

Supplementary Table S3 a: The colors in this table match the colored gene groups in Figure 2. Specifically acetylated genes in cHL (n=211) and B-cell lines (B1AC in Figure 2: n=327) determined by the cHL versus B-cell line comparison. Furthermore the 141 genes which were found in the intersection of the two B-cell groups (which are therefore jointly hypoacetylated in cHL and PCM cell lines) are marked in blue.

Name	Entrez Gene	Ref Seq	p-value (Acetylation)	Ratio
SEMA4C	54910	NM_017789.4	3,66E-006	-8,376854452
IL6	3569	NM_000600.2	1,77E-005	-8,314958127
ONECUT2	9480	NM_004852.2	4,00E-006	-8,282444977
IFIH1	64135	NM_022168.2	8,05E-006	-8,148979811
MARCKS	4082	NM_002356.5	3,00E-006	-8,132604423
BATF3	55509	NM_018664.1	5,26E-006	-8,091403371
CISH	1154	NM_145071.1	5,75E-005	-7,96206129
MAPKAPK3	7867	NM_004635.3	3,68E-005	-7,940750902
MEIS1	4211	NM_002398.2	6,76E-006	-7,771709205
FUT4	2526	NM_002033.2	6,72E-006	-7,720048774
CCR7	1236	NM_001838.2	3,01E-006	-7,716010702
ATF3	467	NM_001040619.1	3,97E-006	-7,640583425
IRF4	3662	NM_002460.1	4,87E-006	-7,625499983
BEND6	221336	NM_152731.2	1,33E-005	-7,576292802
EHBP1	23301	NM_015252.2	3,88E-006	-7,560681148
BCL2A1	597	NM_004049.2	1,78E-005	-7,527741084
GPR55	9290	NM_005683.3	8,36E-005	-7,476175621
ARNTL2	56938	NM_020183.3	9,09E-006	-7,464130822
EML4	27436	NM_019063.2	9,11E-006	-7,455394769
FSCN1	6624	NM_003088.2	4,82E-005	-7,434424042
CSF1	1435	NM_000757.3	7,12E-006	-7,421812952
LY75	4065	NM_002349.2	5,42E-006	-7,396251517
VIM	7431	NM_003380.2	3,18E-005	-7,368164191

IRAK1	3654	NM_001569.3	8,59E-006	-7,292753422
LMNA	4000	NM_170707.2	1,54E-005	-7,273807378
DKFZP56400	25849	NM_015393.2	4,71E-006	-7,246341376
MET	4233	NM_000245.2	1,94E-005	-7,245450781
AHNAK	79026	NM_024060.2	0,000327008	-7,242636179
RNF43	54894	NM_017763.3	1,76E-005	-7,225359912
AGK	55750	NM_018238.2	7,75E-006	-7,219829338
FMNL3	91010	NM_175736.4	5,56E-006	-7,155370746
ABCD2	225	NM_005164.2	1,24E-005	-7,154362013
TP53BP2	7159	NM_001031685.2	5,13E-005	-7,147934152
AGBL2	79841	NM_024783.2	4,41E-006	-7,144901828
HOXC4	3221	NM_014620.4	2,02E-005	-7,111155066
HOXC6	3223	NM_153693.3	2,02E-005	-7,111155066
NCK2	8440	NM_003581.2	4,57E-006	-7,106648737
SH2D1A	4068	NM_002351.2	4,67E-005	-7,07003651
MYOF	26509	NM_133337.1	5,10E-006	-7,065936874
GATA3	2625	NM_001002295.1	0,000140427	-7,044219283
PIGY	84992	NM_001042616.1	9,55E-006	-7,035387512
RNF11	26994	NM_014372.4	0,000162026	-7,028026963
ATP8B2	57198	NM_020452.2	5,27E-006	-7,01227251
C12orf40	283461	NM_001031748.2	1,45E-005	-7,009786342
WSB2	55884	NM_018639.3	9,05E-006	-7,009312588
NRP2	8828	NM_003872.2	5,61E-006	-6,973576836
SLFN5	162394	NM_144975.3	5,03E-006	-6,941955153
WWC3	55841	NM_015691.3	9,97E-005	-6,933863503
IRF5	3663	NM_001098627.1	0,004719121	-6,904725661
NR4A2	4929	NM_173172.1	7,31E-006	-6,902757266
NCF2	4688	NM_000433.2	0,000463405	-6,863260737
BCOR	54880	NM_017745.4	7,97E-005	-6,848503284
SLC45A3	85414	NM_033102.2	6,28E-006	-6,846956693

PPAPDC2	403313	NM_203453.2	3,11E-005	-6,839988174
HLA-F	3134	NM_001098479.1	7,18E-006	-6,815940527
EIF3M	10480	NM_006360.3	1,81E-005	-6,79533198
IL1R2	7850	NM_173343.1	2,94E-005	-6,793631895
TRAF1	7185	NM_005658.3	0,014083402	-6,792481882
WVOX	51741	NM_016373.1	1,35E-005	-6,791914329
ELL2	22936	NM_012081.5	0,000140722	-6,787240084
AKT3	10000	NM_181690.1	1,33E-005	-6,777746383
RTP4	64108	NM_022147.2	8,15E-006	-6,767688447
EOMES	8320	NM_005442.2	1,43E-005	-6,767354415
SRGAP1	57522	NM_020762.1	2,79E-005	-6,765414846
ARHGAP21	57584	NM_020824.2	4,07E-005	-6,71411318
KLHL9	55958	NM_018847.2	1,07E-005	-6,712404386
ZNF180	7733	NM_013256.2	6,44E-006	-6,703439406
PCNX	22990	NM_014982.2	9,79E-005	-6,699021059
SATB1	6304	NM_002971.2	1,04E-005	-6,677674843
NKAP	79576	NM_024528.1	7,59E-006	-6,673850935
KBTBD7	84078	NM_032138.4	4,02E-005	-6,665398772
MAML2	84441	NM_032427.1	0,000248031	-6,658336148
EMP3	2014	NM_001425.1	1,02E-005	-6,652481276
SNX12	29934	NM_013346.2	2,24E-005	-6,643136224
NPTN	27020	NM_012428.2	1,84E-005	-6,642433854
TUBA1C	84790	NM_032704.3	6,32E-006	-6,636184187
GPR172A	79581	NM_024531.3	9,60E-006	-6,614508721
TIGD2	166815	NM_145715.2	2,00E-005	-6,602487682
CASP10	843	NM_032974.3	8,29E-006	-6,580658558
CAMK4	814	NM_001744.3	1,70E-005	-6,518987737
KIF14	9928	NM_014875.1	0,000137557	-6,510575237
TMEM87B	84910	NM_032824.1	4,28E-005	-6,496763127
UXS1	80146	NM_025076.3	8,97E-006	-6,488764298

DENND5A	23258	NM_015213.2	1,81E-005	-6,454167517
DUSP5	1847	NM_004419.3	4,71E-005	-6,446608669
FBXL6	26233	NM_024555.3	8,82E-006	-6,406414362
CHRNA6	8973	NM_004198.2	1,66E-005	-6,37164715
RAB39B	116442	NM_171998.2	0,000100497	-6,365898822
SAR1B	51128	NM_001033503.1	1,66E-005	-6,363581679
RSPH3	83861	NM_031924.3	1,32E-005	-6,34297425
ATN1	1822	NM_001007026.1	1,04E-005	-6,340858729
DYNLT1	6993	NM_006519.1	1,82E-005	-6,339090781
OPTN	10133	NM_021980.4	1,00E-005	-6,336785062
ZFP41	286128	NM_173832.3	8,44E-006	-6,308557027
EDN2	1907	NM_001956.2	0,00019291	-6,299047824
HES7	84667	NM_032580.2	6,00E-005	-6,291063112
GNG2	54331	NM_053064.3	5,92E-005	-6,289287081
ALDH1B1	219	NM_000692.3	0,000156953	-6,287482812
SYTL3	94120	NM_001009991.2	1,40E-005	-6,28026593
C1RL	51279	NM_016546.1	8,93E-006	-6,26652904
CRTC3	64784	NM_001042574.1	8,60E-006	-6,260157745
TFE3	7030	NM_006521.3	1,45E-005	-6,258117426
TMEM71	137835	NM_144649.1	2,83E-005	-6,241512457
CDR2L	30850	NM_014603.2	1,99E-005	-6,239950536
SLC9A5	6553	NM_004594.2	3,37E-005	-6,222916981
PTER	9317	NM_001001484.1	2,21E-005	-6,219616103
SMARCA2	6595	NM_139045.2	0,000887032	-6,217845572
SURF6	6838	NM_006753.4	4,01E-005	-6,216208984
FANCL	55120	NM_018062.2	1,33E-005	-6,212107254
RHEBL1	121268	NM_144593.1	0,000140112	-6,150030992
SEMA6A	57556	NM_020796.3	0,001136446	-6,125546857
IL4I1	259307	NM_152899.1	0,009916575	-6,113151792
GPR132	29933	NM_013345.2	0,029792622	-6,10902509

PTGER4	5734	NM_000958.2	0,023320162	-6,100296189
IL32	9235	NM_001012633.1	3,54E-005	-6,07638834
CCND2	894	NM_001759.2	0,017081608	-6,060446744
FLNA	2316	NM_001456.2	5,48E-005	-6,049312805
EMD	2010	NM_000117.1	5,48E-005	-6,049312805
C17orf28	283987	NM_030630.1	1,08E-005	-6,048392181
GEMIN8	54960	NM_001042480.1	0,00218508	-6,034972451
BATF	10538	NM_006399.2	0,034317208	-6,018717121
PARVB	29780	NM_013327.3	8,42E-005	-5,976252328
VEZF1	7716	NM_007146.2	0,001199075	-5,961621661
NFIC	4782	NM_005597.2	0,000113448	-5,946343883
DMWD	1762	NM_004943.1	4,34E-005	-5,937219668
TWSG1	57045	NM_020648.3	3,40E-005	-5,935182452
IER3	8870	NM_003897.3	0,008803634	-5,93008571
FLOT1	10211	NM_005803.2	0,022869501	-5,882393914
TANK	10010	NM_004180.2	8,14E-005	-5,818434203
GNG10	2790	NM_001017998.2	1,63E-005	-5,793960592
HSPA1L	3305	NM_005527.3	0,014814797	-5,769551259
STAT5A	6776	NM_003152.2	0,017976406	-5,743352899
H2AFB3	83740	NM_080720.1	0,017674641	-5,732963525
C12orf57	113246	NM_138425.2	0,005826153	-5,729248147
DMPK	1760	NM_001081560.1	7,58E-005	-5,719562274
F8A3	474384	NM_001007524.1	0,038259115	-5,714230344
CDC34	997	NM_004359.1	0,000155867	-5,701782108
MGST3	4259	NM_004528.2	0,007008446	-5,687616026
PTPN6	5777	NM_080548.3	0,006273198	-5,679185698
AZI2	64343	NM_022461.2	0,021374859	-5,639874456
CAPN2	824	NM_001748.4	0,00198775	-5,638241327
F8A1	8263	NM_012151.3	0,033183119	-5,637618053
UBE2Z	65264	NM_023079.3	0,028905213	-5,602072275

LRRG61	65999	NM_023942.1	0,038584297	-5,595041017
HOOK2	29911	NM_013312.2	0,046742897	-5,568058117
ZRSR2	8233	NM_005089.3	0,024750825	-5,567269382
C7orf29	113763	NM_138434.2	0,028653895	-5,54825667
DOCK10	55619	NM_014689.2	0,027986164	-5,542049228
F8	2157	NM_019863.2	0,036003938	-5,536538422
KCNC3	3748	NM_004977.2	0,033635051	-5,500585862
PRPF6	24148	NM_012469.3	0,044979598	-5,373328124
LTA	4049	NM_000595.2	0,049955525	-5,338958113
TMEM185A	84548	NM_032508.1	0,000415661	-5,328426898
SAMD10	140700	NM_080621.4	0,039492011	-5,251021301
CD58	965	NM_001779.1	0,033899238	-5,202187893
IPO8	10526	NM_006390.2	0,041469255	-5,18385859
RFFL	117584	NM_057178.3	0,027580247	-5,165531785
ST20	400410	NM_001100880.1	0,040361354	-5,162106441
AGAP3	116988	NM_031946.4	0,048130367	-5,159550066
H2AFB1	474382	NM_001017990.1	0,031474546	-5,148051568
NQO2	4835	NM_000904.3	0,01792153	-5,135958304
RYBP	23429	NM_012234.4	0,033501553	-5,085643545
SSH1	54434	NM_018984.2	0,04277166	-5,047241264
SERPINH1	871	NM_001235.2	0,011819643	-5,04704504
PRH1	5554	NM_006250.2	0,046275214	-5,03772765
PRR4	11272	NM_001098538.1	0,046349984	-5,037510805
ATP6V0A1	535	NM_005177.3	0,026890849	-5,036000476
FAM40A	85369	NM_033088.2	0,039530459	-5,015264964
ZNF267	10308	NM_003414.3	0,04361632	-5,01090774
CAPRIN2	65981	NM_001002259.1	0,048340882	-4,990232538
MAP3K7IP2	23118	NM_015093.2	0,045203647	-4,963461377
CD40	958	NM_152854.2	0,017762443	-4,950019922
HNRNPL	3191	NM_001005335.1	0,016117343	-4,933394842

TTBK2	146057	NM_173500.3	0,036371619	-4,928907174
MRPL45	84311	NM_032351.3	0,027411961	-4,921941454
LGALS1	3956	NM_002305.3	7,38E-005	-4,915415555
HERC1	8925	NM_003922.3	0,035996242	-4,892082637
CXorf40A	91966	NM_178124.3	0,017491101	-4,866620602
PSKH1	5681	NM_006742.1	0,024351056	-4,840942737
H2AFB2	474381	NM_001017991.1	0,021546057	-4,801303546
AHCYL1	10768	NM_006621.4	0,024032434	-4,778272721
KIF16B	55614	NM_024704.3	0,03545115	-4,771450014
HTATIP2	10553	NM_001098523.1	0,035871497	-4,751598732
SLC7A11	23657	NM_014331.3	0,04462235	-4,738671399
TRPV2	51393	NM_016113.3	0,037913811	-4,733535644
RRAGA	10670	NM_006570.4	0,045011793	-4,716449159
SP1	6667	NM_138473.2	0,037514798	-4,709563565
SPRYD3	84926	NM_032840.1	0,046761265	-4,67835472
CGB1	114335	NM_033377.1	0,00360589	-4,668580498
MGC16385	92806	NM_145039.2	0,045270168	-4,557009673
CGB5	93659	NM_033043.1	0,00355218	-4,478708812
PLA1A	51365	NM_015900.1	0,001794297	-4,457445639
RHOQ	23433	NM_012249.3	0,047534869	-4,297378661
CSGALNACT2	55454	NM_018590.3	0,048551175	-3,966947937
HEXIM1	10614	NM_006460.2	0,008749605	-2,858212605
C6orf150	115004	NM_138441.2	0,032516593	-1,968768064
SEPHS1	22929	NM_012247.3	0,034320615	-1,668708433
MLLT6	4302	NM_005937.3	0,018722273	-1,513972168
SMN2	6607	NM_022876.1	0,010986021	-1,475481903
FOXJ2	55810	NM_018416.2	0,021714099	-1,464602778
FBRS	64319	NM_001105079.1	0,019008955	-1,413504301
TMEM194A	23306	NM_015257.1	0,023200524	-1,369143417
JUN	3725	NM_002228.3	0,025071425	-1,35897883

AAK1	22848	NM_014911.3	0,0319807	-1,301586558
RAB13	5872	NM_002870.2	0,025984994	-1,280953704
SMN1	6606	NM_022874.1	0,030931546	-1,175697831
CDKN1B	1027	NM_004064.2	0,046049695	-1,14838297
ENO2	2026	NM_001975.2	0,038098335	-1,037766356
C14orf166	51637	NM_016039.1	0,045260533	-1,002003369
HSPA1A	3303	NM_005345.4	0,042325368	-0,996290548
ID2	3398	NM_002166.4	0,045506577	-0,980314536
C19orf39	126074	NM_175871.2	0,049806417	0,966572001
RNASEH2B	79621	NM_024570.1	0,039407447	1,023293028
NSMAF	8439	NM_003580.2	0,045679515	1,027346304
C10orf2	56652	NM_021830.3	0,040710467	1,030315701
IGF2BP3	10643	NM_006547.2	0,029942005	1,209595059
EXOSC8	11340	NM_181503.1	0,02029216	1,223166668
ALG5	29880	NM_013338.3	0,02947646	1,237911597
PPRC1	23082	NM_015062.3	0,023660977	1,260913205
PPME1	51400	NM_016147.1	0,046016891	1,273090915
HAUS1	115106	NM_138443.2	0,015048391	1,328766085
GPR180	160897	NM_180989.4	0,049488576	1,385872165
POM121	9883	NM_172020.1	0,022099971	1,436575367
ATG4C	84938	NM_178221.1	0,022170897	1,460640169
MAD1L1	8379	NM_003550.2	0,038798027	1,469561324
MTHFR	4524	NM_005957.3	0,034730213	1,477569881
BCL6	604	NM_138931.1	0,048407035	1,485799298
PLEKHA8	84725	NM_032639.2	0,045251861	1,522448206
XRR1	143570	NM_182969.1	0,031354194	1,53309655
SPCS2	9789	NM_014752.1	0,020338045	1,54272244
FRS3	10817	NM_006653.3	0,014468693	1,545149688
GSK3B	2932	NM_002093.2	0,036693966	1,566176001
SAP18	10284	NM_005870.3	0,026160869	1,595996431

ZMYM5	9205	NM_001039650.1	0,00566903	1,900848628
CISD1	55847	NM_018464.2	0,04061485	1,9060713
IPMK	253430	NM_152230.3	0,049198933	2,264009713
EXOC3	11336	NM_007277.4	0,00175455	2,282593834
B3GNT1	11041	NM_006876.2	0,003106197	2,654175582
UBTF	7343	NM_001076683.1	0,042836593	3,637851992
TMEM80	283232	NM_174940.2	0,037736329	3,680729644
ABCA8	10351	NM_007168.2	0,007583106	3,694406558
DEAF1	10522	NM_021008.2	0,027544797	3,962429252
YKT6	10652	NM_006555.3	0,015631074	3,965480843
UBE2V2	7336	NM_003350.2	0,046527854	4,153553555
MBP	4155	NM_001025101.1	0,046562512	4,202902506
GNB1	2782	NM_002074.2	0,042466936	4,246135856
RAB3GAP1	22930	NM_012233.1	0,045815771	4,279542355
LPHN1	22859	NM_001008701.1	0,037668311	4,323584243
DENND5B	160518	NM_144973.3	0,04759435	4,406112661
HMGB1	3146	NM_002128.4	0,039462022	4,420111639
PSMC1	5700	NM_002802.2	0,044014501	4,487931837
SDHB	6390	NM_003000.2	0,03964237	4,497001666
DEF6	50619	NM_022047.3	0,036208228	4,561942734
TMEM5	10329	NM_014254.1	0,02149692	4,583771941
ING2	3622	NM_001564.2	0,048962203	4,598065208
PLOD1	5351	NM_000302.2	0,002826385	4,606110973
SCARB1	949	NM_005505.4	0,046914998	4,608725124
RAD9A	5883	NM_004584.2	0,032390015	4,610098127
BRCA2	675	NM_000059.3	0,027000299	4,62001271
E2F2	1870	NM_004091.2	0,048371024	4,628627127
PHTF1	10745	NM_006608.1	0,043977883	4,639479365
ZFAND2A	90637	NM_182491.1	0,036117923	4,666291969
LMO4	8543	NM_006769.2	0,014013705	4,709321185

MPP6	51678	NM_016447.2	0,04589263	4,720537051
HSD17B12	51144	NM_016142.2	0,021651718	4,721017185
C16orf87	388272	NM_001001436.2	0,032924563	4,727623543
HES1	3280	NM_005524.2	0,049590018	4,748665347
EIF4A3	9775	NM_014740.2	0,042922781	4,772838322
DENND1C	79958	NM_024898.2	0,045039415	4,787398689
NCOA3	8202	NM_006534.2	0,028186101	4,792742029
MYST3	7994	NM_006766.3	0,044343692	4,79391988
CD53	963	NM_001040033.1	0,040678855	4,81449201
NAGA	4668	NM_000262.1	0,021422268	4,82236025
ENSA	2029	NM_207045.1	0,030309654	4,871746755
GATAD1	57798	NM_021167.3	0,032817991	4,875678715
WASF2	10163	NM_006990.2	0,048739671	4,879069831
FGF8	2253	NM_033165.1	0,016303655	4,888039461
UCHL3	7347	NM_006002.3	0,040016755	4,910251529
RFC1	5981	NM_002913.3	0,031350323	4,912794152
ZNF616	90317	NM_178523.3	0,0330046	4,935598891
SUPV3L1	6832	NM_003171.3	0,047701997	4,957303104
CCL3L3	414062	NM_001001437.3	0,040779413	4,972261001
EXOSC5	56915	NM_020158.3	0,037916969	4,977386716
MRPL14	64928	NM_032111.2	0,029149864	4,977884461
SHFM1	7979	NM_006304.1	0,02891945	4,9806205
BCKDHA	593	NM_000709.2	0,035920081	4,999602496
EIF2AK3	9451	NM_004836.4	0,044481483	5,070857007
TPD52	7163	NM_001025253.1	0,045933659	5,093380737
AASDHPPT	60496	NM_015423.2	0,038863367	5,108922601
NPM3	10360	NM_006993.1	0,01440247	5,121519432
SKAP2	8935	NM_003930.3	0,034320941	5,122189596
UBAC2	337867	NM_177967.2	0,036637254	5,123937098
KATNAL1	84056	NM_001014380.1	0,030030534	5,1311331

ZNF321	399669	NM_203307.2	0,025443235	5,150821264
TMEM63B	55362	NM_018426.1	0,025118872	5,157953812
SDHC	6391	NM_001035512.1	0,027549578	5,160487567
PDS5B	23047	NM_015032.1	0,029130099	5,162618396
PDXP	57026	NM_020315.4	0,001077773	5,168202825
C7orf30	115416	NM_138446.1	0,014978247	5,174413409
ALG2	85365	NM_033087.3	0,037214308	5,177933807
PXK	54899	NM_017771.3	0,021519699	5,18479223
SWAP70	23075	NM_015055.2	0,044585672	5,204263908
SEC61B	10952	NM_006808.2	0,03500362	5,205369764
C22orf32	91689	NM_033318.3	0,015767892	5,217976675
KBTBD3	143879	NM_152433.2	0,035193637	5,240641835
HOXA6	3203	NM_024014.2	0,035147665	5,265255919
TLE4	7091	NM_007005.3	0,001356936	5,290697803
RCBTB1	55213	NM_018191.3	0,048474368	5,305200698
PAFAH1B2	5049	NM_002572.2	0,032582266	5,315411268
BLK	640	NM_001715.2	0,04901243	5,344501782
NUPL1	9818	NM_001008564.1	0,000156467	5,355656856
ANKRD13A	88455	NM_033121.1	0,018499552	5,357932709
ARID5B	84159	NM_032199.1	0,041765103	5,379189262
ATG9B	285973	NM_173681.4	0,000108902	5,38683106
NEK6	10783	NM_014397.3	0,04713031	5,400014762
GIT2	9815	NM_014776.2	0,019303315	5,404082362
MED25	81857	NM_030973.2	0,00047942	5,427891596
E2F5	1875	NM_001083588.1	0,018960326	5,431671703
ZFAND5	7763	NM_006007.2	0,034745861	5,468576566
RPE	6120	NM_199229.1	0,008411311	5,469778085
C9orf156	51531	NM_016481.3	0,025995269	5,496186145
C13orf34	79866	NM_024808.2	0,013694474	5,500316393
ABCB8	11194	NM_007188.3	0,000186627	5,502478864

RIN1	9610	NM_004292.2	3,15E-005	5,504602548
THAP8	199745	NM_152658.2	0,023346334	5,523249166
AKAP13	11214	NM_006738.4	0,022468035	5,533396988
KLHL6	89857	NM_130446.2	0,041224171	5,542225317
WDR62	284403	NM_001083961.1	0,022940139	5,551771767
C13orf37	440145	NM_001071775.1	0,013003669	5,553755847
TNFSF9	8744	NM_003811.2	3,43E-005	5,593045392
ARHGDI B	397	NM_001175.4	0,03614785	5,61001574
SYVN1	84447	NM_032431.2	0,036988841	5,614866059
CD19	930	NM_001770.4	0,010658909	5,640830279
RABEP2	79874	NM_024816.2	0,010596179	5,655026189
HPS4	89781	NM_022081.4	0,00971079	5,703570776
FAM78A	286336	NM_033387.3	0,024867453	5,714620484
SEC62	7095	NM_003262.3	0,019301064	5,723598964
GARS	2617	NM_002047.2	0,033626194	5,740623542
C13orf23	80209	NM_170719.2	0,033970914	5,743721037
COG3	83548	NM_031431.2	0,000734584	5,766910994
CDC5L	988	NM_001253.2	0,000388333	5,804227435
CUX1	1523	NM_181552.2	0,026945937	5,819027248
NIN	51199	NM_016350.3	0,0432938	5,853620403
KIAA2013	90231	NM_138346.1	2,16E-005	5,870163985
ZNF701	55762	NM_018260.1	0,000155303	5,87670707
MIOS	54468	NM_019005.3	6,66E-005	5,884312285
NHLRC3	387921	NM_001017370.1	0,031056427	5,891454107
ADD3	120	NM_016824.3	3,49E-005	5,900376113
CD27	939	NM_001242.4	0,021922508	5,911690757
EBF1	1879	NM_024007.2	0,014420728	5,91565322
LCP1	3936	NM_002298.2	0,021673511	5,922904554
BLNK	29760	NM_013314.2	0,033895025	5,929994088
SLC23A2	9962	NM_005116.5	0,000427851	5,942486972

ZNF33B	7582	NM_006955.1	0,001150391	5,950160697
TRIM22	10346	NM_006074.3	0,008086248	5,975354
ZNF608	57507	NM_020747.2	0,035515424	5,977009599
FANCA	2175	NM_000135.2	1,04E-005	6,008988783
ANAPC4	29945	NM_013367.2	0,000286871	6,012131298
ZNF611	81856	NM_030972.2	3,50E-005	6,028105039
WBP4	11193	NM_007187.3	0,010997309	6,049489954
ZNF765	91661	NM_001040185.1	0,000155694	6,058101021
ST6GAL1	6480	NM_173216.1	0,000588366	6,065203933
BRMS1	25855	NM_001024957.1	1,32E-005	6,066462924
LCA5L	150082	NM_152505.3	1,19E-005	6,069243777
SOBP	55084	NM_018013.3	2,56E-005	6,078422349
ZNF468	90333	NM_001008801.1	3,62E-005	6,10103055
MAST3	23031	NM_015016.1	1,17E-005	6,107889749
CCDC96	257236	NM_153376.2	1,55E-005	6,124597751
TADA2B	93624	NM_152293.2	1,55E-005	6,124597751
CWF19L1	55280	NM_018294.4	3,67E-005	6,126057568
SEC23IP	11196	NM_007190.2	8,65E-005	6,133425326
FUZ	80199	NM_025129.3	0,00011183	6,171242532
NSUN5	55695	NM_148956.1	2,52E-005	6,175467396
IL16	3603	NM_004513.4	1,19E-005	6,187706423
NECAB3	63941	NM_031231.3	0,00033538	6,191093163
ZNF791	163049	NM_153358.1	0,00018398	6,203567559
CD38	952	NM_001775.2	9,76E-006	6,20533255
SDCBP	6386	NM_001007068.1	7,06E-005	6,219692244
SYK	6850	NM_003177.3	5,36E-005	6,230661405
ZNF83	55769	NM_001105554.1	0,000224213	6,254511273
GNGT2	2793	NM_031498.1	1,09E-005	6,273817454
ABI3	51225	NM_016428.2	1,09E-005	6,273817454
PTK2B	2185	NM_173176.1	0,000125781	6,283094664

LRCH4	4034	NM_002319.3	3,52E-005	6,339343776
TEP1	7011	NM_007110.3	6,97E-005	6,348309625
C6orf225	619208	NM_001033564.1	0,001303518	6,349901851
PAX5	5079	NM_016734.1	0,029708383	6,363309635
TUBE1	51175	NM_016262.3	0,001013399	6,369492458
ZNF480	147657	NM_144684.1	2,26E-005	6,379945806
CNDP2	55748	NM_018235.1	0,000371808	6,384651963
ZNF490	57474	NM_020714.1	4,73E-005	6,394261045
ACTR6	64431	NM_022496.3	2,58E-005	6,418540329
CDC16	8881	NM_003903.3	2,15E-005	6,453381141
ZNF572	137209	NM_152412.1	7,19E-005	6,455705409
TOMM7	54543	NM_019059.2	1,39E-005	6,481776919
RASAL1	8437	NM_004658.1	9,36E-006	6,496023128
RFXAP	5994	NM_000538.2	1,19E-005	6,498900874
RASGRP2	10235	NM_153819.1	2,55E-005	6,506038373
MTAP	4507	NM_002451.3	9,60E-006	6,508043692
ING4	51147	NM_016162.2	2,00E-005	6,510257006
PCID2	55795	NM_018386.1	1,45E-005	6,513104035
SH2D3A	10045	NM_005490.1	1,40E-005	6,530215318
C13orf1	57213	NM_020456.1	8,71E-006	6,531901568
UPF3A	65110	NM_080687.1	8,21E-006	6,533132053
ZNF665	79788	NM_024733.3	1,24E-005	6,533730455
LIG4	3981	NM_001098268.1	2,74E-005	6,536947863
KIAA1826	84437	NM_032424.1	8,88E-006	6,550672042
HCLS1	3059	NM_005335.3	9,59E-006	6,561701682
INO80C	125476	NM_194281.3	7,15E-006	6,561804067
XPNPEP1	7511	NM_020383.2	9,55E-006	6,568223423
TTLL1	25809	NM_012263.3	6,71E-006	6,571510281
SFMBT2	57713	NM_001029880.1	2,20E-005	6,573733851
TMEM135	65084	NM_022918.2	1,81E-005	6,600566017

NDNL2	56160	NM_138704.2	0,000327833	6,613190234
BRWD1	54014	NM_018963.3	7,49E-006	6,617663688
CYP2R1	120227	NM_024514.4	1,17E-005	6,620147155
UMPS	7372	NM_000373.1	4,20E-005	6,622707485
TXNL4A	10907	NM_006701.2	5,67E-005	6,623752331
CENPJ	55835	NM_018451.3	6,18E-005	6,627623737
SH3BGR	6450	NM_001001713.1	6,83E-006	6,639551964
COTL1	23406	NM_021149.2	1,22E-005	6,64064987
RASSF2	9770	NM_170774.1	1,15E-005	6,654331544
VWCE	220001	NM_152718.2	2,24E-005	6,659512725
LHFP	10186	NM_005780.2	1,04E-005	6,663456909
KAT2B	8850	NM_003884.4	4,67E-005	6,66407372
SLC25A42	284439	NM_178526.2	6,92E-005	6,666128308
LYN	4067	NM_002350.1	6,41E-005	6,670428665
CD52	1043	NM_001803.2	1,18E-005	6,673650028
VAMP5	10791	NM_006634.2	1,06E-005	6,680802931
FAM168A	23201	NM_015159.1	1,65E-005	6,682992072
TUBA4A	7277	NM_006000.1	6,71E-005	6,70825773
NT5C3	51251	NM_001002010.1	3,76E-005	6,712094595
PRDM2	7799	NM_001007257.1	0,000101136	6,713006159
RHOBTB2	23221	NM_015178.1	6,72E-005	6,714228953
HAUS3	79441	NM_024511.5	1,36E-005	6,725009832
JMJD1C	221037	NM_032776.1	1,72E-005	6,734141078
LRCH1	23143	NM_015116.1	3,52E-005	6,751363003
NARG1L	79612	NM_024561.3	1,84E-005	6,77476557
PPP5C	5536	NM_006247.2	6,46E-006	6,776239968
SPI1	6688	NM_001080547.1	6,07E-006	6,779793004
VAV1	7409	NM_005428.2	7,57E-006	6,781495779
FAM3C	10447	NM_014888.2	2,82E-005	6,783962041
VAMP8	8673	NM_003761.2	1,49E-005	6,786202187

TMC6	11322	NM_007267.5	1,07E-005	6,791368098
TAF4B	6875	NM_005640.1	9,96E-005	6,79643202
AFF3	3899	NM_002285.2	5,92E-006	6,796833428
CUL4A	8451	NM_003589.2	9,33E-006	6,801878474
ADIPOR2	79602	NM_024551.2	8,16E-005	6,820553156
ZNF28	7576	NM_006969.2	8,95E-006	6,827149157
TFEB	7942	NM_007162.1	6,77E-006	6,827678434
MARK2	2011	NM_001039468.1	8,03E-006	6,827692104
TRAF3IP2	10758	NM_147200.1	5,97E-006	6,834349085
LYL1	4066	NM_005583.3	3,06E-005	6,850724186
SLAMF6	114836	NM_052931.3	2,11E-005	6,853926379
ZBED3	84327	NM_032367.2	6,71E-006	6,8620722
C5orf13	9315	NM_004772.1	1,28E-005	6,864995822
LRRC23	10233	NM_006992.2	6,29E-006	6,870992051
TTC1	7265	NM_003314.1	5,31E-006	6,872082784
PLEK	5341	NM_002664.2	0,00022447	6,87745404
VPS36	51028	NM_016075.2	4,21E-005	6,878522915
TPT1	7178	NM_003295.2	6,57E-006	6,880042272
RNF6	6049	NM_183044.1	1,20E-005	6,888297617
GTPBP10	85865	NM_001042717.1	0,000112287	6,890484825
PCDHGC4	56098	NM_018928.2	3,29E-005	6,892320368
EBAG9	9166	NM_198120.1	2,99E-005	6,896614597
EVI2A	2123	NM_014210.2	5,66E-006	6,898317627
ERCC5	2073	NM_000123.2	7,18E-006	6,90559837
CYTH4	27128	NM_013385.2	1,80E-005	6,919285988
FBXO24	26261	NM_033506.2	1,56E-005	6,924390033
PMPCB	9512	NM_004279.2	9,16E-006	6,941761144
KIAA1370	56204	NM_019600.2	3,27E-005	6,942504897
C1orf220	400798	NM_207467.1	0,000288483	6,949663164
KIAA1407	57577	NM_020817.1	1,60E-005	6,957870128

TRIM59	286827	NM_173084.2	1,18E-005	6,960787797
NR4A1	3164	NM_173157.1	6,93E-006	6,972044936
SMAD3	4088	NM_005902.3	1,72E-005	6,972862789
ZNF160	90338	NM_198893.2	5,83E-006	6,977960194
UBXN11	91544	NM_145345.2	5,46E-006	6,996503404
FGD2	221472	NM_173558.2	5,02E-006	6,997153696
FOXO1	2308	NM_002015.3	7,96E-005	6,998136713
C3orf37	56941	NM_001006109.1	2,11E-005	7,001628321
C7orf10	79783	NM_024728.1	6,33E-006	7,007687147
C7orf11	136647	NM_138701.1	6,07E-006	7,009809083
CD72	971	NM_001782.1	2,02E-005	7,018966078
HBP1	26959	NM_012257.3	3,02E-005	7,024862886
CCNE2	9134	NM_057749.1	4,80E-005	7,042369314
FAM81A	145773	NM_152450.2	1,51E-005	7,046344015
TLR10	81793	NM_001017388.1	4,67E-006	7,046627625
QTRTD1	79691	NM_024638.2	9,22E-006	7,06288472
CKAP2	26586	NM_018204.3	6,43E-005	7,0719264
PFTK1	5218	NM_012395.2	3,02E-005	7,087651316
AGPAT6	137964	NM_178819.2	2,34E-005	7,104299044
ZNF420	147923	NM_144689.3	1,50E-005	7,107532716
PLEKHF2	79666	NM_024613.2	7,61E-005	7,110639072
ZNF573	126231	NM_152360.2	5,27E-006	7,12581315
XYLT1	64131	NM_022166.3	4,48E-006	7,143328499
CD79A	973	NM_021601.3	8,04E-006	7,144976446
CCND3	896	NM_001760.2	7,08E-006	7,150839107
NCF1	653361	NM_000265.4	4,62E-006	7,157304968
CD22	933	NM_001771.2	5,23E-006	7,169085999
FCRLA	84824	NM_032738.3	5,22E-006	7,195637338
P2RY8	286530	NM_178129.3	5,38E-006	7,198714521
RNGTT	8732	NM_003800.3	5,66E-006	7,199991108

POU2AF1	5450	NM_006235.1	5,97E-006	7,207354171
SASH3	54440	NM_018990.2	1,85E-005	7,209975661
EVI2B	2124	NM_006495.3	4,36E-006	7,211612332
PTPN7	5778	NM_080588.1	4,37E-006	7,214412634
HDAC9	9734	NM_178425.2	1,60E-005	7,218110652
ATP5A1	498	NM_001001937.1	4,73E-006	7,252406345
ARMC8	25852	NM_015396.3	4,23E-006	7,27657871
PCDHGC3	5098	NM_032403.1	1,58E-005	7,290493012
TPP2	7174	NM_003291.1	1,19E-005	7,320596558
OSBPL8	114882	NM_020841.4	1,21E-005	7,332332223
SYTL1	84958	NM_032872.1	3,81E-006	7,340414785
CD84	8832	NM_003874.1	9,52E-006	7,343239025
ABHD13	84945	NM_032859.2	2,45E-005	7,377006782
TP53INP1	94241	NM_033285.2	9,73E-006	7,384038825
POLD4	57804	NM_021173.2	1,23E-005	7,387312521
CDADC1	81602	NM_030911.1	4,20E-006	7,394381592
TRIM5	85363	NM_033034.1	6,40E-006	7,474134236
ALOX5	240	NM_000698.2	7,75E-006	7,500896546
LY86	9450	NM_004271.3	6,24E-006	7,514687729
RUNDC2B	400509	NM_001012391.1	4,95E-006	7,521215985
CD180	4064	NM_005582.1	4,03E-006	7,556756308
TMC8	147138	NM_152468.3	2,83E-005	7,565080753
RCSD1	92241	NM_052862.2	7,69E-005	7,594177231
S1PR2	9294	NM_004230.3	8,63E-006	7,602934703
ELL3	80237	NM_025165.2	1,18E-005	7,608274764
CYFIP2	26999	NM_001037332.2	6,72E-006	7,639360576
BCL7A	605	NM_020993.3	3,29E-006	7,652945528
RALGPS2	55103	NM_152663.2	1,03E-005	7,720302496
POU2F2	5452	NM_002698.2	2,92E-006	7,781056925
DTX1	1840	NM_004416.2	3,44E-006	7,918165301

BACH2	60468	NM_021813.1	4,45E-006	7,93036795
PVRIG	79037	NM_024070.3	3,47E-006	7,992549392
CD79B	974	NM_021602.2	2,55E-006	8,048696043
KIAA0746	23231	NM_015187.3	0,000129718	8,24040533
C13orf18	80183	NM_025113.2	7,61E-006	8,262873376

Supplementary Table S3 b: The colors in this table match the colored gene groups in Figure 2. The specifically acetylated genes in PCM cell lines (n=143) and B-cell lines (B2AC in Figure 2: n=591) determined by the comparison of PCM and B-cell lines is shown. The 17 genes which were collectively and significantly acetylated in the cHL and PCM cell lines are marked in red in the cHL and PCM specific gene lists. Furthermore the 141 genes which were found in the intersection of the two B-cell groups (which are therefore jointly hypoacetylated in cHL and PCM cell lines) are marked in blue.

Name	Entrez Gene	Ref Seq	p-value (Acetylation)	Ratio
ADM	133	NM_001124.1	1,28E-005	-5,875119778
ST3GAL6	10402	NM_006100.2	1,97E-005	-5,575869162
VIM	7431	NM_003380.2	1,97E-005	-5,526947273
CXXC4	80319	NM_025212.1	2,11E-005	-5,498378722
TERT	7015	NM_198255.2	4,27E-005	-5,48336696
LIMD1	8994	NM_014240.2	1,86E-005	-5,472751477
RUNX2	860	NM_004348.3	3,40E-005	-5,46664262
PLEKHH3	79990	NM_024927.3	3,20E-005	-5,355319777
C1orf106	55765	NM_018265.1	3,52E-005	-5,353733913
CNTNAP1	8506	NM_003632.1	2,92E-005	-5,301716372
GAS2	2620	NM_177553.1	3,73E-005	-5,23051962
VPS37B	79720	NM_024667.1	2,64E-005	-5,16262903
ATP8B2	57198	NM_020452.2	4,52E-005	-5,048046111
ELL2	22936	NM_012081.5	4,91E-005	-5,015593475
EFNA5	1946	NM_001962.1	0,000254995	-4,947501238
CABLES1	91768	NM_001100619.1	9,67E-005	-4,925739923
ITGA8	8516	NM_003638.1	6,69E-005	-4,924688288
BEND6	221336	NM_152731.2	3,33E-005	-4,921183734
SBF2	81846	NM_030962.2	4,71E-005	-4,920417414
GUCY1A3	2982	NM_000856.3	0,000185859	-4,908329186
ZNF217	7764	NM_006526.2	0,006472581	-4,877590766

SNX18	112574	NM_001102575.1	3,58E-005	-4,861733152
NCRNA00173	400077	NM_207436.1	4,38E-005	-4,85760706
RHOB	388	NM_004040.2	3,91E-005	-4,851860677
GPR25	2848	NM_005298.2	4,61E-005	-4,846423148
YES1	7525	NM_005433.3	4,38E-005	-4,817450662
RBM47	54502	NM_001098634.1	9,08E-005	-4,751147303
PPARGC1A	10891	NM_013261.3	0,000132563	-4,750362854
STBD1	8987	NM_003943.2	0,00043996	-4,744364819
DDR2	4921	NM_006182.2	9,89E-005	-4,740229464
FBXO3	26273	NM_012175.3	4,43E-005	-4,738831087
C3orf59	151963	NM_178496.2	7,29E-005	-4,734304729
ABCD2	225	NM_005164.2	7,44E-005	-4,693870335
PMEPA1	56937	NM_020182.3	0,000113197	-4,645632249
C12orf40	283461	NM_001031748.2	6,36E-005	-4,635993702
PRDM1	639	NM_001198.2	9,49E-005	-4,634782051
GALM	130589	NM_138801.1	8,13E-005	-4,571376081
CCR10	2826	NM_016602.2	5,62E-005	-4,563417858
TUBG2	27175	NM_016437.1	6,10E-005	-4,56196891
IRF4	3662	NM_002460.1	0,000372568	-4,556509836
TMEM173	340061	NM_198282.1	0,000127182	-4,55362503
DPF3	8110	NM_012074.3	0,000106571	-4,543576487
FBXL7	23194	NM_012304.3	6,02E-005	-4,50608761
DST	667	NM_183380.2	6,62E-005	-4,488784548
KANK1	23189	NM_153186.3	0,000163949	-4,48104208
WDR13	64743	NM_017883.3	7,43E-005	-4,47346276
HSPB1	3315	NM_001540.2	8,01E-005	-4,471372501
CADM1	23705	NM_001098517.1	0,000118577	-4,45981995
FRMD6	122786	NM_152330.3	0,000392067	-4,451383074
ANKRD16	54522	NM_019046.1	0,000529658	-4,451255891
PIF1	80119	NM_025049.2	0,000116556	-4,444147371

ZNF281	23528	NM_012482.3	8,32E-005	-4,439611282
MARCH3	115123	NM_178450.2	7,93E-005	-4,430090731
KCTD3	51133	NM_016121.3	7,20E-005	-4,409288467
SHROOM3	57619	NM_020859.2	0,000207163	-4,401936422
FBXO18	84893	NM_178150.1	0,000442726	-4,394744591
DACH1	1602	NM_080760.3	0,000537062	-4,386225312
C1orf21	81563	NM_030806.3	0,000140219	-4,37492491
GYG1	2992	NM_004130.2	0,000104728	-4,363449245
BOLA1	51027	NM_016074.2	0,000244482	-4,339968083
SMOC1	64093	NM_022137.4	7,58E-005	-4,336112776
MDFIC	29969	NM_199072.3	0,00017028	-4,329673951
PHAX	51808	NM_032177.2	0,000108797	-4,311724149
RNF11	26994	NM_014372.4	8,20E-005	-4,301538691
CD99L2	83692	NM_031462.2	0,000106567	-4,296997284
GPATCH2	55105	NM_018040.2	0,000720634	-4,275108657
CD59	966	NM_203330.1	7,26E-005	-4,273074981
ZMYND11	10771	NM_006624.3	0,00099295	-4,254345004
N4BP2L1	90634	NM_001079691.1	0,000154817	-4,234291215
AGAP1	116987	NM_014914.3	7,85E-005	-4,231865875
FAM18B2	201158	NM_145301.1	0,000134887	-4,223217669
AGK	55750	NM_018238.2	0,000502521	-4,220647848
CCND2	894	NM_001759.2	0,013891886	-4,198454807
SPRY1	10252	NM_199327.1	0,000178541	-4,186930138
HTN3	3347	NM_000200.1	0,000123073	-4,185927036
TCEAL1	9338	NM_001006640.1	0,000130918	-4,181595514
RHOC	389	NM_175744.4	0,000118387	-4,180874007
IFT81	28981	NM_014055.2	0,000105053	-4,163396397
RGS1	5996	NM_002922.3	0,000116546	-4,161600208
DNPEP	23549	NM_012100.2	0,000113288	-4,155729856
KLF2	10365	NM_016270.2	8,40E-005	-4,1515847

CCR1	1230	NM_001295.2	0,012015281	-4,135262844
CRY1	1407	NM_004075.2	0,000108055	-4,101288729
TOM1L2	146691	NM_001082968.1	0,00016892	-4,082189253
SPATA17	128153	NM_138796.2	0,000484304	-4,078071966
LRRC48	83450	NM_031294.2	0,000176068	-4,064881606
OSBPL9	114883	NM_024586.3	0,000156307	-4,055572151
XKRY	9082	NM_004677.2	0,0001194	-4,026257488
C16orf7	9605	NM_004913.2	0,000276907	-4,025093578
ULK3	25989	NM_001099436.1	0,000138335	-4,022426319
NOXO1	124056	NM_144603.2	0,000187643	-4,019605619
SYNGR3	9143	NM_004209.4	0,000187643	-4,019605619
MREG	55686	NM_018000.2	0,000126323	-4,009598824
LAIR2	3904	NM_021270.2	0,000248143	-4,002328903
TOR3A	64222	NM_022371.3	0,014743699	-3,982381922
OTUD7B	56957	NM_020205.2	0,000238342	-3,980433534
SPAG4	6676	NM_003116.1	0,000145389	-3,962158106
GRM3	2913	NM_000840.2	0,000117795	-3,958950999
EHBP1	23301	NM_015252.2	0,000548694	-3,93693787
KIF21A	55605	NM_017641.2	0,000125493	-3,921604295
SLC9A3R1	9368	NM_004252.2	0,000444708	-3,904982077
ZNF276	92822	NM_152287.2	0,000266765	-3,901467879
NFIL3	4783	NM_005384.2	0,028852993	-3,870648597
NPY2R	4887	NM_000910.2	0,000556907	-3,867062486
ALDH7A1	501	NM_001182.2	0,000196011	-3,861955247
GPC6	10082	NM_005708.2	0,000608426	-3,852167572
HSPA1L	3305	NM_005527.3	0,019317006	-3,817695322
TNFRSF13B	23495	NM_012452.2	0,028256432	-3,803371934
RNF122	79845	NM_024787.2	0,02564808	-3,800007088
CASP8	841	NM_001080125.1	0,006459469	-3,781617954
GFER	2671	NM_005262.2	0,000911586	-3,771044114

KIF14	9928	NM_014875.1	0,000259333	-3,761726465
PCTP	58488	NM_021213.2	0,000199783	-3,753834504
BAZ2B	29994	NM_013450.2	0,000395894	-3,743644613
TMEM65	157378	NM_194291.2	0,03356711	-3,741766452
LCE2D	353141	NM_178430.2	0,001931468	-3,651134033
TSHR	7253	NM_000369.2	0,033262957	-3,541946855
EDEM3	80267	NM_025191.2	0,049556208	-3,518750375
IDH3A	3419	NM_005530.2	0,000544505	-3,516168206
OXSM	54995	NM_017897.1	0,014361577	-3,506174452
IL6ST	3572	NM_002184.2	0,047758872	-3,501280599
SIAH1	6477	NM_001006610.1	0,027077832	-3,481383741
UAP1	6675	NM_003115.4	0,028361361	-3,452638961
NGLY1	55768	NM_018297.2	0,01690247	-3,361780261
ERMP1	79956	NM_024896.2	0,007699465	-3,351245228
SOX12	6666	NM_006943.2	0,007799879	-3,31107739
ELK3	2004	NM_005230.2	0,041154833	-3,296690783
PPIF	10105	NM_005729.3	0,041879136	-3,263238808
SLC7A11	23657	NM_014331.3	0,042278933	-3,259862977
RYBP	23429	NM_012234.4	0,043385106	-3,119928462
NPEPPS	9520	NM_006310.2	0,028572265	-3,119245047
C9orf119	375757	NM_001040011.1	0,020065551	-3,064402308
HNRNPL	3191	NM_001005335.1	0,025387073	-3,015546825
MGST3	4259	NM_004528.2	0,033235609	-3,015405156
GOLGA2	2801	NM_004486.4	0,021765175	-2,986630855
SOCS5	9655	NM_014011.4	0,038660397	-2,946637654
EIF4EBP2	1979	NM_004096.3	0,045944261	-2,900740625
FXR1	8087	NM_005087.2	0,040137445	-2,732711769
HNRPLL	92906	NM_138394.2	0,029983199	-2,635220473
TXNDC5	81567	NM_030810.2	0,016459302	-1,987308998
HIST1H3F	8968	NM_021018.2	0,038303084	-1,835582346

HIST1H4G	8369	NM_003547.2	0,035353718	-1,78469719
HIST1H2BH	8345	NM_003524.2	0,03887395	-1,772711712
RHOH	399	NM_004310.3	0,046700043	1,12453193
STRADA	92335	NM_153335.4	0,037332453	1,153601021
AGER	177	NM_172197.1	0,047075318	1,180928507
LPXN	9404	NM_004811.1	0,047250822	1,213806845
XPC	7508	NM_004628.3	0,047678108	1,227443319
SFRS15	57466	NM_020706.1	0,024537119	1,272838428
C2orf49	79074	NM_024093.1	0,043672449	1,277432281
DCLRE1A	9937	NM_014881.2	0,030236031	1,282754909
WBP4	11193	NM_007187.3	0,039921212	1,282830221
MFAP1	4236	NM_005926.2	0,02433194	1,301418344
REV3L	5980	NM_002912.3	0,035885252	1,322409152
ZFAND5	7763	NM_006007.2	0,024762529	1,409653907
WDR76	79968	NM_024908.2	0,012970959	1,595681691
RRM1	6240	NM_001033.3	0,014409711	1,746204077
CCT8L1	155100	NM_001029866.2	0,046155526	2,386651132
WDFY2	115825	NM_052950.3	0,036303759	2,647830394
CCDC77	84318	NM_032358.2	0,025383844	2,697228535
CAPS	828	NM_004058.2	0,001291804	2,794155981
MIOS	54468	NM_019005.3	0,041571947	2,905865647
C7orf10	79783	NM_024728.1	0,030156848	2,921511352
C7orf11	136647	NM_138701.1	0,030049382	2,922982166
USHBP1	83878	NM_031941.3	0,04819701	2,941660018
IFNGR2	3460	NM_005534.2	0,038956562	2,969936432
TMEM77	128338	NM_178454.3	0,042075046	2,984556209
ABCD3	5825	NM_002858.2	0,043647578	3,000758783
HLTF	6596	NM_003071.3	0,040894797	3,021731981
APOBEC3F	200316	NM_145298.5	0,027574406	3,033659574
C9orf82	79886	NM_024828.2	0,041676294	3,066683145

C17orf80	55028	NM_001100621.1	0,02792921	3,067326287
LACE1	246269	NM_145315.3	0,036864717	3,079957401
RNF111	54778	NM_017610.6	0,047417962	3,093161377
C7orf49	78996	NM_024033.1	0,040654476	3,095295391
API5	8539	NM_006595.2	0,044554877	3,095376938
HSPA4L	22824	NM_014278.2	0,045987778	3,096954016
HDDC2	51020	NM_016063.2	0,046488401	3,103130195
C1orf213	148898	NM_138479.2	0,044936741	3,112821071
FAM104A	84923	NM_032837.2	0,026161996	3,121714507
PAWR	5074	NM_002583.2	0,048896456	3,1252486
AFF4	27125	NM_014423.3	0,044313812	3,125611703
C10orf84	63877	NM_022063.1	0,043321335	3,130822776
CLDND2	125875	NM_152353.1	0,008477584	3,135004719
LARS	51520	NM_020117.9	0,047977783	3,135270095
MRPL23	6150	NM_021134.2	0,03766958	3,146625593
C6orf114	85411	NM_033069.2	0,047764996	3,148697571
MAPKAP1	79109	NM_024117.3	0,038492143	3,149846349
TUBA1A	7846	NM_006009.2	0,037770757	3,160247153
GNB1	2782	NM_002074.2	0,017115735	3,167511921
RACGAP1	29127	NM_013277.2	0,040538239	3,168220908
SPTLC2	9517	NM_004863.2	0,04030823	3,170118289
MAST2	23139	NM_015112.2	0,039192264	3,170277781
MTHFS	10588	NM_006441.2	0,042453809	3,172303752
PARP11	57097	NM_020367.3	0,03676114	3,173356729
SP2	6668	NM_003110.5	0,043402655	3,174770292
TIGD5	84948	NM_032862.3	0,030255762	3,179404338
ORC4L	5000	NM_181741.1	0,045788981	3,180268575
PSMB11	122706	NM_001099780.1	0,046189577	3,188262665
SEC11C	90701	NM_033280.2	0,031066674	3,191626767
PLOD1	5351	NM_000302.2	0,003658379	3,192712834

FAM120B	84498	NM_032448.1	0,037214814	3,193958627
CEPT1	10390	NM_001007794.1	0,026661448	3,195225921
GLA	2717	NM_000169.2	0,037022605	3,201137178
OSBP	5007	NM_002556.2	0,037781226	3,202330065
EEF1D	1936	NM_032378.2	0,036801754	3,203642251
C9orf114	51490	NM_016390.2	0,045109502	3,211762436
FAM154B	283726	NM_001008226.1	0,048221788	3,213788602
HNRNPH2	3188	NM_019597.3	0,044180593	3,213881872
IFFO1	25900	NM_001039670.1	0,035573567	3,222335286
CAMK1D	57118	NM_153498.2	0,046876478	3,228597866
ZNF326	284695	NM_182976.2	0,01802863	3,229308185
RNF6	6049	NM_005977.3	0,040878297	3,237620719
C19orf62	29086	NM_014173.2	0,038777464	3,239212257
TUBGCP3	10426	NM_006322.4	0,040885197	3,242378321
C7orf42	55069	NM_017994.4	0,047084037	3,247911931
RHOBTB2	23221	NM_015178.1	0,048787161	3,252053152
MPP6	51678	NM_016447.2	0,045316242	3,252162916
SAV1	60485	NM_021818.2	0,032343702	3,25292914
NUP107	57122	NM_020401.2	0,04356885	3,254554297
MLF1IP	79682	NM_024629.2	0,034757762	3,25624396
PLK1	5347	NM_005030.3	0,049916285	3,259930941
TMEM161A	54929	NM_017814.1	0,044936123	3,260712858
THUMPD2	80745	NM_025264.3	0,021879431	3,260836668
MKRN1	23608	NM_013446.2	0,025009482	3,265638542
ICT1	3396	NM_001545.1	0,046224451	3,273248936
SLU7	10569	NM_006425.4	0,043207861	3,277638424
LAP3	51056	NM_015907.2	0,049942874	3,278294318
SHFM1	7979	NM_006304.1	0,046982603	3,283411387
SEC13	6396	NM_183352.1	0,032017334	3,284063846
RFC1	5981	NM_002913.3	0,043599725	3,284300125

STAT5B	6777	NM_012448.3	0,037908317	3,28703023
DOCK2	1794	NM_004946.1	0,039479035	3,289617175
INO80C	125476	NM_194281.3	0,029965594	3,297156663
AP4M1	9179	NM_004722.3	0,023261855	3,309798597
ASTL	431705	NM_001002036.3	0,045354603	3,313565991
ETNK1	55500	NM_018638.4	0,013606624	3,314402186
FBXO42	54455	NM_018994.1	0,022657917	3,314509428
C1orf31	388753	NM_001012985.1	0,035194742	3,316847349
C10orf4	118924	NM_145246.3	0,039452953	3,327934074
CD83	9308	NM_004233.3	0,036857467	3,336044131
TIPIN	54962	NM_017858.2	0,047341508	3,344676681
ZUFSP	221302	NM_145062.1	0,041631741	3,346992295
TMEM184C	55751	NM_018241.1	0,031395315	3,349198428
C12orf43	64897	NM_022895.1	0,029717228	3,349250348
HERC4	26091	NM_022079.2	0,020216679	3,349531162
SGTA	6449	NM_003021.3	0,032412002	3,3501955
OMA1	115209	NM_145243.3	0,0256138	3,351774888
HES1	3280	NM_005524.2	0,037426284	3,355786359
ANKLE1	126549	NM_152363.3	0,01911683	3,362409363
CCS	9973	NM_005125.1	0,021895039	3,362487918
JMJD1C	221037	NM_032776.1	0,032782035	3,36507924
ARL6IP6	151188	NM_152522.3	0,038429768	3,36905307
RNF144B	255488	NM_182757.2	0,029335992	3,372505921
SGPP1	81537	NM_030791.2	0,036316486	3,377019228
FKBP5	2289	NM_004117.2	0,019378352	3,377593686
NFS1	9054	NM_021100.3	0,036569072	3,384507478
DUSP2	1844	NM_004418.2	0,044588418	3,384792846
ALKBH6	84964	NM_032878.3	0,049357767	3,387502717
OSGEPL1	64172	NM_022353.2	0,035496416	3,38758441
ASB1	51665	NM_001040445.1	0,046299349	3,389858999

SFXN1	94081	NM_022754.4	0,012183689	3,392422241
DBF4B	80174	NM_145663.1	0,047571988	3,393820041
FUS	2521	NM_004960.2	0,044334337	3,401030528
UVRAG	7405	NM_003369.3	0,044898075	3,401923309
THOP1	7064	NM_003249.3	0,029944696	3,404509642
C14orf109	26175	NM_001098621.1	0,037548794	3,404566563
SUPT7L	9913	NM_014860.1	0,048902208	3,404702364
AP1GBP1	11276	NM_007247.3	0,01185158	3,409834767
WDR89	112840	NM_001008726.1	0,030317263	3,413236886
PRPF40A	55660	NM_017892.3	0,037432067	3,416241164
HSP90AA1	3320	NM_005348.3	0,047490317	3,416767202
C7orf43	55262	NM_018275.3	0,022052278	3,419527646
CDC40	51362	NM_015891.2	0,033877465	3,42084357
PEF1	553115	NM_012392.2	0,043131416	3,421088056
ACTR6	64431	NM_022496.3	0,014722151	3,421689809
C6orf89	221477	NM_152734.3	0,041985806	3,425040351
WASF2	10163	NM_006990.2	0,039182955	3,425856585
STAU1	6780	NM_017452.2	0,01789472	3,433524391
CRKL	1399	NM_005207.2	0,03538616	3,434236291
MARK2	2011	NM_001039468.1	0,029265938	3,435322099
ANLN	54443	NM_018685.2	0,043542404	3,43665837
RPS20	6224	NM_001023.2	0,035261987	3,437724076
PSMA6	5687	NM_002791.1	0,02257844	3,44506503
FAM168A	23201	NM_015159.1	0,022131121	3,448453358
MYST2	11143	NM_007067.3	0,032661359	3,451017954
ATG4C	84938	NM_178221.1	0,02709882	3,465248888
DEK	7913	NM_003472.3	0,028493417	3,466097701
ROMO1	140823	NM_080748.2	0,040797814	3,468195193
CCDC87	55231	NM_018219.2	0,022999742	3,469575305
PPIG	9360	NM_004792.2	0,042414216	3,469715891

PSMB5	5693	NM_002797.2	0,039211467	3,471611351
GGA1	26088	NM_013365.3	0,030994416	3,472128883
RANBP6	26953	NM_012416.2	0,030568276	3,472159135
GORASP2	26003	NM_015530.3	0,02061281	3,473019054
CASC5	57082	NM_144508.3	0,01844358	3,475698608
SPC25	57405	NM_020675.3	0,024981756	3,477423075
RNMTL1	55178	NM_018146.2	0,039715278	3,480434435
AKAP11	11215	NM_016248.2	0,04857354	3,482309166
SLC26A8	116369	NM_052961.2	0,03402631	3,482839224
FGF8	2253	NM_033165.1	0,010411827	3,484771342
ZNF160	90338	NM_198893.2	0,03123215	3,487126038
PFTK1	5218	NM_012395.2	0,039239308	3,488776946
PSMD14	10213	NM_005805.3	0,044210398	3,491545477
KIAA0892	23383	NM_015329.3	0,045186756	3,491756715
PGGT1B	5229	NM_005023.2	0,039231422	3,492023337
PRKCE	5581	NM_005400.2	0,024975166	3,492975697
SENP3	26168	NM_015670.4	0,033079178	3,49420022
KLHDC3	116138	NM_057161.2	0,04231598	3,498125848
WHAMM	123720	NM_001080435.1	0,028960997	3,504064623
NIF3L1	60491	NM_021824.2	0,025763664	3,506504788
TAF2	6873	NM_003184.3	0,029699684	3,508623074
ATP6V0E1	8992	NM_003945.3	0,028264398	3,51170329
MCM7	4176	NM_182776.1	0,009206691	3,516456173
UBL3	5412	NM_007106.2	0,034638077	3,521507576
MAPK14	1432	NM_139014.1	0,03300997	3,521919518
CMAS	55907	NM_018686.3	0,024630152	3,523155544
DNAJC10	54431	NM_018981.1	0,029027824	3,524055188
NUDT15	55270	NM_018283.1	0,032192423	3,524155403
SF4	57794	NM_172231.2	0,04152526	3,525869879
ADAT2	134637	NM_182503.2	0,02450641	3,526357549

UBAC2	337867	NM_177967.2	0,036138606	3,528118968
HMGN1	3150	NM_004965.6	0,037079937	3,537741699
ANKRD36B	57730	NM_025190.2	0,048700757	3,539245656
HSPH1	10808	NM_006644.2	0,031231463	3,542347665
GGA2	23062	NM_015044.3	0,015415774	3,552001293
ZNF573	126231	NM_152360.2	0,031813835	3,552942933
PEX3	8504	NM_003630.1	0,023655107	3,554170132
SHPRH	257218	NM_173082.2	0,014060012	3,556085185
RABEP2	79874	NM_024816.2	0,037016953	3,559744789
DDX41	51428	NM_016222.2	0,022211061	3,56003747
MTRF1	9617	NM_004294.2	0,028044628	3,560710803
ZC3H15	55854	NM_018471.2	0,028799305	3,561114385
FAM111B	374393	NM_198947.2	0,035460212	3,564078126
TNKS2	80351	NM_025235.2	0,031102785	3,566556765
MMD	23531	NM_012329.2	0,02251536	3,568338836
OCIAD1	54940	NM_001079841.1	0,015501527	3,574062813
MPDU1	9526	NM_004870.2	0,016356925	3,579523165
PLEKHA2	59339	NM_021623.1	0,030494511	3,58125619
POLR1E	64425	NM_022490.1	0,03525957	3,581692581
FSD2	123722	NM_001007122.2	0,025966994	3,588914565
UTP18	51096	NM_016001.2	0,025625931	3,592658371
NEURL4	84461	NM_001005408.1	0,032832197	3,594380501
ACADM	34	NM_000016.2	0,001494727	3,596286695
ACAP1	9744	NM_014716.2	0,026372341	3,604304412
TAF1A	9015	NM_139352.1	0,021911588	3,610008024
PCMT1	5110	NM_005389.1	0,030290731	3,621220416
CD19	930	NM_001770.4	0,02926231	3,625351649
P2RY8	286530	NM_178129.3	0,028132359	3,625728718
SNX11	29916	NM_152244.1	0,008623023	3,627635342
CPSF2	53981	NM_017437.1	0,041006578	3,632924401

RNGTT	8732	NM_003800.3	0,026876874	3,640251847
WTAP	9589	NM_152857.1	0,030250355	3,640264324
WASF1	8936	NM_003931.2	0,014071696	3,650991243
LEKR1	389170	NM_001004316.1	0,030044943	3,651567582
CLIP1	6249	NM_198240.1	0,006477442	3,655128538
CBX1	10951	NM_006807.3	0,007729823	3,664948531
ZBTB5	9925	NM_014872.1	0,03372384	3,668492293
NUP43	348995	NM_198887.1	0,032664578	3,669382262
FGD6	55785	NM_018351.3	0,047583692	3,670266494
FAM158A	51016	NM_016049.3	0,046923104	3,670646932
QKI	9444	NM_006775.1	0,002842975	3,672703523
AGPAT6	137964	NM_178819.2	0,021558319	3,673185527
VEZT	55591	NM_017599.3	0,045449665	3,684124091
TTC37	9652	NM_014639.2	0,0339291	3,684763461
NDUFB1	4707	NM_004545.3	0,035001033	3,685578772
NCOA4	8031	NM_005437.2	0,000170845	3,689292698
SAMHD1	25939	NM_015474.2	0,008882349	3,693371281
CD68	968	NM_001251.2	0,014354471	3,695327086
ANKRD10	55608	NM_017664.2	0,022068181	3,695639406
GRB2	2885	NM_203506.2	0,022060675	3,696384975
C21orf57	54059	NM_058181.1	0,02289446	3,698783304
SNRNP200	23020	NM_014014.2	0,033987042	3,701748723
C1orf156	92342	NM_033418.1	0,048539596	3,711755956
EMB	133418	NM_198449.1	0,029710982	3,713343691
SLC20A1	6574	NM_005415.3	0,02858652	3,71781196
ALG14	199857	NM_144988.2	0,015314539	3,721155509
ZCCHC11	23318	NM_001009881.1	0,020286005	3,722881277
NFX1	4799	NM_002504.3	0,008912615	3,729455086
NCAPG	64151	NM_022346.3	0,04317539	3,730657623
PPFIBP2	8495	NM_003621.1	0,042804355	3,730894812

ATG9B	285973	NM_173681.4	0,000319766	3,733866762
ZNF552	79818	NM_024762.3	0,029379808	3,745876883
FAM53B	9679	NM_014661.3	0,023502715	3,746336511
CCDC49	54883	NM_017748.3	0,012086866	3,74643425
KIAA0586	9786	NM_014749.3	0,026086616	3,749687259
LATS1	9113	NM_004690.2	0,018242277	3,757917324
ARSK	153642	NM_198150.2	0,026681573	3,759413354
C12orf4	57102	NM_020374.2	0,02894356	3,759500757
ZC3H13	23091	NM_015070.3	0,025150129	3,763066949
RAD51AP1	10635	NM_006479.3	0,0284036	3,765308637
POLD4	57804	NM_021173.2	0,024670783	3,767013843
MTIF3	219402	NM_152912.3	0,019949636	3,778706085
USP24	23358	NM_015306.1	0,026128155	3,779723888
SENP8	123228	NM_145204.2	0,030378187	3,781250674
MYO9A	4649	NM_006901.2	0,031436816	3,786948431
TIMM9	26520	NM_012460.2	0,023350626	3,790196285
ATF7	11016	NM_006856.1	0,022596531	3,790280759
CD164	8763	NM_006016.3	0,036085903	3,793561383
ZNF324	25799	NM_014347.1	0,000260854	3,795400271
ABCB8	11194	NM_007188.3	0,000414506	3,814027711
ATAD2B	54454	NM_017552.1	0,029445894	3,814116208
KLHL6	89857	NM_130446.2	0,039857939	3,816137096
EIF2C3	192669	NM_024852.2	0,007143243	3,820453927
MCM3AP	8888	NM_003906.3	0,014122524	3,821502036
HSP90AB1	3326	NM_007355.2	0,023381541	3,82652771
C9orf102	375748	NM_001010895.2	0,006965977	3,826658066
CDC2L1	984	NM_033486.1	0,005767237	3,83415307
SERINC5	256987	NM_178276.4	0,031322954	3,8455192
PLEKHF2	79666	NM_024613.2	0,012445372	3,8504697
MEA1	4201	NM_014623.2	0,029847365	3,852085244

STAMPB	10617	NM_201647.1	0,001147027	3,861539606
NEK6	10783	NM_014397.3	0,029911821	3,862831672
SLC25A42	284439	NM_178526.2	0,003918429	3,866687009
BRWD1	54014	NM_018963.3	0,002422872	3,867186844
TNFSF9	8744	NM_003811.2	0,000163881	3,876803644
BACH2	60468	NM_021813.1	0,038390639	3,879916167
RALGPS2	55103	NM_018037.1	0,029131145	3,883768871
C6orf153	88745	NM_033112.2	0,025315446	3,884763347
ZNF292	23036	NM_015021.1	0,022116526	3,893471016
GCNT2	2651	NM_145649.3	0,015966567	3,896465215
TRAPPC9	83696	NM_031466.4	0,000521916	3,911657357
PIK3AP1	118788	NM_152309.2	0,015464502	3,928319708
SDF4	51150	NM_016176.2	0,000110988	3,929468535
B3GALT6	126792	NM_080605.3	0,000110988	3,929468535
CD2AP	23607	NM_012120.2	0,016954873	3,93077572
KLF12	11278	NM_007249.4	0,019872988	3,935547781
RABGGTB	5876	NM_004582.2	0,008214933	3,962044469
SLC6A16	28968	NM_014037.2	0,000308241	3,974632573
CUX1	1523	NM_181552.2	0,028860943	3,97581054
GAPVD1	26130	NM_015635.2	0,000199462	3,987156782
CYB5B	80777	NM_030579.2	0,000183398	3,991128103
SAT1	6303	NM_002970.1	0,00046479	3,992911101
AP2B1	163	NM_001282.2	0,019004513	3,994790072
DGUOK	1716	NM_080918.1	0,000515291	4,000440889
SEC62	7095	NM_003262.3	0,014999543	4,008088056
PDCD2	5134	NM_002598.2	0,000771665	4,015829004
NUS1	116150	NM_138459.3	0,000284169	4,019639332
SLC2A6	11182	NM_017585.2	0,000169773	4,023793377
POLD1	5424	NM_002691.2	0,007278565	4,023890921
GDI2	2665	NM_001494.2	0,028764315	4,033710968

C2orf29	55571	NM_017546.3	9,67E-005	4,061847966
KIAA2013	90231	NM_138346.1	0,000115699	4,068887616
ZNF701	55762	NM_018260.1	0,000322252	4,073422936
HINT3	135114	NM_138571.3	0,0001444	4,073979957
MELK	9833	NM_014791.2	0,001640613	4,076797256
EIF4A1	1973	NM_001416.2	0,009509897	4,081091026
PEX12	5193	NM_000286.1	0,017225872	4,087331812
POLD3	10714	NM_006591.1	0,001961127	4,096236498
EIF2C2	27161	NM_012154.2	0,000218909	4,09769039
BIRC5	332	NM_001012271.1	0,000150818	4,099892368
HLA-DPB1	3115	NM_002121.4	0,04169513	4,104093457
LCP1	3936	NM_002298.2	0,019322472	4,105775773
SLC23A2	9962	NM_005116.5	0,000627178	4,11901809
HLA-DPA1	3113	NM_033554.2	0,037213916	4,150322493
C19orf15	57828	NM_021185.3	9,18E-005	4,162487152
MRPL16	54948	NM_017840.2	8,64E-005	4,162927171
ANAPC4	29945	NM_013367.2	0,000462889	4,167291858
DHX40	79665	NM_024612.3	0,000235642	4,16930592
MAPK1IP1L	93487	NM_144578.3	0,000269836	4,170959852
ARHGDIB	397	NM_001175.4	0,011986684	4,179520317
RAB3GAP1	22930	NM_012233.1	0,000168243	4,190376829
HOXC4	3221	NM_153633.2	0,000243204	4,196240487
GMFB	2764	NM_004124.2	0,000196218	4,207922355
SAP30BP	29115	NM_013260.6	0,000525105	4,208269473
RUFY1	80230	NM_025158.3	0,000125333	4,210229966
CYP2W1	54905	NM_017781.2	7,74E-005	4,213065853
SOBP	55084	NM_018013.3	0,000111853	4,213241314
CTPS	1503	NM_001905.2	8,10E-005	4,218256853
MAST3	23031	NM_015016.1	7,95E-005	4,233666559
ZFAT	57623	NM_020863.2	7,49E-005	4,23936282

ZMYND15	84225	NM_032265.1	9,85E-005	4,241011932
CENPV	201161	NM_181716.2	0,00010206	4,247974798
RSBN1	54665	NM_018364.3	9,85E-005	4,252955268
REXO1	57455	NM_020695.3	7,39E-005	4,253253613
FBXO30	84085	NM_032145.4	0,00029868	4,265866818
CYFIP2	26999	NM_014376.2	0,018654419	4,272140177
SLC2A1	6513	NM_006516.1	0,000111431	4,274036561
ELF4	2000	NM_001421.2	7,01E-005	4,28211727
THAP4	51078	NM_015963.4	8,09E-005	4,286838529
ATG4B	23192	NM_178326.2	8,09E-005	4,286838529
IL16	3603	NM_004513.4	7,66E-005	4,288991261
CD38	952	NM_001775.2	7,04E-005	4,301208762
SYK	6850	NM_003177.3	0,000151286	4,318765386
DOK3	79930	NM_024872.1	0,008710506	4,318780063
TALDO1	6888	NM_006755.1	0,000137387	4,31938693
BAI2	576	NM_001703.2	0,000373598	4,320570103
IRF8	3394	NM_002163.2	0,001399322	4,32438735
LRRK1	79705	NM_024652.3	0,009186545	4,335984422
IARS2	55699	NM_018060.3	6,60E-005	4,33698237
RNF138	51444	NM_198128.1	9,07E-005	4,339587413
FBXO31	79791	NM_024735.2	6,47E-005	4,344786567
GNGT2	2793	NM_031498.1	7,07E-005	4,34867888
ABI3	51225	NM_016428.2	7,07E-005	4,34867888
REV1	51455	NM_016316.2	0,000118056	4,351769783
WAS	7454	NM_000377.1	0,000945892	4,356011675
PRAGMIN	157285	NM_001080826.1	0,000138756	4,358680839
NAP1L1	4673	NM_004537.3	0,000234322	4,360766487
ITPRIP	85450	NM_033397.2	6,51E-005	4,368994409
KLF16	83855	NM_031918.2	7,14E-005	4,370826115
HSD17B12	51144	NM_016142.2	7,69E-005	4,37097204

SERTAD1	29950	NM_013376.3	6,24E-005	4,376089725
SEMA4A	64218	NM_022367.2	0,000478915	4,382585943
COX19	90639	NM_001031617.2	6,48E-005	4,386568883
IL10RB	3588	NM_000628.3	8,00E-005	4,387053847
YKT6	10652	NM_006555.3	7,76E-005	4,390284395
PSMC1	5700	NM_002802.2	9,29E-005	4,397473203
C6orf225	619208	NM_001033564.1	0,001395791	4,401416565
BCL6	604	NM_138931.1	0,013698298	4,411242732
TUBE1	51175	NM_016262.3	0,001126386	4,414995739
ZNF480	147657	NM_144684.1	9,16E-005	4,422241447
CTNNB1	1499	NM_001904.3	8,56E-005	4,424162967
ENO2	2026	NM_001975.2	6,12E-005	4,430601647
CCNF	899	NM_001761.2	5,94E-005	4,441785236
RECQL5	9400	NM_001003716.2	0,000172479	4,442208876
P2RY11	5032	NM_002566.4	0,000181625	4,445417509
EIF2AK1	27102	NM_014413.2	5,90E-005	4,448900578
SCNN1D	6339	NM_002978.2	6,34E-005	4,450800564
HLA-DOA	3111	NM_002119.3	5,64E-005	4,453761378
UBE2J2	118424	NM_058167.2	6,42E-005	4,461469815
AKIRIN1	79647	NM_024595.1	7,19E-005	4,465307876
HOXA5	3202	NM_019102.2	0,000271049	4,470987703
PRICKLE4	29964	NM_013397.4	6,15E-005	4,474482572
TTC5	91875	NM_138376.1	6,66E-005	4,48213469
KIAA2026	158358	NM_001017969.2	5,46E-005	4,483567352
C17orf89	284184	NM_001086521.1	6,11E-005	4,486762483
RGS9	8787	NM_003835.2	0,00015056	4,487930158
TOMM7	54543	NM_019059.2	7,01E-005	4,492825396
ARHGEF1	9138	NM_004706.3	0,001164254	4,494056755
MED11	400569	NM_001001683.2	9,04E-005	4,50078237
RASAL1	8437	NM_004658.1	5,93E-005	4,502700116

MAP1LC3B	81631	NM_022818.3	5,41E-005	4,50942872
ANGPTL6	83854	NM_031917.2	0,000237098	4,509870385
ING4	51147	NM_016162.2	8,15E-005	4,512566289
MRPS10	55173	NM_018141.2	6,92E-005	4,519006736
BMPR1A	657	NM_004329.2	0,00028976	4,519547363
ZNF608	57507	NM_020747.2	0,008799809	4,523258405
PPAN	56342	NM_020230.4	0,000162309	4,524208911
PHTF1	10745	NM_006608.1	0,000138479	4,525140826
ZNF665	79788	NM_024733.3	6,53E-005	4,528836844
CEP250	11190	NM_007186.2	5,22E-005	4,538075592
DHCR24	1718	NM_014762.3	9,15E-005	4,539798205
RBM16	22828	NM_014892.3	0,000160954	4,547938955
C17orf56	146705	NM_144679.1	6,16E-005	4,548822791
SEPSECS	51091	NM_153825.1	0,000146603	4,549813287
PTP4A2	8073	NM_080392.2	5,36E-005	4,552230724
LASS4	79603	NM_024552.1	0,000132842	4,555828795
SLC9A1	6548	NM_003047.2	0,000178657	4,561124532
THOC7	80145	NM_025075.2	5,09E-005	4,565156162
PPAN-P2RY1	692312	NM_001040664.1	0,000159783	4,565921757
NHEDC1	150159	NM_001100874.1	7,23E-005	4,568317315
TMEM128	85013	NM_032927.2	0,000167377	4,58530929
MRPS27	23107	NM_015084.1	5,98E-005	4,587443977
C19orf63	284361	NM_175063.4	4,83E-005	4,588101085
DDI2	84301	NM_032341.3	6,94E-005	4,588120173
CYP2R1	120227	NM_024514.4	6,11E-005	4,588736335
ARPC3	10094	NM_005719.2	5,77E-005	4,590305542
RPRD1A	55197	NM_018170.3	0,000197914	4,595547917
SPPL2A	84888	NM_032802.3	8,71E-005	4,596352416
SETD3	84193	NM_032233.2	0,000129642	4,5990991
COTL1	23406	NM_021149.2	6,15E-005	4,602947734

NROB2	8431	NM_021969.1	5,74E-005	4,604048107
SRFBP1	153443	NM_152546.2	4,86E-005	4,607289145
TFB1M	51106	NM_016020.2	5,65E-005	4,60931692
RASSF2	9770	NM_170774.1	5,95E-005	4,612431148
HOXA1	3198	NM_153620.2	0,000152956	4,614396603
SYF2	25949	NM_015484.4	5,46E-005	4,614973806
CCNK	8812	NM_003858.3	0,000133978	4,615982236
VWCE	220001	NM_152718.2	8,06E-005	4,616022469
LHFP	10186	NM_005780.2	5,68E-005	4,618756369
KAT2B	8850	NM_003884.4	0,000118655	4,61918391
HLA-DMA	3108	NM_006120.2	8,13E-005	4,620003228
CD52	1043	NM_001803.2	5,96E-005	4,625821701
VAMP5	10791	NM_006634.2	5,69E-005	4,630779715
SLC25A33	84275	NM_032315.2	5,11E-005	4,631720333
ZNF23	7571	NM_145911.1	4,91E-005	4,636802859
IRF1	3659	NM_002198.1	0,000122387	4,637055826
HECTD3	79654	NM_024602.5	8,86E-005	4,644236518
HINFP	25988	NM_015517.3	0,000240141	4,646003013
TCTE3	6991	NM_174910.1	4,49E-005	4,649155002
SLC41A1	254428	NM_173854.4	0,000183404	4,655735371
UBA52	7311	NM_003333.3	7,06E-005	4,657983435
TOX4	9878	NM_014828.2	0,000328305	4,65934252
ADORA2A	135	NM_000675.4	9,90E-005	4,665477663
MTERF	7978	NM_006980.3	4,48E-005	4,665842499
NGDN	25983	NM_001042635.1	4,50E-005	4,674892234
PTCD2	79810	NM_024754.3	4,67E-005	4,6761831
AMFR	267	NM_001144.4	6,16E-005	4,676817338
ATXN2	6311	NM_002973.2	5,22E-005	4,681813323
SNX3	8724	NM_003795.3	8,77E-005	4,681943207
SYPL1	6856	NM_006754.2	7,26E-005	4,687778701

BPNT1	10380	NM_006085.4	4,42E-005	4,689527661
MRPL14	64928	NM_032111.2	0,000100224	4,693640395
NUDC	10726	NM_006600.2	5,33E-005	4,69419382
SLC9A7	84679	NM_032591.1	9,63E-005	4,694275451
SPI1	6688	NM_001080547.1	4,35E-005	4,699394406
TMEM48	55706	NM_018087.3	5,11E-005	4,69956261
FAM71E1	112703	NM_138411.1	4,22E-005	4,702849288
RAB2B	84932	NM_032846.2	0,000247316	4,702906324
VAMP8	8673	NM_003761.2	6,28E-005	4,703836913
TAF4B	6875	NM_005640.1	0,000180578	4,710927692
AFF3	3899	NM_002285.2	4,27E-005	4,711205927
DCUN1D2	55208	NM_001014283.1	6,24E-005	4,711627713
TSSC1	7260	NM_003310.1	5,07E-005	4,713995033
CDCA7	83879	NM_145810.2	9,63E-005	4,714258169
LST1	7940	NM_205837.1	5,36E-005	4,715121956
LIG4	3981	NM_206937.1	9,36E-005	4,719965088
SC5DL	6309	NM_001024956.2	7,91E-005	4,722665149
SPTAN1	6709	NM_003127.2	8,92E-005	4,723350566
ADIPOR2	79602	NM_024551.2	0,000157691	4,72764719
COX7A2	1347	NM_001865.2	5,19E-005	4,728084506
TRAF3IP2	10758	NM_147200.1	4,20E-005	4,737209799
C14orf153	84334	NM_032374.2	0,000107109	4,747239741
LYL1	4066	NM_005583.3	8,76E-005	4,748560154
SLAMF6	114836	NM_052931.3	7,22E-005	4,750779745
TBC1D5	9779	NM_014744.1	7,54E-005	4,75156315
LRRC23	10233	NM_006992.2	4,21E-005	4,762608768
TTC1	7265	NM_003314.1	3,95E-005	4,763364806
LTB	4050	NM_009588.1	5,43E-005	4,764202558
FNBP1	23048	NM_015033.2	4,67E-005	4,765124929
PLEK	5341	NM_002664.2	0,000312011	4,767087877

PCDHGC4	56098	NM_018928.2	8,97E-005	4,77739243
TMCO3	55002	NM_017905.4	5,52E-005	4,780691322
ZBTB2	57621	NM_020861.1	0,00018029	4,783411665
FOXP4	116113	NM_001012426.1	4,47E-005	4,785296828
RAD23B	5887	NM_002874.3	6,92E-005	4,794585437
CYTH4	27128	NM_013385.2	6,50E-005	4,796083574
UROD	7389	NM_000374.3	5,44E-005	4,802219275
BAG5	9529	NM_001015049.1	0,000108958	4,808468751
DDX24	57062	NM_020414.3	6,32E-005	4,808550485
CORO1A	11151	NM_007074.2	4,14E-005	4,809793987
C6orf70	55780	NM_018341.1	3,74E-005	4,810134912
RRAS2	22800	NM_001102669.1	0,000145159	4,813716668
SCO1	6341	NM_004589.1	3,93E-005	4,815951565
TMEM63B	55362	NM_018426.1	7,23E-005	4,818454958
KIAA1407	57577	NM_020817.1	6,04E-005	4,822828062
ANUBL1	93550	NM_174890.1	3,71E-005	4,823583245
MDN1	23195	NM_014611.1	0,000165196	4,824732988
MOAP1	64112	NM_022151.4	4,30E-005	4,832148553
NR4A1	3164	NM_173157.1	4,16E-005	4,83265329
PSD4	23550	NM_012455.2	5,54E-005	4,834562196
RBM4B	83759	NM_031492.2	5,93E-005	4,834875162
RNH1	6050	NM_203385.1	3,73E-005	4,847037187
UBXN11	91544	NM_145345.2	3,75E-005	4,849606608
CCL3L3	414062	NM_001001437.3	4,98E-005	4,850057033
FGD2	221472	NM_173558.2	3,63E-005	4,850057356
NCKAP1L	3071	NM_005337.4	5,27E-005	4,851519419
TTC15	51112	NM_016030.5	5,52E-005	4,854035323
PAQR8	85315	NM_133367.3	0,000165723	4,863021051
CD72	971	NM_001782.1	6,60E-005	4,865176548
STXBP4	252983	NM_178509.5	5,01E-005	4,867614463

ZCCHC7	84186	NM_032226.2	3,71E-005	4,868633812
LAPTM5	7805	NM_006762.1	4,24E-005	4,872351606
CD74	972	NM_001025159.1	3,49E-005	4,874918201
SPSB2	84727	NM_032641.1	5,65E-005	4,882058407
TLR10	81793	NM_001017388.1	3,45E-005	4,884350071
COX11	1353	NM_004375.2	4,87E-005	4,884409016
KATNAL1	84056	NM_001014380.1	3,47E-005	4,886703059
IFI27L1	122509	NM_206949.1	4,82E-005	4,888491943
C17orf48	56985	NM_020233.4	3,43E-005	4,888737796
ANKRD13A	88455	NM_033121.1	7,88E-005	4,889289459
QTRTD1	79691	NM_024638.2	4,49E-005	4,89561863
BXDC1	84154	NM_032194.1	3,88E-005	4,900162419
MYO1G	64005	NM_033054.1	6,26E-005	4,906451495
ECHDC1	55862	NM_018479.3	3,49E-005	4,911499756
ZEB2	9839	NM_014795.2	0,000122312	4,911987043
DAPP1	27071	NM_014395.1	3,33E-005	4,924032138
TMEM106C	79022	NM_024056.2	3,50E-005	4,932709219
AKAP1	8165	NM_003488.3	5,63E-005	4,939534082
GIT2	9815	NM_014776.2	8,52E-005	4,940947478
CD79A	973	NM_021601.3	4,08E-005	4,952520278
DAGLB	221955	NM_139179.1	3,20E-005	4,952556232
NCF1	653361	NM_000265.4	3,25E-005	4,961065759
NUFIP1	26747	NM_012345.1	3,17E-005	4,961253244
KIAA1704	55425	NM_018559.2	3,17E-005	4,961253244
TFB2M	64216	NM_022366.1	0,000125021	4,966932112
CD22	933	NM_001771.2	3,39E-005	4,969231748
TM2D1	83941	NM_032027.2	3,24E-005	4,983878482
FCRLA	84824	NM_032738.3	3,35E-005	4,987635733
NADK	65220	NM_023018.3	3,63E-005	4,989557776
SASH3	54440	NM_018990.2	5,87E-005	4,997574302

TMED8	283578	NM_213601.1	3,26E-005	5,005317268
CCL3L1	6349	NM_021006.4	4,69E-005	5,006002183
TCL1A	8115	NM_001098725.1	4,98E-005	5,026630519
PSIP1	11168	NM_033222.2	4,71E-005	5,030530778
C1orf71	163882	NM_152609.1	9,38E-005	5,032364353
DHRS12	79758	NM_024705.1	3,80E-005	5,045341094
RAD54L	8438	NM_003579.2	6,33E-005	5,050428241
HNRNPC	3183	NM_001077442.1	0,000133938	5,051126572
PCDHGC3	5098	NM_032403.1	5,25E-005	5,053384676
HOXA6	3203	NM_024014.2	6,27E-005	5,055445627
LARP4	113251	NM_052879.3	3,00E-005	5,062709512
ZNF532	55205	NM_018181.4	3,33E-005	5,068303741
MAGOHB	55110	NM_018048.2	2,84E-005	5,073782504
SYTL1	84958	NM_032872.1	2,78E-005	5,087987812
CD84	8832	NM_003874.1	4,03E-005	5,089945427
SWAP70	23075	NM_015055.2	6,54E-005	5,103283196
HIST1H4L	8368	NM_003546.2	6,36E-005	5,104930876
ABHD13	84945	NM_032859.2	6,42E-005	5,113351452
SFT2D1	113402	NM_145169.1	3,50E-005	5,117354839
C14orf174	161394	NM_001010860.1	2,85E-005	5,124207543
SCFD1	23256	NM_016106.2	2,90E-005	5,131975115
AKAP13	11214	NM_006738.4	3,60E-005	5,146937388
THAP8	199745	NM_152658.2	3,07E-005	5,157261873
WDR62	284403	NM_001083961.1	3,05E-005	5,177032233
TRIM5	85363	NM_033034.1	3,20E-005	5,180675073
KIAA0746	23231	NM_015187.3	0,000740072	5,184343974
HIST1H3I	8354	NM_003533.2	3,96E-005	5,193499273
CD37	951	NM_001040031.1	2,90E-005	5,193523356
ALOX5	240	NM_000698.2	3,44E-005	5,199225292
LY86	9450	NM_004271.3	3,12E-005	5,208784612

RUNDC2B	400509	NM_001012391.1	2,82E-005	5,213309654
TRIM22	10346	NM_006074.3	3,04E-005	5,220923247
DEPDC5	9681	NM_014662.2	2,95E-005	5,221903609
CASP8AP2	9994	NM_012115.2	2,47E-005	5,229978616
CD180	4064	NM_005582.1	2,56E-005	5,237944329
BCAT1	586	NM_005504.4	3,35E-005	5,245389775
NIN	51199	NM_020921.3	4,80E-005	5,26815426
S1PR2	9294	NM_004230.3	3,47E-005	5,269952754
AIM1	202	NM_001624.2	2,35E-005	5,272049283
ELL3	80237	NM_025165.2	4,02E-005	5,273654202
BLK	640	NM_001715.2	7,16E-005	5,282283071
BCL7A	605	NM_020993.3	2,27E-005	5,304617616
EBF1	1879	NM_024007.2	4,32E-005	5,327815172
RTN4IP1	84816	NM_032730.4	2,11E-005	5,374712846
POU2F2	5452	NM_002698.2	2,05E-005	5,393417669
DTX1	1840	NM_004416.2	2,06E-005	5,488453953
CD27	939	NM_001242.4	2,13E-005	5,499898678
PVRIG	79037	NM_024070.3	2,00E-005	5,540013077
QRSL1	55278	NM_018292.3	1,91E-005	5,562734512
CD79B	974	NM_021602.2	1,73E-005	5,578930969
BLNK	29760	NM_013314.2	1,73E-005	5,709139136
C13orf18	80183	NM_025113.2	2,56E-005	5,727387384
PAX5	5079	NM_016734.1	1,08E-005	6,067777208