.531263264
MAGT1	unnamed (-4000)	1.06066434	1.532684966
GATC	unnamed (-13)	0.851084727	1.534807189
HM13	unnamed (-65), unnamed (+58466)	0.814744264	1.535221206
HMOX2	unnamed (-1659)	0.927736615	1.536762516
NOTCH2NL	unnamed (-81)	0.778998937	1.53679356
KIAA0415	unnamed (-240)	1.030293959	1.53760602
ANAPC5	unnamed (-86)	0.980559272	1.537724336
PSME2	unnamed (+5218)	1.249546605	1.541315135
DUS3L	unnamed (+293)	1.120250332	1.542912599
FKBPL	unnamed (-4)	0.95773209	1.543344173
ZNF266	unnamed (-7)	1.31075404	1.54431453
ORC2	unnamed (+279)	1.008326124	1.546081176
TXNDC17	unnamed (-57)	0.993617774	1.547594627
ITSN1	unnamed (-355)	0.98466307	1.550267524
RBM42	unnamed (-62)	0.99437232	1.553562325
TIPARP	unnamed (-2367)	1.445116404	1.553831179
XXYL1	unnamed (-564)	#N/A	1.55562268
THOC6	unnamed (+179)	0.965126556	1.555872014
TFB1M	unnamed (-49)	0.924518659	1.555931851
RPS6KB2	unnamed (-77)	#N/A	1.557135985
ABT1	unnamed (-132)	1.311046579	1.559581516
SF3A1	unnamed (+32)	1.120330436	1.560692369
PRR7	unnamed (+6354)	0.76842892	1.561464437
EMD	unnamed (-145)	0.810710828	1.562548946
CSPP1	unnamed (-87)	0.64206322	1.564178419
MAD1L1	unnamed (-99)	1.159038596	1.564909609
GTF2A1	unnamed (-407), unnamed (+1351)	1.04415833	1.566027871
ACYP2	unnamed (+268)	0.980493954	1.567383126
TOR1A	unnamed (+8)	0.922286503	1.568413597
PMVK	unnamed (+37)	1.203337021	1.569727244
TAGAP	unnamed (+45006)	#N/A	1.570015591
MRPS14	unnamed (-115)	0.680476443	1.571389886
U2AF1	unnamed (-220)	0.844427529	1.57173621
KHSRP	unnamed (-508)	1.202053826	1.571905456
SOX7	unnamed (-109463)	#N/A	1.575259767
C22orf32	unnamed (+78)	0.724981089	1.576382004
PURA	unnamed (-6467), unnamed (-82)	0.870139899	1.576620255
CEBPE	unnamed (-1386)	#N/A	1.578613417
CCM2	unnamed (-294)	1.729594745	1.578748668
MECR	unnamed (-84)	0.685484417	1.579240611
PPM1H	unnamed (+332171)	1.912343336	1.580741713
HMG5	unnamed (+5)	0.722752657	1.581324801
IQCE	unnamed (-3336)	0.986584546	1.584166784
IRF2BP2	unnamed (-1083)	0.997220729	1.584661252
LRFN3	unnamed (-5353)	#N/A	1.585127116
SLC39A6	unnamed (+61790), unnamed (+156676)	0.262305952	1.585489995
POR	unnamed (-30)	1.265310357	1.58610309

LZIC	unnamed (-269)	0.997879192	1.588069218
SF3A3	unnamed (-88)	1.376759351	1.588741101
DRG1	unnamed (+7)	1.047182323	1.589029216
PEX10	unnamed (-20)	#N/A	1.58916053
B3GALNT2	unnamed (-181)	0.776520652	1.589929495
AGPAT3	unnamed (+73998)	1.077325688	1.590326801
ZNF771	unnamed (-6862)	#N/A	1.591100579
UBE2I	unnamed (-479)	0.906748006	1.593842981
RGL2	unnamed (-185)	0.814351384	1.59399762
LSM14A	unnamed (-296)	0.981989629	1.594654314
IGFLR1	unnamed (-2638)	#N/A	1.59734203
TET2	unnamed (+101)	#N/A	1.597695171
TSHR	unnamed (+264074)	#N/A	1.598052424
TMEM102	unnamed (-120)	#N/A	1.598926812
SH3GL1	unnamed (-1954)	1.649986314	1.601043004
SRCAP	unnamed (-48539), unnamed (-926)	#N/A	1.602787543
THAP7	unnamed (+5)	0.792762576	1.604453831
SYNGR2	unnamed (-100)	0.856280925	1.607158569
MKNK2	unnamed (-250)	1.339867597	1.612484092
TMEM237	unnamed (+776)	#N/A	1.613786439
HES4	unnamed (-761)	1.768672884	1.614431748
PLAA	unnamed (-11), unnamed (+54581)	1.267536716	1.61546742
NDUFS7	unnamed (-60)	0.881041674	1.615655621
CCDC124	unnamed (-393)	0.674925887	1.618124803
ETF1	unnamed (-147)	0.721944222	1.61860839
C6orf89	unnamed (-33)	0.925085277	1.618675497
STK19	unnamed (+474)	0.863945628	1.621237178
LARS	unnamed (-14)	0.670139807	1.623156663
HSPA4	unnamed (-235)	0.777450748	1.623407797
FANCI	unnamed (-206)	0.99116134	1.623465227
SAE1	unnamed (+95298)	1.284288547	1.623846435
TRIAP1	unnamed (-13)	1.011397139	1.624836175
RAB1B	unnamed (-713)	0.666694544	1.625004433
MTCH2	unnamed (+62)	0.832047362	1.625120245
STK38L	unnamed (-8)	2.832799346	1.625336119
KIAA0319L	unnamed (-560)	1.00850976	1.625726432
WDR19	unnamed (-59)	0.851307925	1.626199897
MDH1B	unnamed (-108)	#N/A	1.626812269
AKT1S1	unnamed (+202)	0.882854701	1.627000473
FBXW2	unnamed (+98)	0.872604501	1.627988976
NUP62	unnamed (-307)	0.93896279	1.629564844
RPL35	unnamed (-193), unnamed (+8892)	0.959525292	1.63245627
ERH	unnamed (-194)	0.875223498	1.633365924
PHF15	unnamed (-1066), unnamed (+1656)	1.041643896	1.634389166
TRIM27	unnamed (+27679)	0.944159572	1.635341435
CNST	unnamed (-87)	0.969122494	1.636199538
HIST1H3D	unnamed (+2235)	#N/A	1.641284549
C20orf43	unnamed (+29)	0.983855101	1.641359893
C20orf3	unnamed (+39)	0.925120368	1.645854567
HEXDC	unnamed (+385)	#N/A	1.646037676
AP4M1	unnamed (-811)	#N/A	1.648054553

TIMM44	unnamed (+169)	0.767248286	1.648516253
NDUFB2	unnamed (-87)	0.723435298	1.64970055
AZIN1	unnamed (+225), unnamed (+56511)	1.166676181	1.650006681
FLNA	unnamed (-4446)	1.448166383	1.6501881
FBLN2	unnamed (+101496)	#N/A	1.653277
ERCC1	unnamed (-20006)	0.486157233	1.654277011
ENAH	unnamed (+178006)	0.390960441	1.655149079
CTU2	unnamed (-8)	#N/A	1.657118103
ZNF696	unnamed (-12486)	#N/A	1.658864452
CD164	unnamed (-2)	0.924846193	1.661882231
ERP29	unnamed (-111)	1.217772077	1.663886359
TUBB4B	unnamed (-4667)	#N/A	1.664540147
ARF1	unnamed (+20715)	1.139588631	1.665245832
NCL	unnamed (+547)	0.572356112	1.666860491
EEF1A1	unnamed (+416)	0.971892882	1.671278343
HBP1	unnamed (+927)	0.941265073	1.672545832
NPTN	unnamed (-242)	1.450636947	1.673374868
MRPL55	unnamed (-1), unnamed (+5937)	0.976669347	1.676349233
FAM63A	unnamed (+113)	0.708844896	1.677042498
PGD	unnamed (+118)	1.112471858	1.68010846
ITPRIPL2	unnamed (-27195)	0.820016899	1.684947693
FAU	unnamed (-37)	0.997253784	1.684960678
GNB2	unnamed (-73)	1.13588171	1.686179206
EDEM3	unnamed (-208)	1.066260663	1.687339081
RXRB	unnamed (-15)	0.640781449	1.687719358
ZNF687	unnamed (-656)	#N/A	1.688211818
ZFAND3	unnamed (-166)	0.920745099	1.688242196
SCAND1	unnamed (+41)	1.085664883	1.68858453
ZNF527	unnamed (+21)	#N/A	1.689943997
SMG9	unnamed (-288), unnamed (+349)	#N/A	1.691363496
SNRPD2	unnamed (+10457)	0.590182829	1.691424803
GBA	unnamed (+17755)	#N/A	1.693112566
HSPB1	unnamed (-135947), unnamed (-10776)	1.006745878	1.694745203
PPP2R5A	unnamed (-732)	1.430804966	1.696801495
GAA	unnamed (+6)	#N/A	1.697682366
PEF1	unnamed (+348)	1.185493219	1.698615707
TMEM170A	unnamed (-185)	0.878924437	1.701590776
NCAPH2	unnamed (+20)	#N/A	1.704395332
PDE4A	unnamed (-3846)	0.992569141	1.707952018
LSR	unnamed (-345)	#N/A	1.708610625
TRMT2A	unnamed (+12)	#N/A	1.708859524
DSTYK	unnamed (+5)	1.283723247	1.710566016
LRIG1	unnamed (+279536)	#N/A	1.7106484
SCYL1	unnamed (-102572), unnamed (-27637), unnamed (-25565)	1.188099993	1.71262445
TMEM179B	unnamed (-719), unnamed (-58)	0.741932409	1.715170175
BRD2	unnamed (-3893), unnamed (-1819), unnamed (-863)	0.93860673	1.718296298
SLC31A2	unnamed (+38)	#N/A	1.719686148
ZNRF2	unnamed (-149646)	#N/A	1.720588286
STT3A	unnamed (-291)	1.16030288	1.721312415
ADPRHL2	unnamed (-50)	1.017964419	1.721835367

H6PD	unnamed (+32570)	1.499712759	1.722648728
TXNL1	unnamed (+252)	1.112597171	1.722691355
PAK1	unnamed (-297)	0.969108801	1.722972012
TOR1AIP1	unnamed (+535)	0.749799946	1.723098956
ANP32E	unnamed (-39)	0.932438399	1.728398396
TBC1D22A	unnamed (-100)	0.763419465	1.732085199
TOE1	unnamed (+324)	1.091272725	1.732471519
SLC25A4	unnamed (-84)	1.220426363	1.736810372
PITPNM1	unnamed (-3252)	#N/A	1.736853893
MIF	unnamed (-122)	0.910121344	1.739039365
SBDS	unnamed (-1303)	#N/A	1.739322744
INO80C	unnamed (+197)	0.926658149	1.740272677
DMAP1	unnamed (-108)	0.652487996	1.74419847
RBM18	unnamed (-31)	0.829245869	1.748052617
MYL6	unnamed (+214)	0.809414276	1.75145814
HNRNPK	unnamed (+107)	1.00119959	1.75302498
GINS4	unnamed (-57)	0.929406059	1.753168941
ATP5C1	unnamed (-43)	0.729535555	1.754472895
PLEKHA4	unnamed (-4485), unnamed (-3686)	#N/A	1.757055698
BAK1	unnamed (+53)	#N/A	1.757715792
ACAD9	unnamed (+28)	0.892056179	1.759481469
TAB2	unnamed (-949), unnamed (-201)	0.867300123	1.759553466
DDX39B	unnamed (+525)	#N/A	1.765501428
HSBP1	unnamed (-10)	0.840172923	1.76589182
MBTPS1	unnamed (+132)	0.955533321	1.766298512
GPAA1	unnamed (-4012)	0.751986859	1.76750749
SLC16A3	unnamed (-15517)	0.823441554	1.770404286
MAP2K2	unnamed (-63)	1.063830503	1.772242884
SLC35C2	unnamed (+225)	0.973658646	1.772332196
SLC39A3	unnamed (-170)	0.848893424	1.77661794
SLC25A19	unnamed (-126)	0.941288061	1.779874033
FRMD8	unnamed (+35935), unnamed (+110870), unnamed (+112942)	1.286015385	1.783116702
VRK3	unnamed (+291)	0.774789533	1.785662924
NUDT19	unnamed (-87)	1.364247682	1.788373023
TXNDC12	unnamed (-58)	1.050039795	1.792387077
PA2G4	unnamed (-62)	0.695421902	1.793647125
PRADC1	unnamed (-213)	#N/A	1.796811544
ECI1	unnamed (+36)	#N/A	1.803593467
CD2BP2	unnamed (+106)	0.925936215	1.805117893
PTOV1	unnamed (-112)	0.804405298	1.805155447
KAT5	unnamed (+2)	0.925285407	1.810547322
RRP1	unnamed (-9)	1.044128027	1.811352318
GRB2	unnamed (+125)	0.806358863	1.811383315
SAP18	unnamed (-150)	0.90988374	1.813436113
SCAMP3	unnamed (-35)	1.118688684	1.813634887
AGXT2L2	unnamed (-2535)	0.995673348	1.817324918
AKIRIN1	unnamed (-302)	0.877646451	1.819116113
PCMT1	unnamed (-3032)	0.811815358	1.819270549
ATAD3A	unnamed (-503)	0.774519437	1.820907629
GPATCH3	unnamed (+157)	1.142975024	1.821062474

AATK	unnamed (+64181)	#N/A	1.821739614
ITPKC	unnamed (-19)	#N/A	1.823005928
FZD6	unnamed (+429)	1.446028703	1.823152035
MYBL2	unnamed (-9337)	1.186150042	1.823255602
ANKZF1	unnamed (-56)	#N/A	1.826431447
C19orf42	unnamed (-59)	0.776531832	1.8269952
KDM5B	unnamed (-151)	0.86812509	1.828868572
FUS	unnamed (+247)	0.707600647	1.829277383
TRA2A	unnamed (+100)	0.953370049	1.829462176
SNRNP70	unnamed (+30)	1.110061918	1.833583359
MRPL4	unnamed (+181)	0.847457531	1.834241142
BBC3	unnamed (+6645)	#N/A	1.837321932
MAPKBP1	unnamed (+22)	#N/A	1.838260726
RAB8A	unnamed (-14)	0.971884226	1.842974859
MRPL17	unnamed (+138)	0.930169234	1.845010627
SKIL	unnamed (-1988)	0.896402322	1.845190715
ARMC6	unnamed (+265)	1.285654586	1.847052136
EEF1D	unnamed (+115)	1.144129888	1.854762668
ACVR2A	unnamed (-769)	1.338129036	1.859325558
AP4B1	unnamed (-403)	1.170308416	1.863410074
CIITA	unnamed (+67263)	#N/A	1.866250254
CHIC2	unnamed (-66)	1.003442204	1.866341678
GTPBP3	unnamed (-2685)	0.898174664	1.869193258
PSMB2	unnamed (+235)	0.963430821	1.871341354
UQCRQ	unnamed (-33)	0.934101802	1.87182132
MAPKAPK2	unnamed (+966)	1.12168584	1.87232462
NETO2	unnamed (+105932)	0.937407163	1.879033345
BID	unnamed (-226908)	0.91787543	1.880161458
CDK10	unnamed (+13617)	0.696963683	1.880551173
RPL7A	unnamed (-2)	0.716754722	1.882271516
USP4	unnamed (-141)	0.948464967	1.887038614
C19orf68	unnamed (+33246)	#N/A	1.887641299
IMP3	unnamed (+80)	0.817901557	1.888777754
SSNA1	unnamed (+16)	0.837147675	1.889696648
THAP8	unnamed (+320)	#N/A	1.893122697
CD320	unnamed (+165)	0.998693193	1.894187787
DOHH	unnamed (-144)	#N/A	1.894589524
POLR2I	unnamed (-12824)	0.667135652	1.897354097
AP2S1	unnamed (-9339)	0.953770076	1.897440591
B2M	unnamed (-142), unnamed (+17378)	1.137655106	1.897783651
RFC3	unnamed (-275138), unnamed (+43)	1.076977973	1.899010034
WASF1	unnamed (-82)	0.798114753	1.901065702
CKS1B	unnamed (-319)	0.660992255	1.906325236
ZNF697	unnamed (-867)	2.410171283	1.907151969
RPS9	unnamed (+190)	0.640489092	1.910187964
MAGOH	unnamed (+32)	0.945156335	1.91295633
MAU2	unnamed (-111)	1.565732894	1.913281592
NR1H2	unnamed (+212)	0.86377576	1.914216746
KIAA2013	unnamed (+18067)	0.985269466	1.914216781
PSENEN	unnamed (-336)	1.092667588	1.917096108
C1orf43	unnamed (+103)	0.779820221	1.921893808

CAPN10	unnamed (-447)	#N/A	1.927343869
UBE2W	unnamed (-263)	0.712628625	1.928701855
IFT46	unnamed (+72)	1.294959396	1.934882308
CDC37	unnamed (+4)	1.097825129	1.937215048
CLPTM1	unnamed (-177)	0.926074326	1.939982157
THAP2	unnamed (+127)	#N/A	1.946461588
PSME1	unnamed (+5259)	0.96384403	1.947463071
RAB27A	unnamed (-19732)	0.818956017	1.948327358
HAUS8	unnamed (-1)	#N/A	1.95019932
TLE3	unnamed (-68)	1.011375974	1.95968261
WTAP	unnamed (-90)	0.782980595	1.961481927
SSR4	unnamed (+247)	1.118749513	1.965052369
COPE	unnamed (+227)	1.190990623	1.965678818
PSMD2	unnamed (-277)	1.297436627	1.965768
STX18	unnamed (-21)	1.228193727	1.967823401
SPTSSA	unnamed (-272)	#N/A	1.968815656
MCL1	unnamed (+583)	0.954601758	1.969350752
MED29	unnamed (-384)	1.494529126	1.979795043
EIF1AD	unnamed (-75)	0.875580015	1.98477734
SKP1	unnamed (-48974)	0.923094984	1.987369173
TMEM79	unnamed (-1649)	#N/A	1.989990567
IDH2	unnamed (-80)	0.90136557	1.996950109
ATMIN	unnamed (-125)	0.827822081	1.999576017
PHF8	unnamed (+901)	#N/A	2.004493573
TRAF4	unnamed (+536)	1.174941553	2.005418515
PIK3R1	unnamed (-605)	#N/A	2.005555059
CABIN1	unnamed (+145384)	1.042631224	2.007138425
MARCKS	unnamed (+1788)	0.960789871	2.009804606
ZNHIT2	unnamed (-4539), unnamed (-114)	#N/A	2.019295425
TRIM26	unnamed (+360)	1.82080721	2.020659534
EWSR1	unnamed (+337)	1.060119269	2.026752039
RAD23A	unnamed (+227)	0.777979508	2.027760569
TAP2	unnamed (-112)	1.570724283	2.030786301
MEF2BNB	unnamed (+245)	#N/A	2.03279205
MFSD8	unnamed (+751)	1.071391665	2.035862409
SH3BGR1	unnamed (+133)	0.666705463	2.03680393
MRPS12	unnamed (-394)	1.243618056	2.046260635
NDUFA11	unnamed (+191)	0.772588349	2.052650102
CEP89	unnamed (-197)	#N/A	2.061855976
UBE2H	unnamed (-51)	1.182496191	2.066926871
MLEC	unnamed (-447)	0.763131606	2.070718943
ADAMTS4	unnamed (-3380)	#N/A	2.07781709
PIGC	unnamed (-76)	1.105847827	2.079005983
ERVMER34-1	unnamed (+29208)	#N/A	2.081976683
MTCH1	unnamed (-103)	1.279867644	2.090151439
RPL10	unnamed (+34)	0.991856863	2.094445196
FADD	unnamed (+152)	1.059837944	2.096408657
HSPA8	unnamed (-521)	1.145037282	2.097804369
SUGP1	unnamed (-198)	0.970114597	2.101438574
DEM1	unnamed (-21)	#N/A	2.117371307
ANKRD11	unnamed (-281)	0.955222501	2.122459727

RAB35	unnamed (+565)	0.771696496	2.125028175
RAB35	unnamed (+565), unnamed (+29681)	0.771696496	2.125028175
RPS19	unnamed (-8)	1.015219549	2.131801392
CAMK2D	unnamed (-788)	#N/A	2.135925866
TIMM50	unnamed (+438)	0.925659023	2.138139172
RPS2	unnamed (-69)	0.537897563	2.140697361
ZNF473	unnamed (-698)	1.017503052	2.14335353
RCC1	unnamed (-11993), unnamed (-83)	0.711177157	2.145147227
SLC12A7	unnamed (-62466)	1.313643274	2.145470622
RPL18	unnamed (-188)	1.059230426	2.147853019
AHCY	unnamed (+84)	0.937433724	2.167651358
DUOX1	unnamed (+68723)	#N/A	2.170176135
SUPT5H	unnamed (+57)	1.087125951	2.173809642
HNRNPU	unnamed (+90)	0.754989301	2.176639366
RFXANK	unnamed (+147)	0.849293356	2.177060947
ENSA	unnamed (+260)	0.467389817	2.180985449
ADSS	unnamed (-72)	0.596853083	2.181633456
BCR	unnamed (+101659)	1.047887079	2.186743854
EFCAB2	unnamed (+1190)	0.495778836	2.188109294
ZNF576	unnamed (-182)	0.829364892	2.188602485
SOCS1	unnamed (+311721)	#N/A	2.195738857
DNAJC12	unnamed (-11354), unnamed (+73604)	1.537431568	2.205698029
MMP14	unnamed (+16593)	#N/A	2.206349104
SCLT1	unnamed (+121), unnamed (+282884)	#N/A	2.206389101
NDUFB7	unnamed (-77)	0.850078697	2.216907105
PSMB8	unnamed (-741)	#N/A	2.217708894
PNKP	unnamed (-2225)	0.575282902	2.226389361
C12orf44	unnamed (-297)	1.21564888	2.22803721
GRWD1	unnamed (-158)	0.616640091	2.24923128
MAPRE2	unnamed (+62940)	1.162182849	2.249550951
BCAP31	unnamed (-351)	0.975505118	2.255394444
SLC3A2	unnamed (+25151)	1.122504898	2.264216784
TMEM183B	unnamed (-104)	#N/A	2.286170247
ARHGAP35	unnamed (-58391)	#N/A	2.2882047
NAGK	unnamed (+159)	1.436563703	2.293213249
NIPAL3	unnamed (-273)	#N/A	2.296347397
CALML3	unnamed (+98331)	#N/A	2.320752536
HUWE1	unnamed (+2652)	0.833467894	2.327095883
TRIM25	unnamed (-69)	1.12083864	2.328454446
SDF2L1	unnamed (+99)	1.259637714	2.331531198
PFKFB3	unnamed (+52)	1.923254857	2.342817319
CARD8	unnamed (+45909)	0.726829196	2.345079559
CDC42	unnamed (+69)	1.204038839	2.362221969
FUNDC2	unnamed (+351)	1.041668465	2.363867595
UBAP2L	unnamed (-155)	0.922917353	2.364126442
PAF1	unnamed (+100)	1.163752723	2.374435968
RPL18A	unnamed (-398)	#N/A	2.376273965
C12orf62	unnamed (-71)	1.054930161	2.377495043
TXNIP	unnamed (+94)	1.350523947	2.385848016
STAT1	unnamed (-6149)	1.040016651	2.386774864
BANP	unnamed (-177)	0.957019946	2.432029115

PIH1D1	unnamed (-1635), unnamed (+47)	0.631088801	2.438139867
TMPRSS11E	unnamed (-97285)	#N/A	2.449048455
CENPN	unnamed (+805)	0.664247427	2.453672381
ALDH16A1	unnamed (-1405), unnamed (+277)	#N/A	2.45397714
EIF3K	unnamed (-18)	0.689214094	2.458376805
NUCKS1	unnamed (+1046)	0.681168339	2.473687014
ST6GALNAC2	unnamed (+28254)	#N/A	2.491041614
ZNF416	unnamed (-197)	1.280420727	2.491216699
STK25	unnamed (-246)	0.861162802	2.506155489
KPTN	unnamed (+151)	#N/A	2.509805917
PACS1	unnamed (+152491)	0.791081477	2.520960594
PTGES2	unnamed (+10383)	1.02129832	2.540538468
SLC39A7	unnamed (-156)	#N/A	2.557763396
SEPT2	unnamed (+178)	0.674374367	2.568968224
NANS	unnamed (-183)	1.259086524	2.571435502
PDE7A	unnamed (-605)	0.607095244	2.573707128
G6PD	unnamed (-574)	0.725979421	2.594102533
IRF9	unnamed (+735)	1.699728746	2.600780255
TFPT	unnamed (+155)	0.815280534	2.610145421
UFC1	unnamed (+293)	0.981584914	2.639780944
PTMA	unnamed (-95868), unnamed (+6081)	0.856772015	2.641171335
RPS11	unnamed (+68)	0.852830932	2.654780051
DDX49	unnamed (-512)	1.018400481	2.666326127
COPS8	unnamed (+417)	0.881237823	2.668109323
IRF6	unnamed (+21670)	#N/A	2.692001173
MNT	unnamed (+1146)	0.853635119	2.692218417
TMPRSS13	unnamed (-17633)	#N/A	2.717064314
PIP5K1P1	unnamed (+78431)	#N/A	2.719994589
KIAA0513	unnamed (+218013)	#N/A	2.722071185
PHF5A	unnamed (-251)	0.84728864	2.738882319
PRDX1	unnamed (+989)	1.075827417	2.757005265
HLA-E	unnamed (-144329)	1.133503632	2.76884915
HLA-C	unnamed (-94906)	1.188111404	2.770088711
SLC39A1	unnamed (+137), unnamed (+3900)	1.331863385	2.775593863
PRPF19	unnamed (-233)	0.993022617	2.785043675
RAD23B	unnamed (-257)	1.11744347	2.856124233
UBE2S	unnamed (-94)	0.651320903	2.88452381
TRAPPC3	unnamed (-41)	1.132898582	2.887200198
C9orf3	unnamed (-32959)	1.394967658	2.908442045
CBLL1	unnamed (-319)	1.121083345	2.937550173
ERF	unnamed (-13249)	1.109177885	2.965929873
IFI30	unnamed (-5543)	0.943156062	3.037746602
CD3EAP	unnamed (+303)	0.791498085	3.121251159
IFNGR1	unnamed (+434)	1.158701341	3.133398292
CSGALNACT2	unnamed (-32833)	1.073248293	3.180506237
SLC2A12	unnamed (-126068)	#N/A	3.182672648
CALM3	unnamed (-405)	0.913568806	3.184634046
TAF15	unnamed (-341)	0.91279518	3.186928482
MRPL42	unnamed (+251)	0.503114896	3.202869665
KLRG2	unnamed (+124152)	#N/A	3.234625022
ATP1A1	unnamed (+45426)	0.926398741	3.302282033

BPTF	unnamed (-334)	0.784165375	3.319161062
NGFR	unnamed (+72774), unnamed (+74992)	#N/A	3.379452895
S100A2	unnamed (-2895)	1.454259078	3.396488952
MR1	unnamed (+156627)	1.436793483	3.493944006
CCDC47	unnamed (+49)	0.540485809	3.5024719
USP46	unnamed (-63097)	0.813935851	3.517557364
BIRC7	unnamed (-178707)	#N/A	3.612963221
GCLC	unnamed (-2874), unnamed (-94)	1.183671341	3.673127925
NDUFA10	unnamed (-60)	1.106535274	3.69187719
DTYMK	unnamed (-341)	0.88320209	3.791687015
CAB39L	unnamed (-42363)	1.020157207	3.906965957
CKAP4	unnamed (-54800)	1.378699899	4.18777361
HNRNPA0	unnamed (-234)	1.270926182	4.237285013
PIK3R3	unnamed (-191)	0.521727163	4.261931103
ANK1	unnamed (+68025)	#N/A	4.339218659
HIST1H1A	unnamed (+25157)	#N/A	4.382749496
GLDC	unnamed (-35765)	#N/A	4.495179934
SEPW1	unnamed (+2)	1.332236756	4.566168785
ATF5	unnamed (+706)	1.030103723	4.573471061
POP1	unnamed (+62)	1.271689186	4.59199336
NMB	unnamed (+4062)	#N/A	4.744044724
SOD2	unnamed (-267)	1.33308831	5.334034639
RELB	unnamed (-158)	1.675425029	5.45186136
SLC12A2	unnamed (-787)	0.983240724	6.236767116
CHODL	unnamed (-425314)	#N/A	6.626341395
EPB41L2	unnamed (-126)	0.877262773	7.213376882
GPOR	unnamed (+50280)	1.019785325	7.771619046
ALCAM	unnamed (+43)	#N/A	8.061643461
ST8SIA1	unnamed (-209835)	#N/A	9.46297885
IFI6	unnamed (-53379)	1.401050742	11.21594546
SGK1	unnamed (+139339)	1.182912762	14.21097432
GENE	BRCA1-common-binding-position relative to TSS	GSE22259	GSE30822
ABCC6P1	unnamed (+218080)	#N/A	#N/A
AK300656	unnamed (-165)	#N/A	#N/A
APITD1-CORT	unnamed (+271)	#N/A	#N/A
ARMC12	unnamed (-4924)	#N/A	#N/A
ASUN	unnamed (+39)	#N/A	#N/A
AX746903	unnamed (-173084)	#N/A	#N/A
AX747191	unnamed (-16198)	#N/A	#N/A
B7H6	unnamed (-116)	#N/A	#N/A
BIVM-ERCC5	unnamed (+38644)	#N/A	#N/A
C14orf176	unnamed (-6260)	#N/A	#N/A
C1QTNF9B-AS1	unnamed (+44)	#N/A	#N/A
CCDC64	unnamed (+97314)	#N/A	#N/A
CEP170P1	unnamed (+75351)	#N/A	#N/A
CHURC1-FNTB	unnamed (+65)	#N/A	#N/A
COL28A1	unnamed (-104942)	#N/A	#N/A
DCDC2B	unnamed (-3474)	#N/A	#N/A
DEFB132	unnamed (+32955)	#N/A	#N/A

DEGS2	unnamed (-33465)	#N/A	#N/A
FAM156B	unnamed (+22248), unnamed (+35940)	#N/A	#N/A
FAM187A	unnamed (-3229)	#N/A	#N/A
FAM210A	unnamed (-57)	#N/A	#N/A
GPR148	unnamed (+69132)	#N/A	#N/A
HSPE1-MOB4	unnamed (+38)	#N/A	#N/A
ISY1-RAB43	unnamed (-200)	#N/A	#N/A
KDM4B	unnamed (+79300)	#N/A	#N/A
KIAA1245	unnamed (+39319)	#N/A	#N/A
KLLN	unnamed (+116)	#N/A	#N/A
LCN10	unnamed (+14735)	#N/A	#N/A
LOC10050642 2	unnamed (+826214)	#N/A	#N/A
LOC150776	unnamed (+29)	#N/A	#N/A
LOC283922	unnamed (-102)	#N/A	#N/A
LRCH4	unnamed (-192)	#N/A	#N/A
MSH5	unnamed (-114)	#N/A	#N/A
NDUFC2- KCTD14	unnamed (+275)	#N/A	#N/A
NEDD8-MDP1	unnamed (+18889)	#N/A	#N/A
NOTO	unnamed (-24776)	#N/A	#N/A
NREP	unnamed (-183950)	#N/A	#N/A
NT5C1B- RDH14	unnamed (-777358)	#N/A	#N/A
OR2F2	unnamed (-33146)	#N/A	#N/A
OR4F16	unnamed (-92054)	#N/A	#N/A
OR5AU1	unnamed (+51931)	#N/A	#N/A
PARPBP	unnamed (+192)	#N/A	#N/A
PMF1-BGLAP	unnamed (+162)	#N/A	#N/A
PPIAL4B	unnamed (-329363)	#N/A	#N/A
PPIAL4F	unnamed (+417625)	#N/A	#N/A
RNF223	unnamed (+4881), unnamed (+10223)	#N/A	#N/A
RPL17- C18ORF32	unnamed (-835)	#N/A	#N/A
SEC1	unnamed (+415)	#N/A	#N/A
SKOR2	unnamed (-500121)	#N/A	#N/A
SLC7A5P2	unnamed (-79064)	#N/A	#N/A
SPATA25	unnamed (-3661)	#N/A	#N/A
SRL	unnamed (-12078)	#N/A	#N/A
TAS2R30	unnamed (-37453)	#N/A	#N/A
TCF24	unnamed (-66009), unnamed (+37030)	#N/A	#N/A
TMEM242	unnamed (+666)	#N/A	#N/A
TMEM82	unnamed (-878)	#N/A	#N/A
TRIM39- RPP21	unnamed (+15766)	#N/A	#N/A
TTLL9	unnamed (+9228)	#N/A	#N/A
URI1	unnamed (-96854)	#N/A	#N/A
ZBTB42	unnamed (+15528)	#N/A	#N/A
ZNF286B	unnamed (-131)	#N/A	#N/A
ZNF460	unnamed (-428)	#N/A	#N/A
ZNF487P	unnamed (+18651)	#N/A	#N/A
ZNF837	unnamed (+87)	#N/A	#N/A

ZSWIM4	unnamed (+51659)	#N/A	#N/A
SLC35E2B	unnamed (-194), unnamed (+33680)	1.426273681	#N/A
RNF165	unnamed (-160450)	1.146736954	#N/A
GOLGA8B	unnamed (-52372)	0.910937069	#N/A
SYPL2	unnamed (+17736)	0.793119645	#N/A
ZNF260	unnamed (-337)	0.740764212	#N/A

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Supplementray Table 2. Expression correlation with BRCA1 from TCGA data		
1	BRCA1	1
2	C17orf53	0.507202373
3	TUBG1	0.481826735
4	DTL	0.474004952
5	VPS25	0.468765479
6	TOP2A	0.46160064
7	PSME3	0.45974753
8	TUBG2	0.458916057
9	NBR2	0.449332042
10	TIMELESS	0.447644644
11	CENPK	0.435977786
12	UHRF1	0.434323706
13	C16orf59	0.432517586
14	CDC25C	0.431206817
15	CCDC43	0.429186706
16	CDC6	0.428765508
17	CCDC56	0.427173795
18	GCN5L2	0.425435547
19	ZWINT	0.420987532
20	SPAG5	0.41855074
21	RDM1	0.417986587
22	WDR51A	0.41594053
23	KIAA0101	0.405385746
24	TRAIP	0.402986525
25	MLX	0.402135012
26	NUSAP1	0.393076183
27	MLF1IP	0.389929891
28	CENPM	0.389723383
29	WDR76	0.38931094
30	LIG1	0.38838626
31	ASF1B	0.387669588
32	CENPQ	0.386507361
33	RAD51	0.386464452
34	C17orf75	0.386002162
35	BUB1B	0.384827313
36	KIF4B	0.384444088
37	KNTC1	0.38226372
38	NEIL3	0.381176201

39	HMMR	0.379977597
40	UBE2T	0.378038631
41	SUZ12	0.3768383
42	PKMYT1	0.376136786
43	EFTUD2	0.37531983
44	OIP5	0.375195886
45	SPC25	0.375045354
46	C12orf48	0.373109436
47	TUBA1B	0.372996344
48	NEK2	0.372343732
49	KIF4A	0.37185128
50	COASY	0.371149209
51	ATAD5	0.367311229
52	CENPE	0.367015756
53	CCNB1	0.364602461
54	AARSD1	0.363478658
55	NMT1	0.363224806
56	ESCO2	0.362822581
57	NSF	0.361998445
58	POLQ	0.361249491
59	CDC2	0.357124689
60	RACGAP1	0.356439065
61	MCM6	0.353178908
62	HMGB2	0.351879529
63	PBK	0.351498646
64	MXD3	0.351096818
65	LOC283871	0.350734177
66	COX6A1	0.35035567
67	UBE2C	0.35003888
68	TMPO	0.349820023
69	NCAPH	0.349799095
70	SLC25A39	0.348189987
71	NPEPPS	0.34795749
72	KIF11	0.34761503
73	C16orf75	0.347604456
74	ERCC6L	0.347376833
75	GIN51	0.347312584
76	MCM2	0.346031856
77	ESPL1	0.344443724
78	DEPDC1B	0.343893377

79	H2AFZ	0.343615281
80	XRCC2	0.34357606
81	NKIRAS2	0.343045109
82	CENPI	0.342597505
83	CIT	0.341776973
84	DTYMK	0.341173042
85	DBF4B	0.34099503
86	TMEM97	0.33967961
87	PCNA	0.339536867
88	DHFR	0.338031718
89	TPX2	0.336367003
90	NFS1	0.336164068
91	BECN1	0.335885029
92	KIF15	0.335375964
93	PRIM1	0.334432891
94	PTTG3	0.333447456
95	DARS2	0.333304833
96	AURKA	0.332569766
97	CDC45L	0.332272413
98	MYOHD1	0.331099244
99	KIF20A	0.330919482
100	TRIP13	0.329946751
101	DSN1	0.329597009
102	MRM1	0.328969057
103	RNASEH2A	0.328560381
104	PTTG1	0.327116655
105	AURKB	0.326891576
106	E2F8	0.325981694
107	LSM12	0.325929817
108	RAD51L3	0.324761972
109	ACLY	0.324356309
110	RRM1	0.322049532
111	TROAP	0.321856648
112	MND1	0.321789077
113	LOC81691	0.32134116
114	BIRC5	0.321245455
115	PLK1	0.320339983
116	COQ5	0.320314256
117	PTTG2	0.319130228
118	MPHOSPH1	0.318639606

119	ZNHIT3	0.318608234
120	CASC5	0.317909106
121	RFC5	0.316890346
122	CENPF	0.316597771
123	PSMD11	0.315280959
124	ALKBH6	0.315058272
125	GSG2	0.315039807
126	ANKRD32	0.314937573
127	FEN1	0.314197715
128	CHTF18	0.314082135
129	LIG3	0.314035629
130	CEP55	0.31402539
131	CDCA5	0.313697656
132	NUF2	0.313603162
133	FAM134C	0.313513084
134	EXO1	0.313110801
135	ASPM	0.312561703
136	TMUB2	0.312547072
137	CENPH	0.31236476
138	PXMP2	0.311445267
139	LOC91431	0.311247309
140	HAGH	0.311242715
141	AATF	0.310408624
142	CKAP2L	0.310051828
143	E2F1	0.309205905
144	PRC1	0.309015078
145	TK1	0.308874946
146	ARHGAP11A	0.308771967
147	C12orf43	0.308428404
148	RRM2	0.307864153
149	KIFC1	0.30727655
150	KIF14	0.306616172
151	TYMS	0.305739426
152	FAM64A	0.305558032
153	CLSPN	0.304463481
154	IQGAP3	0.303544758
155	NTHL1	0.303150968
156	LRRC20	0.302654414
157	C17orf32	0.302209928
158	RAB11FIP4	0.301485863

159	UNG	0.301302059
160	ORC6L	0.300889568
161	MPP2	0.300336327
162	PLK4	0.300179991
163	C6orf129	0.299879456
164	BUB1	0.299699609
165	SFRS1	0.299692646
166	GINS2	0.299580458
167	HCN3	0.298634036
168	DKFZp762E1312	0.298496997
169	DEPDC4	0.298460868
170	C17orf65	0.297742124
171	DHRS13	0.297706559
172	C17orf79	0.297336181
173	MKI67	0.296746977
174	MCM8	0.296351991
175	DSCR6	0.296233708
176	LSM4	0.296154293
177	KIAA0286	0.295647678
178	TADA2L	0.295566821
179	CCNA2	0.295416523
180	C1orf135	0.295398617
181	DHX8	0.294828297
182	G6PC3	0.294745986
183	SHCBP1	0.294614467
184	MAD2L1	0.294435395
185	GLO1	0.294156827
186	POLE	0.293833252
187	MPHOSPH9	0.293758607
188	NT5C3L	0.293743941
189	PLEKHH3	0.292712359
190	MCM10	0.292262281
191	C9orf100	0.291969606
192	WDHD1	0.291927607
193	CDCA3	0.291714874
194	APITD1	0.291313118
195	CHAF1A	0.291247469
196	RACGAP1P	0.290917904
197	ACACA	0.29085841
198	PAFAH1B3	0.290838604

199	CKS1B	0.289390039
200	LAS1L	0.289358251
201	E2F7	0.288261058
202	DLG7	0.288154284
203	CCNE2	0.287820505
204	C13orf3	0.287397526
205	VDAC1	0.287343299
206	FOXM1	0.28687949
207	SGOL2	0.286256422
208	DNA2L	0.286169875
209	POLR2K	0.285657429
210	NCAPG2	0.285133322
211	TIMM17B	0.284692833
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220	MRPL24	0.282154472
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230	DDX52	0.278609337
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232	MYBL2	0.278476719
233	HSPA9	0.278432754
234	CDC23	0.277776202
235	GSS	0.277755589
236	RUNDC1	0.27730037
237	FLJ10241	0.277151097
238	MCM3	0.277147465

239	COPS6	0.277018676
240	NFKBIL2	0.276807917
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244	WDR67	0.276091626
245	C18orf24	0.275949859
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247	KCTD13	0.275660053
248	RAD54B	0.275567099
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250	RBL1	0.274633348
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253	TUBA1C	0.274171333
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259	ANLN	0.271981767
260	CDK2	0.271798006
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263	ATP6V0A1	0.271071724
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275	KLHL11	0.267591121
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398	USP30	0.241206113

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792	TRMT5	0.192768074
793	LOC100125556	0.192570019
794	LOC606495	0.192329892
795	RBM39	0.192321514
796	RECQL5	0.192256493
797	PDRG1	0.192230403
798	MEA1	0.192175564

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803	SUPT6H	0.191720793
804	MGC26597	0.191612378
805	SYMPK	0.191592736
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808	B3GALNT1	0.191372343
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812	LOC440356	0.191158724
813	HNRPM	0.191103875
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834	RPL26L1	0.189583178
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836	FCMD	0.189404605
837	TMEM9	0.189378214
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852	TUFM	0.188102744
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854	DPP3	0.188035508
855	EXOSC2	0.187925693
856	DDX55	0.187842418
857	ATPBD1C	0.187817482
858	FLJ30092	0.187795965
859	COG2	0.187789357
860	C20orf20	0.187781184
861	DLG3	0.187759449
862	IFT81	0.187743215
863	GNPDA1	0.187733771
864	LLGL2	0.187693799
865	GDAP1	0.18761533
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868	MVK	0.187451795
869	HAX1	0.187428767
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871	ACBD4	0.186716797
872	C20orf142	0.186567836
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876	XPO5	0.186325082
877	C14orf68	0.1862972
878	PARD6B	0.186241019

879	WDR18	0.186239094
880	LETM1	0.18621887
881	RHEBL1	0.186037289
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883	WDR72	0.186008558
884	ATG4D	0.186008225
885	MMAB	0.185850637
886	FLOT2	0.185767964
887	C6orf108	0.18571699
888	CRKRS	0.185601505
889	PAQR9	0.185526881
890	SAPS3	0.185466427
891	OR11A1	0.185434659
892	CXorf34	0.185398639
893	CNGB1	0.185267171
894	PYY	0.185210256
895	INHBC	0.185108133
896	MTFR1	0.184956311
897	PRDX3	0.1849279
898	FADS1	0.184901682
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900	LOC150223	0.184874807
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905	CCT8	0.184573312
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909	ALOXE3	0.184468789
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925	HIST1H4C	0.183468288
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928	DNASE1L2	0.183237708
929	HIST1H1B	0.182786755
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933	EGLN2	0.182196729
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936	SLC35B1	0.182115995
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941	SNRPA	0.181445469
942	SAP130	0.181431804
943	FOXN1	0.181337211
944	FLVCR1	0.18133344
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949	WDR54	0.18085753
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956	ECH1	0.180448079
957	ATPAF2	0.180298752
958	ATP6V1C1	0.180282468

959	GPR77	0.180236004
960	APOBEC3B	0.180226304
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963	FBXL20	0.180174583
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966	SDSL	0.179970126
967	MGC99813	0.179951369
968	NCAPD3	0.179921981
969	E2F6	0.179917943
970	INTS7	0.179892576
971	ACTR5	0.179844011
972	C16orf13	0.179802647
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975	OR1D4	0.179725486
976	C17orf80	0.179708339
977	KSR1	0.179644543
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979	MTMR15	0.179581735
980	NUP98	0.179351727
981	NDE1	0.179302131
982	CLPP	0.179252539
983	USP7	0.179202503
984	C1orf25	0.179159522
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1012	CLPTM1L	0.17789211
1013	PSMD9	0.177804603
1014	SSH2	0.177797689
1015	ENO2	0.177734282
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1027	LIN54	0.176959084
1028	SMUG1	0.176904756
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1044	FLYWCH2	0.175757416
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1050	APOBEC3D	0.175506831
1051	GHDC	0.175474467
1052	USP32	0.175421177
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1085	CPSF3	0.173572048
1086	TIMM17A	0.173562502
1087	USP37	0.173434338
1088	C17orf71	0.173433214
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1090	RBM33	0.17331756
1091	RBM35A	0.173306949
1092	CBLN3	0.173299829
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1107	NDUFA13	0.172438621
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1114	L2HGDH	0.171895794
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1139	PANK3	0.170611183
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1142	FAM104B	0.170570805
1143	DDX23	0.170563365
1144	AP3B1	0.170551941
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1146	HSPB1	0.170474506
1147	USP9Y	0.170464059
1148	EXOSC9	0.170374322
1149	SYP	0.170354793
1150	COQ9	0.170302248
1151	PRPF19	0.17022841
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1153	RNPS1	0.170053178
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1155	MRPL38	0.170018349
1156	TOPBP1	0.169972186
1157	GSK3A	0.169929786
1158	HSP90AA1	0.169854979

1159	DUSP14	0.169821417
1160	GHITM	0.169754158
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1162	CDKN2AIPNL	0.169736282
1163	KIAA1467	0.169726029
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1165	SC4MOL	0.169674446
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1167	MED1	0.169599795
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1175	VPS37C	0.169148051
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1180	ZDHHC13	0.168831016
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1184	PSRC1	0.16874251
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1191	JTV1	0.168005169
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1194	NUDCD2	0.167920499
1195	RABL4	0.167919037
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1219	C2orf29	0.166700567
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1224	SLC39A3	0.166560439
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1228	SLC25A3	0.166344572
1229	ARL3	0.166332131
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1232	ZMYND19	0.166177146
1233	SPAG4	0.166169063
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1252	CRP	0.165560727
1253	ATXN10	0.165482596
1254	LOC90835	0.165376029
1255	EIF1	0.165329634
1256	SLC35A2	0.165327254
1257	RPS6KL1	0.165323276
1258	GALK1	0.165247855
1259	BCDIN3D	0.165193602
1260	BRD8	0.165112513
1261	NME3	0.165094506
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1263	LRRC37B	0.164791742
1264	PYCR2	0.164790612
1265	CCT5	0.164788683
1266	TMEM16J	0.164768053
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1268	SORD	0.164682221
1269	METTL2B	0.164553151
1270	DAK	0.164524595
1271	SCAND1	0.16445167
1272	NIPA1	0.164371556
1273	C11orf80	0.164315036
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1275	CCDC55	0.164180131
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1281	C6orf26	0.163699351
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1283	ZNF76	0.163627101
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1290	TOMM40	0.163239084
1291	LRP11	0.163237824
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1295	SYT2	0.163127285
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1297	PFAS	0.163040355
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1306	MRPL43	0.162789696
1307	NDUFV2	0.162767724
1308	RDH12	0.162759419
1309	RFC3	0.16270567
1310	MTERFD1	0.162691136
1311	DUS4L	0.162686621
1312	CELSR3	0.162664668
1313	TRMT6	0.162586989
1314	DMRTB1	0.162579853
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1324	TSNAX	0.161918539
1325	PFDN2	0.161752639
1326	PSMD4	0.161731166
1327	BCL2L1	0.161657188
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1344	ELMOD2	0.160939075
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1354	C8orf55	0.16026848
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1356	YEATS4	0.160199517
1357	SHARPIN	0.160139196
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1819	PARG	0.142416729
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1821	RBM41	0.142349858
1822	LOC400590	0.14233573
1823	GRAMD1A	0.142235235
1824	CELSR1	0.142215252
1825	SRPK2	0.142188733
1826	PAIP2	0.142178036
1827	AXIN1	0.142145846
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1848	TEGT	0.141548515
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1878	C10orf88	0.1403785

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2131	SF3B2	0.131987676
2132	LOC554207	0.131966112
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2135	LRRC10	0.13188309
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2213	LOC285398	0.129211755
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2215	PRDM15	0.129120022
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2217	EVPL	0.129092118
2218	SCAMP1	0.129085854
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2233	MRPS24	0.128770186
2234	TMED10	0.128754581
2235	SFTPA1	0.128745867
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2262	SCD	0.127942767
2263	B3GAT3	0.127931975
2264	CCDC45	0.127927255
2265	PRELID1	0.127904756
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2273	C19orf62	0.127636711
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2276	COMMD5	0.127545282
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2283	LOC149837	0.127154092
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2305	GPATCH4	0.12655111
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2352	ANKRD13D	0.125305975
2353	LOC134145	0.125286309
2354	LOC285636	0.125241362
2355	RNUXA	0.125240918
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2363	C20orf121	0.125040714
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2374	DHX37	0.12462626
2375	LOC93622	0.124568399
2376	SMC3	0.124547193
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2381	MAGEA12	0.124343176
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2383	CNGA4	0.124141386
2384	ZNF346	0.124127791
2385	TIMM44	0.124127664
2386	RBM4	0.124119277
2387	PSMD12	0.12407612
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2389	NIBP	0.123980571
2390	CCDC142	0.123969977
2391	C20orf11	0.123933369
2392	MSH6	0.123899178
2393	CANT1	0.123801787
2394	KIAA1712	0.123755486
2395	OR9K2	0.123617545
2396	SLC25A41	0.12361101
2397	TRPV1	0.123607327
2398	PRPS2	0.123508982

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2409	PIGQ	0.123216111
2410	ZNF607	0.123203745
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2424	OR4D5	0.122776834
2425	LOC51252	0.122754478
2426	ALDH3A2	0.122655391
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2428	LCMT1	0.122639125
2429	ANAPC10	0.122614162
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2445	LOC644186	0.12230187
2446	SIRT6	0.122123584
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2457	NDUFS2	0.121905435
2458	SHKBP1	0.121884566
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2460	ACCN2	0.121813807
2461	MORC2	0.121797913
2462	MYT1	0.121795966
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2472	ACD	0.121582295
2473	UBAC1	0.121555334
2474	SMS	0.121518202
2475	TMEM180	0.121450178
2476	LOC222699	0.121429387
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2534	IRF5	0.119740722
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2551	CREBL1	0.119177349
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2611	OR4P4	0.117267316
2612	KIAA1841	0.117259679
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2633	EIF4E	0.116586742
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2744	LOC162632	0.113584615
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2753	RNASEN	0.11334707
2754	LANCL1	0.113307895
2755	DUS2L	0.113298573
2756	ENPP7	0.113201905
2757	PIWIL3	0.113130031
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2762	SASS6	0.112993154
2763	ATG4B	0.112919888
2764	GK	0.112887738
2765	KRT33B	0.112864407
2766	LOC201229	0.112856613
2767	DAGLA	0.11284395
2768	SOX2	0.112838908
2769	EHMT2	0.112756519
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2771	CHID1	0.112687333
2772	MACROD1	0.112644651
2773	ENTPD6	0.11261557
2774	NUCB2	0.112602183
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2776	ALS2	0.112580242
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2779	TCTN3	0.112458821
2780	AKAP10	0.112444555
2781	PPP2CA	0.112398805
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2783	UTY	0.112357968
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2790	CYP2F1	0.112164067
2791	TJAP1	0.112144285
2792	SSH3	0.112101346
2793	SLC37A4	0.112095213
2794	PARP12	0.112061889
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2821	MSMB	0.111541932
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2824	AP1M2	0.111501143
2825	LIM2	0.111481637
2826	POU5F2	0.111455965
2827	C6orf153	0.111430363
2828	CTPS2	0.111376825
2829	RCCD1	0.11135991
2830	KRTAP19-1	0.111341167
2831	VCP	0.111288438
2832	SRA1	0.111275764
2833	DPH4	0.111240639
2834	CAMKV	0.11118722
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2847	DEPDC5	0.110890122
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2849	FBXL6	0.110880035
2850	CROP	0.110866455
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2871	SLC30A10	0.110442232
2872	FAM136A	0.110419794
2873	MLANA	0.110419411
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2877	C11orf47	0.110287138
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2896	ELMO3	0.109956193
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2911	DECR2	0.109663062
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2917	CCDC63	0.109511494
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2926	CAPS	0.109419072
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2933	SENP5	0.10926451
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2936	ERGIC1	0.109252253
2937	C21orf87	0.109227565
2938	TCERG1	0.109220499
2939	ADCYAP1R1	0.109181569
2940	AARS	0.109166751
2941	MED12L	0.109129815
2942	PRDM8	0.109124273
2943	NDUFB2	0.109118521
2944	KIF3A	0.109080222
2945	PREB	0.109078089
2946	C7orf24	0.109060074
2947	TOP3A	0.109036955
2948	SPTBN4	0.109020251
2949	BCL7A	0.108982745
2950	ABHD1	0.108970214
2951	MAST2	0.108966048
2952	RERG	0.108841704
2953	METTL6	0.10881507
2954	SYCN	0.108798942
2955	ERCC4	0.108744101
2956	ABCA3	0.10871005
2957	SERF2	0.108652511
2958	ROGDI	0.108610293

2959	MAT2A	0.108596832
2960	GLDC	0.10859175
2961	COX7B	0.108572752
2962	OR1S1	0.108557872
2963	SKIV2L	0.108519172
2964	NOS1	0.108514819
2965	CARS	0.108493574
2966	CHAC1	0.108420873
2967	GRID2	0.10840133
2968	CEBPG	0.108334911
2969	PAPD5	0.108325468
2970	RNF14	0.108299348
2971	IFNA16	0.108298543
2972	RFXDC2	0.108259723
2973	HIST1H2AA	0.108230021
2974	ARFGAP1	0.108165257
2975	EXOC6	0.108162149
2976	AIFM2	0.108138516
2977	GTF2H4	0.108102641
2978	LASS5	0.108092905
2979	YWHAQ	0.108076967
2980	MED20	0.108064939
2981	TRMT12	0.108058548
2982	ALDOAP2	0.10803497
2983	CREB3L4	0.107998363
2984	OR4K14	0.107992825
2985	OR6C4	0.107948754
2986	TTMA	0.107923738
2987	RBKS	0.107900246
2988	FLJ13611	0.107896179
2989	UNC93A	0.107890576
2990	SCML2	0.107872949
2991	FRMD1	0.107854698
2992	HNRNPC	0.107833739
2993	PPM1E	0.107824037
2994	ZMYND8	0.107744333
2995	LRP8	0.107716007
2996	C20orf30	0.107681369
2997	TSPAN13	0.107647253
2998	HIST1H2AL	0.107632328

2999	SOHLH1	0.107610536
3000	NIPSNAP1	0.107583087
3001	TMEM141	0.107577627
3002	CCDC111	0.107552008
3003	NUP107	0.107524888
3004	FAM82C	0.107450148
3005	UBE2Z	0.107406409
3006	SDHC	0.107395801
3007	NUP188	0.107384319
3008	UNC13A	0.107364693
3009	AIM1L	0.107351201
3010	ZNF553	0.107348327
3011	RPGR	0.107337631
3012	ARMET	0.10731425
3013	MAS1L	0.107297813
3014	LOC728378	0.107270858
3015	RFX5	0.107266634
3016	ADCK5	0.107261559
3017	ZCCHC8	0.107254303
3018	TAF9	0.107247992
3019	FLJ46111	0.107245056
3020	NDUFC1	0.107219784
3021	SIRT7	0.107179599
3022	FLJ22222	0.107178481
3023	ZBTB2	0.107121134
3024	AIP	0.107103105
3025	NHEDC1	0.107100233
3026	ALOX12	0.107078868
3027	PMPCA	0.107054241
3028	OR6A2	0.107052733
3029	HIST1H3C	0.106995105
3030	SPCS1	0.10699079
3031	PRMT8	0.106942644
3032	C12orf51	0.106896219
3033	ABCE1	0.106884252
3034	PNN	0.106866359
3035	MDM1	0.106851329
3036	CDS2	0.106840328
3037	C20orf177	0.106839363
3038	NDUFB6	0.10680726

3039	SAR1B	0.106731182
3040	HEMK1	0.106715211
3041	SPINK4	0.106702561
3042	MED31	0.106700431
3043	CSMD3	0.106667589
3044	SLC25A28	0.106656306
3045	FANCL	0.106587928
3046	SPAR	0.106553327
3047	CST9	0.106520892
3048	GNRHR	0.106488826
3049	UNQ1940	0.106487514
3050	C1orf210	0.106475646
3051	CPSF4	0.106407133
3052	TMEM179	0.106401983
3053	C6orf141	0.106371356
3054	PTCHD2	0.106358586
3055	ACP2	0.106311766
3056	PERLD1	0.106272468
3057	PPP1R16A	0.106267691
3058	WNT3A	0.106261255
3059	UBXD2	0.106236611
3060	CRX	0.106204551
3061	C20orf135	0.106203454
3062	MGC52110	0.106156921
3063	SYNJ1	0.106120998
3064	PSMB4	0.106107193
3065	RAMP1	0.106101913
3066	C1orf96	0.106030275
3067	GRSF1	0.105957511
3068	IQWD1	0.105950777
3069	RBM12B	0.105941969
3070	CNNM4	0.105941718
3071	FAM120A	0.10592336
3072	MRPL4	0.105898358
3073	TSG101	0.105855221
3074	PAK4	0.105854136
3075	PSPN	0.105851327
3076	HSPA4	0.10584157
3077	FLJ38596	0.105840928
3078	C9orf116	0.105836609

3079	NOL11	0.105828415
3080	MAPK9	0.105825646
3081	FARS2	0.10581977
3082	IPO7	0.105809875
3083	NDUFB7	0.10578549
3084	OR1L3	0.105741203
3085	ERBB2	0.105708907
3086	LOC790955	0.105683621
3087	CENPB	0.105671946
3088	C5	0.105620531
3089	MARS	0.105614022
3090	PDSS1	0.105613274
3091	TRIB3	0.105600401
3092	PEX11G	0.105543048
3093	PAQR7	0.105502927
3094	GRHPR	0.105484375
3095	TRIM24	0.105464989
3096	SERF1A	0.105459954
3097	SMARCC1	0.10543596
3098	C10orf58	0.105418838
3099	TBRG4	0.105414762
3100	PCTK2	0.105409385
3101	C19orf51	0.105393072
3102	GFER	0.105377168
3103	ZNF552	0.105354946
3104	KCNH7	0.105290277
3105	ZSCAN16	0.105266014
3106	NXT1	0.10525245
3107	ILKAP	0.105249477
3108	OR51B6	0.105246665
3109	TM7SF3	0.105237344
3110	HOXC4	0.105211557
3111	PSMD6	0.105137906
3112	PAGE2	0.105126842
3113	CTF1	0.105124057
3114	ELK1	0.105104657
3115	DLL3	0.105064088
3116	ENY2	0.105035763
3117	ATAD2B	0.105026835
3118	GPATCH8	0.105002336

3119	KIAA1279	0.10500021
3120	RAB5B	0.104994547
3121	RAB8A	0.104992279
3122	MYOG	0.104979932
3123	ZNF263	0.104939126
3124	GFI1B	0.1049326
3125	PDIA2	0.104892984
3126	POLR2E	0.10487335
3127	KIAA0152	0.104850908
3128	TERF1	0.104824623
3129	CSAG3A	0.104802877
3130	HNRNPU	0.104791667
3131	SNX21	0.104789703
3132	ESR1	0.104778509
3133	DKFZp761E198	0.104768325
3134	AFF3	0.10474686
3135	C18orf8	0.104724116
3136	HEATR6	0.104722495
3137	RSL1D1	0.104722256
3138	GUCA2A	0.104708102
3139	MAG	0.104704751
3140	ACOT6	0.104695465
3141	C9orf7	0.104682875
3142	INTS8	0.104674668
3143	HYAL4	0.104664923
3144	PISD	0.104649525
3145	TMEM28	0.104633669
3146	TMEM41A	0.104602162
3147	C9orf31	0.104572374
3148	TMEM11	0.104532765
3149	ISCA2	0.104484524
3150	PARL	0.104466004
3151	LSM2	0.10444902
3152	CDCA4	0.104427905
3153	CES3	0.104369926
3154	OR51B5	0.104369621
3155	SLC7A9	0.104303405
3156	PGLYRP3	0.104286576
3157	NBN	0.104266789
3158	MS4A8B	0.104230056

3159	C2orf37	0.104206241
3160	DKC1	0.104156497
3161	TMEM137	0.104147011
3162	NOL1	0.104118441
3163	ARD1B	0.10410214
3164	CTPS	0.104063244
3165	SYNGR3	0.104062648
3166	CLN6	0.104048364
3167	CELP	0.104018314
3168	CTAGE1	0.103911584
3169	POLR3B	0.10389494
3170	CSAG1	0.10386435
3171	RAD1	0.103863093
3172	APPBP2	0.103827078
3173	DDX3Y	0.103812565
3174	SLC47A1	0.103784096
3175	SLC25A13	0.103779204
3176	MED11	0.103755583
3177	ATOX1	0.10372653
3178	OPRS1	0.103717472
3179	SAAL1	0.103715692
3180	PUS7L	0.103708716
3181	CYB5D1	0.103693422
3182	THOC1	0.103690366
3183	OR6W1P	0.1036753
3184	VKORC1L1	0.103661371
3185	NXF5	0.103616128
3186	RFWD2	0.103598199
3187	CTR9	0.103592128
3188	IVD	0.103569103
3189	NAT9	0.103556666
3190	NSMCE4A	0.103542071
3191	CAMKK2	0.103534574
3192	SNRP70	0.103523562
3193	OR10W1	0.10351898
3194	HSD17B8	0.103503705
3195	CALM2	0.103498266
3196	MLH3	0.103487254
3197	POLR2I	0.103440052
3198	TCEA3	0.103429364

3199	ALDOA	0.103403613
3200	AFM	0.103395983
3201	CCDC104	0.10338947
3202	ATP5J2	0.103370559
3203	KRTAP4-10	0.103362713
3204	CCDC74B	0.103347545
3205	C14orf169	0.103292913
3206	CEACAM3	0.103290701
3207	AARS2	0.103263733
3208	SCRIB	0.103255054
3209	TMED2	0.103251469
3210	ZCCHC4	0.10324045
3211	ATE1	0.103190116
3212	ZSCAN29	0.103184818
3213	KRTAP9-3	0.103171811
3214	ATP6V0C	0.103166104
3215	THEM2	0.103144482
3216	CRLS1	0.103068104
3217	D2HGDH	0.103043961
3218	FAM119A	0.102983534
3219	EXOSC3	0.102953097
3220	TH	0.102940832
3221	TMEM41B	0.102940749
3222	CRIP3	0.102933355
3223	PRR6	0.102927373
3224	PHB	0.102898551
3225	DHRS7B	0.102893836
3226	ASNA1	0.102845379
3227	RNF139	0.10283142
3228	CLIP1	0.102831029
3229	C1orf77	0.102791961
3230	SPACA5	0.102779613
3231	AP2A2	0.102775931
3232	LSM1	0.102764897
3233	OR4C46	0.102729764
3234	KLHDC5	0.102726466
3235	SLC5A12	0.102718742
3236	CASP6	0.102717094
3237	ELOVL3	0.102715647
3238	PIGN	0.102609205

3239	MTERFD3	0.102588134
3240	USF2	0.102585621
3241	EXOSC1	0.102578335
3242	UBE2M	0.102571031
3243	VANGL1	0.102498057
3244	WDR4	0.102496882
3245	KRT8P12	0.102475561
3246	C8ORFK29	0.102438352
3247	SIAH2	0.102436284
3248	ETFDH	0.102433093
3249	SPIRE1	0.102384055
3250	C17orf73	0.102383679
3251	RIMS1	0.102340728
3252	SEC23IP	0.102313131
3253	GLS2	0.102287841
3254	INHA	0.102254707
3255	NDUFB4	0.102237703
3256	MGC5590	0.102201035
3257	APBB3	0.102186621
3258	ALB	0.102174209
3259	WFDC9	0.102161817
3260	ZNF217	0.102127054
3261	C3orf15	0.102126207
3262	APC2	0.102095696
3263	TAC4	0.102076572
3264	MORC1	0.102061567
3265	CCDC15	0.102056588
3266	RABL5	0.101997105
3267	OR4B1	0.101969409
3268	OR6N1	0.101878288
3269	KRR1	0.101871669
3270	SNAP25	0.101852453
3271	VPRBP	0.101817382
3272	DHCR7	0.101815602
3273	OR5M10	0.1018135
3274	TBC1D3P2	0.101809488
3275	NOXO1	0.101794529
3276	C19orf61	0.101649079
3277	PSMB1	0.101643813
3278	CTAG2	0.101591286

3279	LDLRAD1	0.101580567
3280	PTPRA	0.101579661
3281	RHOT2	0.101560287
3282	SPHK2	0.101559781
3283	SMPD2	0.101550412
3284	MYST2	0.101542516
3285	MCHR1	0.101537929
3286	HSPA14	0.10148706
3287	LIMD1	0.101482827
3288	TNFAIP2	0.101468352
3289	BAIAP2L1	0.101447491
3290	PTPMT1	0.101421902
3291	DSCR3	0.101419718
3292	LSM14A	0.101385372
3293	SLC5A11	0.101357061
3294	KIR2DL3	0.101313367
3295	RQCD1	0.101280946
3296	SFPQ	0.101271249
3297	GNE	0.10125624
3298	CDCP2	0.101239782
3299	H3F3B	0.101231595
3300	HDAC5	0.101222132
3301	ARID2	0.101202516
3302	FLJ90709	0.101182061
3303	RAB24	0.101180204
3304	LCMT2	0.101169219
3305	OR52L1	0.101165461
3306	SLC2A4RG	0.101155527
3307	NCBP2	0.101134922
3308	VAMP8	0.101102912
3309	ANKRD22	0.101101064
3310	CARD14	0.101066651
3311	OR11H4	0.100988676
3312	C4orf17	0.10093504
3313	PSIP1	0.100847063
3314	LPIN3	0.100819857
3315	IKZF4	0.100818909
3316	HIST1H3I	0.100816766
3317	ZDHHC23	0.100803255
3318	DPY19L2P1	0.100786499

3319	RNF25	0.10071422
3320	SERPINA5	0.100700656
3321	WDR31	0.100682893
3322	OR5H1	0.100682316
3323	KIR3DL3	0.100661548
3324	C1orf74	0.10064517
3325	ONECUT1	0.100617658
3326	SCARB1	0.100569994
3327	PPIAL4	0.100568153
3328	RHOXF2B	0.100555777
3329	SLC13A4	0.100552166
3330	C11orf31	0.10054181
3331	AGRP	0.100535611
3332	GCAT	0.100528316
3333	ATPIF1	0.100524832
3334	PRCC	0.10051226
3335	KPNA6	0.100483999
3336	PVRL2	0.100467565
3337	SEC61A1	0.100455461
3338	PGLYRP2	0.100449725
3339	PLP2	0.100349988
3340	AGPAT1	0.100339661
3341	P2RX4	0.100322988
3342	FLCN	0.100320651
3343	C10orf4	0.100308647
3344	PCCB	0.100291312
3345	ZNF598	0.100274035
3346	C17orf62	0.100239912
3347	MAD2L2	0.10021431
3348	C15orf24	0.100202641
3349	IL22RA1	0.100142694
3350	FLJ20035	0.100102246
3351	PRDM4	0.100101499
3352	JMJD2B	0.100095894
3353	PDXDC1	0.100040679
3354	GALNT6	0.10003618

14 Supplementary Table 3. Putative BRCA1 target gene candidates

Gene Name	ENCODE data (CHIP seq)	BRCA1-KD/control_MCF7	BRCA1_overExp/Con_HCC1937	TCGA Correlation
ADSS	(-72)	0.597	2.182	-0.042
AHSA2	(-352)	0.327	0.418	0.042
CCDC47	(+49)	0.540	3.502	0.068
CENPE	(-76)	0.463	0.155	0.367
CENPN	(+805)	0.664	2.454	0.173
CKS1B	(-319)	0.661	1.906	0.289
COASY	(-12)	0.865	0.529	0.371
DARS2	(-11)	0.905	0.289	0.333
DTYMK	(-341)	0.883	3.792	0.341
EFCAB2	(+1190)	0.496	2.188	0.073
EIF3K	(-18)	0.689	2.458	-0.004
EIF5B	(-959)	0.547	0.442	0.119
ENSA	(+260)	0.467	2.181	0.098
FADD	(+152)	1.060	2.096	0.244
FYTTD1	(-8)	0.566	0.411	0.026
GRWD1	(-158)	0.617	2.249	0.155
HMGB2	(-1054)	1.137	0.368	0.352
HMGCS1	(-283)	1.677	0.338	0.093
IFNGR1	(+434)	1.159	3.133	-0.299
IRF9	(+735)	1.700	2.601	0.058
KIF15	(+76)	0.678	0.356	0.335
KNTC1	(-477)	0.777	0.528	0.382
MEIS2	(+521171)	0.772	1.010	-0.318
MRPL42	(+251)	0.503	3.203	0.136
NUCKS1	(+1046)	0.681	2.474	0.019
NUF2	(-383)	0.773	0.523	0.314
PCM1	(-54)	0.693	0.428	-0.012
PDE7A	(-605)	0.607	2.574	-0.013
PFKFB3	(+52)	1.923	2.343	-0.056
PIH1D1	(-1635), (+47)	0.631	2.438	0.134
PIK3R3	(-191)	0.522	4.262	-0.064
PNKP	(-2225)	0.575	2.226	0.089
RAP1GDS1	(-414)	0.400	1.521	0.121
RELB	(-158)	1.675	5.452	-0.143
RPS2	(-69)	0.538	2.141	0.088
SH3BGRL	(+133)	0.667	2.037	-0.022
STK38L	(-8)	2.833	1.625	-0.092
TAP2	(-112)	1.571	2.031	0.033
TBC1D5	(-102)	0.630	0.466	-0.131
TMPO	(+13)	0.608	1.202	0.350
TRIM26	(+360)	1.821	2.021	0.006
TUBA1B	(+1070)	1.035	0.456	0.373

UBE2S	(-94)	0.651	2.885	0.255
ZNF33B	(-125)	0.505	0.494	-0.114
ZNF697	(-867)	2.410	1.907	-0.049

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Supplementary Table 4. Sequences for ChIP Primers

Gene name (length of DNA sequence)	Primer sequence
CKS1B (292)	F: 5'-GGGGGG AGAAAACTGGGCGACAGGG
	R: 5'-GGGGGG TGGAGCGGTAACCTAAGCTG
FADD (280)	F: 5'-GGGGGG CTTTGCAAACAGGTGGACTCG
	R: 5'-GGGGGG CTCCGGTGCCTGATTCACTA
MEIS2 (268)	F: 5'-GGGGGG AGACATGGTTTCTCGGCAGG
	R: 5'-GGGGGG CGCCAGAGTTTCAGTAGGCA

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18 Supplementary Table 5. Sequences for promoter PCR Primers

Gene name	Restriction Enzyme	Primer sequence
CKS1B	SacI	F: 5'-CCC GAGCTC GAAGTGAGGCTGGGAGTCTG
	KpnI	R: 5'-CCC GGTACCG AGGCGGGACACCTCTACTTTC
FADD	XhoI	F: 5'-CCC CTCGAG TTGAATGGTATGTGAATTATATC
	HindIII	R: 5'-CCC AAGCTT ACAGGGCTACTGCGAAAATTG
MEIS2	NheI	F: 5'-CCC GCTAG CAATGTCGACGAGCAACTCAGC
	XhoI	R: 5'-CCC CTCGAG AGGAAGTGAGGAGGCAGTCATC

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Supplementary Table 6. Sequences for real time PCR Primers

Gene name	Primer sequence
CKS1B	F: 5'-GGGGGG TATTCGGACAAATACGACGACG
	R: 5'-GGGGGG CGCCAAGATTCCTCCATTCAGA
FADD	F: 5'-GGGGGG ATGGACCCGTTCTGCTGTC
	R: 5'-GGGGGG TCAGGACGCTTCGGAGGTAG
MEIS2	F: 5'-GGGGGG GAGACCACGATGATGCAACCT
	R: 5'-GGGGGG ACTGTTGTCTAAACCATCCCCTT

