

Table S1. Primers used to investigate the cohesin loading at *MYC* locus.

| MYC promoter | Forward | Reverse |
|--------------|------------------------|-----------------------|
| P0 | TGCCAGTAGAGGGCACACTT | CCAATCGCTATGCTGGATTT |
| P1/P2 | GTATAAAAGCCGGTTTTTCGGG | CTCTGCCTCTCGCTGGAATTA |

Table S2. Primers used to validate RNA-seq data and *MYC* expression by RT-PCR.

| Gene | Nucleotide sequence |
|---------|------------------------|
| PSMD7 F | TCGAACAGTTTTGCAGTTCCT |
| PSMD7 R | CTGTGTGGTACCAGCCAAC |
| PSMD4 F | CCTTGGCCCTTCGTGTATCT |
| PSMD4 R | GGCATCGTCTGAGTCTCTTTCA |
| PSMB9 F | CGCTTCACCACAGACGCTAT |
| PSMB9 R | TGCCCAAGATGACTCGATGG |
| SFHM1 F | AGTAGGAGAGCCCTGTGGAG |
| SFHM1 R | TTTGTTACGCAAACGCCAGG |
| PAX6 F | AGTGAATCAGCTCGGTGGTG |
| PAX6 R | AATTCGGGAAATGTCGCACG |
| HPRT F | AGCCAGACTTTGTTGGATTG |
| HPRT R | TACTAAGCAGATGGCCACAGA |
| MYC F | TTCGGGTAGTGGAAAACAG |
| MYC R | TAGAAATACGGCTGCACCGA |

Table S3. NCI-60 cancer panel cell used in this work.

| Cell line | Cancer |
|-------------|--|
| 786-0 | renal adenocarcinoma |
| A498 | renal carcinoma |
| A549 | lung adenocarcinoma |
| ACHN | renal carcinoma |
| BT549 | breast |
| CAKI1 | renal adenocarcinoma |
| CCRFCEM | peripheral blood acute lymphoblastic leukemia |
| COLO225 | colon adenocarcinoma |
| DU145 | prostate carcinoma |
| EKVX | lung adenocarcinoma |
| HCC2998 | colon adenocarcinoma |
| HCT116 | colon carcinoma |
| HCT15 | colon adenocarcinoma |
| HOP62 | lung adenocarcinoma |
| HOP92 | lung carcinoma |
| HS587T | Breast carcinoma |
| HT29 | recto-sigmoid colon adenocarcinoma |
| IGROV1 | left ovary cysto adenocarcinoma |
| K562 | pleural effusion chronic myelogenous leukemia |
| LOXIHVI | lymphnode metastasis malignant amelanotic melanoma |
| M14 | amelanotic melanoma |
| MALME 3M | malignant melanoma |
| MCF7 | breast adenocarcinoma |
| MDA 231 | breast |
| MDA 468 | breast |
| MDA435 | pleural effusion melanoma |
| NCI ADR RES | ovarian adenocarcinoma |
| NCI H322 | lung bronchi alveolar carcinoma |
| NCI H522 | Lung adenocarcinoma |
| NCI H226 | lung squamous cell |
| NCI H23 | lung adenocarcinoma |
| OVCAR3 | ovarian carcinoma |
| OVCAR5 | ovarian carcinoma |
| OVCAR8 | ovarian carcinoma |
| PC3 | prostate carcinoma |
| RFX393 | renal hypernephroma |
| RPMI | peripheral blood multiple myeloma |
| SF268 | plastic astocytoma |
| SF295 | cns gliosarcoma |
| SF539 | cns gliosarcoma |
| SK MEL 2 | malignant melanoma |
| SKMEL28 | malignant melanoma |
| SKMEL5 | skin metastasis-thigh malignant melanoma |
| SKOV3 | ovary adenocarcinoma |
| SNB 75 | cns astrocytoma |
| SNB19 | cns glioblastoma |
| SNC12C | renal carcinoma |

| | |
|---------|-----------------------------------|
| SR | immunoblastic large cell lymphoma |
| SW60 | colon adenocarcinoma |
| T47D | breast carcinoma |
| TK-10 | renal carcinoma |
| U251 | cns glioblastoma |
| UACC257 | malignant melanoma |
| UACC62 | malignant melanoma |
| UO31 | renal carcinoma |

Table S4. Dysregulated genes in common among cohesin mutated cancer cells.

AEBP1
AKR1C2
ALKBH4
ANKMY2
ANO6
ARHGDIG
ATP5A1
BOLA1
C12orf56
C7orf73
CAB39
CALML5
CBS
CCDC82
CD24
CNIH2
COL5A1
COX6A1
COX6C
CRYBG3
CTXN1
CYP4V2
DBN1
DCLK1
DDAH2
DGKG
DLGAP3
DNAAF3
EFEMP1
EFHD1
EFNA4
EFR3B
EHF
EPHA6
ERBB4
EVL
FAHD1
FAR2P1
FERMT1
FOXI3
FRAS1
FRG1CP
FUT9
GPR27
GUCY1A3
GULP1
HDAC4
HIGD2A
HLA-A

HMGB3
HSD17B12
IFNGR2
IFT22
IGSF5
IL6ST
JTB
KARS
KCNMA1
KDM5B
KIF13B
LAMTOR4
LGALS3
LINC00885
LINC01006
LRRK1
LYPD1
MAPKBP1
MATK
MBP
MDFIC
MIER1
MPDZ
MRPL41
MTIF3
MYLIP
MYO10
NLRC5
NPR2
OSMR
PAX6
PCDHB13
PCDHB4
PDZD4
PLA2G3
PMAIP1
POLR2J
PRKAR2A
PRR36
PRTFDC1
PSMB9
PSMD4
PSMD7
RAB31
RIMS4
ROGDI
RPRD2
RTTN
SDCCAG8
SEMA3F
SGK223

SH2D4A
SHFM1
SLC30A7
SNAR-E
SNRPE
SP100
SSFA2
STEAP1
SYNE4
SYNJ2
TAF11
TBC1D20
TCEAL8
TEAD1
TENM1
TFAP2A
TMEM183B
TMEM191A
TMEM254
TMEM51
TNNT1
TRIM47
TUB
UBASH3B
VPS72
YAP1
ZAK
ZBTB18
ZNF175
ZNF433
ZNF480
ZNF704
ZSCAN21

Table S5. Classification of dysregulated genes by molecular function and biological process through DAVID tool

| GO Term | Gene count | Pvalue |
|---|------------|----------|
| GO:0018108~peptidyl-tyrosine phosphorylation | 5 | 0,008175 |
| GO:0060333~interferon-gamma-mediated signaling pathway | 3 | 0,010238 |
| GO:0006535~cysteine biosynthetic process from serine | 2 | 0,011333 |
| GO:0001958~endochondral ossification | 3 | 0,013365 |
| GO:0019343~cysteine biosynthetic process via cystathionine | 2 | 0,016952 |
| GO:0001974~blood vessel remodeling | 3 | 0,020681 |
| GO:0043418~homocysteine catabolic process | 2 | 0,02254 |
| GO:0010749~regulation of nitric oxide mediated signal transduction | 2 | 0,02254 |
| GO:0061026~cardiac muscle tissue regeneration | 2 | 0,02254 |
| GO:0070814~hydrogen sulfide biosynthetic process | 2 | 0,02254 |
| GO:0019448~L-cysteine catabolic process | 2 | 0,02254 |
| GO:0019344~cysteine biosynthetic process | 2 | 0,02254 |
| GO:0021587~cerebellum morphogenesis | 2 | 0,028095 |
| GO:0043506~regulation of JUN kinase activity | 2 | 0,028095 |
| GO:0045794~negative regulation of cell volume | 2 | 0,028095 |
| GO:0007399~nervous system development | 7 | 0,030231 |
| GO:0034097~response to cytokine | 3 | 0,030461 |
| GO:0019346~transsulfuration | 2 | 0,03362 |
| GO:0006565~L-serine catabolic process | 2 | 0,03362 |
| GO:1902041~regulation of extrinsic apoptotic signaling pathway via death domain receptors | 2 | 0,03362 |
| GO:0007173~epidermal growth factor receptor signaling pathway | 3 | 0,034056 |
| GO:0038165~oncostatin-M-mediated signaling pathway | 2 | 0,039113 |
| GO:0006563~L-serine metabolic process | 2 | 0,039113 |
| GO:0042262~DNA protection | 2 | 0,039113 |
| GO:0035556~intracellular signal transduction | 7 | 0,043447 |
| GO:0050667~homocysteine metabolic process | 2 | 0,044575 |
| GO:0060351~cartilage development involved in endochondral bone morphogenesis | 2 | 0,050007 |
| GO:0048861~leukemia inhibitory factor signaling pathway | 2 | 0,050007 |
| GO:0045893~positive regulation of transcription, DNA-templated | 9 | 0,053463 |
| GO:0051593~response to folic acid | 2 | 0,055408 |
| GO:0060576~intestinal epithelial cell development | 2 | 0,055408 |

Table S6. Fold change of the core genes as identified through STRING analysis.

| GENE | A549 | CCRFCEM | HCC2998 | HCT15 | HCT116 | RFX393 | SF539 | UO31 |
|---------|----------|------------|-----------|----------|----------|----------|----------|----------|
| AEBP1 | 8,781881 | -7,2421136 | 6,2582193 | 4,331768 | 8,651378 | -6,29959 | 8,893221 | 4,609508 |
| ATP5A1 | 1,506823 | 0,99769598 | 1,396185 | 1,041263 | 1,166753 | 1,798665 | 1,693419 | 1,159415 |
| CNIH2 | 4,810471 | 2,14625663 | 5,2538755 | 5,33844 | 4,979673 | 4,565897 | 5,335135 | 2,813232 |
| COL5A1 | -3,72704 | 4,42277437 | 9,9132061 | 9,736137 | 7,73084 | -7,59382 | -7,111 | -3,49548 |
| COX6A1 | 0,948685 | 1,0035897 | 1,2598939 | 1,138598 | 0,997369 | 0,768972 | 1,132275 | 1,111442 |
| COX6C | 2,085412 | 1,2770899 | 2,0955803 | 2,600954 | 1,541953 | 0,806694 | 1,428309 | 2,051815 |
| EFNA4 | 1,857483 | 2,74234841 | 1,1912141 | 2,145185 | 1,984843 | 3,915648 | 2,557189 | 2,092331 |
| EPHA6 | 5,553663 | 10,0259143 | 10,404797 | 10,22366 | 9,674417 | 3,236467 | 9,912908 | 5,271792 |
| ERBB4 | 9,965668 | 10,1899532 | 7,1704213 | 10,38949 | 6,180831 | 9,765947 | 10,07289 | 5,14034 |
| HDAC4 | -3,90296 | -4,5422614 | -3,669352 | -2,71021 | -2,94275 | -2,55449 | -3,82672 | -2,40194 |
| HIGD2A | 1,026246 | 2,69673853 | 2,1332292 | 1,307718 | 1,469376 | 1,158269 | 1,321822 | 2,045639 |
| HLA-A | -1,62468 | -3,159552 | -4,843231 | -4,25773 | -3,32619 | -5,81819 | -3,56923 | -3,74 |
| IGSF5 | 5,452931 | 9,11757733 | 9,4967212 | 5,850408 | 4,011027 | 7,310567 | 9,006076 | 2,828348 |
| KARS | 1,307147 | 1,6323852 | 1,1615521 | 1,567462 | 1,248558 | 0,769304 | 1,120598 | 0,787161 |
| KDM5B | 1,908905 | 1,92963578 | 2,9365567 | 3,661349 | 2,450383 | 2,710088 | 1,423219 | 1,92559 |
| MATK | 13,41421 | 8,50223566 | 14,015534 | 10,40087 | 13,28504 | 5,562463 | 8,909455 | 9,728849 |
| MBP | -3,48624 | 8,70492606 | -4,449248 | -4,05842 | -3,79233 | -5,062 | 5,096394 | -5,32066 |
| MPDZ | -1,94657 | 10,9709312 | 11,350166 | 11,16784 | 10,6193 | 10,55379 | -1,56829 | -2,39327 |
| NLRC5 | -3,67689 | -5,7224071 | -7,794282 | -6,3077 | -4,13293 | -7,25047 | -6,05032 | -5,62313 |
| PAX6 | -9,43533 | -10,439776 | -7,479587 | -9,0772 | -9,45952 | -13,1605 | -11,6155 | -13,2967 |
| POLR2J | 1,637573 | 1,76048453 | 1,7592206 | 2,348731 | 1,465465 | 1,442296 | 1,723672 | 1,49771 |
| PSMB9 | -3,11822 | -6,6563643 | -3,653017 | -3,76306 | -3,17268 | -7,91417 | -5,25622 | -6,61754 |
| PSMD4 | 1,28967 | 1,55368227 | 1,1703388 | 1,629802 | 1,123902 | 1,340787 | 0,637512 | 1,415487 |
| PSMD7 | 0,821862 | 1,18968592 | 1,0216243 | 1,180327 | 1,11296 | 0,998745 | 1,228027 | 0,640761 |
| RPRD2 | 1,305857 | 0,97806286 | 1,1912296 | 1,147184 | 1,513213 | 1,950583 | 1,067892 | 1,59466 |
| RTTN | -3,09737 | -3,5924349 | -3,27124 | -2,68151 | -3,32017 | -2,69378 | -2,46833 | -2,6328 |
| SDCCAG8 | -1,79874 | -1,3995031 | -1,731946 | -1,88981 | -1,79565 | -1,36481 | -1,50522 | -1,67822 |
| SEMA3F | 2,767987 | 7,62693093 | 1,5095825 | 2,783946 | 1,713493 | 2,451309 | 2,946458 | 3,012534 |
| SHFM1 | 1,115161 | 1,26447387 | 1,0540022 | 1,603245 | 1,176263 | 1,251091 | 1,0144 | 0,649253 |
| SNRPE | 1,516899 | 1,11611427 | 1,6649296 | 1,852026 | 1,251715 | 1,375647 | 0,755952 | 1,672792 |
| SP100 | -3,66922 | -4,3994037 | -3,813757 | -3,57286 | -3,77314 | -5,54397 | -5,02581 | -4,91081 |
| TAF11 | 2,100474 | 1,2653927 | 1,2957028 | 1,782188 | 1,607644 | 1,536219 | 0,827676 | 2,220905 |
| TEAD1 | -1,54112 | 13,2429457 | -1,310147 | -1,05479 | -1,44303 | -1,10197 | -1,06496 | -2,01676 |
| TFAP2A | 1,235104 | 15,1973756 | 5,2677044 | 2,773967 | 2,022446 | 5,17402 | 3,16382 | 3,558483 |
| YAP1 | -1,61659 | 6,96097813 | -2,260392 | -1,85507 | -2,18588 | -0,99808 | -1,20363 | -2,48089 |
| ZBTB18 | -6,56115 | -7,7809039 | -5,966399 | -6,22223 | -4,17612 | -5,33338 | -7,20582 | -8,01148 |

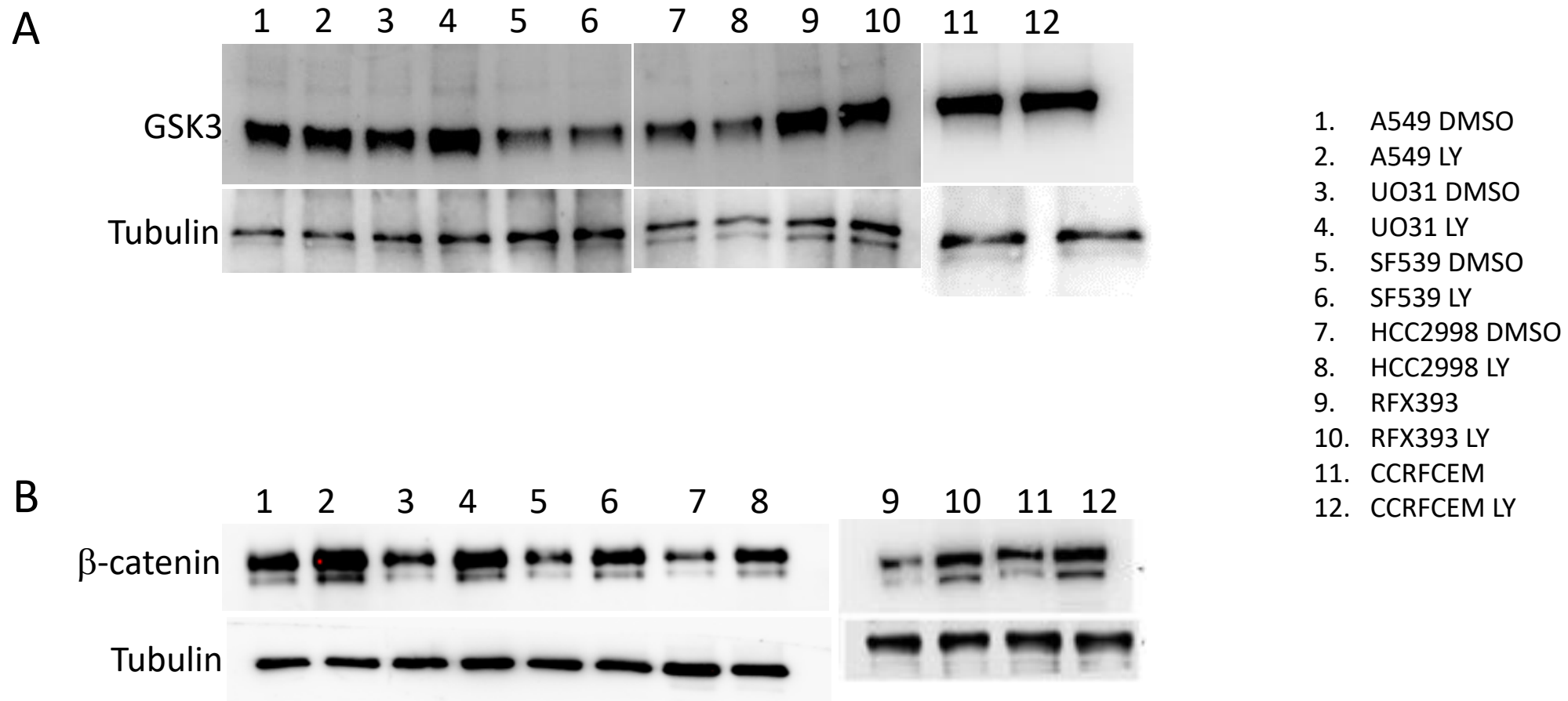
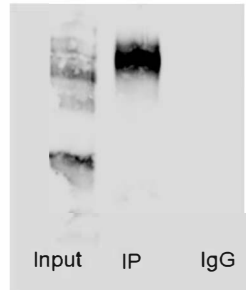


Figure S1. Effects of LY2090314 (LY) treatment in cancer cell lines carrying mutation in cohesin genes.

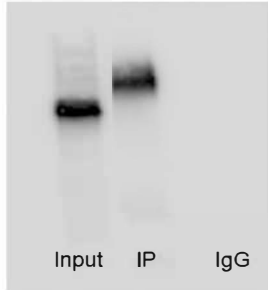
A

NIPBL



B

RAD21



C

SMC3

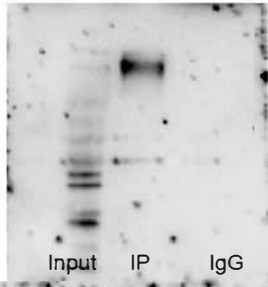


Figure S2. β -catenin and cohesin interaction.

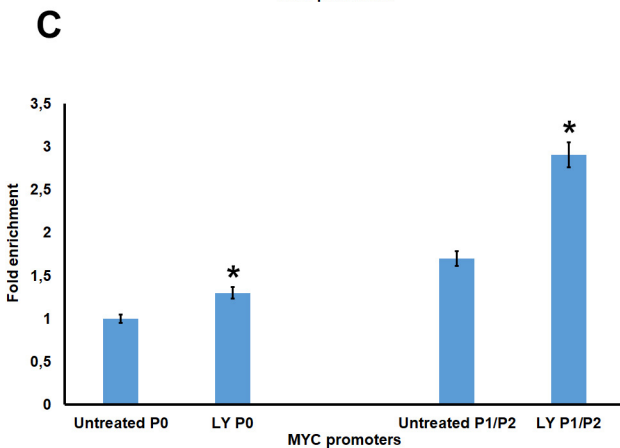
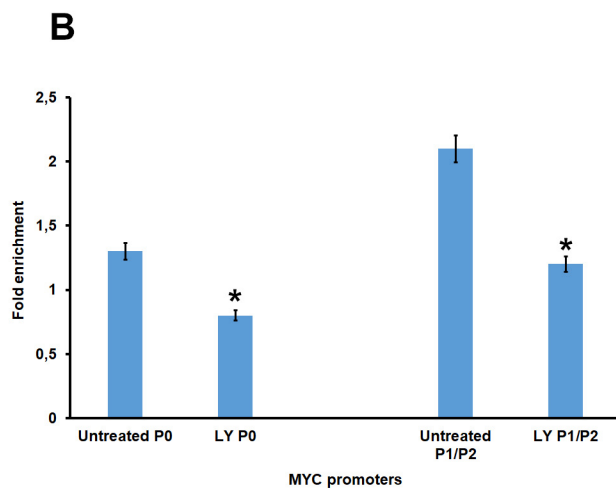
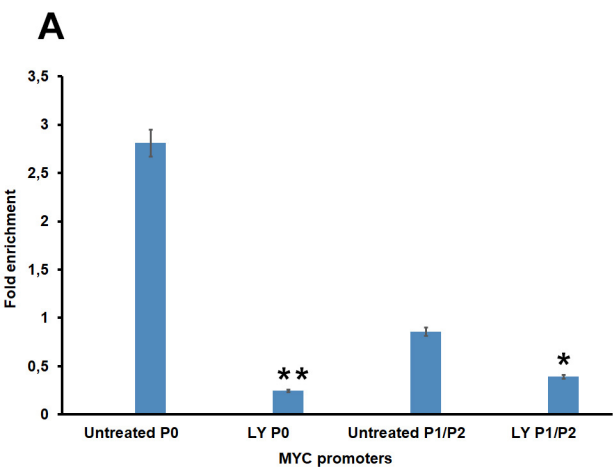


Figure S3. Effects of LY2090314 (LY) treatment on the *MYC* locus. * $p < 0.05$

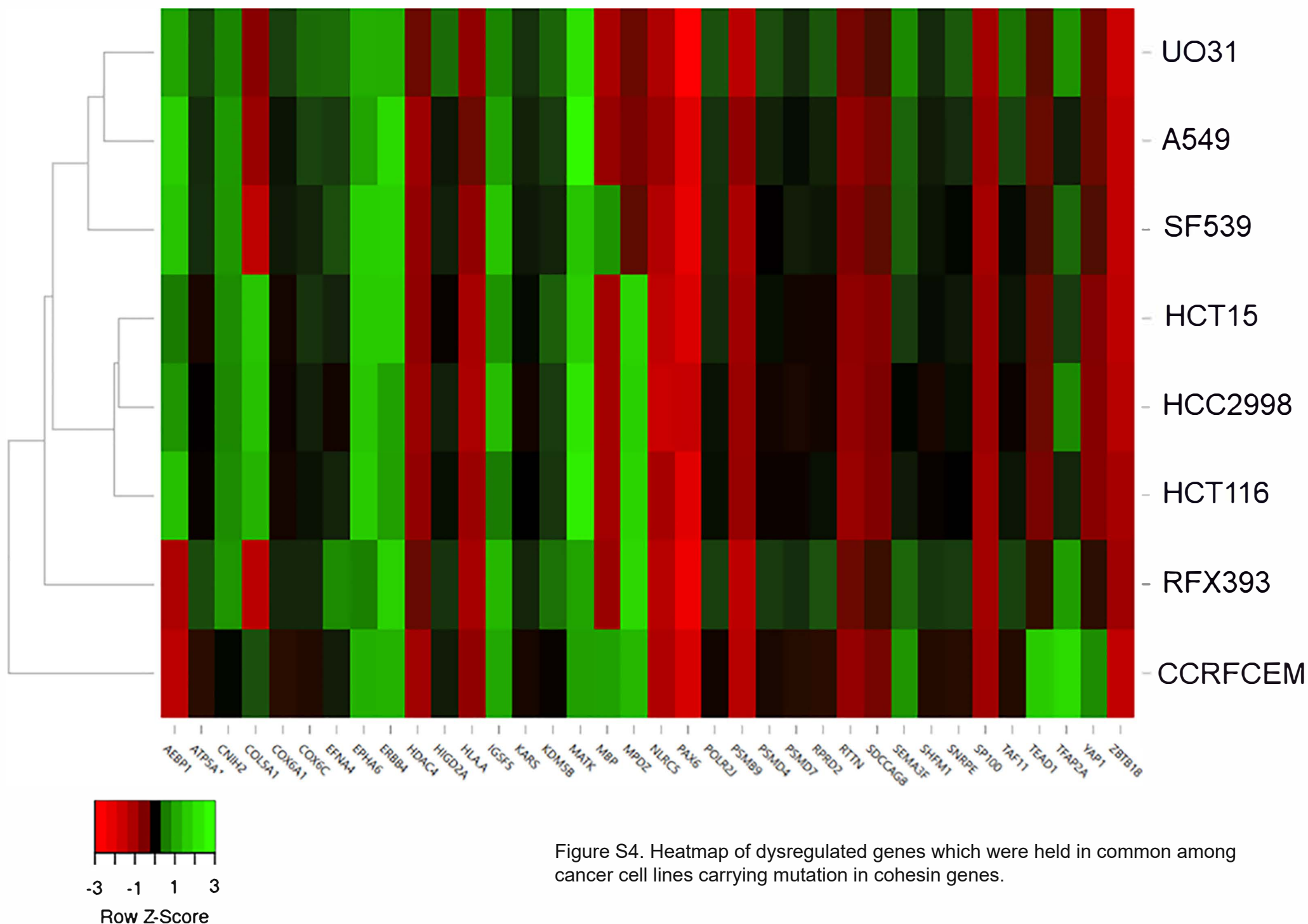


Figure S4. Heatmap of dysregulated genes which were held in common among cancer cell lines carrying mutation in cohesin genes.

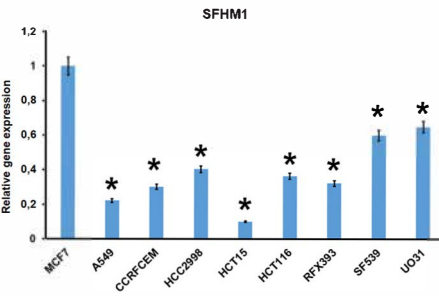
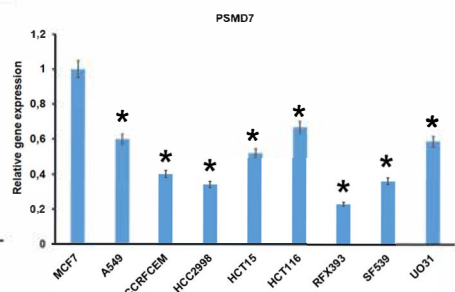
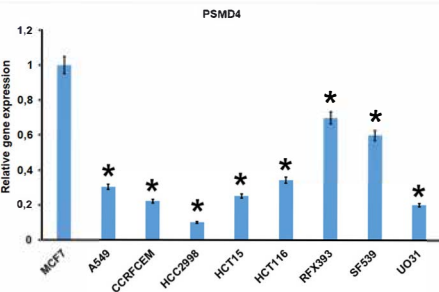
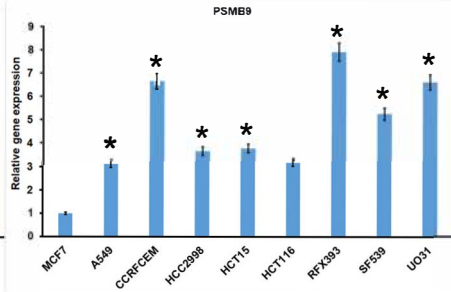
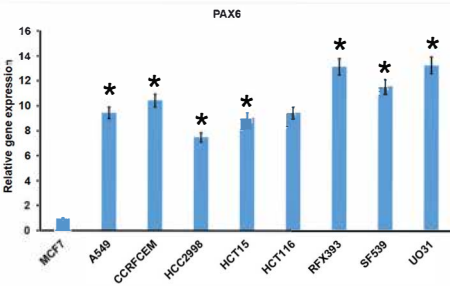


Figure S5. RNA-seq data was validated by RT-PCR. * $p < 0.05$

DataSet

| Gene | log2FoldChange | FDR | A549 |
|-----------|----------------|-----------|------|
| FBP1 | 14,83041042 | 1,16E-22 | |
| PRMT6 | 14,62005523 | 3,01E-22 | |
| TACSTD2 | 14,1320197 | 1,31E-20 | |
| RAB25 | 13,94198259 | 4,28E-20 | |
| ESR1 | 13,54465197 | 4,74E-19 | |
| MATK | 13,41420953 | 1,11E-18 | |
| BGN | 13,03006642 | 5,27E-06 | |
| DSCAM-AS1 | 12,99903837 | 3,03E-10 | |
| GGT6 | 12,6265048 | 2,07E-15 | |
| PRSS8 | 12,54176389 | 1,30E-16 | |
| ADAMTS19 | 12,446067 | 4,40E-16 | |
| APCDD1 | 12,40906493 | 1,86E-71 | |
| ZNF253 | 12,33136668 | 8,13E-16 | |
| FXYD3 | 12,31128069 | 1,52E-08 | |
| ALDH3B2 | 12,2652071 | 1,26E-14 | |
| FREM2 | 12,0110289 | 1,74E-42 | |
| ZNF93 | 11,91133862 | 1,04E-14 | |
| RBBP8NL | 11,89876632 | 1,73E-14 | |
| DLX5 | 11,85182118 | 1,66E-14 | |
| ZNF100 | 11,8094264 | 1,83E-14 | |
| MAL2 | 11,73008956 | 2,24E-40 | |
| FAR2 | 11,71831126 | 2,99E-14 | |
| PLXDC2 | 11,67111965 | 5,53E-14 | |
| PRDX2 | 11,57218469 | 6,77E-167 | |
| NCAM2 | 11,49779772 | 3,52E-13 | |
| SMIM22 | 11,35793171 | 3,62E-13 | |
| EPHA1 | 11,32788026 | 4,25E-13 | |
| ZNF429 | 11,30010511 | 3,64E-13 | |
| BSPRY | 11,28981192 | 2,14E-13 | |
| JPH1 | 11,28650522 | 4,75E-12 | |
| PCP4 | 11,22517096 | 6,42E-13 | |
| MBNL3 | 11,18423118 | 2,82E-13 | |
| ESRP1 | 11,1796724 | 4,67E-65 | |
| ASCL4 | 11,17762107 | 8,26E-13 | |
| OVOL1 | 11,10960529 | 3,40E-12 | |
| EFS | 11,04998154 | 1,72E-12 | |
| TDRD1 | 11,03233132 | 1,62E-12 | |
| ILDR1 | 11,02676272 | 1,71E-12 | |
| GRHL2 | 10,95825971 | 2,36E-33 | |
| PGR | 10,84690151 | 7,39E-06 | |
| DYNC1I1 | 10,79875822 | 2,20E-12 | |
| FAM3B | 10,78903026 | 6,60E-12 | |
| AP4B1-AS1 | 10,75384802 | 8,22E-12 | |
| COLEC12 | 10,7514003 | 1,54E-11 | |
| NAALADL2 | 10,73321652 | 1,35E-11 | |
| TSTD1 | 10,6768621 | 4,21E-12 | |
| S100A14 | 10,64761245 | 5,17E-65 | |
| ESRP2 | 10,60179046 | 2,58E-32 | |
| SPESP1 | 10,59619128 | 3,25E-11 | |

| | | |
|-----------|-------------|-----------|
| CCDC64B | 10,57424625 | 3,71E-11 |
| PROM2 | 10,54686299 | 4,16E-08 |
| TMEM125 | 10,53290735 | 2,71E-11 |
| ZNF433 | 10,52293406 | 3,00E-11 |
| ODAM | 10,45076285 | 4,28E-11 |
| CEACAM21 | 10,4412263 | 4,96E-11 |
| ZNF83 | 10,4347698 | 1,84E-11 |
| TSPEAR | 10,40768338 | 1,34E-10 |
| PCDHA10 | 10,32226235 | 1,14E-10 |
| ZNF347 | 10,24882037 | 1,98E-10 |
| CDH3 | 10,24492045 | 5,53E-124 |
| SPATC1L | 10,21405667 | 5,29E-11 |
| HLA-DQB1 | 10,14768265 | 1,17E-08 |
| RNF223 | 10,14166989 | 3,14E-10 |
| ZNF785 | 10,11865613 | 2,72E-10 |
| ZNF682 | 10,07156341 | 3,73E-10 |
| LINC00052 | 10,05833253 | 6,32E-09 |
| C18orf63 | 10,05154707 | 5,76E-10 |
| ERBB4 | 9,965667541 | 1,06E-09 |
| ZNF732 | 9,901721262 | 1,94E-09 |
| BATF | 9,879758951 | 2,49E-09 |
| ZNF737 | 9,834656474 | 2,69E-17 |
| ZNF681 | 9,823772551 | 3,09E-10 |
| CDKN2B | 9,823614992 | 2,67E-09 |
| CXCL12 | 9,772918139 | 2,14E-09 |
| ELF5 | 9,769088325 | 1,77E-08 |
| ZNF888 | 9,739908544 | 5,07E-10 |
| ZNF818P | 9,729028372 | 2,41E-09 |
| LCP1 | 9,708760872 | 1,42E-26 |
| GALNT3 | 9,70494672 | 1,11E-26 |
| MACC1 | 9,688912049 | 2,84E-08 |
| CHST8 | 9,683750692 | 3,04E-09 |
| HLA-DRB1 | 9,662291349 | 1,35E-08 |
| NUP210L | 9,612554421 | 9,63E-10 |
| BEND5 | 9,571107541 | 7,92E-09 |
| SLC2A10 | 9,560054365 | 7,20E-09 |
| TUBA3E | 9,551723937 | 1,21E-08 |
| SPINT1 | 9,509444793 | 8,01E-84 |
| ZNF492 | 9,493532896 | 4,81E-08 |
| GUCY1A3 | 9,488880467 | 1,81E-09 |
| SPINK5 | 9,484146943 | 5,15E-08 |
| CBLC | 9,482769011 | 1,16E-08 |
| ZNF790 | 9,479910883 | 1,36E-08 |
| ACTG2 | 9,47650021 | 1,98E-07 |
| TYRP1 | 9,465833765 | 1,09E-08 |
| PRLR | 9,44860426 | 4,27E-25 |
| THNSL2 | 9,447244425 | 3,37E-09 |
| SLITRK4 | 9,438807435 | 1,65E-08 |
| MAPK13 | 9,425293645 | 3,85E-55 |
| KIAA1324L | 9,388807667 | 6,27E-25 |

| | | |
|-----------|-------------|----------|
| TMPRSS2 | 9,36377236 | 3,17E-08 |
| ZNF793 | 9,349966905 | 3,34E-09 |
| FUT9 | 9,332148559 | 2,03E-08 |
| DDX43 | 9,319035884 | 3,09E-08 |
| ST14 | 9,316630296 | 1,16E-67 |
| C2orf54 | 9,254875825 | 3,89E-07 |
| PLA2G4F | 9,251776165 | 1,84E-06 |
| ZNF85 | 9,179045737 | 1,70E-16 |
| ZNF730 | 9,17094468 | 5,52E-08 |
| MARCH1 | 9,166331249 | 9,83E-08 |
| LYPD6B | 9,164200591 | 5,50E-08 |
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| MARVELD3 | 6,092755173 | 2,16E-32 |
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| PCDHA13 | 5,168406282 | 1,82E-06 |
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| EGR3 | 4,994333032 | 1,19E-05 |
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| FAM46B | 4,88803436 | 1,27E-20 |
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| CXCR4 | 4,867005778 | 1,94E-14 |
| HOXC-AS3 | 4,865035624 | 4,49E-07 |
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| GUCY1A2 | 4,847074825 | 3,67E-31 |
| MECOM | 4,845004455 | 8,90E-28 |
| IFITM3 | 4,8200885 | 1,00E-27 |
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| FGF12 | 4,776838345 | 4,67E-18 |
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| PCDHB10 | 4,759841689 | 4,26E-07 |
| ANXA9 | 4,747108086 | 4,46E-21 |
| AP3B2 | 4,729971521 | 1,05E-05 |
| SDC2 | 4,727574446 | 2,68E-25 |
| POU3F3 | 4,720000736 | 2,88E-07 |
| GPM6B | 4,71871808 | 0,000523 |

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| EXPH5 | 4,713207179 | 2,47E-25 |
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| IRX3 | 4,694323827 | 6,28E-56 |
| NPY1R | 4,693879639 | 1,11E-26 |
| PCDH19 | 4,686961676 | 8,49E-05 |
| PGBD5 | 4,662481685 | 2,84E-07 |
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| SEMA7A | 4,650591286 | 9,39E-22 |
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| CCDC83 | 4,582804189 | 7,95E-06 |
| ZNF738 | 4,580475989 | 1,50E-15 |
| PCDHB4 | 4,576658232 | 5,68E-06 |
| ANO9 | 4,569303708 | 2,12E-11 |
| TENM4 | 4,558515975 | 3,18E-08 |
| NANOS1 | 4,557269138 | 8,19E-33 |
| PRR36 | 4,551518142 | 4,68E-118 |
| FAAH | 4,550645608 | 5,56E-28 |
| PTK7 | 4,536419318 | 6,54E-87 |
| FHDC1 | 4,52897571 | 1,24E-12 |
| ZNF790-AS | 4,528369477 | 9,09E-13 |
| GSTO2 | 4,517398771 | 7,92E-39 |
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| DSC2 | 4,504815043 | 3,60E-68 |
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| SLC1A2 | 4,484904596 | 2,66E-31 |
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| GDPD3 | 4,421242033 | 1,11E-06 |
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| TMC4 | 4,378400332 | 1,44E-32 |
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| LDHD | 4,346571315 | 5,79E-06 |
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| CRLF1 | 3,882929453 | 3,62E-07 |
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| QPRT | 3,82716319 | 1,98E-13 |
| ACKR3 | 3,82514454 | 8,35E-46 |
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| TNFAIP8L3 | 3,806091648 | 8,30E-14 |
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| CRACR2B | 3,776206992 | 5,15E-23 |
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| DHRS2 | 3,706801444 | 4,19E-16 |
| ZNF718 | 3,705410438 | 7,50E-19 |
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| CKMT1A | 3,460311105 | 1,30E-23 |
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| PDE4DIP | 3,449267762 | 1,09E-24 |
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| MB | 3,446419539 | 1,11E-17 |
| ABLIM2 | 3,431906468 | 1,36E-05 |
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| VGf | 3,308826383 | 1,64E-15 |
| C6orf132 | 3,306070346 | 2,90E-30 |
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| PRIMA1 | 3,262025823 | 8,03E-06 |
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| USP32 | 3,253688782 | 7,78E-28 |
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| ZNF850 | 3,203855721 | 1,39E-06 |
| ZNF28 | 3,202488395 | 4,18E-09 |
| GSTM3 | 3,202176508 | 3,90E-12 |
| MAPT | 3,202150936 | 1,99E-20 |
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| LINC01006 | 3,17527942 | 0,000762 |
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| PLEKHO1 | 3,139593012 | 1,72E-24 |
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| RNF182 | 3,092850914 | 1,52E-08 |
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| NEB | 3,050323495 | 2,63E-16 |
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| SLC8A1 | 3,036345957 | 5,41E-10 |
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| NXPH4 | 3,030655546 | 6,74E-12 |
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| IPO5P1 | 3,016806752 | 6,07E-09 |
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| ZNF572 | 2,959656002 | 1,15E-07 |
| CXXC4 | 2,959349309 | 5,17E-05 |
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| HCN4 | 2,892277509 | 3,15E-09 |
| OXCT1 | 2,889995769 | 6,25E-18 |
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| FAM117A | 2,863631944 | 1,40E-15 |
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| PCAT7 | 2,820910418 | 3,81E-05 |
| PLXNA4 | 2,81901736 | 1,33E-06 |
| ARHGEF19 | 2,816044027 | 1,17E-15 |
| MYLIP | 2,815188517 | 4,81E-17 |
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| HENMT1 | 2,808228544 | 6,97E-20 |
| SERTAD4 | 2,800568169 | 2,02E-11 |
| CYB561 | 2,800284763 | 5,96E-56 |
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| MSRB2 | 2,795633189 | 4,31E-26 |
| SIX4 | 2,795160085 | 1,05E-13 |
| RIC3 | 2,795022104 | 0,000201 |
| CRMP1 | 2,79388554 | 2,29E-12 |
| NOTCH3 | 2,791442507 | 1,49E-32 |
| ZNF425 | 2,789222349 | 5,17E-12 |
| SH3BP5 | 2,78653604 | 5,98E-39 |
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| ENPP4 | 2,782237768 | 4,77E-07 |
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| PPDPF | 2,770431647 | 8,28E-36 |

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| SEMA3F | 2,767986674 | 7,36E-18 |
| ADGRL1 | 2,759064828 | 3,82E-38 |
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| SIKE1 | 2,744055739 | 1,74E-42 |
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| JUP | 2,74298681 | 5,60E-14 |
| TEAD3 | 2,739013695 | 2,58E-20 |
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| RASGEF1A | 2,718467824 | 9,41E-14 |
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| RHOB | 2,709061203 | 6,22E-24 |
| PAQR8 | 2,704965578 | 1,57E-09 |
| PTP4A3 | 2,702129798 | 1,38E-15 |
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| C2orf15 | 2,698128281 | 1,26E-08 |
| TM7SF2 | 2,695994196 | 1,62E-10 |
| STON2 | 2,694974411 | 2,04E-24 |
| CPE | 2,692092185 | 8,26E-08 |
| GSTM4 | 2,687842253 | 1,19E-27 |
| FAM171A2 | 2,687326704 | 2,91E-14 |
| SLC29A2 | 2,687020741 | 2,83E-17 |
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| ASCL2 | 2,668206393 | 5,01E-08 |
| CALHM2 | 2,665957015 | 6,91E-08 |
| SMPDL3B | 2,664846897 | 4,12E-13 |
| CACNA1D | 2,659965322 | 4,22E-10 |
| DHCR24 | 2,658043024 | 3,95E-19 |
| PCLO | 2,655012757 | 6,89E-17 |
| ADAM22 | 2,652630524 | 1,16E-17 |
| ALDOC | 2,647417276 | 1,97E-11 |
| GCAT | 2,64272333 | 7,37E-12 |
| PVRL4 | 2,638088855 | 5,78E-18 |
| KATNAL2 | 2,637430606 | 5,47E-06 |
| GPNMB | 2,63690342 | 1,52E-05 |
| RTN4R | 2,63288772 | 5,07E-08 |
| YIPF2 | 2,630901521 | 1,13E-25 |
| NPL | 2,629719951 | 3,83E-08 |
| ADGRG1 | 2,62727411 | 1,48E-20 |
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| NRAS | 2,620314488 | 4,42E-33 |
| FAM174B | 2,618801776 | 3,08E-08 |
| OAZ3 | 2,615962857 | 0,000288 |
| TRIM33 | 2,613884523 | 3,38E-36 |
| FRMD6 | 2,607337706 | 1,40E-22 |
| DCLRE1B | 2,606150023 | 3,74E-23 |

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| ALDH6A1 | 2,602985358 | 5,21E-16 |
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| OLFM1 | 2,590436411 | 1,61E-18 |
| MYB | 2,586352457 | 0,00023 |
| PARP10 | 2,581158948 | 0,000426 |
| AK7 | 2,57662642 | 6,74E-20 |
| COL9A3 | 2,574454156 | 0,000558 |
| CASKIN1 | 2,569002923 | 3,32E-10 |
| TENM3 | 2,565113702 | 1,12E-20 |
| SLC16A14 | 2,562004599 | 0,000163 |
| DAAM1 | 2,560887344 | 9,30E-25 |
| BCL2 | 2,560824222 | 6,66E-06 |
| ACOX3 | 2,552381837 | 5,22E-14 |
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| B3GNT4 | 2,549633769 | 7,73E-05 |
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| ARSG | 2,541425059 | 8,59E-10 |
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| BCL11B | 2,53695102 | 1,37E-22 |
| ACBD7 | 2,530223659 | 3,72E-07 |
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| DUSP9 | 2,513553335 | 6,59E-05 |
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| TUBD1 | 2,498643025 | 1,34E-15 |
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| ABHD11 | 2,490505602 | 7,50E-20 |
| SP140L | 2,485862808 | 3,02E-09 |
| PITPNC1 | 2,478874605 | 2,02E-30 |
| PLXNB3 | 2,478815395 | 6,22E-10 |
| TGFBR3L | 2,475517354 | 5,85E-05 |
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| CCNG2 | 2,450252805 | 5,37E-07 |
| TLE3 | 2,449518445 | 7,57E-21 |
| CDC42BPG | 2,449129755 | 5,20E-10 |
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| ZBTB42 | 2,448547064 | 2,21E-19 |
| GPR89B | 2,447809995 | 1,59E-06 |
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| ZNF630 | 2,437536848 | 2,36E-05 |
| MYO5C | 2,436725547 | 7,32E-22 |
| GTF2IRD2B | 2,435301555 | 1,65E-11 |
| DDR1 | 2,42858223 | 2,45E-09 |
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| ARID5B | 2,427301919 | 1,38E-22 |

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| LFNG | 2,416636696 | 9,94E-09 |
| ZHX2 | 2,414562837 | 4,88E-19 |
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| CASZ1 | 2,378058575 | 1,48E-09 |
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| HBP1 | 2,369118921 | 5,12E-08 |
| IL17RB | 2,368516657 | 1,70E-05 |
| GCH1 | 2,365381244 | 2,60E-14 |
| RHOV | 2,362682747 | 1,48E-07 |
| PLEKHH1 | 2,355451483 | 1,73E-22 |
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| MACROD1 | 2,345849637 | 1,78E-07 |
| FIBCD1 | 2,34547124 | 0,000448 |
| KLHDC3 | 2,344216135 | 6,33E-18 |
| LOC81691 | 2,343204833 | 2,88E-06 |
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| ZNF595 | 2,332518587 | 8,53E-12 |
| ZNF490 | 2,330861512 | 9,84E-09 |
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| RIMS4 | 2,322252578 | 3,91E-05 |
| SLC50A1 | 2,321382013 | 3,15E-23 |
| RNASEL | 2,320298372 | 3,69E-10 |
| SLC22A23 | 2,317811602 | 1,38E-20 |
| ZBTB12 | 2,317361141 | 8,79E-07 |
| CCDC71L | 2,316594092 | 8,49E-08 |
| LINGO1 | 2,315011913 | 1,03E-09 |
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| PHLPP1 | 2,304492343 | 1,07E-15 |
| L1CAM | 2,304125257 | 1,87E-08 |
| RAB3IP | 2,303826774 | 2,07E-27 |
| ZNF184 | 2,302423814 | 1,90E-18 |
| CRIP2 | 2,301973125 | 5,71E-20 |
| LYRM9 | 2,29277629 | 0,000409 |
| FUOM | 2,290891367 | 8,39E-08 |
| ZNF44 | 2,286279158 | 2,90E-06 |
| SFXN2 | 2,282294631 | 1,69E-15 |
| DSP | 2,274810511 | 9,44E-29 |
| TMCO4 | 2,271363581 | 4,68E-10 |
| RHOBTB1 | 2,269336323 | 3,72E-31 |
| ZNF443 | 2,2644221 | 4,17E-08 |
| RSBN1 | 2,259239491 | 5,46E-17 |

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| MCM3AP-/ | 2,253761027 | 2,44E-09 |
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| NAPG | 2,24046019 | 1,70E-14 |
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| DNMT3B | 2,234869127 | 2,00E-19 |
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| FZD1 | 2,233793601 | 1,61E-15 |
| WDR83OS | 2,233115399 | 1,63E-28 |
| ZFP62 | 2,232970408 | 4,86E-26 |
| JPH3 | 2,23223697 | 7,71E-05 |
| EFNB3 | 2,229144445 | 2,69E-07 |
| ZNF841 | 2,226982298 | 1,52E-07 |
| ZC3H6 | 2,223676981 | 2,44E-07 |
| ZNF611 | 2,222250631 | 4,13E-09 |
| RAD51C | 2,221983567 | 3,85E-31 |
| RPS6KB1 | 2,220048311 | 1,68E-35 |
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| LRRC37A3 | 2,21533081 | 5,63E-07 |
| TBC1D10A | 2,214136377 | 4,05E-10 |
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| ZNF703 | 2,208890346 | 1,80E-23 |
| C9orf152 | 2,208041702 | 0,000652 |
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| TMOD2 | 2,195749595 | 1,76E-06 |
| NKAIN1 | 2,194779435 | 4,54E-11 |
| FBXO27 | 2,189034305 | 1,34E-11 |
| FIS1 | 2,188814195 | 3,46E-18 |
| CRISPLD2 | 2,186579322 | 2,55E-06 |
| FAM43A | 2,185513373 | 1,11E-07 |
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| SLC7A5 | 2,168983713 | 4,97E-09 |
| SLC25A29 | 2,168827275 | 3,79E-19 |
| TTC9 | 2,168520974 | 8,70E-17 |
| MAPK11 | 2,16590107 | 8,16E-07 |
| PRDM4 | 2,161143922 | 4,34E-34 |
| BAMBI | 2,158932512 | 1,50E-32 |
| MEPCE | 2,152031404 | 1,76E-34 |
| PRKCH | 2,15202524 | 3,92E-08 |
| ATP1A1-AS | 2,151516561 | 1,83E-06 |
| RANBP17 | 2,147214203 | 1,82E-07 |
| PAQR4 | 2,14612525 | 1,23E-28 |
| DLG1 | 2,145991328 | 7,00E-23 |

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| ZNF783 | 2,142881863 | 3,78E-10 |
| HEATR6 | 2,132466161 | 6,95E-24 |
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| GABPB1 | 2,115031013 | 1,65E-14 |
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| HMG1 | 2,103774151 | 2,31E-29 |
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| TAF11 | 2,100473705 | 3,72E-20 |
| SALL4 | 2,096687044 | 0,000255 |
| KDM7A | 2,095612472 | 4,76E-06 |
| ZNF879 | 2,095004365 | 0,000948 |
| ZNF519 | 2,093648346 | 2,00E-06 |
| ZNF385A | 2,090020909 | 6,62E-21 |
| EZH2 | 2,089109422 | 1,05E-10 |
| TDRKH | 2,087679123 | 1,73E-06 |
| COX6C | 2,085412195 | 2,81E-23 |
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| N6AMT2 | 2,081954756 | 1,15E-06 |
| TMEM178E | 2,078698292 | 2,51E-07 |
| MGMT | 2,074830895 | 2,43E-10 |
| PDCD4 | 2,071592163 | 2,46E-13 |
| FBXW9 | 2,071480927 | 2,10E-13 |
| ZNF107 | 2,068080672 | 2,07E-17 |
| WDR83 | 2,064433584 | 4,03E-10 |
| RAB3D | 2,064303089 | 1,04E-11 |
| P2RX4 | 2,064177818 | 6,60E-17 |
| C2CD2L | 2,06053894 | 1,20E-07 |
| DHRS13 | 2,060537405 | 2,09E-09 |
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| KIF1A | 2,053816557 | 1,86E-11 |
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| TEF | 2,052883502 | 4,65E-07 |
| ZNF239 | 2,049958017 | 0,000191 |
| MED12L | 2,04593598 | 4,99E-05 |
| MYL12B | 2,045172989 | 4,09E-29 |
| MVD | 2,044283959 | 8,89E-08 |
| LMX1B | 2,040919081 | 7,41E-06 |
| VPS52 | 2,040760932 | 3,31E-26 |
| PSRC1 | 2,040519404 | 7,10E-11 |
| TNNT1 | 2,035718485 | 2,06E-19 |
| F11R | 2,034162983 | 2,20E-19 |
| XYLT1 | 2,027649688 | 1,34E-05 |
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| FAM102B | 2,025864673 | 6,96E-17 |
| CCZ1B | 2,02584136 | 1,16E-15 |
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| FAM127C | 2,020509669 | 3,60E-15 |
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| FAM214A | 2,018631693 | 0,000148 |
| TMEM184 | 2,016751226 | 1,39E-06 |
| TC2N | 2,015533913 | 1,53E-08 |
| CRYL1 | 2,015420912 | 2,57E-11 |
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| CSPG5 | 2,011853844 | 6,79E-05 |
| CRB3 | 2,010583588 | 5,73E-05 |
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| EMB | 2,004116539 | 1,14E-13 |
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| ARF5 | 1,996222545 | 3,33E-29 |
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| DTNBP1 | 1,984899448 | 9,92E-10 |
| RMND5B | 1,980678414 | 9,94E-20 |
| HMG20B | 1,979176686 | 4,43E-25 |
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| NPDC1 | 1,976175774 | 3,09E-17 |
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| TP53TG1 | 1,96130137 | 7,02E-09 |
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| NUDT4 | 1,956152564 | 5,55E-13 |
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| TMEM183E | 1,953409975 | 2,90E-07 |
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| GLB1L2 | 1,949216917 | 2,44E-11 |
| ZCWPW1 | 1,948333534 | 8,66E-05 |
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| SOX4 | 1,934144927 | 4,79E-18 |
| PLOD3 | 1,930099499 | 6,26E-19 |
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| RNASET2 | 1,92759738 | 4,50E-09 |
| GRK6 | 1,925486463 | 4,77E-21 |
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| ADRA2C | 1,903008113 | 9,77E-11 |
| BOLA1 | 1,902512432 | 3,90E-10 |
| ADARB1 | 1,899644082 | 1,69E-07 |
| SERINC5 | 1,89916434 | 4,91E-07 |
| STK19 | 1,896951891 | 1,07E-05 |
| CD82 | 1,892419838 | 0,000127 |
| ONECUT2 | 1,887298321 | 1,52E-08 |
| CORO1B | 1,887277213 | 3,20E-07 |
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| ALKBH4 | 1,884332022 | 1,44E-11 |
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| MAPK3 | 1,880373672 | 3,80E-08 |
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| DYM | 1,851863872 | 5,19E-19 |
| GNB2 | 1,851837139 | 8,47E-20 |
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| GTF3A | 1,851758718 | 9,06E-24 |

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| CENPU | 1,85150746 | 5,55E-09 |
| ISYNA1 | 1,851484552 | 3,90E-15 |
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| SEMA4C | 1,846869219 | 2,34E-11 |
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| GCDH | 1,819530643 | 1,82E-14 |
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| C19orf43 | 1,815028407 | 1,21E-22 |
| SLC9A3R2 | 1,814251649 | 1,22E-14 |
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| DCP2 | 1,809301865 | 5,67E-12 |
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| ZKSCAN1 | 1,80872353 | 4,06E-17 |
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| NCOA3 | 1,802915535 | 5,04E-13 |
| ZFYVE21 | 1,801419418 | 3,17E-13 |
| PNPLA8 | 1,801231962 | 5,54E-05 |
| TNPO2 | 1,80069351 | 1,16E-07 |
| CACNB3 | 1,800340768 | 6,82E-12 |
| TEAD2 | 1,799669952 | 1,27E-09 |
| PRSS16 | 1,798172877 | 1,44E-05 |
| ENSA | 1,797371777 | 7,31E-23 |
| SH3BP1 | 1,796736014 | 2,06E-06 |
| GSE1 | 1,790330202 | 6,08E-21 |
| IQCH-AS1 | 1,78727421 | 1,64E-06 |
| FRS2 | 1,782430862 | 1,28E-08 |
| CBX2 | 1,779989113 | 3,09E-16 |
| TBX2 | 1,779776282 | 6,26E-09 |
| SELENBP1 | 1,779519876 | 1,58E-08 |
| RHBDF1 | 1,779131746 | 1,70E-11 |
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| RALGDS | 1,776349076 | 1,15E-12 |
| PLEKHG5 | 1,772839345 | 0,000543 |
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| WDR53 | 1,771148437 | 3,38E-08 |
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| DGCR6L | 1,766406253 | 2,17E-15 |
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| SETDB1 | 1,75751223 | 1,85E-12 |
| GLCCI1 | 1,753382935 | 7,42E-05 |
| ZNF710 | 1,751546904 | 6,56E-12 |
| ZNF713 | 1,749254334 | 3,01E-05 |
| ZNF304 | 1,748869667 | 2,70E-09 |
| C11orf80 | 1,747285269 | 2,40E-07 |
| MAZ | 1,746071445 | 1,11E-17 |
| ZNF430 | 1,741171783 | 2,06E-06 |
| TRAPPC2L | 1,741150871 | 1,42E-13 |
| TPD52L1 | 1,740747824 | 6,22E-07 |
| MYO6 | 1,739450458 | 3,06E-19 |
| EMP2 | 1,736198441 | 3,60E-08 |
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| ICAM3 | 1,734220139 | 2,97E-05 |
| TRIM39 | 1,731996293 | 2,97E-06 |
| ZNRF1 | 1,730510272 | 1,90E-17 |
| THOC6 | 1,729949554 | 1,32E-06 |
| VPS72 | 1,729803637 | 7,31E-09 |
| CHPF | 1,729666423 | 1,31E-05 |
| PRADC1 | 1,729535501 | 1,72E-05 |
| ATXN7L3B | 1,728935661 | 1,80E-23 |
| ADAM15 | 1,727495736 | 1,65E-16 |
| PKMYT1 | 1,726812354 | 7,59E-11 |
| TRPM7 | 1,725999479 | 2,07E-20 |
| CIRBP | 1,725658759 | 5,88E-07 |
| GAS5 | 1,724330068 | 0,000261 |
| ZNF714 | 1,721676024 | 4,13E-08 |
| SMTN | 1,721576215 | 9,68E-15 |
| EFNA3 | 1,721390601 | 1,07E-07 |
| UBL3 | 1,716095962 | 5,98E-09 |
| FAM53B | 1,715752579 | 1,15E-17 |
| ZNF821 | 1,71529262 | 1,11E-05 |
| PACSIN3 | 1,715036443 | 2,89E-14 |
| ZNF74 | 1,714599705 | 4,61E-13 |
| RFXAP | 1,713774602 | 0,000544 |
| RNF115 | 1,712985094 | 4,60E-16 |
| SMARCD2 | 1,712130812 | 2,41E-21 |
| TP53INP2 | 1,709874387 | 0,001011 |
| GTF2IRD1 | 1,707533752 | 7,54E-13 |
| TNRC6C | 1,7031664 | 6,58E-13 |
| ISOC2 | 1,701603929 | 6,50E-19 |
| CPT1A | 1,69533654 | 4,53E-17 |
| DUS4L | 1,693716874 | 6,88E-09 |
| MEST | 1,693193648 | 2,00E-20 |

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| ISOC1 | 1,69019797 | 6,33E-16 |
| RAB11FIP4 | 1,689064617 | 1,69E-12 |
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| TRIM62 | 1,6834757 | 1,61E-05 |
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| USP20 | 1,6724634 | 1,07E-08 |
| EPHB4 | 1,670927283 | 2,86E-17 |
| SLC35B2 | 1,667550501 | 1,66E-09 |
| POGZ | 1,667143024 | 8,23E-09 |
| FAM193B | 1,66193578 | 1,20E-06 |
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| PLA2G12A | 1,657377491 | 4,71E-09 |
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| KRBA1 | 1,656165537 | 7,04E-07 |
| METTL4 | 1,653433247 | 5,36E-06 |
| PFKL | 1,651012236 | 3,76E-12 |
| COBLL1 | 1,650509119 | 5,62E-07 |
| PIAS2 | 1,649998602 | 1,20E-12 |
| MED28 | 1,649138509 | 1,61E-10 |
| CGREF1 | 1,648034211 | 5,56E-09 |
| CD276 | 1,647255556 | 4,89E-09 |
| GNAS | 1,645752681 | 1,76E-20 |
| NHP2 | 1,645181046 | 2,00E-19 |
| MTL5 | 1,643349457 | 4,40E-05 |
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| CASP6 | 1,642609486 | 2,72E-09 |
| CCDC122 | 1,642002479 | 9,56E-06 |
| RMDN1 | 1,640394445 | 2,57E-09 |
| NFIX | 1,639712691 | 1,56E-05 |
| PPCDC | 1,639383335 | 2,14E-06 |
| ASNS | 1,637675376 | 0,00089 |
| POLR2J | 1,637573017 | 9,36E-11 |
| LLGL2 | 1,636721055 | 6,58E-13 |
| HMG2 | 1,635539635 | 3,89E-14 |
| PI4K2B | 1,63521932 | 6,97E-09 |
| RBM8A | 1,630721809 | 1,06E-17 |
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| MXD3 | 1,626871587 | 5,05E-07 |
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| SAYS1 | 1,621477404 | 7,04E-11 |

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| LRIG1 | 1,619917165 | 4,12E-05 |
| MRPL41 | 1,619589904 | 9,64E-12 |
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| ZSCAN21 | 1,613437443 | 7,64E-09 |
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| POLR3C | 1,609579302 | 1,90E-05 |
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| PCDHB2 | 1,593719349 | 6,81E-07 |
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| ZCCHC14 | 1,588959908 | 3,91E-13 |
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| CDC42SE1 | 1,58709755 | 4,51E-12 |
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| CACFD1 | 1,584485323 | 2,87E-07 |
| ARHGEF37 | 1,582564958 | 0,000759 |
| ABHD16A | 1,581651027 | 8,44E-12 |
| PEX26 | 1,581114877 | 6,02E-13 |
| DHCR7 | 1,58064779 | 3,88E-08 |
| SLC37A4 | 1,580571867 | 1,24E-14 |
| OARD1 | 1,578698518 | 4,51E-11 |
| MEX3B | 1,577584145 | 2,20E-10 |
| LONRF1 | 1,577455651 | 0,000394 |
| ANO8 | 1,576294846 | 7,11E-06 |
| RMND5A | 1,576177853 | 1,42E-11 |
| DNAJC19 | 1,574044238 | 2,17E-07 |
| DVL3 | 1,571408025 | 7,63E-17 |
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| MOSPD3 | 1,56440619 | 3,67E-05 |
| PXDN | 1,563229916 | 9,97E-08 |
| S100A13 | 1,559916047 | 1,03E-08 |
| SLC25A39 | 1,557167681 | 2,20E-19 |
| PPP2R3A | 1,554300839 | 8,71E-06 |
| CPSF4 | 1,554093231 | 8,07E-06 |
| SEZ6L2 | 1,553268233 | 1,71E-06 |
| ZNF680 | 1,552328991 | 6,45E-07 |
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| PHGDH | 1,550268574 | 0,000607 |

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| APH1A | 1,547307133 | 3,14E-14 |
| LSS | 1,545651124 | 4,45E-08 |
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| RAC3 | 1,542564919 | 6,82E-07 |
| MEAF6 | 1,541441781 | 1,20E-06 |
| CHD6 | 1,541406534 | 3,79E-16 |
| RTKN2 | 1,540114043 | 6,18E-06 |
| GADD45GII | 1,538266018 | 4,00E-07 |
| ILVBL | 1,53813994 | 6,52E-12 |
| DLD | 1,536857008 | 7,15E-08 |
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| FAM83H | 1,534689606 | 9,40E-12 |
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| SUV420H1 | 1,529798533 | 7,62E-13 |
| RALBP1 | 1,529448835 | 2,38E-09 |
| VDR | 1,524831516 | 0,000178 |
| CC2D1A | 1,523506488 | 2,18E-08 |
| ZNF564 | 1,522852677 | 0,000317 |
| FAM222A | 1,519139863 | 7,44E-06 |
| LMNB1 | 1,516926873 | 6,22E-12 |
| SNRPE | 1,51689948 | 6,00E-17 |
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| GPRIN1 | 1,510967694 | 1,06E-10 |
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| KRT18 | 1,509038413 | 8,26E-05 |
| SOX2 | 1,507993645 | 1,59E-05 |
| ARMC10 | 1,50790238 | 1,19E-11 |
| ATP5A1 | 1,506823099 | 1,93E-15 |
| RPS18 | 1,506378397 | 1,82E-06 |
| DHPS | 1,505480155 | 2,80E-11 |
| MEX3D | 1,5002235 | 0,000138 |
| EXO5 | 1,499307872 | 0,000375 |
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| TDG | 1,498397888 | 3,31E-15 |
| SCARB2 | 1,496975206 | 5,04E-10 |
| VPS4B | 1,495382286 | 1,07E-11 |
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| STUB1 | 1,490973096 | 4,25E-13 |
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| SRPK2 | 1,483649405 | 1,28E-13 |
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| RAD23A | 1,482881705 | 3,69E-13 |
| SPATA2L | 1,482599495 | 1,10E-07 |
| MIF-AS1 | 1,477220568 | 3,49E-06 |
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| ERMARD | 1,472082843 | 0,000102 |
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| ZFP1 | 1,466657922 | 1,69E-08 |
| PATZ1 | 1,46415175 | 1,14E-06 |
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| TSC22D4 | 1,458642921 | 1,60E-05 |
| ZNF212 | 1,458172363 | 3,17E-07 |
| MVK | 1,457409856 | 1,91E-05 |
| APRT | 1,457304254 | 4,04E-14 |
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| NOP14-AS1 | 1,455006923 | 2,05E-05 |
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| TMEM254 | 1,454756822 | 2,18E-07 |
| KRIT1 | 1,454470565 | 7,86E-10 |
| TSEN15 | 1,453535836 | 0,000169 |
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| ARPC1A | 1,451794612 | 1,42E-09 |
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| LRCH4 | 1,448584586 | 2,40E-10 |
| ARHGAP19 | 1,448361522 | 7,38E-05 |
| NDUFA13 | 1,447389317 | 5,31E-12 |
| SSH3 | 1,44619659 | 7,84E-07 |
| ZNF252P | 1,44527264 | 7,14E-11 |
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| RGS14 | 1,442860957 | 0,000559 |
| PLCG1 | 1,440821108 | 9,24E-12 |
| PPP1R35 | 1,438258078 | 1,40E-06 |
| FYTTD1 | 1,437557965 | 1,25E-07 |
| PODXL2 | 1,436994812 | 1,35E-10 |
| CHST15 | 1,436165079 | 2,53E-07 |
| GPR89A | 1,436070006 | 0,000108 |
| PAK2 | 1,436007189 | 8,95E-13 |
| DNLZ | 1,434470285 | 7,24E-09 |
| MMACHC | 1,434191555 | 2,69E-05 |
| PKP3 | 1,433945312 | 7,23E-07 |
| PRICKLE2 | 1,433268687 | 0,000727 |
| MSL2 | 1,432543345 | 0,000166 |
| PCYOX1L | 1,432092381 | 0,000106 |
| CLOCK | 1,43146896 | 6,21E-09 |
| ZNF548 | 1,431333466 | 0,000315 |
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| CBLB | 1,427018723 | 1,09E-07 |
| TMEM63A | 1,425624463 | 0,000422 |

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| ZNF544 | 1,424181033 | 2,63E-10 |
| RPL35A | 1,423720833 | 2,64E-08 |
| SRF | 1,421477963 | 5,82E-12 |
| ARHGAP10 | 1,421385365 | 1,52E-07 |
| ZNF791 | 1,421141182 | 1,19E-05 |
| RPL17 | 1,419810186 | 9,06E-07 |
| C22orf29 | 1,419550421 | 1,03E-06 |
| ZNF197 | 1,419416889 | 6,84E-06 |
| NADK2 | 1,417219056 | 1,84E-08 |
| HDHD2 | 1,415168955 | 1,30E-05 |
| BRWD1 | 1,415081233 | 1,16E-10 |
| HAX1 | 1,414691744 | 8,97E-13 |
| NCBP2 | 1,413793384 | 5,00E-15 |
| CCDC88C | 1,409609994 | 5,88E-05 |
| LINC00998 | 1,409542146 | 0,000689 |
| COPE | 1,407072954 | 2,00E-12 |
| PDRG1 | 1,406536095 | 0,000539 |
| GALNT12 | 1,405813148 | 2,84E-06 |
| RUSC1 | 1,40554405 | 9,23E-09 |
| SH2B2 | 1,403857823 | 0,000191 |
| HADH | 1,402063527 | 1,47E-05 |
| CLTB | 1,399562372 | 4,52E-05 |
| PEX1 | 1,397550073 | 1,09E-07 |
| SETMAR | 1,396776716 | 1,29E-07 |
| MPV17L2 | 1,395449421 | 1,82E-08 |
| ARRDC1 | 1,395104613 | 6,64E-09 |
| TUFT1 | 1,393840115 | 0,000175 |
| PCYT2 | 1,393564957 | 3,88E-06 |
| HYOU1 | 1,392996346 | 1,76E-09 |
| ATPAF1 | 1,392037207 | 8,50E-08 |
| CCDC167 | 1,391283073 | 0,000522 |
| ABCC5 | 1,391079386 | 6,25E-05 |
| FAM21A | 1,390501111 | 1,23E-10 |
| CHTF18 | 1,390425183 | 5,69E-06 |
| LSM4 | 1,389251548 | 3,86E-13 |
| MRPL11 | 1,388854221 | 1,39E-11 |
| PDCD10 | 1,387338292 | 1,51E-08 |
| PACS2 | 1,386889225 | 8,21E-11 |
| WWP1 | 1,386546961 | 0,00024 |
| SLC2A4RG | 1,385540877 | 4,12E-10 |
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| TSPYL5 | 1,382372011 | 2,53E-13 |
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| GOLPH3L | 1,380535644 | 0,000132 |
| LHX4 | 1,380186587 | 2,36E-07 |
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| LYSMD2 | 1,378045555 | 1,26E-05 |
| FBXW4 | 1,375797471 | 2,33E-07 |
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| ZNF675 | 1,375481501 | 7,18E-06 |

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| FKBPL | 1,375433708 | 1,06E-05 |
| CSK | 1,372413992 | 7,28E-06 |
| ARPC1B | 1,372243989 | 1,27E-06 |
| KCTD13 | 1,37204319 | 1,73E-06 |
| ZNHIT1 | 1,370236208 | 0,000193 |
| RING1 | 1,368451018 | 3,71E-09 |
| MRPS18A | 1,368089062 | 1,59E-09 |
| RAB1B | 1,367120495 | 4,42E-05 |
| STK40 | 1,3668479 | 4,16E-05 |
| BCL7C | 1,365945725 | 1,09E-09 |
| TET3 | 1,365793199 | 7,74E-12 |
| VAV3 | 1,364991059 | 0,000167 |
| PTPMT1 | 1,363474949 | 1,05E-11 |
| MOAP1 | 1,362424717 | 5,42E-06 |
| RNASEH2C | 1,362312482 | 3,42E-05 |
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| GCA | 1,361513938 | 0,000219 |
| NFKBIL1 | 1,361499892 | 5,69E-07 |
| TET2 | 1,359102426 | 1,22E-08 |
| NELFE | 1,357306661 | 4,59E-13 |
| FOXN3 | 1,35632151 | 0,00041 |
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| RFWD2 | 1,35559882 | 5,37E-10 |
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| TMEM161/ | 1,344960811 | 1,70E-05 |
| NSD1 | 1,344868831 | 1,20E-14 |
| KRCC1 | 1,344624201 | 0,000128 |
| GAB1 | 1,344521682 | 0,000237 |
| ESD | 1,343958655 | 2,53E-10 |
| PPP1R3D | 1,342998295 | 8,46E-05 |
| FAM195A | 1,342289513 | 8,64E-09 |
| CELSR2 | 1,341404506 | 9,20E-09 |
| MUT | 1,340460901 | 3,27E-06 |
| MTSS1L | 1,33814895 | 7,92E-07 |
| HSBP1L1 | 1,336514033 | 0,000169 |
| ZNF276 | 1,33568763 | 1,12E-06 |
| UCP2 | 1,33450853 | 9,13E-09 |
| ARMCX6 | 1,333370127 | 9,15E-07 |
| MTERF1 | 1,332538452 | 0,000162 |
| RAB6A | 1,330554047 | 7,41E-07 |
| PTTG1IP | 1,329608188 | 4,10E-13 |
| PPP1R14B | 1,32942841 | 9,91E-12 |
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| TMEM265 | 1,328414736 | 7,71E-05 |
| PIEZO1 | 1,326433502 | 6,49E-11 |
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| SNX27 | 1,323184452 | 6,40E-10 |
| TELO2 | 1,322931094 | 4,88E-10 |
| NDRG2 | 1,322796653 | 0,000689 |

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| ZBTB10 | 1,322785426 | 2,08E-06 |
| DBF4 | 1,322597314 | 3,87E-08 |
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| DHRS7B | 1,320464047 | 2,89E-06 |
| PIK3R2 | 1,319730103 | 2,44E-05 |
| ARFGAP2 | 1,317534633 | 4,27E-10 |
| DNPH1 | 1,31716321 | 1,17E-07 |
| OBSL1 | 1,317048888 | 0,000107 |
| ZNF607 | 1,316895139 | 4,77E-05 |
| LRRC1 | 1,315523996 | 2,09E-06 |
| TBCC | 1,315232881 | 7,51E-06 |
| TMC6 | 1,311848402 | 2,50E-05 |
| LIMK2 | 1,309772778 | 0,000301 |
| PREX1 | 1,309672775 | 3,06E-08 |
| DCXR | 1,30913244 | 1,44E-08 |
| FBXO45 | 1,308930932 | 9,95E-07 |
| ZNF398 | 1,308928075 | 3,39E-10 |
| NFYA | 1,307919507 | 1,18E-06 |
| KARS | 1,307147078 | 5,05E-11 |
| CYBA | 1,306881999 | 1,03E-07 |
| RPRD2 | 1,305857044 | 4,82E-11 |
| CBLL1 | 1,302740794 | 4,13E-09 |
| AK4 | 1,301754914 | 1,09E-07 |
| PBX2 | 1,300986672 | 2,22E-11 |
| ADCK2 | 1,300044247 | 6,75E-06 |
| IVD | 1,297263479 | 4,24E-07 |
| SEPT3 | 1,297102241 | 0,000522 |
| NECAB3 | 1,296773849 | 9,20E-05 |
| CSNK2B | 1,296703391 | 6,03E-11 |
| PRR14 | 1,296508692 | 6,53E-09 |
| DXO | 1,295497275 | 3,02E-05 |
| HMGB3 | 1,295131999 | 2,93E-12 |
| PYCARD | 1,29427364 | 0,000972 |
| INPPL1 | 1,291453401 | 6,34E-11 |
| SF3B4 | 1,291175975 | 9,49E-14 |
| RHOBTB3 | 1,291132315 | 4,64E-09 |
| ATP6V0E2 | 1,290606575 | 0,000168 |
| CYB5R1 | 1,290377781 | 0,000193 |
| AFG3L2 | 1,290139581 | 9,69E-12 |
| PSMD4 | 1,289669582 | 5,50E-14 |
| OLFM2 | 1,289137464 | 8,38E-05 |
| GRINA | 1,28841561 | 0,000317 |
| METRNL | 1,288320245 | 3,31E-07 |
| DDX41 | 1,283601505 | 2,31E-10 |
| SMMDT1 | 1,282439894 | 0,000303 |
| UBN2 | 1,282207352 | 2,81E-06 |
| MSX2 | 1,281847223 | 0,000153 |
| MFSD2A | 1,280759781 | 0,000247 |
| HSDL1 | 1,279222957 | 1,15E-05 |
| C14orf80 | 1,279028678 | 2,98E-07 |

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| ZMIZ1 | 1,275762399 | 2,34E-06 |
| AKT1 | 1,275356506 | 1,59E-06 |
| RINT1 | 1,275128087 | 2,39E-05 |
| PCCB | 1,27473925 | 1,20E-08 |
| NDUFB9 | 1,274300654 | 7,18E-07 |
| CNPY4 | 1,273330797 | 0,000231 |
| AARS2 | 1,270795924 | 3,13E-08 |
| SPATA17 | 1,269527649 | 0,00015 |
| DOCK6 | 1,267897957 | 1,45E-07 |
| ZNF33B | 1,267029159 | 0,000831 |
| DDX20 | 1,266341751 | 1,24E-07 |
| C7orf50 | 1,266179458 | 4,56E-08 |
| SFI1 | 1,26334502 | 9,82E-05 |
| PVRL1 | 1,262030075 | 0,000734 |
| PGM2L1 | 1,259425001 | 2,38E-05 |
| MMP17 | 1,258468103 | 0,000894 |
| SATB2 | 1,257772583 | 0,000235 |
| PUSL1 | 1,257383848 | 5,59E-05 |
| GAMT | 1,256803019 | 5,25E-05 |
| IDI1 | 1,256089258 | 5,28E-05 |
| ATP5L | 1,255441832 | 1,43E-09 |
| HSPB1 | 1,252741647 | 1,31E-06 |
| MCCC1 | 1,251119072 | 0,000126 |
| TCF25 | 1,250994998 | 3,60E-07 |
| NUCKS1 | 1,249609097 | 4,23E-11 |
| ZFH3 | 1,24894895 | 6,34E-07 |
| RPS25 | 1,248534913 | 1,98E-07 |
| RFXANK | 1,248043127 | 3,36E-05 |
| PRKCZ | 1,247876093 | 0,00011 |
| CTIF | 1,247813235 | 1,53E-05 |
| TDP1 | 1,246565773 | 2,41E-08 |
| TIGD6 | 1,244659418 | 0,000566 |
| SPATA33 | 1,243879076 | 4,13E-06 |
| WRB | 1,243689064 | 1,64E-05 |
| PSMB4 | 1,241995836 | 2,60E-08 |
| AFG3L1P | 1,240959384 | 2,72E-05 |
| PRRC2A | 1,239416696 | 2,77E-11 |
| KBTBD7 | 1,238547041 | 0,000117 |
| CNOT2 | 1,238211474 | 7,55E-11 |
| CSRNP2 | 1,23696558 | 5,07E-07 |
| RBM38 | 1,235210816 | 1,17E-08 |
| TFAP2A | 1,235103509 | 1,30E-11 |
| JTB | 1,234002921 | 1,92E-09 |
| NES | 1,233927999 | 0,000775 |
| CMC2 | 1,23113776 | 1,59E-06 |
| SARS | 1,230144167 | 3,96E-05 |
| PPP4C | 1,228004257 | 3,46E-11 |
| DNAL4 | 1,227678033 | 0,000392 |
| BUD31 | 1,227111292 | 3,50E-11 |
| CACNA1H | 1,226862743 | 8,63E-07 |

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| GLTSCR1L | 1,226236485 | 4,18E-06 |
| COMTD1 | 1,224925185 | 1,29E-06 |
| FNBP1 | 1,223741509 | 3,03E-08 |
| UQCR10 | 1,222902625 | 1,39E-06 |
| IFT46 | 1,222680215 | 1,25E-07 |
| ZNF205 | 1,220845204 | 3,36E-05 |
| TMBIM4 | 1,220298928 | 9,24E-06 |
| CD47 | 1,219669471 | 8,42E-08 |
| GGCT | 1,218863864 | 6,32E-10 |
| ZNF397 | 1,218799223 | 8,15E-05 |
| ATXN7L1 | 1,21557037 | 9,12E-05 |
| PRMT2 | 1,215329665 | 7,42E-05 |
| NDST1 | 1,214180957 | 9,09E-07 |
| ATMIN | 1,213160866 | 5,57E-10 |
| MDC1 | 1,213136372 | 1,34E-06 |
| TROAP | 1,213098126 | 0,000695 |
| TMEM128 | 1,211810981 | 0,000951 |
| MAPKAPK2 | 1,210288689 | 2,52E-10 |
| BCL9 | 1,209110899 | 2,41E-06 |
| TERF2IP | 1,207556118 | 1,47E-07 |
| MCUR1 | 1,207132891 | 2,28E-05 |
| ZNF764 | 1,206348785 | 4,37E-05 |
| FAM185A | 1,206296536 | 0,000491 |
| MTMR4 | 1,205934839 | 5,23E-09 |
| ATP5F1 | 1,20547367 | 2,82E-08 |
| CUX1 | 1,204324394 | 1,35E-08 |
| PI4KB | 1,20428892 | 6,76E-08 |
| PEX10 | 1,203678774 | 3,44E-07 |
| CUL9 | 1,202329053 | 8,33E-06 |
| TCF3 | 1,201443832 | 1,43E-09 |
| MAD2L1BP | 1,201337244 | 3,96E-05 |
| POLR3GL | 1,20118375 | 0,000187 |
| ANKS1A | 1,199773705 | 7,49E-08 |
| MARCKSL1 | 1,199185196 | 6,90E-12 |
| PIAS3 | 1,198686118 | 4,83E-09 |
| SMAGP | 1,198683445 | 0,000198 |
| RPL26L1 | 1,197919145 | 4,17E-06 |
| MCM7 | 1,195742337 | 4,49E-08 |
| STMN1 | 1,19571987 | 0,00042 |
| NDUFB5 | 1,192804921 | 6,35E-05 |
| SUPT20H | 1,19218194 | 0,000816 |
| SMG7 | 1,190925769 | 1,27E-11 |
| SLC35B3 | 1,18879956 | 8,26E-05 |
| SGPL1 | 1,188470235 | 1,30E-07 |
| EFCAB11 | 1,18680129 | 0,000375 |
| NUDT16L1 | 1,18649597 | 6,17E-06 |
| HNRNPAB | 1,185127431 | 8,30E-11 |
| GPANK1 | 1,184877933 | 7,68E-05 |
| SSR2 | 1,184003481 | 7,78E-06 |
| TAMM41 | 1,183335761 | 0,00016 |

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| NACC1 | 1,181560852 | 9,51E-09 |
| USP8 | 1,180279507 | 3,13E-10 |
| RRP1 | 1,17758296 | 1,98E-05 |
| PPP1R2 | 1,177566679 | 1,21E-06 |
| MLYCD | 1,175151717 | 0,000263 |
| NR2F2 | 1,175032872 | 1,81E-06 |
| PTGFRN | 1,174139567 | 2,90E-08 |
| C7orf73 | 1,173467606 | 1,34E-08 |
| NDUFB7 | 1,172841436 | 5,40E-09 |
| ROGDI | 1,172838245 | 2,16E-05 |
| POLR3B | 1,170495679 | 6,42E-06 |
| MED20 | 1,169858032 | 0,000715 |
| ZBTB9 | 1,169541662 | 5,29E-06 |
| RBPJ | 1,16913058 | 4,94E-07 |
| OTUD7B | 1,169035602 | 1,06E-08 |
| RP9 | 1,166816769 | 0,000411 |
| PKNOX1 | 1,166542322 | 0,000151 |
| GATAD1 | 1,166455083 | 0,000189 |
| ZNF322 | 1,166401928 | 0,000321 |
| RPS3 | 1,164176433 | 4,36E-06 |
| DUS1L | 1,16403822 | 3,59E-06 |
| PAN3 | 1,16393559 | 0,000333 |
| DNPEP | 1,163917049 | 4,54E-09 |
| TBC1D9B | 1,162645182 | 1,76E-09 |
| TMEM141 | 1,161899849 | 6,47E-07 |
| LYSMD1 | 1,160564141 | 0,000171 |
| AGAP3 | 1,15980204 | 1,31E-06 |
| SLC25A10 | 1,159241746 | 6,09E-05 |
| IMPACT | 1,158336906 | 5,37E-06 |
| C19orf52 | 1,158330637 | 0,000151 |
| PPP6R2 | 1,157266332 | 0,000113 |
| PDE7A | 1,156816276 | 0,000335 |
| PCGF3 | 1,153862926 | 2,69E-08 |
| KMT2C | 1,15331557 | 1,31E-06 |
| ZNF23 | 1,153146829 | 0,000133 |
| FGFR1OP | 1,153122153 | 0,000343 |
| PKN1 | 1,152140538 | 4,34E-08 |
| BCYRN1 | 1,151441208 | 0,000565 |
| MAML1 | 1,150689475 | 8,76E-06 |
| COPG2 | 1,15061265 | 1,49E-05 |
| RNF43 | 1,150290858 | 1,74E-06 |
| ZNF786 | 1,148144434 | 1,45E-06 |
| NBN | 1,146904071 | 3,46E-09 |
| TARS2 | 1,145255124 | 1,32E-05 |
| AP5Z1 | 1,14399897 | 2,44E-05 |
| ATP5I | 1,143875958 | 4,25E-08 |
| GIN52 | 1,143682143 | 5,09E-06 |
| NT5DC2 | 1,142676274 | 1,06E-08 |
| RPP40 | 1,142443441 | 4,16E-05 |
| SLC25A13 | 1,140638757 | 1,23E-05 |

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| MRPS25 | 1,140115636 | 1,07E-07 |
| NMRAL1 | 1,13927116 | 4,36E-06 |
| STK38 | 1,13853745 | 1,63E-07 |
| TOP1 | 1,138346762 | 2,42E-10 |
| TMEM64 | 1,136272217 | 1,12E-08 |
| SQLE | 1,136054023 | 7,00E-07 |
| ATP8B1 | 1,134950651 | 1,17E-05 |
| UGCG | 1,134413584 | 5,76E-05 |
| SECISBP2 | 1,133166361 | 7,59E-07 |
| ZNF652 | 1,133054565 | 9,82E-07 |
| SEC11C | 1,132357994 | 0,000483 |
| RANBP9 | 1,13142984 | 9,08E-07 |
| ACSF3 | 1,131053822 | 1,48E-05 |
| MRPL9 | 1,129467536 | 1,57E-05 |
| OSBPL10 | 1,12844989 | 4,74E-06 |
| RPL18A | 1,128253885 | 1,02E-06 |
| ACTR6 | 1,128060701 | 1,33E-05 |
| PTPN2 | 1,127065019 | 3,13E-07 |
| LDOC1 | 1,12694928 | 0,000146 |
| ATP1A1 | 1,126409818 | 8,89E-08 |
| ZMYND8 | 1,124504321 | 4,25E-08 |
| RHEB | 1,124392373 | 3,92E-06 |
| PSPC1 | 1,122984126 | 9,25E-06 |
| EXD2 | 1,122651226 | 1,64E-07 |
| SKP2 | 1,121591103 | 5,25E-07 |
| ATP2C1 | 1,120950909 | 1,07E-07 |
| CCDC112 | 1,120119649 | 0,00063 |
| DNAJC2 | 1,119407708 | 4,10E-08 |
| AP4E1 | 1,11821056 | 3,75E-05 |
| CDC45 | 1,117538297 | 0,000189 |
| ZNF480 | 1,115547498 | 9,21E-05 |
| SHFM1 | 1,115160626 | 4,71E-09 |
| BRD2 | 1,115046611 | 5,87E-05 |
| PEX11B | 1,114990132 | 0,000112 |
| FARSA | 1,114747629 | 1,30E-05 |
| PELI3 | 1,114491441 | 0,00016 |
| FLRT3 | 1,113144905 | 2,90E-06 |
| HMGB1 | 1,112331665 | 6,19E-11 |
| THAP5 | 1,111553799 | 2,04E-07 |
| KLHDC2 | 1,108978553 | 0,000572 |
| DNAAF3 | 1,108915707 | 0,000172 |
| DBP | 1,108336321 | 0,000559 |
| USP38 | 1,108051613 | 0,000163 |
| COX5B | 1,105973344 | 6,87E-08 |
| IMPDH1 | 1,10555886 | 1,39E-06 |
| MIS18A | 1,10480064 | 0,000252 |
| ATXN7 | 1,103820807 | 4,52E-05 |
| MRPL4 | 1,103819815 | 2,14E-08 |
| WIBG | 1,103432307 | 6,82E-05 |
| SMARCB1 | 1,101651743 | 1,34E-06 |

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| WIZ | 1,101206975 | 5,18E-09 |
| SYNE2 | 1,101070863 | 0,000178 |
| SLC39A7 | 1,100630461 | 4,90E-06 |
| ZNF33A | 1,100415014 | 1,77E-05 |
| PRKAB2 | 1,09968928 | 0,000238 |
| TMEM167F | 1,098749485 | 0,000339 |
| VGLL4 | 1,09833812 | 5,69E-06 |
| RPL13 | 1,097489402 | 7,60E-06 |
| SMAD1 | 1,097434095 | 4,62E-06 |
| NCK2 | 1,09677507 | 6,18E-08 |
| ADD3 | 1,096596529 | 1,03E-05 |
| AKAP9 | 1,095950691 | 7,72E-06 |
| B4GALT7 | 1,09532618 | 3,37E-05 |
| NDUFC1 | 1,094850393 | 1,71E-05 |
| BCR | 1,094645054 | 0,000921 |
| CTNNA1 | 1,094268657 | 1,04E-09 |
| CRTC1 | 1,093656024 | 7,90E-05 |
| RPL14 | 1,093646861 | 1,03E-07 |
| ZNF32 | 1,092020292 | 8,02E-05 |
| RPSAP58 | 1,091768226 | 1,94E-07 |
| ALDH5A1 | 1,090738811 | 1,58E-05 |
| IFT22 | 1,089917339 | 5,91E-07 |
| PPP1R11 | 1,088822354 | 5,03E-06 |
| TUG1 | 1,087498126 | 3,37E-08 |
| CDYL | 1,086534483 | 1,18E-06 |
| SRGAP2 | 1,086077707 | 3,73E-08 |
| PRELID1 | 1,084775886 | 4,13E-08 |
| VPS9D1-AS | 1,083308534 | 3,19E-05 |
| CFDP1 | 1,082189954 | 7,01E-07 |
| ANKRD50 | 1,080938807 | 9,67E-08 |
| OSTC | 1,079246391 | 2,47E-05 |
| HCG18 | 1,078853097 | 5,68E-06 |
| SERPINH1 | 1,077830955 | 8,31E-07 |
| TRAPPC6B | 1,077587503 | 2,38E-05 |
| RPL21 | 1,076503034 | 4,49E-06 |
| COX4I1 | 1,075809014 | 1,95E-07 |
| FAM89B | 1,074605238 | 2,17E-06 |
| SURF1 | 1,074600897 | 0,000773 |
| NCAPG2 | 1,073765915 | 9,24E-06 |
| EBAG9 | 1,07349799 | 0,000216 |
| CLIC1 | 1,072743497 | 1,27E-05 |
| TOR3A | 1,070720526 | 1,06E-07 |
| ITFG3 | 1,070518678 | 0,000234 |
| DBNDD1 | 1,070147442 | 1,72E-05 |
| ZBTB1 | 1,069901216 | 2,38E-06 |
| TPT1 | 1,06923943 | 4,82E-05 |
| C6orf106 | 1,068864163 | 0,000391 |
| MRPS18C | 1,065812279 | 5,53E-05 |
| MCL1 | 1,06310542 | 5,07E-09 |
| RPL30 | 1,062982447 | 0,000305 |

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| POMP | 1,062005961 | 0,000567 |
| CNOT6 | 1,061430238 | 4,02E-06 |
| COG6 | 1,060197208 | 0,00078 |
| YIPF3 | 1,059718674 | 7,10E-06 |
| SUMF1 | 1,057669319 | 0,000532 |
| TMEM251 | 1,057234922 | 3,04E-05 |
| TOMM6 | 1,054867143 | 1,31E-08 |
| UBAC1 | 1,054522378 | 1,40E-06 |
| VANGL1 | 1,053711803 | 5,96E-05 |
| NUSAP1 | 1,051935535 | 0,000344 |
| RAB24 | 1,051547917 | 0,000645 |
| TRAK2 | 1,051343028 | 3,57E-06 |
| HAUS1 | 1,050730581 | 0,00042 |
| AIMP2 | 1,049948232 | 2,64E-07 |
| ECSIT | 1,048523649 | 7,35E-05 |
| LAMTOR4 | 1,048409805 | 3,96E-06 |
| CMTR1 | 1,043870241 | 7,13E-06 |
| PNMA1 | 1,042964573 | 3,39E-05 |
| NSMCE2 | 1,042626926 | 7,33E-05 |
| NFE2L3 | 1,04259968 | 8,80E-05 |
| STYXL1 | 1,042319998 | 0,000614 |
| ECHS1 | 1,04133194 | 1,14E-06 |
| STX16 | 1,040018376 | 0,001015 |
| ZNF254 | 1,038999865 | 0,000192 |
| SIVA1 | 1,038757111 | 5,15E-05 |
| NR1D2 | 1,038616261 | 2,39E-05 |
| PIAS4 | 1,037229354 | 0,000234 |
| BAG6 | 1,036551579 | 4,19E-06 |
| MRPL14 | 1,03619389 | 1,51E-06 |
| SNRPC | 1,033856456 | 1,34E-08 |
| RMND1 | 1,032597687 | 4,04E-06 |
| DDX6 | 1,030804467 | 8,00E-08 |
| RPL21P28 | 1,03006454 | 0,000888 |
| CCDC124 | 1,029242853 | 1,06E-05 |
| GUK1 | 1,029166223 | 0,000566 |
| ADAT1 | 1,028847673 | 6,47E-06 |
| HIGD2A | 1,026245761 | 4,05E-05 |
| VPS45 | 1,025259961 | 1,17E-05 |
| ZKSCAN5 | 1,023181628 | 4,05E-05 |
| MAP1LC3B | 1,023110535 | 0,000981 |
| MARK3 | 1,023025165 | 0,000107 |
| TRPM4 | 1,022282082 | 6,05E-05 |
| FZD6 | 1,021761606 | 0,0002 |
| ZNF282 | 1,020437996 | 2,92E-05 |
| BSDC1 | 1,020300878 | 0,000295 |
| SENP5 | 1,020232608 | 3,97E-06 |
| SERP1 | 1,019574059 | 4,25E-08 |
| UQCC2 | 1,019251745 | 0,000639 |
| SAP130 | 1,018427699 | 4,27E-08 |
| KLHDC4 | 1,018222055 | 2,09E-05 |

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| PPFIA3 | 1,018011416 | 1,16E-05 |
| MBD1 | 1,016868111 | 1,24E-06 |
| MICU2 | 1,016801537 | 1,35E-05 |
| PDAP1 | 1,014627663 | 5,18E-07 |
| ZC3H13 | 1,013481658 | 1,74E-05 |
| TMEM241 | 1,012058014 | 0,000177 |
| ZNRF3 | 1,010408598 | 1,29E-06 |
| EPB41L4B | 1,010117961 | 0,000268 |
| POLR1D | 1,009853906 | 5,60E-05 |
| DAXX | 1,009543472 | 2,31E-06 |
| ATP13A1 | 1,007839709 | 1,58E-06 |
| TMED10 | 1,007728796 | 6,44E-06 |
| NUFIP1 | 1,007363168 | 3,69E-05 |
| YWHAZ | 1,005575909 | 2,38E-05 |
| WBP4 | 1,005469051 | 0,000533 |
| UPF1 | 1,004727353 | 3,52E-07 |
| ARMT1 | 1,003823671 | 5,96E-06 |
| CEP170B | 1,002539932 | 5,71E-07 |
| MRPS18B | 0,998502838 | 7,59E-06 |
| RAB13 | 0,997181138 | 0,000465 |
| RAD21 | 0,996575065 | 2,60E-08 |
| TMEM205 | 0,995701873 | 0,000454 |
| NDUFAF6 | 0,995037298 | 0,000139 |
| ZBTB41 | 0,994215905 | 5,92E-05 |
| C7orf26 | 0,993938643 | 4,84E-06 |
| SOS2 | 0,99307999 | 0,000195 |
| ABT1 | 0,991735458 | 9,69E-05 |
| NDUFAB1 | 0,990495297 | 0,000726 |
| ERI2 | 0,989914346 | 0,000651 |
| SDAD1 | 0,989518362 | 0,000189 |
| RFC2 | 0,988676324 | 2,77E-07 |
| TYRO3 | 0,988667055 | 0,000139 |
| HARS2 | 0,988645261 | 8,78E-06 |
| MKS1 | 0,988283957 | 0,000556 |
| CSTB | 0,987176659 | 1,57E-05 |
| ZFAND2B | 0,986947882 | 0,00031 |
| KDM6B | 0,985996517 | 0,00064 |
| UBL7 | 0,983391584 | 5,01E-05 |
| COPS6 | 0,982016107 | 4,41E-07 |
| LSG1 | 0,9817954 | 1,12E-05 |
| RAB22A | 0,981517884 | 1,24E-06 |
| ESYT2 | 0,980955806 | 1,80E-07 |
| N4BP2L2 | 0,980477976 | 7,74E-05 |
| PSMB1 | 0,980464144 | 1,28E-05 |
| TUBA1A | 0,978906213 | 7,71E-06 |
| UBAP2L | 0,97840977 | 0,000675 |
| BAK1 | 0,977880797 | 1,32E-05 |
| STX6 | 0,976915247 | 3,59E-06 |
| CDK8 | 0,976584028 | 2,41E-05 |
| TPX2 | 0,975682159 | 1,40E-06 |

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| SEH1L | 0,975556971 | 7,60E-07 |
| GATAD2A | 0,975302694 | 1,39E-06 |
| PUS7 | 0,974020476 | 0,000341 |
| CBR4 | 0,971804775 | 0,000395 |
| MIDN | 0,971552548 | 2,11E-05 |
| ANGEL1 | 0,970636458 | 1,90E-05 |
| DCTN4 | 0,969057749 | 9,29E-06 |
| SEPHS1 | 0,968560196 | 0,000189 |
| ABCA2 | 0,968234681 | 0,000987 |
| PSMC3 | 0,964506259 | 4,69E-08 |
| PYCR1 | 0,964019677 | 0,000289 |
| KAT5 | 0,962879713 | 8,47E-05 |
| AP2M1 | 0,961901549 | 0,000239 |
| ZFP90 | 0,961463646 | 2,37E-05 |
| DIAPH1 | 0,960457504 | 0,000114 |
| BTBD6 | 0,957401226 | 6,59E-05 |
| C9orf114 | 0,95690856 | 0,000251 |
| MRFAP1 | 0,956786866 | 1,63E-06 |
| VPS11 | 0,953744955 | 0,000623 |
| CARM1 | 0,951769374 | 3,08E-06 |
| TRAPPC10 | 0,949928981 | 2,29E-05 |
| VAPB | 0,949717811 | 0,000106 |
| ZNF768 | 0,949683058 | 3,21E-05 |
| MTMR3 | 0,949611898 | 1,18E-05 |
| GID8 | 0,948695055 | 5,55E-07 |
| COX6A1 | 0,948684642 | 2,07E-06 |
| RIPK1 | 0,948560697 | 0,000218 |
| BLVRA | 0,94795564 | 0,000669 |
| RIOK3 | 0,947100471 | 0,00099 |
| LEO1 | 0,946231 | 2,06E-06 |
| LINC00674 | 0,945440408 | 0,000537 |
| KMT2E | 0,944547486 | 6,91E-05 |
| GLRX5 | 0,944264267 | 9,98E-05 |
| SLC7A2 | 0,943462408 | 0,000433 |
| UBR2 | 0,941525047 | 4,69E-05 |
| CHMP1A | 0,940216151 | 0,00035 |
| BCAP29 | 0,939196198 | 0,000137 |
| SPIRE1 | 0,939101531 | 4,53E-05 |
| WRNIP1 | 0,938826416 | 0,000292 |
| ADRBK1 | 0,938738592 | 0,000115 |
| SMG5 | 0,935979302 | 6,53E-06 |
| SLC19A1 | 0,935053861 | 4,05E-05 |
| SNX18 | 0,934819487 | 0,000713 |
| LMAN2 | 0,934679054 | 2,75E-05 |
| CARKD | 0,933446013 | 0,000422 |
| ZNF84 | 0,930932678 | 0,000263 |
| CNOT4 | 0,930447279 | 0,000319 |
| TACC3 | 0,929263403 | 0,000864 |
| TRIM41 | 0,925449765 | 1,87E-05 |
| SEPT8 | 0,924522623 | 0,000133 |

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| LARS | 0,924081418 | 4,10E-05 |
| PMPCB | 0,924081011 | 2,75E-05 |
| TAF1C | 0,924030338 | 0,000183 |
| DERL1 | 0,922536294 | 0,000433 |
| PDCL3 | 0,920992217 | 0,000482 |
| TIMM44 | 0,920599251 | 7,86E-05 |
| DCAF16 | 0,919577484 | 0,000968 |
| SHROOM3 | 0,914982732 | 0,000455 |
| ACTR10 | 0,913115358 | 0,000204 |
| C19orf60 | 0,912861641 | 0,000458 |
| DOPEY2 | 0,908157338 | 0,000122 |
| CYTH2 | 0,907903126 | 0,000458 |
| SRSF9 | 0,907895927 | 7,52E-06 |
| MRPL57 | 0,906299411 | 1,01E-05 |
| PPP2R5E | 0,905080083 | 3,66E-05 |
| EVL | 0,904220444 | 0,000296 |
| NBPF15 | 0,904086233 | 0,000298 |
| ALG5 | 0,902550088 | 0,000206 |
| RBM17 | 0,90203211 | 0,000133 |
| AGPAT3 | 0,901754575 | 0,000255 |
| KDM2A | 0,901386044 | 2,27E-05 |
| PHKG2 | 0,900355471 | 0,000111 |
| INTS3 | 0,897487682 | 2,91E-06 |
| RNF130 | 0,897109471 | 0,000459 |
| SMURF1 | 0,896457809 | 3,82E-05 |
| HYAL2 | 0,896176614 | 0,00012 |
| ACTR3B | 0,895900379 | 0,000739 |
| MDH2 | 0,894292754 | 6,22E-05 |
| FKBP8 | 0,893353707 | 0,000956 |
| CPNE3 | 0,893300452 | 2,60E-05 |
| GPATCH2 | 0,892538454 | 0,000229 |
| KIAA1522 | 0,892469878 | 1,10E-05 |
| KLHL36 | 0,890167609 | 0,000314 |
| NCBP2-AS2 | 0,884802337 | 0,000941 |
| UFD1L | 0,883794021 | 1,73E-05 |
| WHSC1 | 0,882445505 | 8,54E-05 |
| NDUFV3 | 0,882287438 | 1,72E-05 |
| RABIF | 0,879910787 | 0,000449 |
| MTCH1 | 0,879749315 | 0,000146 |
| STK11 | 0,877935311 | 4,15E-05 |
| RTKN | 0,877880573 | 0,000665 |
| PYGO2 | 0,877648332 | 6,93E-05 |
| SCFD1 | 0,87744508 | 5,22E-05 |
| GCC1 | 0,876052046 | 0,000394 |
| CDK2AP2 | 0,876012988 | 0,000136 |
| ARF3 | 0,876003351 | 0,000102 |
| STAG1 | 0,875327396 | 2,17E-05 |
| SAMD1 | 0,875100121 | 0,00065 |
| ACAT2 | 0,875020044 | 0,000129 |
| OAZ1 | 0,873421511 | 2,80E-05 |

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| RPS2 | 0,87174412 | 9,28E-06 |
| PPP4R3A | 0,871680946 | 2,08E-05 |
| MRPS10 | 0,870427129 | 5,19E-05 |
| ASCC2 | 0,865116781 | 0,000214 |
| FBXL19 | 0,864445223 | 0,000158 |
| FOXP4 | 0,863297608 | 0,000668 |
| RNF40 | 0,861531502 | 0,000129 |
| ZKSCAN8 | 0,861027266 | 0,000403 |
| SLC52A2 | 0,86017945 | 0,000125 |
| PPIL1 | 0,85950481 | 6,37E-05 |
| TRIM27 | 0,855866726 | 0,000756 |
| BCKDK | 0,855574476 | 0,000148 |
| CEP63 | 0,855040343 | 0,000987 |
| SLC3A2 | 0,854563366 | 1,30E-05 |
| NUMA1 | 0,854166767 | 4,04E-05 |
| LEMD2 | 0,853318497 | 5,59E-05 |
| GAK | 0,85285052 | 1,69E-05 |
| CYP51A1 | 0,852361194 | 3,67E-05 |
| CCNF | 0,850995041 | 2,21E-05 |
| LCMT1 | 0,85057831 | 0,000415 |
| TMEM9 | 0,849765761 | 6,05E-05 |
| ENOPH1 | 0,848839504 | 7,98E-05 |
| C6orf89 | 0,847850643 | 0,000102 |
| SURF2 | 0,847242629 | 0,000463 |
| CHMP4B | 0,847014018 | 5,26E-06 |
| ZDHHC4 | 0,846156025 | 0,000226 |
| FAM207A | 0,844579125 | 0,000485 |
| SNRPD3 | 0,844533583 | 7,09E-05 |
| CDCA3 | 0,844360299 | 0,000344 |
| GCSH | 0,842373766 | 0,000502 |
| GLCE | 0,842067007 | 5,60E-05 |
| BCL7A | 0,841876264 | 0,000618 |
| HDAC3 | 0,840965622 | 0,000198 |
| STX7 | 0,840781998 | 0,000727 |
| PPP1CA | 0,840373003 | 2,91E-06 |
| FBR3 | 0,838416744 | 5,18E-06 |
| SEPHS2 | 0,836377555 | 9,14E-06 |
| SS18 | 0,835434365 | 0,000143 |
| STAG2 | 0,834391525 | 7,52E-06 |
| TRIP11 | 0,833243118 | 0,000417 |
| ACAA2 | 0,832668075 | 6,52E-05 |
| LEMD3 | 0,831878167 | 0,00034 |
| FAM120AC | 0,831126757 | 0,000387 |
| RPUSD1 | 0,82945637 | 0,00055 |
| TBC1D10B | 0,82939139 | 4,18E-05 |
| ZMIZ2 | 0,827488368 | 1,21E-05 |
| TSEN54 | 0,826103152 | 0,000904 |
| FZR1 | 0,824762639 | 0,00042 |
| GNAI3 | 0,82473303 | 0,000107 |
| GNB2L1 | 0,822468617 | 6,09E-05 |

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| PSMD7 | 0,821862284 | 7,56E-06 |
| CTBP1 | 0,82183206 | 9,16E-05 |
| PRR7 | 0,819515917 | 0,000516 |
| ARNT | 0,819088037 | 7,25E-05 |
| CDC5L | 0,818474906 | 7,03E-05 |
| PPT1 | 0,818150791 | 0,000958 |
| RNF114 | 0,816576677 | 0,000128 |
| ACTL6A | 0,81613134 | 0,000143 |
| MCM2 | 0,816011261 | 1,27E-05 |
| EARS2 | 0,815443161 | 0,000433 |
| FAHD1 | 0,812392831 | 0,000118 |
| C16orf13 | 0,810848802 | 0,00011 |
| TRAF4 | 0,810819216 | 1,72E-05 |
| SPINT2 | 0,810289462 | 3,48E-05 |
| TNIP2 | 0,808861043 | 0,000165 |
| TRRAP | 0,800889462 | 5,50E-05 |
| H2AFZ | 0,798790784 | 0,000379 |
| NFRKB | 0,798618621 | 0,00042 |
| CAND1 | 0,798249984 | 0,000126 |
| CANX | 0,797503341 | 7,26E-05 |
| DCAF15 | 0,795701557 | 0,00087 |
| YIF1A | 0,794204919 | 7,60E-05 |
| MRPS21 | 0,792776662 | 8,26E-05 |
| GNL1 | 0,791318506 | 0,000291 |
| SREBF2 | 0,786336993 | 0,000988 |
| COX7C | 0,785818964 | 6,00E-05 |
| ARMC6 | 0,784712772 | 0,000499 |
| TAF6 | 0,784405578 | 0,000255 |
| SAP18 | 0,780984561 | 0,00011 |
| RAF1 | 0,778632373 | 0,00016 |
| MAP2K2 | 0,777634661 | 0,000635 |
| TMEM106C | 0,776570553 | 0,000158 |
| WDR73 | 0,775659744 | 0,000412 |
| PABPC1 | 0,774858761 | 1,26E-05 |
| PPIL2 | 0,773907784 | 0,000326 |
| MRPL2 | 0,771813728 | 0,000259 |
| CXXC1 | 0,771734521 | 0,000996 |
| EPB41L5 | 0,771506803 | 0,000569 |
| PANK3 | 0,771425473 | 0,000285 |
| NOL7 | 0,768343986 | 0,000433 |
| TEX2 | 0,766932347 | 0,000268 |
| PPP2R5C | 0,766648179 | 0,000313 |
| TACO1 | 0,766160368 | 0,000108 |
| DHX38 | 0,766155384 | 0,000289 |
| NELFA | 0,765467201 | 0,000672 |
| TLCD1 | 0,765332077 | 0,00078 |
| MORC2 | 0,764741168 | 6,53E-05 |
| SLC25A24 | 0,764665629 | 0,000239 |
| SMIM7 | 0,764186021 | 0,000576 |
| KNOP1 | 0,763157198 | 0,00018 |

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| RAE1 | 0,760172001 | 0,000965 |
| H3F3B | 0,759582159 | 2,17E-05 |
| RNF139 | 0,759162242 | 0,000285 |
| SYPL1 | 0,75624972 | 0,001015 |
| FDPS | 0,755231544 | 5,08E-05 |
| MRFAP1L1 | 0,755071296 | 0,000292 |
| IMP4 | 0,75255653 | 6,38E-05 |
| SNRPA1 | 0,751902976 | 0,000423 |
| C14orf2 | 0,751875384 | 0,000775 |
| PPIF | 0,748698523 | 6,84E-05 |
| SMCHD1 | 0,746357012 | 0,000658 |
| RRP36 | 0,742786237 | 0,000167 |
| CTBP2 | 0,740221571 | 0,000818 |
| ZMYND11 | 0,738642855 | 0,000595 |
| MTA2 | 0,73445575 | 5,80E-05 |
| PTPN18 | 0,725963545 | 0,000943 |
| CASP2 | 0,72439561 | 0,00035 |
| RPL8 | 0,723706563 | 0,000122 |
| CCNI | 0,720473533 | 7,85E-05 |
| LAPTM4B | 0,718332101 | 0,000137 |
| SMPD4 | 0,717232212 | 0,000153 |
| CCNA2 | 0,714324714 | 0,000285 |
| VAR5 | 0,712443421 | 5,33E-05 |
| YWHAH | 0,709524699 | 0,000206 |
| ANKIB1 | 0,709430201 | 0,000367 |
| KMT2D | 0,700916676 | 0,000674 |
| AVL9 | 0,700433425 | 0,00031 |
| ITPK1 | 0,697197182 | 0,000182 |
| ADK | 0,687662251 | 0,000786 |
| YY1 | 0,687228966 | 0,000967 |
| FBRSL1 | 0,685227611 | 0,000328 |
| XPO5 | 0,681644693 | 0,000264 |
| TADA3 | 0,679901 | 0,000916 |
| PRCC | 0,679370156 | 0,000437 |
| GUCD1 | 0,677448256 | 0,000871 |
| SLC44A1 | 0,674520283 | 0,000566 |
| DLGAP5 | 0,671140577 | 0,000866 |
| CENPN | 0,670769492 | 0,00087 |
| RBM15B | 0,647169217 | 0,000486 |
| BPTF | 0,621311867 | 0,000864 |
| ILF2 | 0,614464184 | 0,00073 |
| YWHAQ | -0,615805196 | 0,00102 |
| PSMD8 | -0,618283043 | 0,000635 |
| NAP1L4 | -0,634832197 | 0,000885 |
| AEN | -0,634931801 | 0,000861 |
| RPL23 | -0,638373365 | 0,000747 |
| DNM1L | -0,63945966 | 0,000895 |
| EBNA1BP2 | -0,660055921 | 0,000735 |
| NME4 | -0,663290458 | 0,000321 |
| WNK1 | -0,664126607 | 0,000416 |

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| TMX2 | -0,665984556 | 0,000751 |
| DSG2 | -0,66772735 | 0,000822 |
| RBCK1 | -0,672340416 | 0,000617 |
| DCTN1 | -0,676725379 | 0,000759 |
| COPZ1 | -0,679547019 | 0,000385 |
| CHMP2B | -0,682598648 | 0,000859 |
| PITPNA | -0,684886017 | 0,000965 |
| UBQLN1 | -0,689331975 | 0,000457 |
| SRP68 | -0,701757293 | 0,000284 |
| NASP | -0,704239511 | 0,000172 |
| TFAM | -0,707300232 | 0,000404 |
| SLC31A1 | -0,710547164 | 0,00035 |
| COX7B | -0,7142806 | 0,000714 |
| KIF4A | -0,714860174 | 0,000714 |
| C11orf58 | -0,725512534 | 9,72E-05 |
| NCL | -0,726901273 | 2,48E-05 |
| STK25 | -0,729866019 | 0,000392 |
| PPP1CB | -0,733117821 | 0,000693 |
| FAM199X | -0,733450403 | 0,000353 |
| DDX47 | -0,733525111 | 0,000471 |
| IPO5 | -0,733705228 | 0,000221 |
| PAFAH1B2 | -0,734793018 | 0,000248 |
| ESF1 | -0,736833143 | 0,000369 |
| POLRMT | -0,737051572 | 0,000459 |
| MDN1 | -0,738538154 | 0,000268 |
| PFN2 | -0,740538061 | 0,000105 |
| PRPF8 | -0,741955326 | 0,000509 |
| ZFP91 | -0,742185365 | 0,000536 |
| BROX | -0,744335137 | 0,000791 |
| RCN1 | -0,748346929 | 0,000129 |
| PUM2 | -0,751028285 | 7,98E-05 |
| GALNT1 | -0,751453662 | 0,000101 |
| XRN2 | -0,753269517 | 0,000164 |
| KPNA6 | -0,755062063 | 0,000414 |
| NSFL1C | -0,755244245 | 0,000472 |
| PAFAH1B1 | -0,757831769 | 6,03E-05 |
| IKBKAP | -0,75890065 | 0,00036 |
| SEPT7 | -0,760150858 | 0,000237 |
| NPTN | -0,763144396 | 0,000116 |
| KIAA0232 | -0,764107972 | 0,000582 |
| CCT4 | -0,764323019 | 1,05E-05 |
| VEZF1 | -0,764800912 | 0,000443 |
| EXOSC2 | -0,766717224 | 0,000291 |
| DHX40 | -0,76706401 | 8,06E-05 |
| PHRF1 | -0,767949693 | 5,33E-05 |
| CCT6A | -0,770515707 | 2,84E-05 |
| ICMT | -0,772835514 | 3,95E-05 |
| RBM42 | -0,773761013 | 0,00025 |
| PHACTR4 | -0,774559856 | 0,000132 |
| LANCL1 | -0,774951898 | 0,000355 |

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| ATXN2 | -0,775669381 | 0,000618 |
| PCGF5 | -0,777940188 | 0,000402 |
| DDHD2 | -0,777982578 | 0,00089 |
| DDX3X | -0,778193048 | 2,37E-05 |
| ACBD3 | -0,779070322 | 0,000266 |
| SMAD2 | -0,781112084 | 5,38E-05 |
| CSNK2A2 | -0,784748071 | 0,000361 |
| VMA21 | -0,784847754 | 0,000678 |
| KIF3B | -0,785876021 | 0,001011 |
| POLR2C | -0,785990469 | 7,34E-05 |
| GRIPAP1 | -0,786086481 | 0,000264 |
| OGFOD1 | -0,7861782 | 0,000218 |
| TTC17 | -0,786894397 | 0,000938 |
| SHMT1 | -0,788817501 | 0,000417 |
| SUPT5H | -0,791259896 | 0,000454 |
| CNOT1 | -0,792881385 | 4,47E-05 |
| KAT6A | -0,793473522 | 0,000243 |
| CASC3 | -0,794781895 | 0,000164 |
| FAM83G | -0,795532151 | 0,000543 |
| BAZ2A | -0,796483285 | 7,03E-05 |
| EML1 | -0,796561098 | 0,000491 |
| IDH3A | -0,797048711 | 2,80E-05 |
| AUP1 | -0,797085886 | 6,93E-05 |
| NUP98 | -0,797223833 | 1,15E-05 |
| ZZEF1 | -0,798535317 | 0,000149 |
| COPB1 | -0,79903482 | 4,33E-05 |
| ENTPD6 | -0,799108593 | 6,35E-05 |
| DDX55 | -0,801208104 | 0,00036 |
| SNHG16 | -0,80128069 | 0,000238 |
| POLD1 | -0,801354623 | 0,000399 |
| TRAF3IP1 | -0,801777985 | 0,000631 |
| CDK16 | -0,802781964 | 1,49E-05 |
| WBP11 | -0,80310758 | 2,46E-05 |
| CFLAR | -0,805557754 | 0,0002 |
| TSR1 | -0,805831967 | 6,11E-06 |
| PFN1 | -0,806419879 | 2,15E-06 |
| ICE1 | -0,810174627 | 0,000163 |
| PTP4A2 | -0,812685959 | 9,54E-05 |
| PRPF4 | -0,813589413 | 5,82E-05 |
| IMPAD1 | -0,814040967 | 3,67E-05 |
| UBA1 | -0,814148794 | 0,000502 |
| CALM2 | -0,815265537 | 7,27E-06 |
| AKAP13 | -0,816733811 | 3,52E-05 |
| UQCRFS1 | -0,817069918 | 1,11E-05 |
| RSPRY1 | -0,817760497 | 0,00032 |
| NT5C3B | -0,820435218 | 8,17E-05 |
| SMC5 | -0,82110688 | 0,000696 |
| PDCD5 | -0,821293847 | 3,83E-05 |
| MELK | -0,822071739 | 5,69E-05 |
| SUPT6H | -0,822343879 | 0,000457 |

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| GLUD1 | -0,8246912 | 1,16E-05 |
| NAA35 | -0,827230346 | 0,000333 |
| SLC27A2 | -0,828729111 | 0,000317 |
| ECT2 | -0,829093725 | 1,23E-05 |
| NDEL1 | -0,829384886 | 0,000474 |
| ZYG11B | -0,82939773 | 0,00065 |
| SLC25A22 | -0,8298654 | 0,000642 |
| FAM49B | -0,83029425 | 3,07E-05 |
| PACSIN2 | -0,831199145 | 0,000953 |
| TMEM248 | -0,831311231 | 0,000151 |
| UBAC2 | -0,833493191 | 0,000789 |
| STRN | -0,833666351 | 7,98E-05 |
| AATF | -0,833792543 | 5,66E-06 |
| PROSER3 | -0,83421459 | 0,000906 |
| MRPS12 | -0,835318672 | 0,00042 |
| ERCC6L2 | -0,835847658 | 0,000601 |
| VPS37A | -0,836191151 | 0,000305 |
| ANKS6 | -0,836200772 | 0,000259 |
| FOCAD | -0,838518424 | 0,000415 |
| COA6 | -0,838691128 | 0,000987 |
| SMU1 | -0,843020382 | 2,13E-05 |
| TTC7A | -0,843199424 | 0,000609 |
| NPLOC4 | -0,843876538 | 6,44E-06 |
| ALDH3A2 | -0,844429871 | 7,43E-06 |
| RHOF | -0,844964371 | 0,000135 |
| NLGN2 | -0,847520671 | 0,000776 |
| CD151 | -0,847943843 | 1,14E-05 |
| ALS2 | -0,84912157 | 0,000462 |
| ARHGAP11 | -0,852228568 | 0,000168 |
| INTS7 | -0,852580033 | 0,000133 |
| RAPGEF6 | -0,853446898 | 0,000412 |
| FAM129B | -0,854375967 | 0,000112 |
| WDR12 | -0,85513409 | 2,70E-05 |
| RNGTT | -0,855255788 | 0,000395 |
| IER3 | -0,855519298 | 0,000438 |
| MIA3 | -0,856712653 | 8,60E-05 |
| C14orf119 | -0,858468091 | 0,000835 |
| NDUFA10 | -0,858644395 | 4,68E-05 |
| PSENEN | -0,859837187 | 0,00012 |
| TBCA | -0,860963787 | 0,000241 |
| RNASEH1 | -0,861454912 | 7,13E-05 |
| GCC2 | -0,862195747 | 0,000968 |
| BFAR | -0,864211793 | 2,93E-05 |
| CTDNEP1 | -0,865125621 | 5,08E-05 |
| ATL2 | -0,868738908 | 2,73E-05 |
| NMT1 | -0,869751094 | 1,58E-05 |
| GIGYF2 | -0,869972168 | 1,03E-05 |
| STAT5B | -0,870507917 | 7,78E-05 |
| HUWE1 | -0,870826121 | 9,10E-07 |
| TVP23B | -0,870974903 | 0,000369 |

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| HIAT1 | -0,871258207 | 0,000178 |
| PTP4A1 | -0,872040859 | 1,00E-05 |
| HMG20A | -0,872083756 | 0,000285 |
| NCKAP1 | -0,872768051 | 3,47E-05 |
| TMED7 | -0,873084074 | 6,52E-05 |
| EFTUD2 | -0,874155921 | 8,40E-05 |
| FNDC3A | -0,874309281 | 0,000113 |
| KIAA1551 | -0,875052173 | 0,000545 |
| PRKDC | -0,876494398 | 0,000193 |
| GGH | -0,87693641 | 0,000931 |
| SBNO1 | -0,877148381 | 4,72E-05 |
| IPO9 | -0,878269061 | 0,000243 |
| KMT2B | -0,878777647 | 1,97E-05 |
| SNX9 | -0,879130218 | 0,000392 |
| TMEM181 | -0,880549019 | 0,000582 |
| EDEM2 | -0,883189518 | 0,000383 |
| PARD3 | -0,883794256 | 7,35E-05 |
| XPC | -0,884124908 | 7,42E-05 |
| ZFAND6 | -0,884296038 | 0,000138 |
| EXTL3 | -0,885060717 | 9,06E-05 |
| RFC5 | -0,885342173 | 0,00054 |
| SLC35A2 | -0,886260578 | 0,000411 |
| POLR1E | -0,888268795 | 0,000226 |
| STRAP | -0,888295394 | 7,88E-05 |
| LINC01420 | -0,888457904 | 0,000384 |
| CD24 | -0,888490001 | 0,000486 |
| HEBP1 | -0,888989377 | 0,000864 |
| GOPC | -0,893928509 | 8,34E-05 |
| ATP6V1B2 | -0,89559927 | 1,89E-05 |
| MTFMT | -0,895620119 | 0,000533 |
| RECQL | -0,896619604 | 9,64E-05 |
| SMCR8 | -0,89776349 | 1,00E-05 |
| COX15 | -0,898197295 | 8,28E-06 |
| MRPL44 | -0,898493991 | 9,20E-05 |
| CHUK | -0,901446522 | 0,000316 |
| PSMA1 | -0,902104356 | 6,46E-06 |
| ZDHC5 | -0,902161803 | 1,38E-06 |
| MRPS26 | -0,902456259 | 0,000127 |
| GEMIN7 | -0,903976778 | 0,000955 |
| PSMC4 | -0,907342319 | 3,11E-07 |
| SAAL1 | -0,909573833 | 5,35E-05 |
| FASTKD5 | -0,910324897 | 0,000304 |
| BECN1 | -0,911934458 | 1,92E-05 |
| SHB | -0,91215614 | 1,24E-05 |
| PSMB3 | -0,914548599 | 1,90E-06 |
| GIT1 | -0,920866187 | 1,34E-06 |
| UBE2R2 | -0,920976739 | 9,07E-06 |
| MYCBP2 | -0,921060609 | 0,000196 |
| GNB5 | -0,922431762 | 0,000195 |
| PSEN2 | -0,922725266 | 0,00056 |

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| OSBP | -0,92378496 | 2,93E-05 |
| HMGA1 | -0,927376175 | 2,59E-05 |
| ARFGEF1 | -0,933677864 | 6,68E-05 |
| LYPLA1 | -0,934288139 | 3,05E-05 |
| MEN1 | -0,935267564 | 3,20E-06 |
| ARL14EP | -0,936651086 | 0,000321 |
| DHX33 | -0,938294384 | 2,07E-05 |
| NPTXR | -0,938839121 | 0,000725 |
| NUP85 | -0,940974666 | 0,000448 |
| USP24 | -0,941037152 | 9,09E-05 |
| PPP3CA | -0,945433384 | 7,59E-05 |
| HIP1 | -0,945714245 | 4,89E-06 |
| CAD | -0,94665571 | 7,05E-05 |
| GPATCH1 | -0,946690618 | 0,000143 |
| DDX21 | -0,947908187 | 0,000116 |
| CD81 | -0,948330828 | 2,19E-07 |
| TRIM44 | -0,949707115 | 2,81E-07 |
| RAB11FIP2 | -0,949828484 | 0,000749 |
| RAPGEF1 | -0,950615564 | 0,00014 |
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| AGPAT5 | -0,951918518 | 4,70E-05 |
| DDX51 | -0,95271156 | 1,51E-05 |
| DNAJC16 | -0,953266068 | 0,00098 |
| TSG101 | -0,953845862 | 0,000133 |
| NCOR1 | -0,954431054 | 2,36E-07 |
| SOAT1 | -0,956204876 | 0,000483 |
| ARIH2 | -0,957541547 | 6,15E-06 |
| TTL | -0,959640381 | 5,69E-05 |
| TRAM2 | -0,959880085 | 2,96E-06 |
| NAT14 | -0,961968843 | 0,00099 |
| NSMAF | -0,962437367 | 1,63E-05 |
| ARID1B | -0,962600144 | 4,58E-05 |
| MYH10 | -0,963437287 | 1,60E-06 |
| TMCC1 | -0,963454774 | 4,58E-05 |
| NOC4L | -0,965301199 | 1,07E-05 |
| KIAA1143 | -0,967617616 | 0,000794 |
| CTNS | -0,96792933 | 0,000473 |
| TIMM50 | -0,968765763 | 1,34E-07 |
| ATM | -0,969248206 | 0,00023 |
| DDX17 | -0,969300907 | 3,35E-06 |
| CYP20A1 | -0,970921043 | 8,50E-05 |
| CRLS1 | -0,971055194 | 5,70E-05 |
| MAGT1 | -0,971448421 | 1,31E-06 |
| RPS16 | -0,971968571 | 0,000323 |
| SUZ12 | -0,972038494 | 5,25E-06 |
| URB2 | -0,972289412 | 3,12E-05 |
| TRIM32 | -0,972941801 | 6,75E-05 |
| SLC16A1 | -0,974071835 | 1,08E-05 |
| API5 | -0,974100191 | 4,82E-06 |
| SNTB2 | -0,975221555 | 0,000264 |

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| LAPTM4A | -0,975639745 | 4,41E-07 |
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| LEPROT | -0,975805316 | 0,000142 |
| FN3KRP | -0,977579542 | 1,85E-05 |
| CARS2 | -0,978518928 | 7,37E-05 |
| TRAF3 | -0,980217977 | 1,64E-05 |
| TOMM20 | -0,980380532 | 1,14E-05 |
| PIN4 | -0,981487059 | 0,000168 |
| AMOTL1 | -0,981493835 | 3,41E-05 |
| UTP18 | -0,981895205 | 6,37E-06 |
| BOP1 | -0,983072394 | 5,77E-08 |
| MRPS27 | -0,983270727 | 4,62E-07 |
| OPA3 | -0,984943648 | 0,000129 |
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| PSMD11 | -0,987509265 | 2,17E-07 |
| ARAF | -0,987946494 | 0,00011 |
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| SH3PXD2B | -0,988633495 | 9,16E-05 |
| EMC9 | -0,988769695 | 0,000823 |
| WIPF2 | -0,989305418 | 4,26E-06 |
| TYW3 | -0,989478355 | 3,38E-05 |
| ACTR5 | -0,990709795 | 0,000625 |
| AR | -0,990779535 | 0,000111 |
| CNP | -0,991471958 | 2,86E-05 |
| PSMD1 | -0,992533084 | 4,32E-06 |
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| DESI2 | -0,993242811 | 2,02E-05 |
| ZFR | -0,996598889 | 0,000656 |
| NXN | -0,99678682 | 0,000609 |
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| WDR44 | -0,998186096 | 0,000471 |
| EIF3M | -0,998315551 | 9,93E-07 |
| MYEOV2 | -0,998949847 | 4,38E-05 |
| ARL3 | -0,999285052 | 1,01E-05 |
| AFF1 | -1,000010125 | 4,71E-05 |
| GEMIN4 | -1,00129503 | 1,82E-07 |
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| SERTAD2 | -1,003758802 | 5,12E-06 |
| PPP1R9B | -1,004491898 | 7,69E-08 |
| GSK3A | -1,004873239 | 4,22E-07 |
| DDX10 | -1,006089324 | 8,25E-07 |
| COL18A1 | -1,006182757 | 9,48E-08 |
| URI1 | -1,006751858 | 2,79E-08 |
| LINC00094 | -1,008224419 | 0,00035 |
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| NSMF | -1,010732407 | 1,02E-06 |
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| RASAL2 | -1,012849322 | 6,31E-05 |
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| PCM1 | -1,015059839 | 8,09E-07 |
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| CCDC34 | -1,02176366 | 5,29E-05 |
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| VRK2 | -1,023371766 | 8,28E-05 |
| LSM14A | -1,023782496 | 7,80E-05 |
| SIX5 | -1,023960808 | 0,000707 |
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| MAP2K4 | -1,024951063 | 6,41E-05 |
| ALCAM | -1,025613357 | 8,52E-05 |
| PLEKHA3 | -1,026318164 | 0,00089 |
| LGALS1 | -1,026497198 | 0,000665 |
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| RIF1 | -1,02819853 | 5,85E-05 |
| LMF2 | -1,028523167 | 0,000292 |
| STXBP5 | -1,028700146 | 0,000679 |
| TTC31 | -1,029182582 | 0,000513 |
| PTMS | -1,030021053 | 8,02E-05 |
| CSPP1 | -1,031778341 | 0,000722 |
| PPP1R12B | -1,032519884 | 0,000204 |
| TMEM261 | -1,032830149 | 1,29E-05 |
| NSL1 | -1,033669236 | 2,55E-05 |
| PTPN21 | -1,03479245 | 0,000849 |
| CLTA | -1,035548909 | 1,08E-05 |
| TWISTNB | -1,035600353 | 2,84E-05 |
| TACC1 | -1,036042309 | 1,24E-06 |
| PDDC1 | -1,037711388 | 0,000398 |
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| CYFIP1 | -1,040108986 | 8,94E-08 |
| VPS54 | -1,04093028 | 0,000362 |
| METTL16 | -1,042745966 | 4,68E-07 |
| PLCB4 | -1,044527426 | 0,00089 |
| PPTC7 | -1,047530283 | 5,96E-05 |
| PPP2CB | -1,048361575 | 1,36E-06 |
| ERC1 | -1,051552367 | 5,99E-08 |
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| WDFY1 | -1,055466697 | 1,72E-06 |

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| ELOVL5 | -1,056419794 | 2,90E-08 |
| SLFN5 | -1,056498081 | 0,00088 |
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| ATP11A | -1,060514288 | 0,000229 |
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| CORO1C | -1,063084638 | 5,20E-07 |
| MIER1 | -1,063473221 | 4,10E-06 |
| NFKBIB | -1,063757202 | 0,000724 |
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| DRAM1 | -1,065014602 | 0,000653 |
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| TACC2 | -1,06645684 | 1,11E-05 |
| C2orf44 | -1,066538765 | 0,000745 |
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| BAG4 | -1,067803093 | 6,02E-06 |
| BIRC6 | -1,068506068 | 3,66E-05 |
| TOMM5 | -1,068672589 | 6,13E-07 |
| OCIAD2 | -1,069156795 | 0,000213 |
| MACF1 | -1,069232761 | 1,87E-07 |
| RAI1 | -1,069868344 | 0,000722 |
| COX11 | -1,070821744 | 0,000491 |
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| SNRPB | -1,079361031 | 4,24E-05 |
| TMEM147 | -1,079942296 | 4,70E-06 |
| EFR3B | -1,080277758 | 6,44E-06 |
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| TALDO1 | -1,084293032 | 1,90E-06 |
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| SPATA20 | -1,085405376 | 0,000746 |
| MPRIP | -1,086087729 | 1,30E-06 |
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| RAB10 | -1,094745941 | 7,60E-09 |
| CAB39 | -1,095121417 | 6,65E-08 |
| URB1 | -1,096247207 | 4,26E-07 |
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| AHCTF1 | -1,098039817 | 3,15E-05 |
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| NETO2 | -1,101382072 | 1,09E-08 |

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| ACAT1 | -1,101654076 | 0,000954 |
| CYB5D1 | -1,102173077 | 8,76E-06 |
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| MYO19 | -1,116765917 | 1,31E-05 |
| ABHD17B | -1,117013236 | 3,51E-05 |
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| MKNK2 | -1,117425358 | 3,01E-06 |
| MSL3 | -1,117740161 | 4,32E-06 |
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| KATNBL1 | -1,12032325 | 5,99E-05 |
| BICD2 | -1,120564505 | 3,27E-08 |
| RETSAT | -1,121216366 | 9,65E-06 |
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| AIDA | -1,121850873 | 0,000148 |
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| CCDC25 | -1,127925075 | 7,75E-07 |
| COPS7B | -1,12819863 | 4,82E-06 |
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| FTSJ1 | -1,129468107 | 5,39E-08 |
| PLEKHA5 | -1,12959734 | 1,97E-05 |
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| NBAS | -1,14075191 | 2,28E-06 |
| CDC27 | -1,141040651 | 1,08E-09 |
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| ERICH1 | -1,142417993 | 1,25E-05 |
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| POFUT1 | -1,14440891 | 1,19E-06 |

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| FAM8A1 | -1,144442831 | 5,26E-05 |
| RAB11FIP1 | -1,146036358 | 6,01E-08 |
| ZNF343 | -1,14605633 | 2,49E-05 |
| PYGB | -1,147363638 | 8,56E-11 |
| TMEM51 | -1,148324218 | 2,89E-05 |
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| ADSS | -1,149737979 | 8,20E-07 |
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| TMEM123 | -1,151152353 | 7,11E-11 |
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| FOPNL | -1,153444225 | 6,13E-07 |
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| LENG8 | -1,159152681 | 4,11E-07 |
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| OTUD5 | -1,160402855 | 1,76E-06 |
| COPS8 | -1,161161191 | 7,21E-07 |
| EBLN3 | -1,161211806 | 1,27E-07 |
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| FAM160B2 | -1,164002386 | 1,30E-06 |
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| NONO | -1,16536242 | 4,02E-07 |
| SPAST | -1,166436281 | 1,61E-07 |
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| MAP4K3 | -1,167414742 | 1,07E-06 |
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| ARRB2 | -1,173133414 | 9,43E-10 |
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| MINPP1 | -1,180254251 | 7,31E-06 |
| RAB36 | -1,181824237 | 0,000689 |
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| TNS2 | -1,183391421 | 3,27E-07 |

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| PPAP2C | -1,183514212 | 8,46E-07 |
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| MRPL45 | -1,186296325 | 1,22E-06 |
| LRPPRC | -1,18759387 | 7,30E-12 |
| UBA2 | -1,189463335 | 4,03E-08 |
| CAPNS1 | -1,192363415 | 0,000386 |
| DIS3L | -1,19334 | 1,48E-05 |
| ZCCHC7 | -1,193497361 | 8,59E-05 |
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| ZBED1 | -1,194679045 | 3,77E-06 |
| CPNE1 | -1,195506241 | 3,31E-09 |
| SEC14L1 | -1,19703044 | 5,18E-07 |
| NUDT19 | -1,197392704 | 1,58E-06 |
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| PTPN3 | -1,201449226 | 4,43E-06 |
| TANGO6 | -1,201517903 | 5,22E-05 |
| SGPP1 | -1,202817071 | 7,66E-06 |
| RPTOR | -1,203013218 | 2,00E-10 |
| GNL3L | -1,203117871 | 1,32E-08 |
| DHX37 | -1,20315065 | 5,62E-11 |
| BAG2 | -1,205156879 | 1,77E-06 |
| NSRP1 | -1,205401647 | 2,44E-07 |
| TLN1 | -1,206620801 | 6,99E-09 |
| CKAP4 | -1,208286224 | 2,36E-11 |
| SHPRH | -1,209580904 | 0,000671 |
| PRDX3 | -1,211954878 | 2,73E-07 |
| MBTPS2 | -1,213316986 | 8,70E-07 |
| LRRC14 | -1,213462003 | 1,44E-06 |
| PAPD5 | -1,21374678 | 2,78E-07 |
| LTA4H | -1,213803615 | 2,76E-07 |
| NUP133 | -1,214019326 | 2,40E-08 |
| THTPA | -1,214141856 | 0,000479 |
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| TEX261 | -1,214530715 | 3,03E-10 |
| ATE1 | -1,21490063 | 6,09E-07 |
| CAST | -1,21540062 | 1,21E-08 |
| KDM5C | -1,215586439 | 9,33E-11 |
| PTPRA | -1,216522558 | 5,05E-06 |
| RIC1 | -1,21657255 | 8,01E-05 |
| MCU | -1,2166589 | 2,31E-06 |
| SSH1 | -1,217253141 | 3,19E-07 |
| BDP1 | -1,218602223 | 1,70E-06 |
| SLC5A3 | -1,218722255 | 2,39E-06 |
| SAMD8 | -1,218894717 | 1,74E-05 |
| MAP4K2 | -1,219160451 | 0,000244 |
| VKORC1L1 | -1,221612361 | 4,31E-10 |
| TYMS | -1,223145393 | 4,67E-09 |
| PECR | -1,223437984 | 0,000231 |

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| MEGF8 | -1,223457007 | 2,07E-08 |
| PI4K2A | -1,223667443 | 3,32E-05 |
| LGALS8 | -1,223747657 | 2,07E-05 |
| NBPF1 | -1,224464224 | 4,97E-06 |
| FSCN1 | -1,225004284 | 6,07E-09 |
| ERCC6L | -1,226293864 | 3,68E-07 |
| NFIA | -1,227272423 | 7,51E-06 |
| GEMIN6 | -1,227395288 | 1,81E-06 |
| GPX8 | -1,229341963 | 2,53E-06 |
| TOP2A | -1,232094367 | 8,81E-06 |
| MTRF1L | -1,232415763 | 8,50E-07 |
| STK17A | -1,23294858 | 5,80E-05 |
| PEAK1 | -1,234483627 | 3,62E-07 |
| C9orf3 | -1,234933863 | 1,52E-05 |
| FOXN2 | -1,235047278 | 0,000137 |
| C10orf32 | -1,236113483 | 0,00023 |
| EIF2AK4 | -1,237244588 | 4,18E-09 |
| EPS8L2 | -1,237386504 | 0,000223 |
| ITSN2 | -1,239765427 | 4,98E-06 |
| AEBP2 | -1,239783868 | 7,14E-06 |
| TSHZ1 | -1,241781809 | 0,000182 |
| SLC20A1 | -1,244640193 | 9,92E-06 |
| TERF2 | -1,24526716 | 6,86E-07 |
| BBIP1 | -1,249163428 | 2,37E-06 |
| GALNT7 | -1,253062404 | 0,000386 |
| QSOX2 | -1,254710239 | 4,43E-05 |
| ENTPD4 | -1,254726919 | 2,31E-07 |
| CDK12 | -1,254889041 | 2,28E-11 |
| MTRR | -1,255051892 | 0,000447 |
| HAUS6 | -1,257324737 | 3,49E-08 |
| PTPRG | -1,257780221 | 5,05E-06 |
| IBTK | -1,25827348 | 4,05E-10 |
| DYNC2H1 | -1,258714221 | 1,28E-05 |
| LDAH | -1,259425834 | 2,00E-06 |
| ZNF580 | -1,26170559 | 1,52E-06 |
| MGST3 | -1,262802777 | 0,000276 |
| MC1R | -1,264580406 | 0,000135 |
| THADA | -1,267595125 | 1,07E-09 |
| FZD5 | -1,26924959 | 6,63E-07 |
| MED29 | -1,269503733 | 2,85E-11 |
| GNPAT | -1,270048001 | 8,84E-10 |
| RABAC1 | -1,27023887 | 1,49E-05 |
| FTO | -1,271596154 | 4,61E-08 |
| UBE2G1 | -1,273481237 | 6,45E-08 |
| KIF18A | -1,273923323 | 8,48E-06 |
| PKM | -1,27411376 | 2,21E-09 |
| LRRC37BP1 | -1,274569401 | 9,85E-05 |
| ACOT9 | -1,278913007 | 1,69E-06 |
| CARD8 | -1,278982945 | 1,96E-05 |
| ICE2 | -1,282501765 | 2,17E-09 |

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| POMZP3 | -1,28272373 | 5,10E-05 |
| CES2 | -1,283725415 | 5,66E-07 |
| METTL17 | -1,285659637 | 0,00038 |
| PHLDB3 | -1,285950741 | 0,000989 |
| TWF2 | -1,286384427 | 1,31E-09 |
| SMYD3 | -1,287420813 | 0,000461 |
| SHKBP1 | -1,287528589 | 5,21E-06 |
| PXDC1 | -1,289558867 | 0,000544 |
| JMJD6 | -1,290434067 | 0,000147 |
| LIN7C | -1,291578527 | 2,78E-05 |
| IFNAR2 | -1,293968112 | 4,91E-05 |
| PPFIBP1 | -1,294484735 | 5,21E-08 |
| PIGW | -1,295020401 | 2,52E-05 |
| B4GALT4 | -1,295310226 | 2,29E-07 |
| SHCBP1 | -1,295765493 | 1,60E-08 |
| MZF1 | -1,300083313 | 6,83E-05 |
| SHC1 | -1,300432321 | 1,72E-13 |
| IFNGR2 | -1,301684994 | 0,000129 |
| POLR3D | -1,301906159 | 1,64E-05 |
| UTP6 | -1,302222977 | 1,65E-10 |
| SLC41A2 | -1,30404372 | 0,000162 |
| ANXA11 | -1,304197122 | 3,11E-09 |
| ABHD2 | -1,305272289 | 2,03E-06 |
| ATRN | -1,308671936 | 3,05E-08 |
| APEX2 | -1,310622917 | 1,15E-06 |
| ADCK3 | -1,310982839 | 8,31E-05 |
| INHBB | -1,311392358 | 0,000419 |
| ESCO2 | -1,312463963 | 1,08E-06 |
| DUSP3 | -1,313178251 | 4,13E-09 |
| BTBD3 | -1,316207615 | 2,52E-07 |
| COQ10A | -1,316495818 | 0,00016 |
| ARHGAP12 | -1,317191542 | 1,30E-05 |
| PDHX | -1,319735649 | 9,12E-08 |
| TAF1 | -1,321558029 | 1,01E-06 |
| TNFRSF10A | -1,32159718 | 0,000186 |
| RNF111 | -1,32404279 | 2,00E-10 |
| RPGRIP1L | -1,324297851 | 7,65E-06 |
| MT1X | -1,324648172 | 5,98E-05 |
| STARD3NL | -1,325819009 | 0,000145 |
| CNEP1R1 | -1,326371193 | 0,000186 |
| BBX | -1,326874157 | 1,53E-07 |
| IGF2BP2 | -1,327009075 | 1,92E-05 |
| UTRN | -1,32806868 | 6,97E-05 |
| TPP1 | -1,331259065 | 2,54E-06 |
| FKBP1A | -1,332275149 | 4,79E-09 |
| RBFOX2 | -1,334585622 | 7,28E-12 |
| IKBKB | -1,335375736 | 3,28E-06 |
| NF1 | -1,335741889 | 5,74E-07 |
| PGK1 | -1,336531487 | 1,55E-11 |
| ASB1 | -1,33732112 | 5,18E-09 |

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| LACTB2 | -1,339566221 | 1,51E-05 |
| TBCE | -1,339665437 | 1,14E-07 |
| AKAP10 | -1,340209741 | 3,16E-05 |
| SPAG9 | -1,341824098 | 7,91E-08 |
| TMEM245 | -1,34221185 | 3,74E-09 |
| MAPKBP1 | -1,342606243 | 0,000772 |
| CEP89 | -1,345968229 | 1,86E-06 |
| CYSTM1 | -1,347039792 | 1,06E-09 |
| PKI55 | -1,34961384 | 0,000169 |
| ACADVL | -1,352201655 | 1,52E-06 |
| AGFG2 | -1,352684056 | 9,42E-06 |
| MOSPD2 | -1,353189008 | 5,88E-05 |
| LAMA5 | -1,356441787 | 6,37E-15 |
| RHOT1 | -1,357054796 | 5,80E-10 |
| ERI1 | -1,359339727 | 1,30E-09 |
| APP | -1,359366211 | 4,16E-15 |
| IGBP1 | -1,359602392 | 3,70E-06 |
| RPL23AP53 | -1,360649177 | 0,000739 |
| GLA | -1,360831677 | 0,000549 |
| TOM1L2 | -1,360921601 | 5,47E-06 |
| RPS6KA3 | -1,361261819 | 1,39E-11 |
| PDLIM1 | -1,363025391 | 5,67E-12 |
| PSD3 | -1,363771036 | 1,36E-08 |
| RICTOR | -1,36428351 | 1,78E-06 |
| RAB2B | -1,364328239 | 1,03E-06 |
| RASSF3 | -1,364872111 | 1,14E-06 |
| MGST1 | -1,36633906 | 6,00E-08 |
| BCL2L2 | -1,370758213 | 2,29E-06 |
| USP28 | -1,371660943 | 7,69E-08 |
| EML4 | -1,371789409 | 5,49E-15 |
| BLMH | -1,372644713 | 7,15E-11 |
| LRRC49 | -1,372982986 | 1,92E-06 |
| HDHD1 | -1,374248065 | 3,12E-05 |
| SLC41A1 | -1,375894505 | 8,66E-09 |
| SPATS2L | -1,376145764 | 4,65E-09 |
| PDE8A | -1,377519818 | 9,97E-08 |
| ENTHD2 | -1,379353129 | 0,000529 |
| CLU | -1,383154096 | 0,000315 |
| NIPA2 | -1,383264638 | 3,71E-08 |
| TMEM2 | -1,383445011 | 2,27E-08 |
| ATP7B | -1,388962466 | 0,000225 |
| MID1IP1 | -1,389753438 | 0,000131 |
| MLLT3 | -1,390747819 | 1,12E-06 |
| PTAR1 | -1,391030824 | 3,29E-08 |
| SH3BP4 | -1,393586145 | 4,24E-08 |
| FCHO2 | -1,394074007 | 0,000102 |
| DENND4C | -1,39408203 | 1,17E-09 |
| ARV1 | -1,394842008 | 3,11E-06 |
| PCNXL2 | -1,394848821 | 3,59E-07 |
| PHC1 | -1,395964869 | 1,15E-07 |

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| CHMP2A | -1,397628083 | 0,000274 |
| PNKD | -1,401064775 | 7,57E-07 |
| CHST14 | -1,402840259 | 6,80E-06 |
| ETV6 | -1,405125414 | 4,99E-08 |
| ATP5SL | -1,405411772 | 3,20E-09 |
| RHBDF2 | -1,406309125 | 1,23E-10 |
| HPS5 | -1,406713364 | 1,49E-08 |
| AP2A2 | -1,407393177 | 1,54E-11 |
| CNST | -1,408195042 | 0,000118 |
| STK4 | -1,408418299 | 1,44E-12 |
| ETAA1 | -1,408550795 | 2,90E-06 |
| PBK | -1,410033579 | 6,01E-06 |
| NOP10 | -1,414210642 | 1,23E-13 |
| GPKOW | -1,415063042 | 1,73E-06 |
| KYNU | -1,415853348 | 0,000316 |
| SOC5 | -1,416202295 | 3,54E-07 |
| EFR3A | -1,419042202 | 2,07E-05 |
| TMEM164 | -1,419130624 | 3,96E-12 |
| WWC2 | -1,419302461 | 8,75E-07 |
| ARMC9 | -1,419400941 | 4,00E-08 |
| B9D2 | -1,420991266 | 8,39E-05 |
| EXOC6B | -1,42107586 | 1,34E-06 |
| PLEK2 | -1,422621055 | 2,53E-05 |
| PRICKLE3 | -1,422706101 | 2,27E-06 |
| TBC1D25 | -1,422829785 | 0,000702 |
| FUZ | -1,423860434 | 9,21E-05 |
| ERCC1 | -1,424267765 | 1,97E-11 |
| FLVCR1 | -1,42446126 | 9,12E-05 |
| LCLAT1 | -1,427675049 | 4,83E-11 |
| PRMT3 | -1,428505386 | 1,23E-07 |
| CDC42BPA | -1,429958218 | 1,30E-06 |
| PLEKHG2 | -1,430839343 | 1,79E-10 |
| MAP7D1 | -1,431741322 | 2,54E-08 |
| IPO7 | -1,432350967 | 7,84E-10 |
| ZNF584 | -1,432536418 | 1,72E-08 |
| CD59 | -1,433286177 | 0,000137 |
| ZNF780A | -1,433813142 | 3,08E-08 |
| SEPN1 | -1,435871852 | 2,59E-14 |
| RHOBTB2 | -1,435934227 | 8,36E-06 |
| FLNA | -1,438116956 | 5,78E-11 |
| RAI14 | -1,438270988 | 2,06E-07 |
| RTN4 | -1,444137601 | 1,96E-12 |
| CD99 | -1,444339857 | 1,91E-11 |
| COPRS | -1,445123027 | 3,43E-12 |
| NRBP2 | -1,44757961 | 4,28E-05 |
| MFHAS1 | -1,448304833 | 4,35E-14 |
| HEXIM2 | -1,449144704 | 0,000332 |
| GOSR1 | -1,450032028 | 9,30E-11 |
| SNHG3 | -1,450889391 | 3,40E-05 |
| ATP6AP2 | -1,451943018 | 9,18E-09 |

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| EDEM1 | -1,452452666 | 6,11E-09 |
| HEXIM1 | -1,4524929 | 1,59E-08 |
| ADCY3 | -1,45398297 | 5,59E-14 |
| TNPO1 | -1,456091705 | 4,17E-11 |
| PPP2R3B | -1,456655091 | 0,000622 |
| C5 | -1,458348764 | 0,000617 |
| TFE3 | -1,458690864 | 6,58E-13 |
| SNX12 | -1,458826918 | 2,00E-05 |
| SLC46A1 | -1,459034005 | 5,18E-11 |
| ABTB2 | -1,459146227 | 1,80E-08 |
| TMEM206 | -1,460753088 | 0,00041 |
| C11orf54 | -1,462004081 | 0,000345 |
| TMEM120f | -1,463904663 | 3,09E-08 |
| PMAIP1 | -1,464331587 | 0,000403 |
| TBC1D20 | -1,465984226 | 3,33E-10 |
| DIEXF | -1,466763763 | 3,60E-06 |
| SMC1A | -1,467289387 | 1,75E-11 |
| FHOD1 | -1,468116902 | 1,04E-12 |
| LPGAT1 | -1,468408165 | 5,38E-10 |
| POLR2L | -1,470921574 | 6,74E-12 |
| FZD7 | -1,471108511 | 1,12E-07 |
| MEF2D | -1,476066461 | 1,09E-05 |
| SLC12A7 | -1,477401578 | 9,60E-10 |
| ST6GALNAc | -1,479643563 | 3,02E-07 |
| SERGEF | -1,47998492 | 8,45E-05 |
| ADCY7 | -1,481220197 | 7,08E-08 |
| YIPF6 | -1,4819893 | 1,33E-10 |
| STX1A | -1,48423699 | 8,53E-07 |
| SEPT2 | -1,485649412 | 4,61E-15 |
| ASRGL1 | -1,487151402 | 0,000105 |
| PCCA | -1,48726186 | 7,76E-06 |
| GRHPR | -1,491468899 | 3,14E-07 |
| ACBD5 | -1,49235345 | 9,03E-09 |
| METTL3 | -1,492861916 | 2,82E-11 |
| EFHD2 | -1,495333651 | 6,57E-07 |
| PLP2 | -1,495352038 | 3,62E-12 |
| CIC | -1,497259435 | 4,21E-14 |
| LAS1L | -1,498164389 | 2,03E-10 |
| ADCK4 | -1,498176347 | 2,10E-07 |
| CACNA2D1 | -1,501377698 | 2,94E-07 |
| SPRED2 | -1,50220177 | 2,73E-13 |
| NEDD4L | -1,50240335 | 4,31E-07 |
| TXLNA | -1,502796586 | 4,49E-10 |
| GCLC | -1,504077243 | 1,65E-10 |
| POLR3G | -1,504688077 | 1,54E-06 |
| FUT10 | -1,505178198 | 0,000932 |
| ARL2BP | -1,506374673 | 3,41E-11 |
| TTC21B | -1,506819177 | 2,08E-05 |
| ZFAND5 | -1,509055584 | 1,15E-13 |
| SLC30A7 | -1,509718261 | 2,47E-07 |

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| NAV2 | -1,509983598 | 1,92E-05 |
| BACH1 | -1,511943407 | 2,98E-07 |
| ROCK2 | -1,512206259 | 2,48E-10 |
| TMEM147- | -1,512490891 | 2,96E-05 |
| PARVB | -1,514404754 | 2,63E-08 |
| CTSC | -1,515395175 | 9,93E-09 |
| MED14 | -1,515453974 | 1,28E-14 |
| SMARCD3 | -1,516085048 | 5,44E-06 |
| CELSR1 | -1,518769824 | 2,81E-14 |
| TMEM41B | -1,521335362 | 4,53E-09 |
| UBQLN2 | -1,522317315 | 5,63E-14 |
| ASAP1 | -1,522335216 | 2,14E-14 |
| SYMPK | -1,523340141 | 4,41E-17 |
| ITPRIPL2 | -1,524722633 | 4,35E-10 |
| ZIC2 | -1,526375326 | 0,000206 |
| KSR2 | -1,527623608 | 0,000174 |
| DOCK9 | -1,52815618 | 2,80E-08 |
| TRAF5 | -1,529014529 | 4,52E-05 |
| GALM | -1,529615068 | 0,000289 |
| IRF1 | -1,52981743 | 2,90E-05 |
| C1GALT1 | -1,530858504 | 2,52E-11 |
| WWC3 | -1,531177301 | 1,05E-10 |
| IRS2 | -1,532074924 | 0,000209 |
| CDR2L | -1,532827189 | 1,75E-05 |
| VOPP1 | -1,533338207 | 2,73E-09 |
| STXBP4 | -1,533777845 | 4,30E-07 |
| NT5DC3 | -1,536910063 | 2,31E-06 |
| ITM2C | -1,538325432 | 1,09E-08 |
| SKIL | -1,540399839 | 7,46E-09 |
| TTC33 | -1,541005434 | 2,97E-05 |
| TEAD1 | -1,541119484 | 1,07E-11 |
| CCDC113 | -1,542101602 | 5,12E-06 |
| RPS6KA5 | -1,542464242 | 0,000146 |
| CBR1 | -1,542797136 | 4,24E-08 |
| CWC25 | -1,542820877 | 1,73E-10 |
| ID2 | -1,543762128 | 4,00E-05 |
| CDCA7 | -1,543882463 | 0,000524 |
| EXT1 | -1,5444812 | 1,15E-07 |
| EPN2 | -1,547041731 | 6,54E-13 |
| PNP | -1,547373819 | 1,17E-14 |
| C20orf96 | -1,547640775 | 0,000882 |
| APH1B | -1,547686368 | 0,000296 |
| FERMT2 | -1,551902174 | 3,12E-10 |
| MARVELD1 | -1,552321975 | 8,35E-09 |
| PRAF2 | -1,553156442 | 8,44E-05 |
| SSH2 | -1,55343478 | 8,51E-08 |
| AKAP17A | -1,554785895 | 1,77E-06 |
| SH2B3 | -1,55527668 | 3,93E-05 |
| ME2 | -1,556615066 | 1,76E-12 |
| GPATCH11 | -1,556669233 | 3,55E-07 |

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| GNG12 | -1,558020562 | 1,21E-10 |
| PEPD | -1,558225077 | 1,06E-11 |
| ALDH1B1 | -1,5588461 | 2,55E-17 |
| MYO1B | -1,560865485 | 1,69E-17 |
| SLC17A5 | -1,562476636 | 0,000284 |
| NCEH1 | -1,564037848 | 8,19E-07 |
| PIP4K2B | -1,566166558 | 2,09E-15 |
| IRS1 | -1,5705276 | 2,59E-16 |
| HCCS | -1,577537256 | 2,12E-09 |
| MALT1 | -1,578005733 | 6,05E-12 |
| USP11 | -1,579282799 | 1,71E-14 |
| TARBP1 | -1,58022166 | 1,35E-07 |
| TPM1 | -1,581677568 | 1,73E-07 |
| CYB5B | -1,58219333 | 3,68E-09 |
| LINC01128 | -1,584546497 | 0,000227 |
| PCNA | -1,584614436 | 1,18E-19 |
| SH3RF1 | -1,586175273 | 7,95E-05 |
| CAPRIN2 | -1,586265028 | 2,18E-06 |
| LGALS3 | -1,58855 | 0,00022 |
| CCND3 | -1,588672157 | 0,000481 |
| USP9X | -1,589546534 | 9,91E-12 |
| SAT2 | -1,590985682 | 7,23E-07 |
| SWAP70 | -1,591814587 | 2,68E-10 |
| EHD3 | -1,592995346 | 1,79E-05 |
| LITAF | -1,593395501 | 1,85E-07 |
| LOC728743 | -1,594022837 | 0,000168 |
| MAP3K10 | -1,594577698 | 4,43E-08 |
| GBAS | -1,596921867 | 0,000138 |
| RASA3 | -1,597316607 | 3,03E-06 |
| RNF135 | -1,597820857 | 1,13E-06 |
| AQR | -1,598244519 | 1,99E-17 |
| ECHDC1 | -1,599683916 | 5,15E-08 |
| EGLN1 | -1,600865662 | 4,59E-14 |
| ANTXR1 | -1,603100505 | 3,57E-19 |
| PFAS | -1,604801887 | 1,43E-19 |
| CD46 | -1,606864074 | 1,93E-13 |
| AVPI1 | -1,609537621 | 1,77E-07 |
| FRG1HP | -1,611491831 | 0,000287 |
| FNTA | -1,613414319 | 2,99E-13 |
| PANK2 | -1,614556889 | 8,10E-12 |
| MCM8 | -1,615035986 | 1,11E-13 |
| YAP1 | -1,616587319 | 5,73E-13 |
| IDS | -1,618150142 | 2,09E-06 |
| HLA-A | -1,624676828 | 1,35E-09 |
| UGGT2 | -1,624753397 | 3,86E-07 |
| LRP8 | -1,628736708 | 9,28E-11 |
| MAPKAPK5 | -1,62928973 | 2,49E-10 |
| CASP9 | -1,630889229 | 0,00049 |
| KLF3 | -1,632123452 | 1,00E-08 |
| TMEM104 | -1,635111789 | 6,12E-08 |

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| ASXL2 | -1,640178463 | 1,83E-13 |
| CASK | -1,641962506 | 3,85E-15 |
| SAMHD1 | -1,642255 | 0,000673 |
| PLEKHA2 | -1,642590545 | 6,43E-05 |
| HEATR1 | -1,644300948 | 1,46E-13 |
| RCAN3 | -1,644641717 | 0,00049 |
| DOK4 | -1,645424244 | 6,00E-11 |
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| RAB34 | -1,659634245 | 4,87E-10 |
| ATP5G1 | -1,663349179 | 3,88E-13 |
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| WDR54 | -1,666490198 | 5,45E-09 |
| GANC | -1,669741473 | 1,73E-05 |
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| NUAK1 | -1,679268799 | 3,20E-12 |
| STK17B | -1,679407399 | 3,63E-08 |
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| ARSK | -1,688226066 | 9,81E-05 |
| PM20D2 | -1,692972787 | 5,32E-07 |
| HERC2 | -1,69407679 | 9,90E-21 |
| DENND5A | -1,694155189 | 1,06E-07 |
| TEP1 | -1,694310035 | 1,68E-06 |
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| SYT1 | -1,701216858 | 5,30E-07 |
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| PFKP | -1,70553494 | 6,78E-11 |
| KIAA0930 | -1,705807424 | 2,33E-09 |
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| PHF19 | -1,715531329 | 1,93E-16 |
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| PLS3 | -1,717516746 | 2,24E-15 |

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| KCTD7 | -1,775221947 | 1,71E-05 |
| TUBGCP5 | -1,777019493 | 3,49E-13 |
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| SPTBN1 | -1,785485318 | 1,38E-26 |
| CDC42EP4 | -1,787684427 | 2,02E-10 |
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| RELB | -1,789553789 | 4,14E-05 |
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| SDCCAG8 | -1,798735939 | 5,81E-08 |
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| PATL1 | -1,805216039 | 2,72E-16 |

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| MAP2K6 | -1,829320715 | 2,03E-10 |
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| TCIRG1 | -1,868922834 | 8,86E-10 |
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| FNDC3B | -1,871862031 | 9,50E-22 |
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| CEP170 | -1,926713899 | 5,20E-22 |
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| ABCB7 | -1,937458986 | 4,44E-10 |
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| IER5L | -1,940669875 | 1,26E-07 |
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| GAREML | -1,956868657 | 5,04E-07 |
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| DMTN | -1,967570399 | 1,22E-17 |
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| SLC9A7 | -1,984962432 | 1,57E-06 |
| PTPN14 | -1,985968006 | 3,32E-12 |
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| FN3K | -2,013039019 | 0,000969 |
| SIPA1L3 | -2,014930527 | 1,01E-27 |
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| DPYSL2 | -2,025916877 | 1,11E-10 |
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| GNPDA2 | -2,043463723 | 1,72E-06 |
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| CHORDC1 | -2,050058514 | 6,49E-20 |
| STEAP3 | -2,053866365 | 6,98E-13 |
| ELF3 | -2,058943832 | 0,000131 |
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| TYMP | -2,066829869 | 8,88E-05 |
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| PRKAA2 | -2,116527031 | 2,78E-15 |
| SIM2 | -2,116797235 | 4,30E-09 |
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| PTCH1 | -2,121757568 | 2,09E-09 |
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| DNAJC24 | -2,130620812 | 7,70E-12 |
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| CDS2 | -2,135851584 | 1,93E-21 |
| PRTFDC1 | -2,138102366 | 3,01E-08 |
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| DLGAP1-AS | -2,144254388 | 0,000198 |
| CAPG | -2,144705251 | 6,96E-18 |
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| FAM107B | -2,148838783 | 1,37E-07 |
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| MAP3K12 | -2,157191961 | 2,99E-07 |
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| NEDD4 | -2,164596902 | 1,16E-25 |
| CARD10 | -2,166040474 | 1,42E-11 |
| AHI1 | -2,170112786 | 4,55E-14 |
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| YPEL2 | -2,176087197 | 0,000839 |
| CPNE2 | -2,17828855 | 1,36E-08 |
| PMEPA1 | -2,183043691 | 6,05E-15 |
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| ZAK | -2,206127585 | 5,86E-30 |
| DGCR5 | -2,20882555 | 1,87E-05 |
| APLP1 | -2,208976219 | 1,91E-06 |
| BHLHE40 | -2,211849444 | 4,88E-20 |

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| ANXA4 | -2,213708536 | 6,30E-15 |
| ABHD14A | -2,214354882 | 0,000689 |
| GALNT18 | -2,218088068 | 4,53E-16 |
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| CDKL1 | -2,218874716 | 5,61E-06 |
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| CYFIP2 | -2,220432832 | 1,95E-08 |
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| RNF170 | -2,22227403 | 3,34E-12 |
| RNF213 | -2,22318742 | 2,59E-11 |
| LAMC3 | -2,223539944 | 2,79E-06 |
| SDCBP | -2,224391013 | 8,23E-13 |
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| SLC16A3 | -2,237337887 | 3,82E-06 |
| GSR | -2,239186552 | 1,76E-23 |
| CTSF | -2,2399567 | 4,21E-10 |
| TTC28 | -2,240028436 | 4,47E-15 |
| L3MBTL3 | -2,241919633 | 2,34E-09 |
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| TMC5 | -2,243690911 | 1,08E-15 |
| PAK1 | -2,24707866 | 2,77E-11 |
| KCNQ5 | -2,250433543 | 0,000169 |
| LZTS3 | -2,250668698 | 0,000185 |
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| FKBP14 | -2,255146701 | 2,67E-17 |
| TMX3 | -2,257811834 | 2,80E-19 |
| ITGB4 | -2,263565967 | 3,63E-16 |
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| HIPK2 | -2,274135816 | 3,52E-11 |
| ZNF512 | -2,276912575 | 5,97E-22 |
| ACCS | -2,27941561 | 0,000525 |
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| PRKCE | -2,290353975 | 3,00E-05 |
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| WDR35 | -2,302458147 | 1,51E-15 |
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| CNTLN | -2,316537509 | 7,37E-11 |
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| ETHE1 | -2,319089812 | 6,23E-12 |
| MAFG | -2,32188122 | 1,91E-31 |
| LPCAT4 | -2,326678032 | 1,20E-10 |
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| GNB4 | -2,328558669 | 7,60E-19 |

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| PBX1 | -2,328995574 | 6,47E-08 |
| RAB31 | -2,329077699 | 3,57E-08 |
| ABHD4 | -2,329245018 | 4,40E-06 |
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| TNNI3 | -2,348024979 | 8,65E-05 |
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| TNFRSF1A | -2,352768424 | 2,06E-20 |
| TBX3 | -2,354831689 | 4,25E-35 |
| SH2D4A | -2,357669942 | 2,80E-27 |
| C12orf75 | -2,369793329 | 4,21E-23 |
| SEMA3B | -2,370029045 | 4,09E-08 |
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| IL4R | -2,379371751 | 3,64E-08 |
| TGFB1 | -2,381476927 | 8,55E-26 |
| PHKA1 | -2,384547231 | 7,59E-24 |
| CAMKK1 | -2,386361714 | 1,44E-13 |
| DEGS1 | -2,392580498 | 1,44E-16 |
| CLIP2 | -2,397485647 | 9,54E-15 |
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| SSFA2 | -2,401293442 | 1,11E-34 |
| ABHD6 | -2,403420475 | 1,29E-08 |
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| FBXO2 | -2,413724331 | 1,07E-05 |
| NCOA7 | -2,414302323 | 4,52E-24 |
| FGFBP3 | -2,418348699 | 7,34E-09 |
| RNPEPL1 | -2,4242428 | 4,81E-20 |
| PORCN | -2,426111215 | 2,48E-09 |
| A4GALT | -2,42725596 | 9,25E-05 |
| FAM63B | -2,431994557 | 2,58E-07 |
| TRIP10 | -2,432676987 | 3,49E-13 |
| SLC25A12 | -2,433221121 | 6,50E-21 |
| SLC35G1 | -2,437424286 | 8,88E-08 |
| GALNT2 | -2,440758635 | 6,52E-34 |
| METTL7B | -2,442039065 | 2,14E-10 |
| CHM | -2,442187102 | 1,58E-08 |
| KBTBD11 | -2,442307584 | 1,99E-07 |
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| LYPD1 | -2,447913557 | 3,30E-12 |
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| DOCK1 | -2,450836356 | 1,58E-24 |
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| PKD2 | -2,461933241 | 2,85E-19 |
| NBEA | -2,463944774 | 5,59E-14 |
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| PRDM11 | -2,492296532 | 3,07E-07 |
| MFI2 | -2,494290325 | 1,10E-24 |
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| ITGAV | -2,502950377 | 2,44E-26 |
| CASC15 | -2,503498422 | 5,86E-05 |
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| TSPAN14 | -2,508375892 | 9,01E-32 |
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| HEYL | -2,512970087 | 1,52E-09 |
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| NCR3LG1 | -2,546639805 | 9,73E-07 |
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| MAP1A | -2,602027834 | 3,04E-05 |

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| TCP11L1 | -2,623835622 | 9,14E-21 |
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| MXRA7 | -2,748743962 | 7,12E-16 |
| SFXN3 | -2,749555339 | 8,18E-20 |
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| KLHL5 | -2,764722222 | 5,01E-40 |
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| ACO1 | -2,775316418 | 3,14E-16 |
| MTUS1 | -2,776045692 | 4,59E-32 |
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| LIF | -2,789389814 | 1,79E-06 |
| SPRY2 | -2,79247235 | 4,07E-11 |
| SUSD1 | -2,795344804 | 4,29E-18 |
| SRC | -2,795457169 | 3,67E-41 |
| EHBP1 | -2,797995239 | 1,42E-38 |
| GALNT10 | -2,80386621 | 2,10E-37 |
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| FXD5 | -2,852235302 | 5,89E-29 |
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| FERMT1 | -2,895333932 | 8,51E-40 |
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| RPGR | -2,89944104 | 4,12E-06 |
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| CLCF1 | -2,923273467 | 5,50E-05 |
| DPY19L2P2 | -2,926718855 | 0,0001 |
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| SASH1 | -2,939835656 | 6,20E-11 |
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| ABCC1 | -2,960483529 | 4,79E-50 |
| SPOCK1 | -2,961568875 | 1,47E-08 |
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| TIMP1 | -3,00086058 | 1,82E-08 |
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| ADGRG6 | -3,083031395 | 1,01E-42 |
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| DNAJC22 | -3,104857002 | 5,73E-29 |
| TIMP2 | -3,105660572 | 1,38E-27 |
| EPHX1 | -3,108874475 | 1,75E-20 |
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| PSMB9 | -3,118218365 | 3,52E-06 |
| SYNPO | -3,127136428 | 2,57E-10 |
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| CEMIP | -3,168171274 | 8,37E-14 |
| FRMD5 | -3,170876697 | 7,34E-19 |
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| LRP4 | -3,228397998 | 1,18E-17 |
| MFGE8 | -3,234698026 | 1,16E-41 |
| JAZF1 | -3,235465562 | 0,00037 |
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| RAB3B | -3,238104179 | 2,99E-12 |
| MST1R | -3,243684649 | 4,62E-09 |
| RHPN2 | -3,258470219 | 2,15E-58 |
| CHST3 | -3,262431462 | 1,41E-07 |
| DOCK5 | -3,262455098 | 1,39E-36 |
| LGR4 | -3,270254572 | 1,60E-27 |
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| FBLN5 | -3,350313299 | 6,87E-06 |
| C6orf141 | -3,353825171 | 2,21E-11 |
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| C16orf45 | -3,38522245 | 2,25E-24 |
| PDLIM5 | -3,390797565 | 1,96E-36 |
| SQRDL | -3,391941641 | 2,49E-16 |
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| WWTR1 | -3,398927209 | 6,91E-60 |
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| ADAMTS9 | -3,413570203 | 1,76E-08 |
| SH3BGR1 | -3,418160978 | 5,10E-36 |
| SLFN11 | -3,418476219 | 4,01E-22 |
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| PIK3AP1 | -3,427591229 | 3,21E-05 |
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| DCLK2 | -3,443721406 | 1,26E-13 |
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| FAM171A1 | -3,488466347 | 1,89E-39 |
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| LRRC8C | -3,50694548 | 1,09E-19 |
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| UGDH | -3,543224252 | 1,10E-48 |
| DLGAP1-AS | -3,5438839 | 4,91E-06 |
| EPDR1 | -3,545062073 | 4,68E-32 |
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| PCED1B | -3,551324742 | 9,85E-14 |
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| FAM13A | -3,589370201 | 1,92E-14 |
| AMDHD1 | -3,591031744 | 3,62E-12 |
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| BMP4 | -3,633621934 | 5,28E-28 |
| TUB | -3,646368295 | 1,91E-39 |
| VIM-AS1 | -3,652738335 | 1,30E-18 |
| RRAS | -3,653091492 | 2,43E-23 |
| NPAS2 | -3,657212049 | 3,38E-35 |
| PAQR5 | -3,662314478 | 1,15E-53 |
| MYLK | -3,66649102 | 4,09E-34 |
| SP100 | -3,669218466 | 1,26E-05 |
| SLC16A4 | -3,672604922 | 7,13E-26 |
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| TRPC1 | -3,678943087 | 1,04E-15 |
| LAMC2 | -3,68230282 | 2,14E-12 |
| CA12 | -3,68415122 | 1,14E-12 |
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| ANKRD29 | -3,705164027 | 2,21E-07 |
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| CPS1 | -3,710860752 | 4,01E-53 |
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| GPC1 | -3,723699383 | 5,13E-68 |
| COL5A1 | -3,727043237 | 6,62E-13 |
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| MGLL | -3,744497147 | 3,04E-18 |
| KCNMA1 | -3,747044346 | 2,12E-16 |
| OLFML2A | -3,749268925 | 2,39E-13 |
| HSPA12A | -3,751659801 | 2,21E-41 |
| CAMK2N1 | -3,75347989 | 5,97E-26 |
| RASSF2 | -3,756192772 | 6,70E-26 |
| CD68 | -3,758379673 | 5,93E-11 |
| PIK3CD-AS1 | -3,767851468 | 3,92E-07 |
| ANKDD1A | -3,794516031 | 0,000298 |
| TRABD2A | -3,797700408 | 0,000831 |
| NRCAM | -3,801667352 | 1,42E-29 |
| PAPSS2 | -3,802226664 | 3,03E-07 |
| MMD | -3,805744489 | 5,26E-24 |
| CST1 | -3,807616703 | 5,87E-41 |
| ARHGEF40 | -3,818415067 | 2,52E-11 |
| RAB11FIP5 | -3,823868728 | 1,15E-19 |
| BOC | -3,825839321 | 9,08E-30 |
| TRIM7 | -3,830257893 | 9,77E-21 |

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| SERPINF2 | -3,834947548 | 0,000841 |
| CHST7 | -3,838054056 | 6,15E-23 |
| PRAME | -3,846932695 | 2,86E-18 |
| FBN2 | -3,85033524 | 1,38E-21 |
| FHL1 | -3,862091744 | 5,92E-21 |
| C3orf80 | -3,868773518 | 2,13E-06 |
| THBD | -3,870063059 | 5,94E-39 |
| RASGRF2 | -3,875268123 | 4,37E-06 |
| TMSB4X | -3,881138002 | 7,34E-113 |
| CEACAM19 | -3,886266663 | 1,50E-11 |
| MORC4 | -3,889363335 | 1,65E-56 |
| ELMO1 | -3,899727089 | 4,39E-10 |
| HDAC4 | -3,902959639 | 4,83E-12 |
| PLCXD2 | -3,90401293 | 1,23E-10 |
| CCDC88A | -3,907782332 | 9,49E-82 |
| HTATSF1P2 | -3,912463254 | 1,15E-19 |
| HEG1 | -3,914581049 | 3,50E-05 |
| DGKD | -3,917738033 | 2,18E-75 |
| CDC42EP3 | -3,925187295 | 7,14E-50 |
| RARB | -3,926752143 | 8,54E-14 |
| STEAP1 | -3,932909477 | 1,38E-14 |
| PLAUR | -3,93406433 | 5,13E-13 |
| SNX7 | -3,943639731 | 8,44E-29 |
| CNTNAP1 | -3,948293014 | 8,06E-29 |
| LOC103908 | -3,950246246 | 1,08E-08 |
| MTCL1 | -3,958062794 | 1,54E-37 |
| SIRPA | -3,963746957 | 1,06E-61 |
| ITGA5 | -3,966979792 | 3,04E-35 |
| BTBD11 | -3,967748071 | 1,78E-46 |
| BDKRB2 | -3,970790664 | 5,94E-06 |
| DUSP6 | -3,971664901 | 7,12E-05 |
| KIF7 | -3,97757222 | 5,65E-06 |
| SLC30A4 | -3,979378683 | 3,33E-07 |
| CMTM7 | -3,98151949 | 1,02E-30 |
| SLC12A4 | -3,992752726 | 9,04E-12 |
| MAPRE2 | -4,001351375 | 3,94E-40 |
| SEPT10 | -4,006120047 | 8,34E-22 |
| ITGA3 | -4,006998377 | 1,73E-113 |
| EHD2 | -4,018918613 | 3,63E-84 |
| ADAM19 | -4,022231498 | 1,91E-30 |
| GLRX | -4,02416803 | 7,41E-07 |
| CEP112 | -4,039273419 | 2,12E-27 |
| CRIM1 | -4,043659153 | 3,91E-45 |
| C16orf62 | -4,049034373 | 4,31E-68 |
| DENND5B | -4,0635956 | 4,50E-50 |
| SGK1 | -4,07378676 | 2,14E-46 |
| CD44 | -4,083736839 | 8,90E-50 |
| C3orf18 | -4,091858401 | 2,78E-09 |
| TRPM6 | -4,092396644 | 1,24E-13 |
| RHCG | -4,095978812 | 6,17E-06 |

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| MN1 | -4,09650253 | 0,000147 |
| GNAL | -4,096878116 | 2,40E-27 |
| CNTNAP3 | -4,099149313 | 1,32E-29 |
| NPHS1 | -4,100210583 | 1,31E-05 |
| IGFBP3 | -4,10389365 | 1,58E-13 |
| ITGA6 | -4,109396992 | 3,43E-61 |
| CPM | -4,117761397 | 2,42E-14 |
| MITF | -4,118916245 | 3,17E-09 |
| ENO3 | -4,121988012 | 6,11E-10 |
| ELK3 | -4,123011365 | 1,95E-32 |
| COL12A1 | -4,126485057 | 5,75E-12 |
| NTN4 | -4,131241592 | 7,83E-33 |
| CCDC184 | -4,131979799 | 1,88E-05 |
| EEPD1 | -4,133720514 | 2,32E-14 |
| CDKL5 | -4,135849714 | 1,52E-16 |
| ANGPT1 | -4,138301293 | 7,33E-09 |
| LCAT | -4,138379148 | 0,000933 |
| ENPP1 | -4,139596745 | 8,85E-16 |
| FCGRT | -4,145869481 | 9,20E-18 |
| CYP4F11 | -4,147368977 | 2,64E-27 |
| EMILIN2 | -4,147573431 | 4,83E-13 |
| EVA1A | -4,149908226 | 1,86E-10 |
| DLG4 | -4,177388429 | 9,49E-22 |
| NCALD | -4,178342658 | 4,34E-09 |
| ANO1 | -4,181963891 | 0,000254 |
| FADS2 | -4,184195261 | 2,25E-85 |
| F2RL1 | -4,188862756 | 1,93E-54 |
| DDX11L2 | -4,196771334 | 5,38E-08 |
| STAMBPL1 | -4,197036757 | 6,70E-16 |
| CAV2 | -4,199738379 | 1,31E-57 |
| ARHGAP23 | -4,214507694 | 7,35E-18 |
| LPAR6 | -4,217720476 | 0,000159 |
| C1QL4 | -4,217735797 | 0,000695 |
| PFKFB3 | -4,219438981 | 4,82E-35 |
| AMIGO2 | -4,220893607 | 5,90E-66 |
| BMPR1B | -4,227171132 | 1,02E-35 |
| TMEM92 | -4,229577387 | 7,83E-06 |
| FSIP1 | -4,247423724 | 2,40E-05 |
| RPS6KA6 | -4,249901731 | 4,12E-20 |
| CNNM1 | -4,262017052 | 1,21E-42 |
| RASSF9 | -4,263893086 | 0,000787 |
| FHOD3 | -4,280046126 | 9,78E-12 |
| ARL4C | -4,285823687 | 1,90E-86 |
| VWA5B2 | -4,295107998 | 1,86E-06 |
| APOL6 | -4,296268596 | 1,02E-17 |
| ARHGAP26 | -4,308991468 | 1,03E-20 |
| SOX9 | -4,310106382 | 1,97E-20 |
| ANKRD2 | -4,332213485 | 0,000215 |
| FGG | -4,332348832 | 4,58E-06 |
| C14orf159 | -4,333034194 | 6,12E-31 |

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| CGNL1 | -4,350600208 | 8,13E-11 |
| LINC01503 | -4,353108513 | 4,23E-05 |
| CSF1 | -4,376294191 | 1,44E-28 |
| ARAP3 | -4,376358071 | 5,08E-25 |
| TMEM145 | -4,377995423 | 0,000415 |
| PDE4D | -4,384830128 | 2,59E-103 |
| ADM | -4,386293708 | 1,11E-12 |
| GULP1 | -4,387066542 | 4,60E-44 |
| CACNG8 | -4,38836635 | 0,000294 |
| FAM124A | -4,393565082 | 1,05E-09 |
| MGAT5B | -4,396404788 | 3,39E-36 |
| WIPF1 | -4,399046052 | 1,32E-45 |
| ADAMTSL4 | -4,404205641 | 1,96E-05 |
| VEGFC | -4,407339362 | 5,01E-15 |
| RIN2 | -4,41098654 | 8,27E-31 |
| ADAM23 | -4,41346179 | 1,61E-15 |
| MPP1 | -4,425101959 | 2,07E-12 |
| PCDHB5 | -4,436098047 | 2,29E-09 |
| MSRB3 | -4,453560616 | 2,09E-39 |
| TGFBR2 | -4,455673006 | 1,05E-56 |
| XDH | -4,462934582 | 0,000418 |
| GATA4 | -4,463217266 | 2,15E-10 |
| PALD1 | -4,464240016 | 6,97E-41 |
| DGKA | -4,464879871 | 1,29E-17 |
| ZNF469 | -4,47630182 | 2,16E-14 |
| MAP1B | -4,478204013 | 7,23E-34 |
| ATP8B3 | -4,483401558 | 3,81E-07 |
| FHL2 | -4,491469625 | 7,89E-14 |
| DHRS3 | -4,497358442 | 5,79E-40 |
| PELI2 | -4,503902017 | 1,14E-05 |
| NOSTRIN | -4,504813741 | 2,88E-07 |
| LUCAT1 | -4,541716743 | 1,24E-11 |
| SH3PXD2A | -4,543728271 | 8,14E-33 |
| LGR6 | -4,5457003 | 2,80E-20 |
| GLIPR1 | -4,551357426 | 3,42E-15 |
| IL22RA1 | -4,584290192 | 3,67E-06 |
| EPHA2 | -4,584341597 | 3,01E-37 |
| FAM189A1 | -4,588598371 | 1,55E-06 |
| TRIM47 | -4,59280337 | 1,61E-55 |
| PCDH9 | -4,595923305 | 1,45E-28 |
| ASB9 | -4,610869248 | 2,49E-08 |
| LOC101927 | -4,613923064 | 5,11E-09 |
| TESC | -4,614770977 | 6,10E-47 |
| SYNGR4 | -4,620900562 | 0,000245 |
| C1R | -4,626927951 | 2,91E-28 |
| AKAP12 | -4,628432764 | 1,22E-53 |
| HHEX | -4,646912652 | 3,95E-38 |
| CEACAM6 | -4,656351127 | 1,31E-11 |
| PDE1A | -4,659451514 | 1,33E-06 |
| PLCXD1 | -4,662522566 | 3,19E-62 |

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| SERPINB9 | -4,666016272 | 1,82E-35 |
| HOXB6 | -4,67624745 | 1,21E-09 |
| MOB3B | -4,68930039 | 0,000123 |
| DENND1C | -4,69105658 | 4,52E-07 |
| TMEM98 | -4,696192052 | 2,64E-27 |
| WIPF3 | -4,697817713 | 0,000326 |
| ANKRD22 | -4,700040355 | 0,000248 |
| ST3GAL2 | -4,702077903 | 3,72E-43 |
| PDE6G | -4,705560347 | 0,000951 |
| ROR1 | -4,711343815 | 2,34E-57 |
| LOC254896 | -4,737500671 | 0,00089 |
| FBN1 | -4,739152737 | 4,54E-33 |
| CALD1 | -4,752491393 | 7,48E-22 |
| APBB1 | -4,759174686 | 2,09E-35 |
| YOD1 | -4,768046192 | 1,65E-18 |
| ZNF513 | -4,771614955 | 1,34E-18 |
| HOXC8 | -4,77486251 | 3,10E-12 |
| AADAC | -4,791521802 | 0,000218 |
| FZD8 | -4,821675006 | 5,07E-17 |
| TUBA4A | -4,825836587 | 3,28E-18 |
| FLJ32255 | -4,826651682 | 0,000306 |
| LINC00511 | -4,83872671 | 0,000492 |
| PRG4 | -4,843572731 | 0,000588 |
| FOSL1 | -4,855994872 | 1,80E-30 |
| MYO1E | -4,862036159 | 2,18E-45 |
| IGFBP4 | -4,863326066 | 1,83E-48 |
| ZC3H12C | -4,864732427 | 1,14E-21 |
| SPRED1 | -4,873618489 | 5,55E-36 |
| TNS3 | -4,876159595 | 2,49E-66 |
| FILIP1 | -4,889155254 | 2,23E-12 |
| SLITRK5 | -4,900275999 | 6,69E-06 |
| LGR5 | -4,90466065 | 1,98E-05 |
| TRNP1 | -4,907683685 | 4,84E-84 |
| C17orf51 | -4,912608374 | 8,28E-30 |
| EPHA7 | -4,926332645 | 0,0003 |
| CIB2 | -4,927251887 | 9,46E-28 |
| MRC2 | -4,942131918 | 5,35E-30 |
| EPB41L2 | -4,949476264 | 1,82E-59 |
| CLDND2 | -4,949997644 | 2,70E-07 |
| BAAT | -4,952574781 | 1,68E-24 |
| GNG2 | -4,961084389 | 1,66E-06 |
| C2orf72 | -4,984297536 | 3,12E-06 |
| GLDC | -4,999314527 | 3,29E-64 |
| DNM1 | -5,009728913 | 1,62E-117 |
| AHNAK2 | -5,01083406 | 2,39E-129 |
| NEXN | -5,041253731 | 0,000669 |
| LRRK1 | -5,062718867 | 9,45E-52 |
| RAB32 | -5,071528699 | 5,22E-34 |
| SEC16B | -5,079683588 | 0,000483 |
| TBX1 | -5,086569724 | 9,04E-06 |

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| TOR4A | -5,087949323 | 3,41E-71 |
| TRIM6 | -5,088648446 | 4,42E-12 |
| PDE8B | -5,089873839 | 5,02E-11 |
| RGS2 | -5,099573838 | 3,27E-37 |
| GNAI1 | -5,101215221 | 4,63E-57 |
| LINC01504 | -5,10189969 | 0,000776 |
| SLITRK6 | -5,109039301 | 2,00E-05 |
| SYT11 | -5,114554225 | 4,66E-05 |
| HOXA-AS2 | -5,121041471 | 6,07E-11 |
| PROCR | -5,127755256 | 4,57E-06 |
| SVEP1 | -5,128252191 | 3,71E-08 |
| CYP26B1 | -5,12909868 | 2,56E-16 |
| INPP1 | -5,133960236 | 1,55E-10 |
| FOXA2 | -5,139070616 | 4,27E-79 |
| CAV1 | -5,146903605 | 1,31E-75 |
| SYCE1L | -5,189138835 | 7,63E-07 |
| BNC2 | -5,193839872 | 2,16E-05 |
| UBASH3B | -5,196451679 | 7,58E-47 |
| IL18 | -5,201041254 | 7,18E-14 |
| HAS2 | -5,20391033 | 8,76E-06 |
| CP | -5,209495278 | 5,67E-12 |
| GRIP2 | -5,237581865 | 4,61E-05 |
| DOCK10 | -5,238613614 | 2,19E-46 |
| SYNE1 | -5,2487767 | 4,61E-37 |
| MESP1 | -5,259297194 | 7,23E-06 |
| ASPH | -5,26342544 | 6,67E-89 |
| DPP4 | -5,265530185 | 1,97E-07 |
| F5 | -5,26639012 | 4,82E-06 |
| IGFBPL1 | -5,272814994 | 7,45E-17 |
| SMARCA1 | -5,275462519 | 5,13E-47 |
| C15orf52 | -5,277560419 | 5,54E-06 |
| SLC45A1 | -5,282132771 | 3,94E-05 |
| CRAT | -5,28348558 | 1,37E-38 |
| HOXB13 | -5,302716304 | 6,29E-17 |
| ARHGAP22 | -5,303264377 | 3,48E-10 |
| CRYBG3 | -5,30697382 | 3,04E-35 |
| GJA1 | -5,315714619 | 2,06E-20 |
| PDE7B | -5,349900901 | 1,40E-17 |
| LOXL2 | -5,362994625 | 2,61E-22 |
| ITGAM | -5,367517753 | 4,70E-05 |
| PYGL | -5,374703568 | 3,74E-05 |
| PMP22 | -5,376227714 | 4,62E-42 |
| TGFB2 | -5,380370313 | 6,47E-23 |
| MYH15 | -5,401947588 | 7,15E-11 |
| RIN1 | -5,40662495 | 4,22E-43 |
| LIX1L | -5,410749716 | 1,66E-67 |
| COL5A2 | -5,414736045 | 2,00E-110 |
| SEMA3A | -5,416118552 | 4,81E-20 |
| SLC2A3 | -5,426355734 | 2,36E-17 |
| LYN | -5,426862912 | 3,39E-42 |

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| MYO15B | -5,429259738 | 1,62E-74 |
| LIMCH1 | -5,431779462 | 2,95E-32 |
| SIK1 | -5,441931567 | 0,000206 |
| RGS11 | -5,443854081 | 0,000736 |
| TBX20 | -5,447140627 | 1,80E-06 |
| PRRT3-AS1 | -5,463219662 | 6,75E-07 |
| CASP10 | -5,469403367 | 1,39E-17 |
| SRSF12 | -5,493314578 | 7,24E-06 |
| PPIEL | -5,518231932 | 0,000617 |
| GPRIN3 | -5,530299296 | 8,69E-12 |
| TMEM9B-A | -5,532777695 | 2,75E-05 |
| EDARADD | -5,553727325 | 6,78E-32 |
| SYNM | -5,566381572 | 2,14E-92 |
| RBP1 | -5,573363979 | 5,94E-18 |
| TNS4 | -5,581355187 | 1,00E-27 |
| ERO1B | -5,60099644 | 3,04E-14 |
| RHBDL3 | -5,650189984 | 4,64E-43 |
| DNM3 | -5,655870126 | 2,65E-16 |
| SPX | -5,659962691 | 4,01E-05 |
| MLLT11 | -5,667002517 | 3,85E-57 |
| CAPN2 | -5,670270472 | 4,74E-42 |
| DCBLD2 | -5,676329047 | 2,20E-117 |
| SPRY4 | -5,700984728 | 4,16E-43 |
| DKK3 | -5,709782595 | 8,61E-51 |
| SLC16A2 | -5,719265742 | 7,47E-37 |
| TMEM47 | -5,724070138 | 0,000188 |
| HAPLN3 | -5,731573908 | 1,50E-09 |
| SOX8 | -5,772917776 | 1,89E-05 |
| COL7A1 | -5,773856552 | 3,24E-49 |
| NRG2 | -5,776025589 | 3,07E-09 |
| CCDC106 | -5,788410053 | 2,17E-46 |
| C10orf54 | -5,820207762 | 3,33E-11 |
| TGFB111 | -5,83269486 | 0,000104 |
| MGAM | -5,837272163 | 0,000246 |
| APOC1 | -5,841799293 | 6,54E-50 |
| ACOX2 | -5,858947479 | 3,15E-06 |
| EGFR | -5,859844023 | 7,43E-112 |
| BIRC3 | -5,878648899 | 8,00E-27 |
| HLX | -5,902939267 | 0,000116 |
| ABCC2 | -5,903072623 | 1,22E-28 |
| ABCC3 | -5,911883854 | 0,00022 |
| PCDHA3 | -5,934717691 | 1,69E-06 |
| ZDHHC2 | -5,941140173 | 4,17E-33 |
| PTGR1 | -5,951789554 | 2,39E-79 |
| JAG1 | -5,970665306 | 1,55E-185 |
| POPDC3 | -5,975135042 | 1,63E-21 |
| MMP24 | -5,979359604 | 2,35E-31 |
| ANKRD33B | -5,981206838 | 3,08E-22 |
| SERPINE2 | -5,98788729 | 1,86E-118 |
| BST1 | -6,021102274 | 5,88E-07 |

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| THSD1 | -6,035623182 | 4,00E-12 |
| PDE4B | -6,045034888 | 1,13E-05 |
| TBXAS1 | -6,045402514 | 3,78E-27 |
| FRMD3 | -6,112733586 | 3,60E-68 |
| BRINP1 | -6,112875983 | 2,03E-05 |
| LINC00261 | -6,148855206 | 1,64E-05 |
| DUSP4 | -6,195718621 | 2,95E-07 |
| BIN1 | -6,203394986 | 2,73E-61 |
| ERICH5 | -6,205648102 | 3,91E-09 |
| IL15 | -6,233309996 | 1,73E-07 |
| PROS1 | -6,246950822 | 7,31E-37 |
| CYGB | -6,252998599 | 9,20E-06 |
| EVA1C | -6,255369945 | 1,72E-85 |
| DPYSL3 | -6,27320185 | 7,64E-102 |
| CECR7 | -6,285196483 | 7,01E-06 |
| TP63 | -6,37955558 | 2,00E-08 |
| MYEOV | -6,382456464 | 3,32E-96 |
| CD14 | -6,401759103 | 5,59E-06 |
| TLE6 | -6,411156897 | 4,56E-06 |
| ALDH3B1 | -6,415697168 | 6,12E-39 |
| TRIML2 | -6,416556644 | 3,47E-24 |
| CD109 | -6,441374472 | 3,29E-122 |
| PAX7 | -6,457543068 | 1,17E-06 |
| PLA2G16 | -6,458505735 | 1,90E-80 |
| CA9 | -6,466777632 | 1,19E-07 |
| PLCL2 | -6,480200568 | 4,44E-14 |
| GPX2 | -6,483178776 | 0,000121 |
| STRA6 | -6,490081489 | 5,10E-07 |
| TRIM9 | -6,490868066 | 3,87E-28 |
| C2orf88 | -6,508852622 | 0,00067 |
| FOXC2 | -6,519491036 | 0,000715 |
| RBFOX3 | -6,52960923 | 1,39E-29 |
| ZNF717 | -6,541011717 | 1,26E-06 |
| CLMP | -6,547018334 | 2,22E-11 |
| CACNG6 | -6,549582193 | 2,47E-08 |
| RASSF6 | -6,56105742 | 3,07E-08 |
| ZBTB18 | -6,561148061 | 3,66E-40 |
| PRKCA | -6,567368569 | 1,87E-147 |
| SLC19A3 | -6,568259056 | 5,29E-09 |
| TM4SF1 | -6,56888982 | 2,19E-106 |
| CHGB | -6,587705647 | 4,71E-20 |
| ME3 | -6,588148088 | 8,33E-30 |
| SERPINE1 | -6,589784092 | 5,78E-05 |
| SUCLG2-AS | -6,614966518 | 0,000452 |
| AKR1C2 | -6,641494988 | 1,62E-40 |
| REREP3 | -6,648333128 | 0,000407 |
| ARHGAP31 | -6,6500181 | 0,000425 |
| PKDCC | -6,652533635 | 2,06E-36 |
| ETV4 | -6,65531902 | 1,94E-08 |
| EID3 | -6,671088906 | 0,000491 |

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| FSTL1 | -6,671251218 | 1,45E-44 |
| FLRT2 | -6,678919565 | 0,000739 |
| PLCE1 | -6,704555929 | 2,25E-43 |
| C10orf90 | -6,713520999 | 0,000329 |
| ZBTB20 | -6,7420993 | 1,96E-20 |
| CCDC144A | -6,746341878 | 0,000284 |
| ETV5 | -6,766815411 | 1,42E-67 |
| CCDC80 | -6,807263377 | 1,74E-71 |
| C1S | -6,821408927 | 3,34E-24 |
| EMP1 | -6,839407612 | 1,63E-07 |
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| HS3ST1 | -6,859849049 | 0,000193 |
| TSPAN18 | -6,864334783 | 0,000229 |
| VTN | -6,865183669 | 1,69E-07 |
| BANK1 | -6,86564829 | 0,000183 |
| MYRF | -6,871827957 | 4,68E-06 |
| KRT7 | -6,904686532 | 7,60E-14 |
| BEAN1 | -6,948251832 | 0,00017 |
| SFRP4 | -6,950134084 | 1,05E-10 |
| TNC | -6,968673651 | 5,41E-27 |
| PNMA2 | -7,002636207 | 5,54E-60 |
| IGFBP6 | -7,021136694 | 3,87E-59 |
| BDNF | -7,064245195 | 9,66E-49 |
| FAR2P2 | -7,090796285 | 9,11E-05 |
| FMN2 | -7,093417355 | 7,57E-18 |
| S100A4 | -7,116218545 | 3,42E-87 |
| HNF4A | -7,118130526 | 3,24E-41 |
| CPA4 | -7,125221766 | 4,80E-11 |
| DAB2 | -7,138272316 | 2,65E-37 |
| KLHDC7A | -7,142069375 | 1,64E-08 |
| TTLL6 | -7,155134786 | 6,15E-08 |
| GATM | -7,199631513 | 2,61E-12 |
| CYP24A1 | -7,202230368 | 5,53E-266 |
| OSBPL3 | -7,208629059 | 1,85E-43 |
| CDH2 | -7,223979277 | 9,31E-64 |
| CACNG7 | -7,230680156 | 4,27E-08 |
| KIFC3 | -7,235256138 | 9,20E-54 |
| SOX21 | -7,245743521 | 0,000947 |
| EPHA5-AS1 | -7,247370293 | 0,000965 |
| LINC01234 | -7,276812295 | 3,95E-38 |
| PPEF1 | -7,288467999 | 3,62E-05 |
| AKR1C1 | -7,289454746 | 6,32E-114 |
| USP44 | -7,302778445 | 0,000951 |
| LACAT8 | -7,305913028 | 0,000746 |
| FAM27E3 | -7,305913028 | 0,000746 |
| LIPE | -7,323635321 | 3,62E-09 |
| KCNT2 | -7,330931367 | 0,000933 |
| GOS2 | -7,331861461 | 0,000774 |
| BAIAP2L2 | -7,332370284 | 5,16E-20 |
| CRYM | -7,341162427 | 2,89E-05 |

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| PPP1R3C | -7,343759543 | 3,28E-09 |
| SYT13 | -7,351394606 | 5,22E-08 |
| STAT4 | -7,356978904 | 2,86E-09 |
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| LINC00488 | -7,361872544 | 0,000584 |
| PDE10A | -7,385855949 | 1,70E-22 |
| GRIN2B | -7,386837039 | 0,000688 |
| SLAMF7 | -7,387432647 | 0,000614 |
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| ADAMTS16 | -7,440655904 | 0,000514 |
| PWARSN | -7,441228326 | 0,000467 |
| LINC00312 | -7,441228326 | 0,000467 |
| ADAM12 | -7,445126059 | 4,27E-25 |
| ROBO1 | -7,452791889 | 6,36E-96 |
| PLA2G4A | -7,454732497 | 1,63E-06 |
| NEK9 | -7,464831776 | 1,23E-05 |
| C3 | -7,469417969 | 1,68E-35 |
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| CRIP1 | -7,470722303 | 9,40E-125 |
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| ARX | -7,499285634 | 6,61E-10 |
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| FGFBP1 | -7,523757069 | 0,000717 |
| NTS | -7,533749627 | 1,09E-21 |
| ITGA1 | -7,541871704 | 1,48E-05 |
| HBQ1 | -7,54315017 | 0,000284 |
| VSX1 | -7,543944858 | 0,000272 |
| LOC101927 | -7,545003279 | 0,000284 |
| ACOT2 | -7,549137071 | 5,83E-45 |
| TIMD4 | -7,566759991 | 0,000277 |
| MAP3K7CL | -7,56988729 | 0,000277 |
| LAMA5-AS1 | -7,570410132 | 0,000305 |
| BCHE | -7,592043801 | 0,00022 |
| FXD2 | -7,59332369 | 0,000236 |
| LINC01322 | -7,594351563 | 0,000282 |
| HOXB8 | -7,596248149 | 2,87E-17 |
| SOGA3 | -7,599603896 | 3,16E-22 |
| IFI16 | -7,615562927 | 5,13E-10 |
| SBK3 | -7,615630874 | 0,000199 |
| BMPER | -7,616638146 | 0,00021 |
| USP32P1 | -7,621294745 | 9,24E-06 |
| MYOM2 | -7,637349142 | 0,000199 |
| LOC102724 | -7,638590745 | 0,00018 |

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| MAGI2-AS3 | -7,639086233 | 0,000181 |
| NID2 | -7,658486407 | 0,000257 |
| NCMAP | -7,664374325 | 0,000257 |
| FAM133A | -7,682237847 | 0,000168 |
| CSGALNAC | -7,682496705 | 2,39E-31 |
| HAND2 | -7,683202137 | 0,00015 |
| CCK | -7,683442508 | 0,000148 |
| FOXQ1 | -7,692379857 | 6,15E-23 |
| LINC00473 | -7,705433091 | 7,29E-15 |
| TMSB4Y | -7,706065695 | 0,000133 |
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| PEAR1 | -7,726369654 | 1,34E-05 |
| IGFBP1 | -7,728106794 | 0,000123 |
| PACERR | -7,747748726 | 0,000118 |
| SLC4A4 | -7,76341504 | 1,04E-23 |
| ITIH5 | -7,788703477 | 0,000115 |
| EPAS1 | -7,80885744 | 2,81E-126 |
| RARRES1 | -7,812613071 | 9,34E-05 |
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| UGT2B7 | -7,813276218 | 0,000108 |
| KLHL4 | -7,816482095 | 5,85E-11 |
| KRT81 | -7,837121632 | 2,38E-14 |
| SLC10A4 | -7,842891571 | 5,54E-11 |
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| LINC01273 | -7,852008825 | 7,09E-05 |
| GGT3P | -7,852008825 | 7,09E-05 |
| DSC3 | -7,859706768 | 2,89E-11 |
| PRDM1 | -7,867454106 | 6,28E-11 |
| UNC5D | -7,871944354 | 6,71E-05 |
| GALNT9 | -7,873216801 | 8,79E-05 |
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| SLC6A17 | -7,903648304 | 3,36E-11 |
| MYL9 | -7,906255586 | 9,56E-05 |
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| KIAA1644 | -7,92872953 | 4,84E-05 |
| TNFAIP2 | -7,942410039 | 8,38E-77 |
| PHYHIP | -7,947839427 | 4,67E-05 |
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| ANKS4B | -7,967297183 | 5,38E-05 |
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| EPS8L3 | -8,037134373 | 2,92E-05 |
| CA13 | -8,038455664 | 3,77E-05 |
| HACD4 | -8,053196698 | 2,65E-05 |

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| ITGA11 | -8,053568538 | 2,60E-05 |
| PLA1A | -8,05580379 | 3,54E-05 |
| KCNE4 | -8,070736124 | 2,39E-05 |
| ZNF215 | -8,07110328 | 2,40E-05 |
| LAMA4 | -8,090992024 | 4,76E-05 |
| HOXB3 | -8,099851541 | 5,56E-17 |
| MIR100HG | -8,117269755 | 1,03E-06 |
| GREM2 | -8,120158921 | 1,94E-05 |
| FST | -8,16499402 | 8,16E-07 |
| DAPK1 | -8,176052154 | 3,60E-54 |
| ST6GALNA4 | -8,198657518 | 1,70E-05 |
| SCG2 | -8,200848001 | 1,26E-05 |
| IQGAP2 | -8,208421363 | 9,15E-53 |
| SLC6A15 | -8,215028872 | 1,26E-05 |
| TMBIM1 | -8,232491251 | 1,62E-76 |
| TMEM220 | -8,24591235 | 1,02E-05 |
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| GPC6 | -8,252496186 | 4,76E-18 |
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| ZNF583 | -8,291819748 | 8,80E-06 |
| PDCD6IPP2 | -8,320190229 | 7,12E-06 |
| SYT15 | -8,321119813 | 8,41E-06 |
| C11orf70 | -8,324609999 | 4,15E-07 |
| CNTNAP3B | -8,32588655 | 2,71E-23 |
| EBI3 | -8,334322313 | 6,57E-06 |
| SERPINB4 | -8,336479034 | 1,16E-05 |
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| NPR2 | -8,359406854 | 3,50E-07 |
| ZFP82 | -8,360372423 | 6,83E-06 |
| AFAP1L1 | -8,372287285 | 4,69E-13 |
| LINC00857 | -8,384822578 | 4,38E-13 |
| SNPH | -8,397843315 | 6,82E-19 |
| PLCXD3 | -8,404146444 | 5,25E-06 |
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| THY1 | -8,467228889 | 2,46E-07 |
| BATF3 | -8,47958685 | 1,87E-07 |
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| TFPI2 | -8,52259241 | 1,39E-06 |
| CXCL3 | -8,522924849 | 2,01E-07 |
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| RNF212 | -8,554875316 | 2,45E-06 |
| LOC729970 | -8,5559286 | 2,05E-06 |
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| ETV1 | -8,5629529 | 1,56E-07 |
| PSMB8 | -8,565253127 | 3,78E-23 |
| PROC | -8,581788514 | 2,26E-06 |

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| CRTAC1 | -8,582309288 | 2,70E-06 |
| HHIP-AS1 | -8,591792336 | 1,70E-06 |
| CSF2RA | -8,601846264 | 2,46E-06 |
| SUSD5 | -8,603127675 | 1,69E-06 |
| MKRN3 | -8,604016801 | 1,58E-06 |
| GGT8P | -8,604016801 | 1,58E-06 |
| TMEM156 | -8,610289905 | 5,81E-14 |
| CCAT1 | -8,616390614 | 1,59E-06 |
| ADH6 | -8,618296671 | 3,02E-06 |
| ST6GAL2 | -8,629270537 | 2,59E-07 |
| CDA | -8,649200653 | 1,36E-06 |
| ANKRD30A | -8,651292629 | 1,44E-06 |
| ADRA1B | -8,660828986 | 1,22E-06 |
| LHX8 | -8,661926718 | 1,21E-06 |
| PHLDB2 | -8,666796947 | 3,99E-41 |
| RUNX3 | -8,668516815 | 1,22E-26 |
| NR1H4 | -8,675780159 | 2,90E-06 |
| FOXL2NB | -8,685009153 | 1,23E-06 |
| PEG10 | -8,719858816 | 2,39E-16 |
| C8orf88 | -8,727062328 | 8,46E-07 |
| HPGD | -8,728782301 | 5,98E-87 |
| GAPLINC | -8,728811822 | 1,00E-06 |
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| EREG | -8,751175328 | 5,94E-09 |
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| CD70 | -8,765112996 | 2,92E-14 |
| AK5 | -8,779874871 | 6,42E-07 |
| EDNRA | -8,782354229 | 9,73E-07 |
| TGM2 | -8,798065812 | 8,29E-91 |
| STAC | -8,800603197 | 5,67E-07 |
| TNFRSF9 | -8,80104604 | 5,59E-07 |
| PRDM13 | -8,80104604 | 5,59E-07 |
| FBLN1 | -8,803525261 | 1,16E-06 |
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| ZFPM2-AS1 | -8,830387157 | 5,30E-07 |
| MMP2 | -8,834852678 | 6,24E-21 |
| PLAT | -8,840971701 | 4,57E-07 |
| ALX4 | -8,850836266 | 4,35E-07 |
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| MAP1LC3A | -8,859887349 | 4,82E-07 |
| CTS2 | -8,867022957 | 4,07E-85 |
| TRPA1 | -8,871631442 | 4,13E-07 |
| RRN3P1 | -8,880136455 | 3,74E-07 |
| ITIH2 | -8,892139589 | 5,30E-07 |
| ZNF559 | -8,899171804 | 3,47E-07 |
| CYB5R2 | -8,899378956 | 3,38E-07 |
| FAM71E1 | -8,910705087 | 3,92E-07 |
| COL4A2 | -8,916554407 | 1,74E-91 |
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| GLIS3 | -8,959238903 | 9,17E-07 |

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| C11orf45 | -8,964924019 | 2,33E-07 |
| FBXL7 | -8,965417983 | 2,33E-07 |
| SLIT3 | -8,9724057 | 6,65E-28 |
| PADI1 | -8,983075101 | 2,11E-07 |
| KCNJ2 | -8,992889946 | 2,08E-07 |
| A1CF | -9,00128975 | 1,90E-07 |
| PTPN20 | -9,008580162 | 2,47E-07 |
| ZNF542P | -9,009160258 | 2,06E-07 |
| FAM43B | -9,027146572 | 1,73E-07 |
| CHMP1B2P | -9,02724138 | 1,71E-07 |
| UCHL1 | -9,034402942 | 9,22E-19 |
| RNF217 | -9,039675476 | 1,73E-22 |
| SLC7A7 | -9,042404092 | 1,03E-20 |
| MAGEA6 | -9,057130583 | 1,22E-08 |
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| ADRA1D | -9,065270963 | 1,20E-08 |
| ZNF502 | -9,095209486 | 1,25E-07 |
| NRIP3 | -9,097016793 | 1,29E-07 |
| USH1C | -9,104680196 | 1,57E-08 |
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| TPM2 | -9,126228074 | 1,60E-169 |
| CD40 | -9,128471775 | 9,90E-08 |
| SDPR | -9,131191014 | 2,15E-37 |
| APOBEC3C | -9,1376624 | 1,01E-49 |
| SCN9A | -9,149019049 | 4,56E-16 |
| LOC102723 | -9,16253964 | 9,96E-08 |
| STEAP2 | -9,167211822 | 6,36E-07 |
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| DDC | -9,184917147 | 6,96E-08 |
| GCNT2 | -9,20718121 | 9,08E-24 |
| ARSJ | -9,223655664 | 8,10E-24 |
| UGT1A7 | -9,223889009 | 5,66E-08 |
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| TM4SF20 | -9,229726169 | 7,54E-08 |
| PRKCDBP | -9,231706618 | 5,53E-08 |
| SOX17 | -9,238909799 | 5,17E-08 |
| GLI2 | -9,251194125 | 4,86E-38 |
| ALDH2 | -9,25733174 | 1,56E-104 |
| ZNF71 | -9,260292845 | 1,24E-16 |
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| GREM1 | -9,266956527 | 6,87E-08 |
| PWAR5 | -9,304592837 | 3,85E-08 |
| SMO | -9,310849575 | 2,83E-24 |
| DGKG | -9,315766108 | 1,41E-16 |
| LAYN | -9,318332217 | 4,24E-08 |
| IGF2BP1 | -9,31892959 | 1,23E-130 |
| UGT1A1 | -9,321126023 | 4,58E-08 |
| KCNK3 | -9,324047351 | 1,73E-16 |

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| CNTNAP3P | -9,376057634 | 2,49E-08 |
| SLC17A3 | -9,38928707 | 2,25E-08 |
| GABRE | -9,392295329 | 1,36E-07 |
| AADACP1 | -9,402834302 | 2,09E-08 |
| FAT3 | -9,409306186 | 2,04E-08 |
| AKR1C3 | -9,415412884 | 2,41E-07 |
| CYP3A5 | -9,425351598 | 4,17E-08 |
| FGF2 | -9,428118658 | 9,77E-33 |
| PAX6 | -9,435334076 | 1,95E-08 |
| PCSK5 | -9,435813317 | 1,50E-32 |
| SALL1 | -9,443581814 | 1,85E-08 |
| ANXA8L1 | -9,448599742 | 1,75E-08 |
| ANKRD1 | -9,456132063 | 5,26E-09 |
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| ZEB2 | -9,486431652 | 1,87E-08 |
| C1RL-AS1 | -9,487541355 | 1,34E-08 |
| SRPX2 | -9,487747995 | 1,31E-08 |
| MID1 | -9,500584196 | 3,81E-173 |
| C11orf86 | -9,514786358 | 1,70E-08 |
| CDH6 | -9,553737777 | 1,20E-09 |
| APBB1IP | -9,569900958 | 1,25E-08 |
| LINC00941 | -9,573583132 | 8,81E-09 |
| PRSS3 | -9,588228246 | 1,39E-08 |
| TLE4 | -9,59223833 | 1,05E-09 |
| CXCL1 | -9,593592277 | 1,02E-08 |
| FIGN | -9,597087297 | 8,26E-09 |
| PAQR9 | -9,603255374 | 7,38E-09 |
| FLNC | -9,606818776 | 2,33E-08 |
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| RBP4 | -9,626473573 | 6,57E-09 |
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| HOXB5 | -9,666242625 | 5,36E-09 |
| C7orf31 | -9,67187897 | 5,15E-09 |
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| SMIM6 | -9,684711463 | 5,08E-09 |
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| ZC3HAV1L | -9,742402579 | 3,97E-09 |
| ANPEP | -9,75695175 | 9,52E-09 |
| COL4A1 | -9,757136416 | 5,29E-27 |
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| MT1A | -9,775775619 | 2,82E-09 |
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| VCAN | -9,80814943 | 8,53E-141 |
| MSC-AS1 | -9,820600242 | 2,21E-09 |
| ZFP28 | -9,839885432 | 2,60E-09 |
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| FAM230C | -9,866674858 | 1,72E-09 |

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| LINC01279 | -9,879503225 | 1,79E-09 |
| AGPS | -9,880127021 | 1,94E-60 |
| TTY15 | -9,894878453 | 1,34E-09 |
| GIP | -9,895345964 | 1,36E-09 |
| UTY | -9,903553015 | 1,54E-09 |
| UGT1A9 | -9,915418962 | 1,66E-09 |
| NALCN | -9,922949061 | 1,20E-09 |
| SMOC1 | -9,923153276 | 1,16E-09 |
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| PCDHA4 | -9,980906633 | 1,76E-09 |
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| BVES | -10,0574645 | 5,58E-10 |
| RGS20 | -10,06646671 | 5,02E-10 |
| LINC01021 | -10,07055543 | 4,95E-10 |
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| LINC00667 | -10,09187049 | 4,34E-10 |
| LSAMP | -10,10670336 | 1,06E-09 |
| TIMP4 | -10,11022886 | 6,54E-11 |
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| GDA | -10,2373529 | 4,98E-10 |
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| MALL | -10,25275207 | 6,19E-10 |
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| TCEAL8 | -12,09028266 | 4,10E-15 |
| ABCA1 | -12,09918558 | 3,54E-15 |
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| SIGMAR1 | -12,49942016 | 1,55E-31 |
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| IGF2BP3 | -12,54857538 | 2,26E-16 |
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| PDGFD | -12,61463782 | 1,65E-16 |
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| WBP5 | -12,67251918 | 1,20E-16 |
| GABRA5 | -12,81484126 | 5,28E-17 |
| CNN3 | -12,83149393 | 1,50E-17 |
| GNE | -12,85254518 | 3,43E-17 |
| NNMT | -12,87156386 | 3,34E-17 |
| HAVCR1 | -12,88142234 | 2,92E-17 |
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| GABRB3 | -12,90253532 | 1,03E-17 |
| PLAU | -12,90527539 | 2,69E-17 |
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| TBX18 | -13,02883031 | 1,29E-17 |
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| PVRL3 | -13,19559675 | 4,23E-18 |
| AKR1B1 | -13,30521402 | 7,67E-100 |
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| KIRREL | -13,51470088 | 6,40E-19 |
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| NLRP2 | -13,61670414 | 2,77E-19 |
| INA | -13,64222856 | 2,33E-19 |
| CXCL5 | -13,66109354 | 2,46E-19 |
| ARSE | -13,79658144 | 1,26E-19 |
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| GRAMD1B | -14,03928964 | 1,97E-20 |
| ADD2 | -14,06950793 | 1,37E-20 |
| GCNT3 | -14,22440669 | 7,12E-21 |

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| HNFB | -14,24690845 | 6,21E-21 |
| PAPPA | -14,37392932 | 1,67E-21 |
| EMC10 | -14,38449147 | 1,57E-21 |
| CNTN1 | -14,45039623 | 6,09E-22 |
| NRG1 | -14,81406133 | 1,16E-22 |
| NTRK3 | -15,07357431 | 1,34E-23 |
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| ALDH1A1 | -15,1695285 | 8,67E-128 |
| CLDN2 | -16,1057909 | 3,50E-26 |

CCRF CEM

| Gene | log2FoldCh | FDR |
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| KRT18 | 18,51615 | 1,26E-35 |
| KRT19 | 18,18038 | 1,02E-32 |
| DSP | 17,42377 | 4,18E-31 |
| CYP1B1 | 17,15096 | 3,83E-14 |
| CDH1 | 16,3574 | 2,10E-27 |
| BMP7 | 15,89041 | 4,39E-26 |
| LAPTM4B | 15,85446 | 5,87E-26 |
| KRT8 | 15,63682 | 2,38E-200 |
| SEMA3C | 15,56502 | 4,68E-25 |
| MYH14 | 15,46491 | 8,54E-24 |
| BCAR1 | 15,45553 | 7,72E-24 |
| S100A16 | 15,43406 | 7,64E-24 |
| TRPS1 | 15,42867 | 1,44E-24 |
| LAMC1 | 15,35392 | 2,52E-24 |
| S100A14 | 15,31161 | 1,63E-23 |
| FREM2 | 15,26203 | 4,59E-24 |
| TFAP2A | 15,19738 | 6,65E-24 |
| SULF2 | 15,07961 | 1,51E-24 |
| FBP1 | 15,05246 | 2,82E-23 |
| AHR | 15,02705 | 2,51E-23 |
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| MAL2 | 14,98054 | 3,29E-23 |
| AP1M2 | 14,9564 | 4,98E-23 |
| STC2 | 14,92736 | 9,19E-08 |
| CDC42EP1 | 14,86987 | 7,01E-13 |
| TPD52L1 | 14,80713 | 5,09E-22 |
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| ST14 | 14,56582 | 1,90E-21 |
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| TSPYL5 | 14,51162 | 8,29E-22 |
| CD276 | 14,47934 | 2,25E-21 |
| SERPINB6 | 14,44954 | 1,27E-21 |
| TFAP2C | 14,44625 | 2,00E-21 |
| LTBR | 14,36799 | 2,15E-21 |
| TACSTD2 | 14,35407 | 3,49E-21 |
| LAMA5 | 14,31598 | 3,08E-21 |
| LINC00674 | 14,23226 | 9,80E-21 |
| GRHL2 | 14,21003 | 1,53E-20 |
| RAB25 | 14,16411 | 1,17E-20 |
| C3orf14 | 14,11293 | 1,98E-20 |
| NR2F2 | 14,08434 | 1,96E-20 |
| TNFRSF19 | 14,08171 | 2,39E-20 |

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| STC1 | 14,05315 | 3,32E-20 |
| ZCCHC14 | 14,02077 | 2,33E-20 |
| MYO5B | 14,01732 | 3,44E-20 |
| DSC2 | 13,97851 | 4,09E-20 |
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| EPN3 | 13,85371 | 9,79E-20 |
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| SOX13 | 13,50967 | 3,79E-18 |
| LRP3 | 13,46739 | 1,05E-18 |
| CCND1 | 13,4587 | 1,47E-65 |
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| MSI1 | 13,29654 | 3,83E-18 |
| CTBP2 | 13,29073 | 1,78E-19 |
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| GAL | 12,98983 | 1,92E-17 |
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| MLPH | 12,89886 | 3,87E-17 |
| FAM127C | 12,87746 | 4,40E-17 |
| PBX1 | 12,86361 | 5,11E-16 |
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| WDR72 | 12,83035 | 5,63E-17 |
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| IGFBP5 | 12,38006 | 2,49E-15 |
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| SH3D19 | 12,31592 | 1,45E-15 |
| PLOD2 | 12,31197 | 1,40E-15 |
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| DCLK1 | 12,29887 | 1,69E-15 |
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| ADIRF | 12,23746 | 5,59E-14 |
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| KRTAP5-AS | 12,21872 | 1,40E-05 |
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| ARHGEF5 | 11,97137 | 2,04E-14 |
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| C14orf132 | 11,93543 | 1,44E-14 |

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| IGSF9 | 11,93418 | 2,78E-28 |
| PCSK1N | 11,9307 | 1,56E-14 |
| ALDH3A2 | 11,92995 | 2,10E-28 |
| RASEF | 11,92785 | 1,69E-14 |
| OLFM1 | 11,92128 | 1,55E-14 |
| KLF11 | 11,90703 | 2,70E-13 |
| PLK2 | 11,83897 | 8,42E-14 |
| VWA1 | 11,83851 | 4,59E-14 |
| SKAP2 | 11,83813 | 3,05E-14 |
| WNT5A | 11,81851 | 6,78E-14 |
| NUDT16 | 11,81696 | 4,63E-14 |
| GPX8 | 11,81012 | 3,95E-14 |
| FAM50B | 11,80919 | 3,31E-14 |
| HOOK1 | 11,8078 | 3,13E-14 |
| PVRL4 | 11,7956 | 3,37E-14 |
| SERTAD4 | 11,79059 | 7,81E-14 |
| ABCA3 | 11,78856 | 1,21E-25 |
| NPY1R | 11,78779 | 5,34E-14 |
| ZIC1 | 11,77298 | 1,02E-13 |
| EPHB2 | 11,76664 | 4,01E-14 |
| OAT | 11,76459 | 2,02E-13 |
| ERICH2 | 11,76307 | 1,29E-13 |
| CAP2 | 11,76027 | 4,22E-14 |
| RAB3IL1 | 11,744 | 2,74E-13 |
| CHMP4C | 11,73214 | 1,10E-13 |
| CLDN4 | 11,73026 | 7,62E-26 |
| SNX9 | 11,72336 | 5,66E-14 |
| ASAP2 | 11,71522 | 3,46E-15 |
| ESPN | 11,71433 | 5,35E-13 |
| ARFGEF3 | 11,71012 | 1,23E-13 |
| DOCK1 | 11,7069 | 7,71E-14 |
| DIP2C | 11,69664 | 6,18E-14 |
| ALOX15 | 11,68684 | 1,52E-12 |
| KDF1 | 11,6769 | 8,54E-14 |
| ERRFI1 | 11,67351 | 2,36E-13 |
| KIF16B | 11,66894 | 1,46E-13 |
| PSD3 | 11,66843 | 8,10E-14 |
| GPRC5C | 11,66807 | 8,63E-14 |
| AR | 11,65388 | 8,40E-14 |
| CEMIP | 11,6441 | 2,39E-13 |
| GRHL3 | 11,6283 | 1,35E-13 |
| P2RY2 | 11,60711 | 1,14E-14 |
| TBX2 | 11,58989 | 1,22E-13 |
| PARVA | 11,57995 | 1,77E-13 |
| SMIM22 | 11,57988 | 1,76E-13 |
| NUPR1 | 11,5793 | 5,74E-10 |
| CYP2J2 | 11,55625 | 4,12E-13 |
| IRS2 | 11,53132 | 7,70E-13 |
| SLC2A8 | 11,51409 | 3,44E-13 |
| MECOM | 11,51187 | 2,16E-13 |

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| TMEM37 | 11,50285 | 2,72E-13 |
| CC2D2A | 11,49915 | 2,54E-13 |
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| TMEM54 | 11,48792 | 1,30E-14 |
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| WNT7B | 11,47671 | 6,82E-13 |
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| PALM | 11,46217 | 3,03E-13 |
| THSD4 | 11,46106 | 4,68E-13 |
| ARNT2 | 11,45887 | 3,23E-13 |
| EPHB3 | 11,45768 | 4,42E-13 |
| C5orf38 | 11,45545 | 4,87E-13 |
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| SDC2 | 11,43898 | 3,10E-13 |
| INHBB | 11,42692 | 4,73E-13 |
| MNX1-AS1 | 11,41911 | 8,91E-13 |
| RASAL2 | 11,41693 | 3,64E-13 |
| P2RY6 | 11,4105 | 0,000213 |
| CCDC149 | 11,40415 | 4,26E-13 |
| RHOB | 11,38919 | 4,37E-89 |
| ETNK2 | 11,3746 | 9,74E-14 |
| SCARA3 | 11,35396 | 7,84E-13 |
| FAM84B | 11,34459 | 6,89E-33 |
| SRGAP1 | 11,33887 | 1,06E-12 |
| OVOL1 | 11,33452 | 1,73E-12 |
| WASF3 | 11,32761 | 5,91E-13 |
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| SYT17 | 11,318 | 6,26E-13 |
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| EFS | 11,2736 | 9,71E-13 |
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| TDRD1 | 11,25549 | 9,36E-13 |
| ILDR1 | 11,25003 | 9,90E-13 |
| PHLDA2 | 11,2436 | 1,01E-11 |
| EDN1 | 11,23605 | 4,14E-12 |
| DLX3 | 11,23105 | 1,60E-13 |
| PLEKHA1 | 11,22036 | 1,36E-12 |
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| FAM46B | 11,19593 | 2,43E-12 |
| PTGES | 11,19333 | 9,05E-12 |
| TMC4 | 11,19264 | 1,42E-13 |
| MAFIP | 11,19047 | 1,94E-12 |
| NUAK1 | 11,18851 | 1,49E-12 |
| RANBP17 | 11,18031 | 2,47E-12 |
| LAMB1 | 11,16855 | 3,25E-46 |
| TEAD2 | 11,16429 | 1,11E-43 |
| PRSS16 | 11,15806 | 2,89E-12 |
| DPYSL5 | 11,13234 | 2,91E-12 |

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| KCNK15 | 11,11781 | 2,59E-12 |
| B3GNT3 | 11,11376 | 2,44E-11 |
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| WDR35 | 11,10741 | 3,21E-12 |
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| LDLRAD3 | 11,10191 | 3,39E-12 |
| EFHD1 | 11,09877 | 4,05E-12 |
| TMEM132/ | 11,09169 | 2,60E-10 |
| KLF4 | 11,09139 | 3,13E-12 |
| PGR | 11,07427 | 1,14E-10 |
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| CST1 | 11,0504 | 3,79E-12 |
| MID2 | 11,04632 | 4,42E-12 |
| MFAP2 | 11,04524 | 3,57E-12 |
| MB | 11,04265 | 3,38E-12 |
| MBNL2 | 11,02726 | 3,71E-12 |
| NETO2 | 11,02237 | 7,03E-24 |
| TMEM51 | 11,01316 | 4,39E-12 |
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| RNF182 | 10,98612 | 1,59E-11 |
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| MPDZ | 10,97093 | 7,95E-12 |
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| DCDC2 | 10,96037 | 6,28E-12 |
| NES | 10,9596 | 6,24E-12 |
| WNK2 | 10,9436 | 4,13E-13 |
| SDC4 | 10,93372 | 5,58E-13 |
| ITGB5 | 10,93115 | 8,47E-16 |
| C1orf115 | 10,91671 | 7,76E-12 |
| HPN | 10,90638 | 1,15E-11 |
| MET | 10,89082 | 1,88E-23 |
| RET | 10,87253 | 7,15E-11 |
| EPPK1 | 10,86809 | 3,24E-20 |
| PPFIBP2 | 10,86724 | 1,06E-11 |
| FOXA1 | 10,85615 | 1,15E-53 |
| GLTSCR1 | 10,84876 | 5,99E-13 |
| C7orf13 | 10,82602 | 1,30E-11 |
| KIF26A | 10,82483 | 2,05E-12 |
| SPESP1 | 10,81783 | 2,10E-11 |
| LINC01296 | 10,80333 | 1,98E-11 |
| MBOAT2 | 10,80284 | 1,47E-11 |
| CCDC64B | 10,79587 | 2,41E-11 |
| AKR1C2 | 10,78875 | 2,55E-10 |

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| OSMR | 10,78361 | 4,12E-11 |
| GPX3 | 10,77591 | 0,000145 |
| MLF1 | 10,76834 | 2,15E-11 |
| TMEM125 | 10,75566 | 1,95E-11 |
| GADD45G | 10,74748 | 1,36E-10 |
| FAM198B | 10,74134 | 2,17E-11 |
| KALRN | 10,73844 | 8,47E-11 |
| HES2 | 10,73431 | 7,13E-10 |
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| WNT11 | 10,71032 | 3,06E-10 |
| ATOH8 | 10,69233 | 7,73E-11 |
| DGAT2 | 10,68214 | 3,74E-11 |
| ODAM | 10,67355 | 3,20E-11 |
| CMTM4 | 10,67284 | 3,76E-32 |
| PTPRG-AS1 | 10,67171 | 3,64E-11 |
| MYO1E | 10,65802 | 1,02E-10 |
| ARHGEF35 | 10,65744 | 4,97E-11 |
| DMKN | 10,6544 | 3,61E-11 |
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| CNKS3 | 10,64446 | 4,36E-11 |
| LHX4 | 10,62997 | 1,94E-12 |
| TSPEAR | 10,62884 | 9,10E-11 |
| SPECC1 | 10,62456 | 1,60E-31 |
| TTC12 | 10,62058 | 4,40E-11 |
| RAB36 | 10,6185 | 5,60E-11 |
| TMC5 | 10,60644 | 6,01E-11 |
| LINC00886 | 10,60089 | 2,36E-10 |
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| EFNB3 | 10,59628 | 5,33E-11 |
| TBC1D12 | 10,56878 | 6,15E-11 |
| DUXAP8 | 10,56066 | 6,31E-11 |
| FERMT1 | 10,55087 | 6,79E-11 |
| CPE | 10,54833 | 7,72E-11 |
| EHF | 10,54811 | 1,27E-10 |
| BAMBI | 10,54602 | 4,65E-76 |
| PCDHA10 | 10,54429 | 8,67E-11 |
| SULT2B1 | 10,50616 | 5,98E-12 |
| CELSR1 | 10,50233 | 1,57E-21 |
| FBN2 | 10,48959 | 2,96E-10 |
| P3H2 | 10,48735 | 1,08E-10 |
| LRRC49 | 10,48145 | 1,04E-10 |
| CASC9 | 10,47211 | 1,08E-10 |
| LRIG3 | 10,46339 | 1,42E-10 |
| SHISA9 | 10,45879 | 1,74E-10 |
| WSCD1 | 10,44024 | 1,62E-10 |
| HSPG2 | 10,43908 | 7,64E-12 |
| PAQR5 | 10,43893 | 1,49E-10 |
| CDS1 | 10,43867 | 4,28E-21 |
| MEIS3P1 | 10,43545 | 1,80E-10 |
| SNTB1 | 10,43338 | 3,54E-21 |

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| SLC12A8 | 10,4234 | 1,91E-10 |
| CACNA2D1 | 10,42211 | 1,48E-10 |
| RBPMS | 10,41511 | 6,33E-12 |
| CACHD1 | 10,40505 | 8,32E-10 |
| CHRM1 | 10,39072 | 6,14E-10 |
| MORN4 | 10,3897 | 1,98E-10 |
| HIST3H2A | 10,38683 | 1,82E-10 |
| LMCD1 | 10,38578 | 9,96E-09 |
| HCN4 | 10,36633 | 2,10E-10 |
| HLA-DQB1 | 10,36614 | 7,28E-09 |
| RNF223 | 10,36555 | 2,62E-10 |
| CNTNAP2 | 10,36447 | 2,90E-10 |
| IGFBP3 | 10,35669 | 3,42E-09 |
| ERBB3 | 10,35425 | 1,01E-07 |
| ELOVL2 | 10,35329 | 2,38E-10 |
| HOXC11 | 10,34814 | 3,69E-10 |
| ZNF467 | 10,33957 | 5,96E-30 |
| SPIN3 | 10,33575 | 2,46E-10 |
| NSUN7 | 10,3232 | 2,81E-10 |
| PLD1 | 10,31485 | 3,20E-10 |
| ARHGEF37 | 10,31312 | 3,58E-10 |
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| KRTAP3-1 | 10,29714 | 1,25E-09 |
| BCAS1 | 10,29517 | 2,38E-09 |
| EXD3 | 10,28631 | 5,65E-10 |
| ZNF532 | 10,28442 | 3,37E-10 |
| TFF3 | 10,28278 | 4,37E-10 |
| ZYG11A | 10,28203 | 1,04E-09 |
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| C18orf63 | 10,27563 | 4,93E-10 |
| RERG | 10,26471 | 3,85E-10 |
| OTUB2 | 10,26299 | 3,28E-09 |
| SALL4 | 10,25412 | 7,25E-10 |
| ERVMER34 | 10,24829 | 1,07E-09 |
| NMNAT2 | 10,23804 | 5,72E-10 |
| THAP10 | 10,23432 | 8,67E-10 |
| PXDC1 | 10,2295 | 5,48E-10 |
| FKBP10 | 10,22614 | 2,23E-06 |
| ALDH1A3 | 10,22389 | 1,97E-08 |
| EN2 | 10,21414 | 5,10E-10 |
| UGGT2 | 10,20854 | 5,90E-10 |
| GOLT1A | 10,20203 | 5,73E-10 |
| DUSP9 | 10,1981 | 6,13E-10 |
| LINC00925 | 10,19722 | 6,33E-10 |
| OVOL2 | 10,19675 | 7,71E-09 |
| ERBB4 | 10,18995 | 9,17E-10 |
| MLXIPL | 10,18632 | 9,65E-10 |
| LPIN3 | 10,17608 | 1,46E-19 |
| ZBED9 | 10,17489 | 6,44E-10 |
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| SLC24A3 | 10,1313 | 8,52E-10 |
| ZNF732 | 10,12637 | 1,68E-09 |
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| BLVRB | 10,084 | 2,38E-08 |
| PCDH7 | 10,08396 | 1,29E-09 |
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| ADGRL2 | 10,06371 | 1,46E-09 |
| LYPD1 | 10,05952 | 2,17E-09 |
| SDK1 | 10,05082 | 1,82E-09 |
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| C12orf56 | 10,03844 | 1,58E-09 |
| EPHA6 | 10,02591 | 1,62E-09 |
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| EPHA2 | 10,02037 | 3,87E-09 |
| TEAD4 | 10,01548 | 5,51E-26 |
| ADGRV1 | 10,01533 | 4,29E-09 |
| LGR4 | 10,01466 | 2,15E-09 |
| KCNC3 | 10,00401 | 6,14E-19 |
| ANKRD18B | 10,00212 | 2,15E-09 |
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| SLC26A4-A | 9,998752 | 1,92E-09 |
| ARC | 9,990127 | 2,96E-08 |
| ELF5 | 9,988684 | 1,40E-08 |
| CSTA | 9,985364 | 4,57E-09 |
| MEIS3 | 9,98523 | 7,95E-09 |
| UPK2 | 9,98102 | 3,32E-08 |
| TMEM136 | 9,978068 | 3,02E-09 |
| PRIMA1 | 9,973736 | 9,19E-09 |
| WWTR1 | 9,964371 | 4,82E-19 |
| SAMD4A | 9,960849 | 2,01E-09 |
| NMU | 9,960411 | 3,02E-09 |
| TBX2-AS1 | 9,942289 | 3,96E-09 |
| NCKAP5 | 9,934449 | 3,08E-09 |
| PCSK6 | 9,934409 | 1,08E-37 |
| C19orf33 | 9,931567 | 1,47E-10 |
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| SMAD9 | 9,913277 | 8,03E-08 |
| NRP1 | 9,912312 | 1,68E-77 |
| PNPLA4 | 9,912202 | 3,18E-09 |
| CHST8 | 9,906542 | 3,24E-09 |
| CRIP2 | 9,894457 | 4,26E-64 |
| ZNF311 | 9,893708 | 1,55E-08 |
| CCL2 | 9,889241 | 1,69E-08 |
| HLA-DRB1 | 9,882708 | 1,20E-08 |
| RNF157 | 9,874439 | 4,06E-09 |
| CYP4F11 | 9,873256 | 1,09E-08 |

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| ARHGDIG | 9,869457 | 1,42E-10 |
| GATA6 | 9,863909 | 6,30E-09 |
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| BOK | 9,856444 | 1,54E-10 |
| PARD6G | 9,851041 | 4,50E-09 |
| P4HA2 | 9,848623 | 1,13E-17 |
| LYPD6 | 9,847104 | 4,60E-09 |
| PTGR1 | 9,840801 | 9,52E-09 |
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| WLS | 9,834077 | 8,10E-09 |
| GAD1 | 9,817353 | 2,82E-10 |
| APP | 9,807836 | 2,03E-111 |
| MPP3 | 9,806672 | 5,97E-09 |
| SOWAHC | 9,798947 | 1,04E-08 |
| CARD10 | 9,796063 | 7,52E-09 |
| SLC2A10 | 9,782149 | 7,90E-09 |
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| VIPR1 | 9,777978 | 4,33E-08 |
| TUBA3E | 9,776343 | 1,25E-08 |
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| MAPK4 | 9,768153 | 9,29E-08 |
| PTGFRN | 9,760393 | 1,11E-62 |
| EPHA10 | 9,754373 | 8,04E-09 |
| TRPV4 | 9,753706 | 1,19E-08 |
| GALNT11 | 9,751194 | 7,37E-18 |
| NFATC4 | 9,74593 | 9,43E-09 |
| LINC00960 | 9,745275 | 1,35E-08 |
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| SPATA18 | 9,741312 | 1,28E-07 |
| ENPP5 | 9,732536 | 1,63E-08 |
| C10orf82 | 9,731967 | 1,47E-08 |
| EDA2R | 9,725915 | 2,34E-08 |
| SPATA17 | 9,721145 | 2,96E-10 |
| MUC5B | 9,720102 | 1,02E-08 |
| SEPT10 | 9,712052 | 3,54E-08 |
| FAXC | 9,711466 | 1,09E-08 |
| SPINK5 | 9,710087 | 4,86E-08 |
| CBLC | 9,704723 | 1,31E-08 |
| ICOSLG | 9,702527 | 1,10E-08 |
| TYRP1 | 9,688178 | 1,28E-08 |
| MRAS | 9,682314 | 1,66E-08 |
| ERC2 | 9,675398 | 1,28E-08 |
| LINC00963 | 9,670125 | 6,69E-10 |
| SLITRK4 | 9,662981 | 1,90E-08 |
| SLC47A1 | 9,661977 | 2,09E-08 |
| REPS2 | 9,656906 | 5,20E-08 |
| ALDH1L2 | 9,655257 | 9,17E-07 |
| PLEK2 | 9,654519 | 1,47E-08 |
| LIFR | 9,645031 | 9,04E-10 |
| LSR | 9,641215 | 1,35E-90 |

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| HMOX1 | 9,637589 | 1,40E-08 |
| EML1 | 9,637485 | 1,58E-25 |
| IRX4 | 9,635053 | 3,18E-08 |
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| KRT15 | 9,612484 | 4,66E-07 |
| PRRG1 | 9,609441 | 1,00E-07 |
| PRSS22 | 9,602329 | 3,95E-08 |
| SYTL4 | 9,597391 | 4,13E-08 |
| OPHN1 | 9,596807 | 2,06E-08 |
| LDHD | 9,595454 | 1,36E-07 |
| LINC01116 | 9,587397 | 2,20E-08 |
| TMPRSS2 | 9,585074 | 3,57E-08 |
| ACOT4 | 9,584223 | 2,86E-08 |
| HSBP1L1 | 9,581887 | 6,64E-10 |
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| PLBD1 | 9,569223 | 3,79E-08 |
| SOX2 | 9,557764 | 7,09E-10 |
| FUT9 | 9,555039 | 2,62E-08 |
| RBPMS2 | 9,547515 | 2,90E-08 |
| TENM4 | 9,544322 | 5,00E-08 |
| DDX43 | 9,540774 | 3,72E-08 |
| GNG7 | 9,538906 | 5,10E-08 |
| GPR27 | 9,534525 | 3,62E-08 |
| TEAD3 | 9,534384 | 1,64E-30 |
| NAALADL2 | 9,523916 | 1,26E-09 |
| LPCAT2 | 9,515369 | 4,80E-08 |
| CYP24A1 | 9,514791 | 3,43E-08 |
| RBM24 | 9,512804 | 5,94E-08 |
| ARNTL | 9,506426 | 6,86E-08 |
| NOV | 9,505339 | 2,36E-06 |
| FAM43A | 9,492867 | 1,23E-09 |
| TJP3 | 9,487876 | 7,65E-06 |
| CACNA1H | 9,480785 | 1,94E-31 |
| KLF9 | 9,474374 | 1,56E-07 |
| C2orf54 | 9,473916 | 3,66E-07 |
| PLA2G4F | 9,469557 | 1,55E-06 |
| ALDH3A1 | 9,468089 | 1,11E-06 |
| LOC100506 | 9,463473 | 8,74E-08 |
| MMP16 | 9,460583 | 6,72E-08 |
| NDST1 | 9,45496 | 4,94E-109 |
| PCDHA7 | 9,447899 | 4,99E-08 |
| PRPH | 9,43801 | 7,49E-08 |
| ARHGEF34 | 9,43365 | 6,95E-08 |
| GPX2 | 9,428422 | 7,55E-06 |
| B3GNT4 | 9,424589 | 6,38E-08 |
| SYNPO | 9,422672 | 1,99E-07 |
| HSPA12A | 9,417816 | 7,01E-08 |
| ANKRD18A | 9,403299 | 6,73E-08 |
| FGFR2 | 9,399125 | 6,63E-08 |

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| TC2N | 9,397026 | 3,62E-33 |
| WISP2 | 9,39572 | 3,25E-06 |
| IL1R1 | 9,394927 | 7,53E-07 |
| LYPD6B | 9,386527 | 7,52E-08 |
| TMEM117 | 9,376235 | 7,51E-08 |
| FCGR1A | 9,372466 | 3,93E-07 |
| FAM83H | 9,371955 | 7,22E-128 |
| OGFRL1 | 9,362567 | 2,34E-09 |
| LINC01123 | 9,355445 | 8,68E-08 |
| KCNMA1 | 9,351246 | 2,83E-07 |
| ID4 | 9,346262 | 5,24E-06 |
| CPT1C | 9,34379 | 2,48E-07 |
| EYA2 | 9,342619 | 3,24E-07 |
| PRAME | 9,337414 | 1,08E-08 |
| HOXC-AS3 | 9,334355 | 1,10E-07 |
| SYDE1 | 9,332786 | 1,04E-07 |
| ZNF860 | 9,331874 | 1,44E-07 |
| NUAK2 | 9,32493 | 1,10E-07 |
| LGR6 | 9,31986 | 1,57E-07 |
| FGF | 9,314201 | 1,95E-05 |
| B3GALNT1 | 9,312075 | 5,38E-16 |
| RASD1 | 9,306441 | 3,81E-07 |
| COL4A5 | 9,297688 | 2,35E-07 |
| CDKN1A | 9,288598 | 1,27E-12 |
| CNGB3 | 9,286705 | 1,66E-07 |
| INHA | 9,286589 | 1,02E-05 |
| C1orf116 | 9,286441 | 2,91E-07 |
| SIM2 | 9,281174 | 1,44E-07 |
| GMPR | 9,278086 | 5,30E-07 |
| FAM201A | 9,277934 | 1,34E-07 |
| RIC3 | 9,26876 | 2,36E-07 |
| TGIF1 | 9,265305 | 9,22E-40 |
| TMC7 | 9,259301 | 1,72E-07 |
| TMEM45B | 9,254503 | 5,63E-16 |
| SHH | 9,250075 | 2,35E-07 |
| OSBPL10 | 9,245801 | 8,74E-30 |
| CLDN7 | 9,244643 | 1,56E-14 |
| PCDHB4 | 9,239217 | 6,59E-07 |
| RASSF10 | 9,237769 | 2,67E-07 |
| EFEMP1 | 9,227512 | 2,19E-58 |
| FSTL4 | 9,225357 | 3,06E-07 |
| ZNF703 | 9,214068 | 1,90E-155 |
| DNAH3 | 9,209748 | 2,75E-07 |
| NIPAL1 | 9,209748 | 2,75E-07 |
| PROM2 | 9,204316 | 3,63E-51 |
| MYRIP | 9,203601 | 1,00E-08 |
| SLC25A43 | 9,199208 | 6,42E-29 |
| PPP2R3A | 9,19829 | 9,63E-22 |
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| NRG3 | 9,197784 | 3,31E-07 |

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| EFNA5 | 9,192112 | 5,32E-09 |
| UNC5B | 9,191521 | 9,54E-08 |
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| TUB | 9,180463 | 2,35E-07 |
| L1CAM | 9,179532 | 5,32E-21 |
| THBD | 9,174525 | 2,94E-07 |
| CDC42BPB | 9,173263 | 1,65E-110 |
| CHGA | 9,162987 | 6,29E-09 |
| TNFRSF11A | 9,162612 | 2,89E-07 |
| C1orf210 | 9,150645 | 4,61E-07 |
| MMP17 | 9,145194 | 1,63E-15 |
| FZD9 | 9,14488 | 4,06E-07 |
| COL6A1 | 9,140321 | 1,15E-15 |
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| GSG1L | 9,135606 | 3,28E-07 |
| TRPV3 | 9,13382 | 3,07E-07 |
| PGM5 | 9,120861 | 4,74E-07 |
| ADAMTS9 | 9,119237 | 2,07E-06 |
| IGSF5 | 9,117577 | 3,91E-07 |
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| RAB31 | 9,110813 | 2,35E-08 |
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| MARC2 | 9,107719 | 3,81E-07 |
| CLDN23 | 9,096712 | 3,79E-07 |
| COL6A2 | 9,093521 | 9,60E-09 |
| SOWAHB | 9,083742 | 4,89E-07 |
| GRIK3 | 9,078372 | 1,76E-06 |
| TEKT4P2 | 9,075179 | 4,27E-07 |
| FEZ1 | 9,07365 | 6,25E-07 |
| MAOB | 9,063665 | 1,49E-06 |
| SP6 | 9,062704 | 2,06E-08 |
| HOXC13-AS1 | 9,060495 | 6,07E-07 |
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| AGR2 | 9,035703 | 7,51E-06 |
| INTU | 9,023778 | 5,71E-07 |
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| NHLRC1 | 9,015111 | 1,69E-06 |
| RADIL | 9,013523 | 2,07E-06 |
| KIAA1522 | 9,010672 | 4,59E-108 |
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| PCDHB3 | 9,001015 | 6,24E-21 |
| DLC1 | 8,997454 | 6,94E-15 |
| CALCR | 8,994436 | 9,35E-07 |
| FBXO16 | 8,991252 | 7,89E-07 |
| LOC100286 | 8,991252 | 7,89E-07 |

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| SNCAIP | 8,986079 | 7,09E-07 |
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| JAM2 | 8,950815 | 3,96E-06 |
| CAV2 | 8,942861 | 9,46E-07 |
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| CDC42EP5 | 8,940405 | 9,35E-07 |
| PPARG | 8,939611 | 1,31E-06 |
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| CD24 | 8,905695 | 1,21E-138 |
| DSCAM | 8,89586 | 2,63E-06 |
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| A4GALT | 8,878141 | 4,96E-06 |
| STMND1 | 8,876595 | 1,39E-06 |
| PPAP2C | 8,876382 | 1,69E-20 |
| SLC25A21-1 | 8,871538 | 1,39E-05 |
| PRICKLE2-1 | 8,867539 | 1,52E-06 |
| FAM86B1 | 8,856665 | 5,71E-08 |
| TACC2 | 8,856308 | 1,01E-06 |
| SEMA3D | 8,855277 | 4,29E-06 |
| CLIC3 | 8,853699 | 2,08E-06 |
| ADCY6 | 8,852147 | 7,62E-26 |
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| CCDC83 | 8,83172 | 2,47E-06 |
| KCNN2 | 8,828581 | 1,72E-06 |
| PCOLCE2 | 8,825478 | 1,85E-06 |
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| LHX2 | 8,820543 | 2,49E-06 |
| MUC3A | 8,812944 | 2,42E-06 |
| C4orf19 | 8,810284 | 2,19E-06 |
| TRIP6 | 8,808076 | 8,46E-113 |
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| MTMR7 | 8,796727 | 2,06E-06 |

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| TRNP1 | 8,791723 | 2,18E-06 |
| PARD3B | 8,79041 | 5,34E-08 |
| PDGFB | 8,766109 | 6,36E-14 |
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| EPN2 | 8,762468 | 4,28E-26 |
| ZNF503-AS | 8,757654 | 3,08E-06 |
| EPS8 | 8,75075 | 3,70E-42 |
| KIF5C | 8,750186 | 3,53E-06 |
| LOC728735 | 8,744518 | 3,03E-06 |
| CARD14 | 8,743156 | 4,25E-06 |
| WDFY3-AS1 | 8,740783 | 3,67E-06 |
| KRT17 | 8,736977 | 3,07E-07 |
| HOXB9 | 8,729938 | 4,67E-05 |
| GFPT2 | 8,716988 | 3,31E-06 |
| FAM81B | 8,712684 | 4,23E-06 |
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| MEST | 8,707189 | 8,11E-104 |
| LOC90768 | 8,706867 | 3,81E-06 |
| FCHO2 | 8,706084 | 7,48E-08 |
| MBP | 8,704926 | 4,24E-06 |
| TFAP2A-AS | 8,69864 | 3,80E-06 |
| EFNA2 | 8,693295 | 3,59E-06 |
| SCIN | 8,689954 | 7,42E-06 |
| ZIC4 | 8,686948 | 3,76E-06 |
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| PDZRN3 | 8,673666 | 4,00E-06 |
| PTPRO | 8,673197 | 2,41E-13 |
| VAX2 | 8,672196 | 4,67E-06 |
| PCDH19 | 8,669773 | 7,63E-06 |
| KRT80 | 8,666322 | 6,28E-74 |
| HOTAIR | 8,662255 | 4,39E-06 |
| CERS1 | 8,656126 | 1,38E-05 |
| SGPP2 | 8,655797 | 6,00E-06 |
| LINC01006 | 8,651254 | 4,82E-06 |
| FANK1 | 8,64895 | 2,15E-05 |
| ANK1 | 8,646109 | 6,46E-05 |
| SNAP25 | 8,644236 | 5,79E-06 |
| PDGFRL | 8,644236 | 5,79E-06 |
| EPHA4 | 8,641264 | 9,62E-06 |
| FAM20C | 8,632669 | 3,01E-13 |
| C5AR2 | 8,632282 | 3,69E-12 |
| SYBU | 8,623389 | 2,01E-07 |
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| EGR2 | 8,616319 | 7,94E-05 |
| PPP1R26-A | 8,610457 | 1,23E-05 |
| RAI2 | 8,598675 | 9,91E-06 |
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| CYB561 | 8,584943 | 3,66E-78 |

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| LAMB2 | 8,583275 | 2,03E-38 |
| CEBPA-AS1 | 8,582337 | 1,18E-05 |
| SHC2 | 8,579669 | 1,51E-05 |
| TTC29 | 8,579243 | 6,90E-06 |
| TOM1L1 | 8,565347 | 1,34E-05 |
| PDGFC | 8,565209 | 7,38E-07 |
| FAM131C | 8,563859 | 7,25E-06 |
| LNX1 | 8,560405 | 5,36E-05 |
| GSTO2 | 8,558007 | 3,92E-24 |
| HLA-DRB5 | 8,555878 | 1,12E-05 |
| SPATA6 | 8,552025 | 1,31E-05 |
| FBXL2 | 8,549399 | 8,39E-06 |
| PAX2 | 8,544433 | 0,000147 |
| SLC22A11 | 8,544158 | 2,81E-05 |
| ASCL5 | 8,543456 | 8,03E-06 |
| IFNLR1 | 8,542915 | 8,08E-06 |
| BMP8B | 8,541831 | 8,24E-06 |
| PVALB | 8,540857 | 2,02E-05 |
| XKRX | 8,537012 | 1,47E-05 |
| NMUR2 | 8,536412 | 8,49E-06 |
| RMDN2 | 8,531509 | 8,67E-06 |
| MPP2 | 8,5301 | 4,01E-07 |
| FAM95C | 8,527147 | 9,17E-06 |
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| GUCY1B2 | 8,525365 | 2,54E-05 |
| KIAA1324 | 8,516142 | 2,18E-26 |
| BMP2 | 8,507046 | 1,19E-32 |
| CRIM1 | 8,502482 | 2,53E-07 |
| MATK | 8,502236 | 2,43E-65 |
| SOX18 | 8,500091 | 1,02E-05 |
| KCNQ1OT1 | 8,487938 | 6,01E-07 |
| SNAR-E | 8,485441 | 2,33E-05 |
| GATA5 | 8,484959 | 1,21E-05 |
| ARHGEF16 | 8,481703 | 6,57E-28 |
| STOX2 | 8,47876 | 1,13E-05 |
| CREB5 | 8,471553 | 0,00015 |
| IGFL1 | 8,469042 | 0,000304 |
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| GJA1 | 8,467182 | 5,58E-05 |
| WIF1 | 8,466014 | 6,50E-05 |
| NECAB2 | 8,462737 | 2,81E-05 |
| SERPINA3 | 8,462346 | 2,52E-05 |
| NODAL | 8,459452 | 2,04E-05 |
| RIPPLY3 | 8,453078 | 1,37E-05 |
| LOC102723 | 8,451924 | 1,43E-05 |
| PLEKHG6 | 8,45025 | 9,55E-12 |
| CD101 | 8,443863 | 1,70E-05 |
| CRABP2 | 8,439823 | 5,32E-64 |
| SLC6A14 | 8,439788 | 1,48E-05 |

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| RIN2 | 8,43575 | 2,14E-05 |
| MAP2 | 8,433039 | 3,76E-07 |
| CLCA2 | 8,430824 | 0,000162 |
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| NOL3 | 8,408406 | 2,24E-37 |
| UPK3B | 8,401734 | 7,99E-05 |
| HOXD12 | 8,38729 | 6,33E-05 |
| GPR37L1 | 8,384722 | 2,17E-05 |
| LOX | 8,383492 | 2,02E-05 |
| JPH3 | 8,379678 | 3,47E-07 |
| SMPDL3A | 8,378098 | 2,98E-05 |
| HOXA5 | 8,376797 | 2,87E-05 |
| FOXA2 | 8,376231 | 1,94E-05 |
| HS6ST3 | 8,370135 | 2,28E-05 |
| MAPK15 | 8,360264 | 4,41E-05 |
| DNAH5 | 8,35912 | 2,34E-05 |
| F7 | 8,355261 | 7,33E-05 |
| NELL2 | 8,352928 | 3,26E-05 |
| GRB7 | 8,352306 | 3,40E-05 |
| RHPN2 | 8,352034 | 4,91E-22 |
| LINC01124 | 8,341158 | 3,40E-05 |
| PAH | 8,33748 | 2,86E-05 |
| HLA-F | 8,333804 | 5,01E-05 |
| SLC52A3 | 8,329374 | 3,69E-05 |
| DNAJC22 | 8,329009 | 4,44E-07 |
| LRRK1 | 8,326845 | 3,24E-05 |
| HOXC6 | 8,32495 | 3,00E-05 |
| ALDH3B2 | 8,311479 | 0,000107 |
| STOM | 8,308738 | 3,78E-26 |
| TBC1D8B | 8,307921 | 5,20E-05 |
| AMBP | 8,304242 | 0,000126 |
| MAMLD1 | 8,303715 | 1,12E-06 |
| LOC389834 | 8,302399 | 5,05E-07 |
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| EPHB4 | 8,294463 | 1,08E-186 |
| ESRP2 | 8,289146 | 3,74E-60 |
| PART1 | 8,287342 | 3,58E-05 |
| SHTN1 | 8,286086 | 4,16E-73 |
| NKX6-1 | 8,284728 | 3,50E-05 |
| ADAP2 | 8,284099 | 3,27E-05 |
| NCAM2 | 8,282747 | 1,93E-20 |
| DNM1P35 | 8,277144 | 0,000118 |
| DGCR5 | 8,272384 | 3,68E-05 |
| NACC2 | 8,258752 | 8,57E-05 |
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| TRPM4 | 8,256062 | 1,98E-36 |
| NPAS3 | 8,253297 | 5,55E-05 |

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| CCDC110 | 8,250622 | 6,76E-05 |
| ACTG2 | 8,247106 | 5,17E-06 |
| WFDC2 | 8,242793 | 6,52E-05 |
| GPR39 | 8,23943 | 5,37E-05 |
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| SEMA4C | 8,226937 | 3,78E-66 |
| FOXI3 | 8,220589 | 4,63E-05 |
| RHOV | 8,216209 | 2,76E-21 |
| MANSC4 | 8,215138 | 2,36E-05 |
| POU6F2 | 8,20766 | 5,07E-05 |
| SHANK2 | 8,20514 | 4,93E-06 |
| GRID1 | 8,204916 | 5,72E-05 |
| KCNN1 | 8,202949 | 7,86E-05 |
| CPLX2 | 8,199681 | 0,0002 |
| ANKS1B | 8,199391 | 8,09E-05 |
| AMOTL2 | 8,198659 | 1,25E-39 |
| COLCA1 | 8,195348 | 5,49E-05 |
| HOXA6 | 8,183055 | 0,000157 |
| CDH18 | 8,179399 | 6,15E-05 |
| GHR | 8,17733 | 5,36E-05 |
| MARVELD2 | 8,171575 | 3,24E-35 |
| PRDM6 | 8,156443 | 1,20E-06 |
| NOXA1 | 8,154725 | 0,000139 |
| KCNJ3 | 8,145379 | 1,68E-06 |
| ZP3 | 8,144747 | 0,000118 |
| ADAM32 | 8,141215 | 0,000146 |
| RNF180 | 8,134854 | 8,93E-05 |
| SLIT2 | 8,133456 | 6,50E-05 |
| ZFH3 | 8,127191 | 1,83E-84 |
| TGFB1 | 8,125667 | 0,000176 |
| CLDN9 | 8,118336 | 0,000106 |
| NFIA | 8,117538 | 6,17E-20 |
| SEMA6A | 8,114238 | 2,45E-11 |
| SLC52A1 | 8,111883 | 0,000195 |
| MGC32805 | 8,111142 | 0,000184 |
| TUBA3D | 8,10476 | 2,35E-06 |
| KRT16 | 8,098716 | 0,000233 |
| PDE2A | 8,086626 | 0,000164 |
| RAB6B | 8,081451 | 2,03E-06 |
| TBC1D30 | 8,080921 | 3,20E-69 |
| GULP1 | 8,080781 | 8,87E-05 |
| KIF26B | 8,080034 | 8,77E-05 |
| RIBC2 | 8,07981 | 0,00031 |
| LPPR3 | 8,079047 | 0,000339 |
| RIMS4 | 8,076834 | 3,37E-14 |
| TH | 8,074848 | 0,000129 |
| NYNRIN | 8,068065 | 2,62E-08 |
| ADAMTS7 | 8,067639 | 5,65E-10 |
| LIMCH1 | 8,064377 | 0,000179 |
| ADAMTSL3 | 8,064253 | 0,000121 |

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| SNCB | 8,059268 | 0,000455 |
| CCDC40 | 8,055846 | 0,000216 |
| CCDC3 | 8,051422 | 0,000103 |
| TMEM105 | 8,045367 | 0,00015 |
| LOC100270 | 8,044597 | 0,000144 |
| GFRA1 | 8,032619 | 1,02E-46 |
| SAMHD1 | 8,030861 | 7,21E-10 |
| SASH1 | 8,025341 | 0,00013 |
| EMCN | 8,023008 | 0,000122 |
| PDZD4 | 8,021273 | 9,63E-11 |
| PCDHAC1 | 8,017631 | 0,000198 |
| EWSAT1 | 8,015935 | 0,000186 |
| CKMT1B | 8,015226 | 9,29E-06 |
| HOPX | 8,009938 | 0,000376 |
| GSC | 8,0088 | 0,000328 |
| KCNF1 | 8,007382 | 0,00014 |
| BOC | 8,004265 | 0,000124 |
| PKD1L2 | 8,000326 | 0,000123 |
| SFN | 7,995855 | 3,45E-60 |
| GOLGA7B | 7,994768 | 2,19E-12 |
| PRKAG2 | 7,988609 | 1,20E-26 |
| NXPH3 | 7,98373 | 0,000194 |
| ZDHHC1 | 7,979715 | 0,000164 |
| GNAS-AS1 | 7,973289 | 0,000143 |
| ACCS | 7,970005 | 0,000228 |
| KRTAP4-1 | 7,96851 | 0,000213 |
| KCNU1 | 7,963609 | 0,000159 |
| MARCH1 | 7,959274 | 4,33E-06 |
| CALB2 | 7,957237 | 0,000298 |
| LOC730102 | 7,945065 | 0,000423 |
| BCAM | 7,938679 | 1,82E-59 |
| EGR1 | 7,936272 | 2,11E-07 |
| CYP4F22 | 7,932598 | 0,000208 |
| BACE2 | 7,930568 | 1,30E-47 |
| CCSER1 | 7,928417 | 0,000207 |
| CALML5 | 7,921022 | 0,000273 |
| SGCG | 7,918348 | 0,000376 |
| GJB5 | 7,916192 | 0,000678 |
| ADORA1 | 7,913467 | 0,000206 |
| NRK | 7,91278 | 0,000498 |
| PRKD1 | 7,910912 | 0,000236 |
| TLX1NB | 7,904218 | 0,000193 |
| HOXC9 | 7,895782 | 0,000216 |
| NRCAM | 7,885644 | 8,37E-26 |
| OLFML3 | 7,882212 | 4,66E-05 |
| CD36 | 7,873658 | 0,000388 |
| HOXA1 | 7,871919 | 0,000353 |
| NDNF | 7,870992 | 0,000225 |
| CLDN1 | 7,867622 | 5,96E-05 |
| TTC6 | 7,865802 | 0,000249 |

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| KLB | 7,865802 | 0,000249 |
| IER5L | 7,865423 | 8,43E-08 |
| SSPN | 7,864097 | 0,000261 |
| C8orf48 | 7,863228 | 0,000256 |
| LOC101925 | 7,862325 | 0,000281 |
| ARHGEF38 | 7,861453 | 0,000292 |
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| KIF12 | 7,851028 | 0,000255 |
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| NR2F1-AS1 | 7,841392 | 0,000259 |
| TGFA | 7,836938 | 1,86E-09 |
| DEFB126 | 7,836099 | 0,000265 |
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| DHX32 | 7,829272 | 7,50E-43 |
| RHBDF2 | 7,819571 | 3,12E-40 |
| SNAR-G1 | 7,814779 | 0,000351 |
| OXGR1 | 7,809334 | 0,000377 |
| SPINT1 | 7,807703 | 6,95E-101 |
| CDC42EP4 | 7,805983 | 6,39E-05 |
| THRB | 7,803961 | 0,000301 |
| HOXA11 | 7,797447 | 0,000824 |
| KDR | 7,794008 | 0,000349 |
| TM4SF1 | 7,793096 | 0,000342 |
| NPTX1 | 7,789564 | 0,000673 |
| SEL1L3 | 7,787998 | 0,000459 |
| LINC00992 | 7,787687 | 7,25E-06 |
| CELF3 | 7,782172 | 0,000454 |
| FRK | 7,772142 | 0,000758 |
| MAP3K13 | 7,766907 | 3,85E-20 |
| FZD3 | 7,753876 | 2,70E-28 |
| NKILA | 7,746868 | 0,000393 |
| WNT9A | 7,745976 | 0,000534 |
| IBSP | 7,745927 | 0,000399 |
| TNFRSF12A | 7,737806 | 8,97E-46 |
| ZNF204P | 7,735734 | 8,95E-06 |
| COL26A1 | 7,735693 | 0,000899 |
| SLC5A5 | 7,73281 | 0,000754 |
| GRID2IP | 7,732714 | 0,00041 |
| SLCO5A1 | 7,723217 | 0,000501 |
| FOXP2 | 7,716344 | 1,30E-05 |
| CEACAM5 | 7,714683 | 0,000842 |
| DAPK2 | 7,702009 | 0,000568 |
| SETBP1 | 7,696138 | 0,000756 |
| NAP1L2 | 7,693368 | 0,000802 |
| C19orf45 | 7,693289 | 0,000486 |
| CNTNAP3 | 7,690358 | 0,000503 |
| ZNF516 | 7,689317 | 7,96E-23 |
| PLIN5 | 7,684507 | 0,000575 |
| CA4 | 7,683483 | 0,000606 |
| GSN | 7,681015 | 0,000312 |

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| SYCP2 | 7,675543 | 0,000898 |
| CACNA1I | 7,675543 | 0,000898 |
| LFNG | 7,672021 | 3,33E-16 |
| SAMD12-A | 7,665753 | 0,000633 |
| CACNA1D | 7,663389 | 3,69E-17 |
| TDRD5 | 7,655623 | 7,79E-13 |
| TRIO | 7,649953 | 3,13E-63 |
| TUFT1 | 7,649351 | 2,38E-45 |
| LMNA | 7,644569 | 1,27E-90 |
| RASGEF1A | 7,641693 | 4,94E-22 |
| HAP1 | 7,633651 | 0,000966 |
| HOXC4 | 7,629503 | 0,00068 |
| SEMA3F | 7,626931 | 1,42E-50 |
| COL3A1 | 7,611104 | 0,000945 |
| ARHGEF17 | 7,597573 | 3,48E-22 |
| SIX1 | 7,593567 | 9,37E-20 |
| C8orf46 | 7,591308 | 0,000772 |
| SYNE4 | 7,581167 | 9,93E-44 |
| MIR4664 | 7,576593 | 0,000794 |
| RNF207 | 7,575535 | 0,000796 |
| FGF12 | 7,56619 | 2,65E-15 |
| NGFR | 7,562799 | 0,000913 |
| STBD1 | 7,561729 | 0,000898 |
| CXCL12 | 7,560836 | 2,06E-09 |
| ZNF793-AS | 7,556371 | 0,000863 |
| ANKDD1B | 7,548839 | 0,000933 |
| LHX6 | 7,548839 | 0,000933 |
| CDC14B | 7,544706 | 1,47E-12 |
| TMEM150C | 7,537981 | 0,000228 |
| RHOBTB1 | 7,537732 | 5,00E-163 |
| SERPINB5 | 7,521011 | 0,000168 |
| CDK14 | 7,515214 | 3,28E-05 |
| TLCD1 | 7,510149 | 2,30E-52 |
| TNFAIP8L3 | 7,500546 | 1,82E-24 |
| LOC28333E | 7,489581 | 6,93E-20 |
| FLT4 | 7,488181 | 6,12E-05 |
| ADGRB1 | 7,486807 | 0,000102 |
| ELOVL7 | 7,47681 | 0,00054 |
| MALRD1 | 7,47604 | 2,96E-08 |
| RNF43 | 7,457199 | 2,16E-113 |
| NTN4 | 7,456175 | 3,86E-05 |
| GSTM3 | 7,455986 | 2,32E-31 |
| TSPAN12 | 7,451261 | 5,83E-12 |
| DENND5A | 7,443239 | 0,000192 |
| WWC1 | 7,437486 | 1,48E-68 |
| CXCL16 | 7,435329 | 1,43E-20 |
| RIPK4 | 7,42293 | 4,15E-12 |
| MARK1 | 7,416309 | 0,000164 |
| ATXN1 | 7,409406 | 2,81E-18 |
| RND3 | 7,408705 | 2,54E-38 |

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| GUCY1A3 | 7,402359 | 1,63E-19 |
| BCAS4 | 7,400253 | 5,32E-21 |
| SELM | 7,395917 | 3,89E-05 |
| MYO10 | 7,395312 | 1,52E-59 |
| PCSK9 | 7,392746 | 2,69E-07 |
| LENG9 | 7,388493 | 3,38E-28 |
| LMX1B | 7,388031 | 3,86E-15 |
| CABYR | 7,37879 | 2,15E-13 |
| PRTG | 7,370904 | 4,39E-05 |
| SLC6A8 | 7,352812 | 4,39E-27 |
| PRRG4 | 7,319279 | 8,00E-05 |
| ID1 | 7,30414 | 3,65E-53 |
| C1QTNF9B | 7,303048 | 2,06E-16 |
| NUP210L | 7,302089 | 2,68E-19 |
| TTC39A | 7,280854 | 2,47E-20 |
| DHRS2 | 7,277364 | 8,37E-29 |
| GPAT3 | 7,271041 | 2,35E-07 |
| SCN4A | 7,258994 | 2,42E-13 |
| FKBP9 | 7,245274 | 1,13E-96 |
| STARD10 | 7,220011 | 5,20E-76 |
| C16orf74 | 7,219817 | 2,55E-08 |
| RAB20 | 7,212022 | 5,06E-07 |
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| TLCD2 | 7,195037 | 7,75E-14 |
| WNT6 | 7,190415 | 9,42E-05 |
| LOXL3 | 7,189319 | 4,44E-15 |
| ATP8B1 | 7,185617 | 1,52E-48 |
| POU3F3 | 7,154774 | 2,91E-07 |
| F2RL1 | 7,151771 | 6,60E-13 |
| NRARP | 7,144869 | 1,45E-24 |
| CEBPA | 7,141171 | 1,58E-24 |
| SLC9A3R2 | 7,120234 | 1,11E-70 |
| TPBG | 7,118258 | 3,49E-82 |
| COL16A1 | 7,100097 | 0,000184 |
| CDYL2 | 7,095874 | 2,03E-13 |
| CKMT1A | 7,084098 | 7,43E-29 |
| ZBTB7B | 7,084083 | 1,23E-100 |
| APBB2 | 7,0813 | 4,75E-31 |
| SH3BGR2 | 7,072847 | 5,60E-12 |
| SEMA3B | 7,059212 | 0,000184 |
| CMBL | 7,055353 | 5,33E-31 |
| VPS37D | 7,045693 | 5,28E-07 |
| CRISPLD2 | 7,018965 | 8,13E-16 |
| KLRG2 | 7,01024 | 1,67E-07 |
| RAMP1 | 7,001266 | 0,000258 |
| METRNL | 6,999214 | 5,08E-33 |
| CD9 | 6,999183 | 3,98E-103 |
| C17orf104 | 6,988694 | 2,66E-06 |
| LONRF2 | 6,982516 | 4,75E-21 |
| TNNT1 | 6,979775 | 6,05E-101 |

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| EPB41L1 | 6,977228 | 6,54E-65 |
| YAP1 | 6,960978 | 1,12E-38 |
| ENTPD1 | 6,95014 | 9,10E-16 |
| KSR2 | 6,946923 | 7,24E-10 |
| KIAA1217 | 6,942007 | 1,83E-27 |
| ASCL4 | 6,916132 | 2,54E-20 |
| SIRPA | 6,913195 | 6,04E-07 |
| TBC1D9 | 6,910064 | 4,39E-87 |
| PKIB | 6,884629 | 1,12E-64 |
| PHLDA3 | 6,884185 | 3,26E-28 |
| PHLDA1 | 6,879018 | 3,83E-47 |
| KDELR3 | 6,876037 | 1,40E-15 |
| MACC1 | 6,865558 | 2,38E-08 |
| TRIL | 6,856845 | 0,000494 |
| HBA1 | 6,849316 | 1,58E-06 |
| RPP25 | 6,846583 | 1,12E-50 |
| LGALS3 | 6,823482 | 2,73E-10 |
| HMCN1 | 6,816422 | 0,000423 |
| GAS2L3 | 6,811516 | 7,49E-43 |
| FHDC1 | 6,797715 | 1,43E-18 |
| SPATA20 | 6,782822 | 3,32E-54 |
| HID1 | 6,782585 | 1,46E-53 |
| JUP | 6,77629 | 3,39E-65 |
| PCDHB2 | 6,766082 | 3,51E-27 |
| SCML1 | 6,762626 | 2,92E-13 |
| CCDC122 | 6,761286 | 3,07E-17 |
| LRRC73 | 6,760096 | 9,36E-09 |
| LATS2 | 6,750773 | 5,03E-18 |
| SEMA6B | 6,745008 | 6,97E-19 |
| MSRB3 | 6,743805 | 0,000585 |
| EPCAM | 6,73978 | 5,53E-161 |
| ARVCF | 6,733789 | 5,30E-37 |
| CRABP1 | 6,730786 | 9,04E-06 |
| ZFP2 | 6,724162 | 0,000909 |
| LACC1 | 6,714883 | 2,06E-09 |
| SLC8A1 | 6,712639 | 2,14E-12 |
| IL17RB | 6,707815 | 3,58E-10 |
| PVRL2 | 6,706077 | 2,32E-58 |
| B4GALNT4 | 6,695691 | 5,23E-29 |
| SLC4A3 | 6,692303 | 3,03E-06 |
| FBXO44 | 6,688162 | 8,39E-17 |
| NAT8L | 6,677343 | 2,17E-34 |
| FBXO17 | 6,677318 | 5,97E-27 |
| TNFRSF18 | 6,675123 | 3,44E-05 |
| AMZ1 | 6,671113 | 8,02E-06 |
| NIPAL2 | 6,663191 | 4,19E-17 |
| RAI14 | 6,661359 | 6,31E-24 |
| COBL | 6,655265 | 7,16E-23 |
| CAMSAP2 | 6,653902 | 2,45E-84 |
| TMEM163 | 6,647421 | 5,98E-06 |

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| SYT7 | 6,644507 | 1,26E-91 |
| MUC1 | 6,615409 | 2,77E-31 |
| LAMA3 | 6,615188 | 7,87E-16 |
| DRAM1 | 6,585507 | 5,64E-21 |
| GPSM1 | 6,575564 | 1,97E-34 |
| F12 | 6,565561 | 2,78E-87 |
| PLOD1 | 6,555994 | 5,27E-65 |
| SH3BP4 | 6,554959 | 2,42E-50 |
| GLIS2 | 6,550655 | 1,05E-25 |
| SH3PXD2B | 6,550199 | 6,28E-37 |
| FLVCR2 | 6,528785 | 5,65E-10 |
| S100P | 6,514162 | 9,83E-06 |
| IL17RD | 6,512224 | 2,88E-15 |
| ACE | 6,510111 | 1,88E-05 |
| MAFB | 6,508823 | 1,27E-23 |
| CEBPD | 6,49057 | 3,65E-15 |
| CIART | 6,473362 | 9,46E-28 |
| MAP3K5 | 6,469615 | 8,05E-07 |
| PC | 6,462552 | 8,80E-05 |
| MYO5C | 6,460699 | 1,63E-85 |
| RIPK2 | 6,455259 | 3,41E-72 |
| ZFYVE28 | 6,450405 | 7,16E-15 |
| SLC35D2 | 6,446034 | 1,72E-18 |
| PCDHA12 | 6,445333 | 1,65E-11 |
| NRXN3 | 6,436383 | 1,10E-09 |
| GPNMB | 6,434627 | 3,15E-22 |
| AHNAK2 | 6,433655 | 1,34E-14 |
| LGALSL | 6,430943 | 6,82E-15 |
| AHNAK | 6,430734 | 1,11E-78 |
| DUSP8 | 6,427596 | 2,52E-20 |
| UST | 6,425901 | 5,46E-11 |
| CHST15 | 6,401798 | 5,98E-59 |
| PREX1 | 6,390321 | 1,76E-70 |
| ERBB2 | 6,359575 | 3,20E-40 |
| FOXC1 | 6,357343 | 2,89E-19 |
| CTSF | 6,345889 | 2,15E-09 |
| DEPTOR | 6,342537 | 1,15E-06 |
| RDH16 | 6,338374 | 2,35E-21 |
| KIAA1324L | 6,337934 | 9,28E-50 |
| GALNT14 | 6,33013 | 7,07E-23 |
| TMPRSS13 | 6,326284 | 1,32E-19 |
| FAM171B | 6,321828 | 5,21E-33 |
| LARP6 | 6,310799 | 3,20E-10 |
| TIMP3 | 6,292722 | 4,52E-09 |
| ABLIM3 | 6,291073 | 4,67E-05 |
| SORBS1 | 6,290603 | 3,91E-05 |
| MPZL2 | 6,289825 | 3,55E-14 |
| SESN3 | 6,282493 | 3,33E-16 |
| SMAD7 | 6,280564 | 6,71E-27 |
| LCA5L | 6,270394 | 1,69E-06 |

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| KLC3 | 6,266232 | 8,62E-07 |
| ZNRF3 | 6,261816 | 5,15E-120 |
| CEP170B | 6,259462 | 1,29E-90 |
| P3H4 | 6,256097 | 7,57E-69 |
| CCL5 | 6,254285 | 4,10E-06 |
| MAPRE3 | 6,251359 | 1,38E-07 |
| NGEF | 6,25114 | 6,27E-05 |
| KRT81 | 6,232982 | 1,91E-10 |
| ECHDC3 | 6,223682 | 3,95E-08 |
| ENAH | 6,215435 | 5,09E-95 |
| NKD1 | 6,199221 | 8,90E-60 |
| RSPH1 | 6,196258 | 5,93E-06 |
| WNT10B | 6,182504 | 6,05E-09 |
| TEX40 | 6,182214 | 7,38E-05 |
| VDR | 6,170114 | 6,32E-27 |
| TRIM16L | 6,158395 | 5,85E-29 |
| MYO1D | 6,145478 | 4,11E-53 |
| HECW2 | 6,145254 | 5,83E-15 |
| ZNF165 | 6,135403 | 1,10E-38 |
| ARSD | 6,132022 | 2,70E-31 |
| ADCY1 | 6,131118 | 6,58E-34 |
| SEPT11 | 6,129103 | 2,07E-73 |
| PTK6 | 6,125417 | 1,01E-08 |
| SLC27A3 | 6,118043 | 2,19E-24 |
| GRIP1 | 6,113621 | 5,22E-15 |
| CHDH | 6,113203 | 1,07E-15 |
| FAM81A | 6,093641 | 4,90E-09 |
| SDSL | 6,078039 | 7,05E-24 |
| PODXL2 | 6,064673 | 3,19E-75 |
| TSPAN15 | 6,057417 | 4,95E-25 |
| S100A13 | 6,056839 | 4,40E-43 |
| MTERF2 | 6,045533 | 4,96E-11 |
| NSMF | 6,028024 | 1,86E-41 |
| TRPM2-AS | 6,021218 | 0,000182 |
| DLX1 | 6,020962 | 3,51E-07 |
| C15orf65 | 6,011457 | 3,77E-07 |
| IFI27 | 6,007341 | 1,40E-06 |
| NOTUM | 5,973145 | 3,73E-16 |
| RARG | 5,97227 | 2,53E-49 |
| GJA3 | 5,970164 | 1,82E-08 |
| ALDH3B1 | 5,954325 | 7,64E-05 |
| GREB1 | 5,945723 | 1,49E-74 |
| PRRG2 | 5,945635 | 2,84E-09 |
| ARRDC4 | 5,945164 | 5,90E-21 |
| DBNDD1 | 5,933075 | 4,09E-55 |
| CDR2L | 5,926917 | 2,72E-31 |
| ROR1 | 5,921756 | 0,000339 |
| SUOX | 5,919421 | 1,62E-15 |
| RNF144B | 5,918612 | 5,75E-07 |
| FAM160A1 | 5,912449 | 2,80E-06 |

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| HPSE | 5,909054 | 1,24E-06 |
| MAPT | 5,903376 | 1,29E-36 |
| SIAE | 5,90255 | 3,13E-38 |
| PLXDC2 | 5,90081 | 7,26E-30 |
| ABCB6 | 5,898977 | 4,55E-05 |
| NTN1 | 5,896537 | 5,81E-12 |
| RASGRF1 | 5,883801 | 8,66E-25 |
| C2CD4D | 5,882519 | 0,000171 |
| HSD3B7 | 5,877595 | 1,47E-35 |
| RAB17 | 5,868842 | 1,41E-16 |
| EPB41L4B | 5,865707 | 9,14E-37 |
| PTPN21 | 5,864551 | 2,51E-20 |
| HS6ST2 | 5,863165 | 4,92E-35 |
| PRKCZ | 5,862807 | 2,76E-38 |
| FIRRE | 5,858313 | 1,77E-06 |
| RGS6 | 5,858275 | 4,13E-07 |
| DPYSL4 | 5,852453 | 1,00E-12 |
| COL1A1 | 5,849883 | 3,31E-14 |
| SETD6 | 5,84628 | 1,17E-20 |
| KLF5 | 5,845149 | 6,79E-68 |
| SHOX2 | 5,828622 | 3,11E-06 |
| ZNF433 | 5,824231 | 2,72E-10 |
| N4BP3 | 5,814577 | 2,41E-29 |
| C14orf37 | 5,813523 | 3,15E-05 |
| SCARF2 | 5,813482 | 0,000524 |
| NQO1 | 5,813267 | 8,54E-27 |
| SDC3 | 5,812428 | 4,97E-30 |
| C6orf132 | 5,81163 | 1,11E-40 |
| LTBP4 | 5,792632 | 1,82E-36 |
| LOC101925 | 5,788182 | 5,53E-07 |
| C10orf35 | 5,781497 | 8,23E-12 |
| MYRFL | 5,77994 | 0,000729 |
| ITGA2B | 5,776085 | 3,65E-07 |
| FLRT3 | 5,770874 | 6,29E-44 |
| FGD1 | 5,759209 | 8,05E-21 |
| BEND7 | 5,757584 | 3,54E-05 |
| VSTM2L | 5,748985 | 0,000613 |
| SUSD2 | 5,730426 | 3,96E-11 |
| TCF7L1 | 5,729855 | 1,19E-09 |
| SLC26A11 | 5,724111 | 2,76E-09 |
| PLEKHH3 | 5,720794 | 1,04E-22 |
| MOCOS | 5,708215 | 1,04E-12 |
| TNFRSF10B | 5,701972 | 6,28E-19 |
| IFIT3 | 5,690026 | 0,000177 |
| GAS6 | 5,680645 | 3,71E-09 |
| BLNK | 5,660097 | 0,000344 |
| BCAS3 | 5,643205 | 2,40E-84 |
| LOC100505 | 5,641182 | 0,000267 |
| ANXA9 | 5,63834 | 1,28E-22 |
| CTTN | 5,63809 | 4,28E-67 |

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| RNF32 | 5,633785 | 1,35E-05 |
| BAIAP2 | 5,632058 | 1,70E-39 |
| ABCC3 | 5,629903 | 0,000257 |
| GJB2 | 5,623454 | 4,44E-15 |
| FN1 | 5,618679 | 1,08E-06 |
| PSEN2 | 5,609161 | 9,23E-24 |
| SMPDL3B | 5,608236 | 1,25E-45 |
| PARVB | 5,607175 | 3,08E-18 |
| ST5 | 5,591658 | 2,53E-12 |
| LITAF | 5,575742 | 1,47E-47 |
| DDR1 | 5,566425 | 6,84E-42 |
| ASCL2 | 5,554096 | 4,02E-13 |
| INPP4B | 5,553588 | 2,46E-38 |
| LOC148705 | 5,541456 | 5,77E-09 |
| CAMK1 | 5,537312 | 1,23E-06 |
| MDK | 5,531206 | 2,36E-111 |
| CD55 | 5,522366 | 8,96E-31 |
| BBC3 | 5,519997 | 4,26E-11 |
| IFI30 | 5,513906 | 6,87E-48 |
| PLXNA4 | 5,508627 | 1,77E-16 |
| RAB30 | 5,505622 | 1,34E-32 |
| SPATS2L | 5,505389 | 2,87E-40 |
| AK7 | 5,481894 | 2,88E-45 |
| C1QTNF6 | 5,476163 | 1,26E-07 |
| CEACAM1 | 5,472832 | 6,54E-07 |
| EFNA1 | 5,472685 | 1,19E-18 |
| TNFSF13 | 5,468394 | 2,19E-08 |
| TSKU | 5,459518 | 6,13E-41 |
| HUNK | 5,443629 | 1,53E-31 |
| LARGE | 5,441173 | 8,18E-24 |
| TMEM52 | 5,435063 | 3,07E-10 |
| NR4A1 | 5,427687 | 3,24E-21 |
| PCDHGB5 | 5,42211 | 1,32E-06 |
| SH3BP5 | 5,4217 | 2,10E-95 |
| LRRC8E | 5,410592 | 4,64E-15 |
| PTP4A3 | 5,403133 | 1,35E-35 |
| TNFRSF10A | 5,389508 | 3,52E-17 |
| MAPK8IP2 | 5,366468 | 3,69E-15 |
| ID2 | 5,3569 | 1,66E-26 |
| PHLDB1 | 5,351331 | 4,95E-27 |
| CNKSRI | 5,347675 | 1,95E-07 |
| SYNPO2 | 5,338178 | 1,31E-15 |
| TSHZ3 | 5,337906 | 4,92E-09 |
| SMKR1 | 5,335765 | 1,20E-15 |
| IFITM3 | 5,328272 | 1,76E-34 |
| MPP7 | 5,323351 | 7,97E-36 |
| ZG16B | 5,322724 | 2,55E-07 |
| KREMEN2 | 5,319225 | 8,13E-49 |
| ZNF205 | 5,306733 | 6,67E-25 |
| FZD7 | 5,293319 | 7,40E-19 |

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| PTGER2 | 5,28809 | 0,000889 |
| FLJ23867 | 5,259281 | 7,25E-26 |
| DENND2C | 5,252752 | 6,24E-06 |
| VGF | 5,248111 | 1,31E-28 |
| ZNF114 | 5,236011 | 7,17E-25 |
| KLF3 | 5,22966 | 9,02E-18 |
| PAX8-AS1 | 5,221436 | 3,58E-27 |
| MAPK13 | 5,2144 | 2,12E-82 |
| DEGS2 | 5,213832 | 1,41E-10 |
| PITX1 | 5,205043 | 5,65E-39 |
| PRELID2 | 5,198972 | 3,88E-10 |
| CRLF1 | 5,18407 | 2,85E-05 |
| TMEM178f | 5,183876 | 4,25E-17 |
| SPEF2 | 5,18314 | 1,04E-08 |
| ITGB4 | 5,180959 | 1,74E-55 |
| ALDOC | 5,177996 | 5,49E-23 |
| CST3 | 5,161439 | 1,68E-53 |
| NFE2 | 5,156647 | 2,14E-07 |
| NRGN | 5,153607 | 1,17E-11 |
| MAML2 | 5,152249 | 2,17E-10 |
| INPP5J | 5,134923 | 0,000375 |
| CKAP4 | 5,133239 | 2,54E-83 |
| STON2 | 5,128947 | 4,74E-47 |
| MYO7A | 5,127919 | 0,000386 |
| OASL | 5,115109 | 0,000182 |
| GPRIN1 | 5,111623 | 1,63E-50 |
| GUCY1B3 | 5,096941 | 0,000669 |
| MYLIP | 5,092302 | 2,09E-34 |
| AK1 | 5,087606 | 8,19E-12 |
| PKP1 | 5,080958 | 6,97E-13 |
| TBC1D16 | 5,078211 | 2,29E-73 |
| RTN4RL1 | 5,066145 | 5,72E-51 |
| BCL3 | 5,063464 | 2,09E-22 |
| IQSEC2 | 5,06293 | 4,30E-10 |
| AKR1E2 | 5,062665 | 5,84E-08 |
| BCAR3 | 5,061022 | 1,71E-06 |
| TMEM62 | 5,056079 | 4,87E-12 |
| TEX15 | 5,051669 | 5,40E-09 |
| SYDE2 | 5,049097 | 9,19E-12 |
| RASAL1 | 5,042599 | 9,69E-05 |
| GRIN2D | 5,04243 | 5,88E-10 |
| MTUS1 | 5,039767 | 3,25E-39 |
| SYT3 | 5,038663 | 6,94E-05 |
| CTIF | 5,038142 | 5,30E-15 |
| PROSER2 | 5,018951 | 6,44E-13 |
| PRR15 | 5,013636 | 1,74E-10 |
| DLL1 | 5,00873 | 0,000209 |
| TBC1D8 | 4,999679 | 1,83E-11 |
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| JDP2 | 4,987458 | 1,62E-19 |

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| TINCR | 4,9858 | 3,53E-10 |
| NDRG2 | 4,984782 | 5,73E-13 |
| ZBTB46 | 4,97852 | 0,000261 |
| HOMER2 | 4,974571 | 8,12E-65 |
| ZNF630 | 4,973455 | 1,05E-08 |
| KIF13A | 4,963912 | 3,76E-45 |
| IGSF3 | 4,962345 | 2,66E-30 |
| OBSL1 | 4,955626 | 4,99E-26 |
| C11orf63 | 4,947602 | 0,000452 |
| PRKAA2 | 4,944833 | 2,37E-12 |
| SGMS2 | 4,943694 | 5,19E-05 |
| MNX1 | 4,932519 | 1,36E-20 |
| ZBTB7C | 4,931884 | 6,62E-06 |
| PYGO1 | 4,930924 | 6,13E-06 |
| LYPD3 | 4,92967 | 3,26E-20 |
| SPR | 4,929584 | 8,91E-59 |
| SSH3 | 4,923911 | 1,46E-18 |
| MFAP3L | 4,920771 | 1,90E-15 |
| LRRC26 | 4,917952 | 2,47E-09 |
| PDLIM1 | 4,917127 | 3,33E-35 |
| AIFM2 | 4,910547 | 2,47E-29 |
| PACSIN3 | 4,906097 | 1,18E-45 |
| EHHADH | 4,900593 | 5,24E-05 |
| CBS | 4,894393 | 1,56E-36 |
| AGAP2-AS1 | 4,89011 | 1,99E-33 |
| HOMER3 | 4,885329 | 1,03E-39 |
| NEIL2 | 4,881217 | 1,42E-07 |
| ABTB2 | 4,878949 | 9,25E-19 |
| OSBPL6 | 4,87513 | 3,16E-11 |
| AMOTL1 | 4,869982 | 1,35E-38 |
| TSPAN9 | 4,866068 | 9,02E-11 |
| AP4B1-AS1 | 4,862704 | 3,72E-18 |
| METTTL7B | 4,862653 | 0,000379 |
| B4GALNT3 | 4,858171 | 0,000516 |
| MTMR11 | 4,841643 | 4,30E-05 |
| SLC22A5 | 4,826923 | 5,21E-12 |
| FBLIM1 | 4,822133 | 2,88E-12 |
| RGAG4 | 4,822063 | 5,83E-07 |
| SCARB2 | 4,820448 | 3,09E-63 |
| S100A10 | 4,811005 | 5,59E-86 |
| CCM2L | 4,809592 | 3,70E-07 |
| KREMEN1 | 4,796814 | 4,59E-32 |
| MB21D2 | 4,790576 | 1,46E-22 |
| BFSP1 | 4,789136 | 1,72E-11 |
| NFE2L3 | 4,788723 | 9,30E-36 |
| AGRN | 4,786577 | 5,19E-68 |
| PLCB4 | 4,785415 | 1,67E-17 |
| SRRM3 | 4,779945 | 3,92E-06 |
| PVT1 | 4,778877 | 5,58E-25 |
| TMEM121 | 4,776293 | 1,46E-08 |

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| DNAH14 | 4,773592 | 5,30E-09 |
| SPIRE1 | 4,764763 | 5,17E-53 |
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| MGAT5B | 4,758775 | 0,000939 |
| GPR161 | 4,758642 | 1,76E-11 |
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| ABCB4 | 4,750298 | 0,000181 |
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| FJX1 | 4,740956 | 3,91E-13 |
| NPR3 | 4,739177 | 2,02E-17 |
| ADCY9 | 4,733116 | 5,15E-05 |
| GAREM | 4,716696 | 1,23E-08 |
| DLGAP3 | 4,709187 | 1,63E-11 |
| GCA | 4,705885 | 9,25E-14 |
| CD151 | 4,691338 | 9,62E-61 |
| SHROOM1 | 4,689824 | 2,27E-11 |
| C3orf67 | 4,687932 | 0,000866 |
| GOLIM4 | 4,687695 | 8,17E-51 |
| ADGRG6 | 4,680003 | 1,61E-17 |
| LLGL2 | 4,675108 | 1,43E-52 |
| NANOS1 | 4,670742 | 8,03E-27 |
| GPC4 | 4,665419 | 9,24E-07 |
| VASN | 4,664318 | 0,000514 |
| CBARP | 4,658365 | 2,05E-06 |
| GTF2IRD1 | 4,646021 | 4,03E-63 |
| NR2F1 | 4,642615 | 3,76E-08 |
| MAPK8IP1 | 4,638852 | 1,46E-39 |
| STXBP6 | 4,62836 | 2,49E-10 |
| DDAH1 | 4,628337 | 3,74E-15 |
| NPTXR | 4,619537 | 2,25E-20 |
| SLC29A2 | 4,617781 | 3,36E-33 |
| OLFM2 | 4,617192 | 1,51E-30 |
| SMTN | 4,606443 | 4,60E-67 |
| SLC27A2 | 4,603584 | 3,21E-46 |
| GAA | 4,597868 | 1,45E-49 |
| GNG13 | 4,580945 | 1,17E-05 |
| PACSIN1 | 4,575172 | 2,52E-14 |
| HSD17B14 | 4,573624 | 3,91E-05 |
| ABHD4 | 4,564071 | 5,06E-09 |
| GPR158 | 4,551005 | 7,19E-07 |
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| PFN2 | 4,543671 | 2,77E-75 |
| LRP1 | 4,537812 | 5,65E-09 |
| PCBD1 | 4,533739 | 5,55E-74 |
| TP53INP1 | 4,521414 | 3,82E-14 |
| IGFBP4 | 4,520898 | 4,33E-09 |
| ZNF618 | 4,52083 | 7,57E-69 |
| NEURL1B | 4,514261 | 3,30E-32 |
| DUSP4 | 4,5018 | 0,000403 |
| URB1-AS1 | 4,501664 | 1,24E-05 |

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| RUNX2 | 4,498905 | 2,08E-33 |
| OCLN | 4,49184 | 6,18E-17 |
| FGD4 | 4,487073 | 1,61E-15 |
| ZNF296 | 4,486692 | 6,92E-20 |
| EFR3B | 4,486474 | 2,49E-20 |
| EGR3 | 4,480879 | 8,34E-05 |
| FLT3 | 4,480371 | 0,000524 |
| NINJ1 | 4,467231 | 1,25E-20 |
| STX3 | 4,460803 | 2,80E-24 |
| SAMD12 | 4,458494 | 6,59E-17 |
| ENC1 | 4,456212 | 1,40E-24 |
| BMF | 4,452773 | 7,86E-06 |
| FZD2 | 4,452044 | 2,07E-23 |
| AVPI1 | 4,44704 | 1,98E-16 |
| EPS8L2 | 4,425498 | 3,42E-27 |
| COL5A1 | 4,422774 | 4,99E-05 |
| HOOK2 | 4,421331 | 2,21E-32 |
| IFI44L | 4,413334 | 0,000623 |
| S100A11 | 4,406186 | 4,06E-43 |
| GSTA4 | 4,402766 | 2,15E-11 |
| TNS2 | 4,397696 | 2,73E-23 |
| TENM3 | 4,370937 | 3,37E-54 |
| NHSL1 | 4,366433 | 9,00E-19 |
| CSRP2 | 4,365945 | 3,75E-15 |
| MRPL41 | 4,363447 | 9,75E-60 |
| FAAH | 4,354689 | 1,88E-15 |
| FUT1 | 4,351911 | 6,68E-10 |
| PLEKHG5 | 4,345658 | 9,13E-13 |
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| ERMP1 | 4,336979 | 1,67E-20 |
| ARHGEF4 | 4,331136 | 1,47E-05 |
| EHD4 | 4,330381 | 4,31E-19 |
| GNAZ | 4,327037 | 4,50E-07 |
| ATP1B1 | 4,321881 | 6,87E-53 |
| KIAA1549 | 4,303915 | 4,94E-26 |
| REEP6 | 4,30153 | 1,23E-27 |
| CXADR | 4,300735 | 9,09E-25 |
| RAB13 | 4,298919 | 6,17E-47 |
| BACE1 | 4,295777 | 2,39E-23 |
| GOLM1 | 4,291854 | 1,03E-20 |
| C6orf52 | 4,288467 | 2,79E-05 |
| LTBP2 | 4,288274 | 7,55E-05 |
| PTPRJ | 4,286662 | 9,21E-16 |
| MYO1C | 4,285455 | 1,00E-37 |
| CAMSAP3 | 4,284224 | 1,18E-29 |
| SGSH | 4,279255 | 7,14E-22 |
| PRR36 | 4,276902 | 4,32E-70 |
| GPR176 | 4,267803 | 0,000482 |
| ACTA2 | 4,262606 | 1,17E-06 |
| TMEM184/ | 4,259323 | 2,04E-22 |

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| ZNF185 | 4,258523 | 4,68E-23 |
| TMEM191/ | 4,257557 | 6,67E-17 |
| HEYL | 4,25739 | 0,000129 |
| UNC93B1 | 4,255295 | 1,43E-35 |
| ASAH2 | 4,252661 | 2,20E-15 |
| CHST3 | 4,252163 | 4,44E-05 |
| ZNF793 | 4,248631 | 2,55E-09 |
| ANKRD34A | 4,243976 | 5,46E-11 |
| TXNIP | 4,241314 | 1,81E-12 |
| MERTK | 4,239828 | 2,02E-05 |
| MAGI1 | 4,228252 | 4,50E-24 |
| CABLES1 | 4,227358 | 3,90E-12 |
| ZNF385A | 4,224981 | 1,04E-49 |
| HSPA1A | 4,222813 | 1,54E-23 |
| ABLIM2 | 4,217064 | 2,08E-05 |
| AGMAT | 4,215463 | 4,97E-13 |
| PTPRU | 4,211864 | 7,83E-28 |
| TMEM150/ | 4,192146 | 4,19E-16 |
| HIP1 | 4,189994 | 2,04E-46 |
| TUBB2B | 4,189271 | 5,63E-11 |
| HFE | 4,180716 | 0,000275 |
| BOD1 | 4,173048 | 1,03E-32 |
| RAB11FIP5 | 4,172796 | 8,81E-06 |
| APOE | 4,166859 | 4,71E-08 |
| EPS8L1 | 4,147699 | 1,44E-08 |
| ALG1L | 4,141075 | 6,23E-11 |
| TOB2P1 | 4,132592 | 0,000103 |
| NAV1 | 4,127265 | 8,25E-05 |
| NBPF15 | 4,108737 | 4,39E-21 |
| PARD6B | 4,107041 | 6,55E-25 |
| SRCIN1 | 4,104695 | 2,74E-05 |
| ABCC2 | 4,102596 | 3,16E-05 |
| LRRC16A | 4,094414 | 1,39E-21 |
| HCN2 | 4,09238 | 7,74E-16 |
| PWWP2B | 4,083006 | 2,77E-21 |
| TRIM45 | 4,08276 | 9,48E-13 |
| CRACR2B | 4,074749 | 3,67E-19 |
| IFITM10 | 4,070531 | 0,000529 |
| ICA1 | 4,063091 | 4,28E-30 |
| ARHGAP44 | 4,061878 | 5,56E-13 |
| CFAP53 | 4,060304 | 9,83E-05 |
| EGLN3 | 4,056515 | 5,94E-06 |
| GAB1 | 4,049854 | 3,75E-14 |
| SLMO1 | 4,043447 | 1,06E-07 |
| GFOD1 | 4,041105 | 9,64E-10 |
| KCNJ11 | 4,023756 | 7,04E-08 |
| NUDT14 | 4,017239 | 1,99E-16 |
| CTSO | 4,014815 | 2,54E-06 |
| RAB26 | 4,014374 | 1,24E-06 |
| GATA2 | 4,008899 | 3,63E-08 |

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| LOC389641 | 4,008085 | 0,000182 |
| USP2 | 3,995146 | 1,07E-05 |
| CASC10 | 3,991427 | 4,95E-07 |
| CYP2S1 | 3,991152 | 6,41E-11 |
| FRAS1 | 3,98015 | 6,96E-21 |
| HR | 3,973897 | 3,09E-29 |
| MORC4 | 3,969104 | 2,24E-20 |
| IER3 | 3,967031 | 2,93E-38 |
| SEMA4G | 3,966419 | 6,58E-06 |
| SOCS3 | 3,962655 | 7,03E-08 |
| LMTK3 | 3,957005 | 1,94E-11 |
| SQSTM1 | 3,954741 | 6,58E-27 |
| ZNF608 | 3,949325 | 2,58E-23 |
| ASS1 | 3,946505 | 1,52E-21 |
| FARP1 | 3,944499 | 6,34E-36 |
| CFAP45 | 3,944143 | 1,90E-05 |
| CDC42BPG | 3,942165 | 7,16E-08 |
| KLHDC8B | 3,940282 | 4,51E-07 |
| ACKR3 | 3,937601 | 1,38E-32 |
| FMO5 | 3,925187 | 0,000198 |
| OSGIN1 | 3,922841 | 3,20E-15 |
| TLDC1 | 3,917828 | 1,26E-24 |
| KRT86 | 3,914212 | 0,000877 |
| RUNDC3A- | 3,913529 | 0,000365 |
| BCYRN1 | 3,903579 | 1,21E-31 |
| CCNO | 3,903439 | 1,19E-05 |
| NCOA3 | 3,901779 | 1,17E-56 |
| PALM3 | 3,893151 | 0,000196 |
| BMPR2 | 3,886106 | 3,22E-36 |
| NPDC1 | 3,883854 | 5,33E-64 |
| GRHL1 | 3,883052 | 2,42E-11 |
| FAM83G | 3,88168 | 6,15E-19 |
| HAGLR | 3,880339 | 0,000107 |
| SUSD4 | 3,874233 | 0,000238 |
| PADI2 | 3,869412 | 1,70E-05 |
| CDK20 | 3,866843 | 4,24E-06 |
| NOTCH3 | 3,859547 | 9,43E-47 |
| TNK1 | 3,856362 | 5,22E-22 |
| ZBTB38 | 3,856208 | 8,73E-23 |
| ADAM11 | 3,853549 | 4,93E-10 |
| CGN | 3,851985 | 1,15E-33 |
| ADAM15 | 3,844301 | 1,78E-51 |
| GRINA | 3,840857 | 3,20E-24 |
| RASL11B | 3,819149 | 4,35E-09 |
| USP32 | 3,817496 | 2,18E-34 |
| CKB | 3,816635 | 1,81E-25 |
| CSPG5 | 3,809498 | 1,82E-08 |
| CCDC71L | 3,807505 | 4,31E-16 |
| AJUBA | 3,80584 | 1,16E-15 |
| CDYL | 3,805659 | 4,89E-46 |

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| TCEA3 | 3,803245 | 6,27E-33 |
| RUSC2 | 3,802133 | 5,01E-05 |
| TUBB6 | 3,798404 | 7,58E-35 |
| ASAP3 | 3,7972 | 5,69E-12 |
| ARRB1 | 3,79032 | 1,77E-10 |
| PCAT6 | 3,786584 | 0,000876 |
| FUCA2 | 3,784883 | 1,74E-25 |
| CTNNA1 | 3,78438 | 3,07E-55 |
| ALDH7A1 | 3,783798 | 5,80E-40 |
| SEPT3 | 3,77786 | 1,58E-15 |
| ZNF239 | 3,773893 | 1,04E-08 |
| CFD | 3,769192 | 5,86E-08 |
| CALD1 | 3,761599 | 6,98E-05 |
| PVR | 3,757249 | 1,05E-13 |
| CAV1 | 3,754355 | 6,21E-06 |
| MGAT4B | 3,740349 | 5,46E-59 |
| C1orf233 | 3,740194 | 2,09E-30 |
| FAM213A | 3,722981 | 1,74E-25 |
| TSPAN17 | 3,721805 | 4,86E-36 |
| AMOT | 3,717635 | 1,80E-28 |
| STAP2 | 3,714468 | 6,02E-31 |
| C9orf116 | 3,702819 | 9,21E-07 |
| PVRL1 | 3,696231 | 7,91E-21 |
| RP9P | 3,69216 | 9,51E-07 |
| ELMO3 | 3,674265 | 1,41E-09 |
| FAM212B | 3,674004 | 5,65E-12 |
| OSR2 | 3,670292 | 1,95E-10 |
| JHDM1D-A | 3,667192 | 2,17E-10 |
| NLGN2 | 3,666709 | 1,18E-26 |
| LPAR2 | 3,663594 | 4,72E-21 |
| C1orf226 | 3,644911 | 2,74E-09 |
| FAM174B | 3,640756 | 2,34E-11 |
| MANSC1 | 3,638285 | 8,76E-12 |
| MLLT4 | 3,637844 | 3,49E-27 |
| FAM86JP | 3,637171 | 1,23E-06 |
| C2orf15 | 3,632474 | 9,99E-19 |
| HEATR6 | 3,624311 | 7,61E-54 |
| EVI5 | 3,623112 | 1,30E-06 |
| RORA | 3,621671 | 1,08E-17 |
| HSPA4L | 3,620381 | 5,17E-13 |
| UBTD1 | 3,616165 | 1,12E-06 |
| DST | 3,615123 | 7,97E-30 |
| TIAM2 | 3,602748 | 0,000824 |
| TRIM37 | 3,598611 | 2,82E-71 |
| CCPG1 | 3,59806 | 3,02E-17 |
| EIF4E3 | 3,595264 | 4,96E-11 |
| TOX2 | 3,5888 | 3,37E-06 |
| PLOD3 | 3,588095 | 8,07E-52 |
| COL18A1 | 3,586433 | 7,78E-23 |
| CGREF1 | 3,585664 | 1,55E-21 |

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| CAMK2N1 | 3,572275 | 6,17E-08 |
| USP43 | 3,570567 | 2,65E-07 |
| TMEM56 | 3,565736 | 0,00034 |
| C9orf3 | 3,559733 | 3,86E-21 |
| ZNF354A | 3,556975 | 2,03E-23 |
| TTLL7 | 3,550998 | 5,44E-08 |
| FRMD6-AS1 | 3,54454 | 0,000121 |
| FAM109B | 3,542391 | 2,48E-09 |
| HIST1H2BK | 3,538409 | 1,67E-09 |
| DLX2 | 3,53378 | 6,69E-05 |
| SPTBN2 | 3,533576 | 1,65E-29 |
| SMARCD3 | 3,531739 | 1,70E-06 |
| FAM127A | 3,529251 | 1,87E-15 |
| IQCE | 3,528903 | 3,02E-39 |
| ZNF790-AS1 | 3,527749 | 2,48E-08 |
| PMEL | 3,52428 | 0,000988 |
| CLCC1 | 3,522874 | 2,56E-31 |
| TTC23 | 3,520178 | 3,44E-16 |
| KANK1 | 3,519456 | 5,72E-15 |
| ABCA2 | 3,513296 | 5,04E-30 |
| SKIDA1 | 3,508967 | 5,32E-07 |
| RXRA | 3,508068 | 3,51E-24 |
| CDC42EP2 | 3,507389 | 1,51E-07 |
| FAM109A | 3,506641 | 3,70E-15 |
| PLXNB2 | 3,504829 | 4,87E-31 |
| FAM171A2 | 3,502111 | 5,95E-24 |
| GLUD2 | 3,490558 | 2,10E-10 |
| ZNF619 | 3,488673 | 4,31E-08 |
| PLCD3 | 3,487616 | 8,41E-14 |
| ZNF697 | 3,485993 | 2,20E-06 |
| FMNL2 | 3,479557 | 2,60E-18 |
| APPBP2 | 3,476857 | 2,09E-61 |
| AKAP12 | 3,476214 | 6,16E-05 |
| RGS3 | 3,469835 | 5,13E-18 |
| SAMD11 | 3,468498 | 7,16E-07 |
| PAQR7 | 3,465406 | 2,41E-12 |
| TMEM254 | 3,463872 | 2,73E-05 |
| AXIN2 | 3,463443 | 1,24E-47 |
| CDH24 | 3,459966 | 8,99E-15 |
| TPD52 | 3,451198 | 6,01E-41 |
| AIF1L | 3,443158 | 3,81E-48 |
| FAM222A | 3,44236 | 7,22E-25 |
| CADM4 | 3,434139 | 4,65E-14 |
| MEX3A | 3,434101 | 2,42E-57 |
| TRIM16 | 3,431476 | 4,73E-13 |
| MTSS1 | 3,430806 | 6,61E-06 |
| ARHGEF19 | 3,429155 | 1,87E-17 |
| TP53I3 | 3,427195 | 4,04E-08 |
| LINC00467 | 3,425887 | 0,000117 |
| HAGHL | 3,42181 | 1,40E-17 |

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| PRKAR2A | 3,420902 | 2,06E-09 |
| PRR7 | 3,416923 | 4,07E-26 |
| IL6ST | 3,41204 | 7,43E-17 |
| FBXO6 | 3,410709 | 0,000127 |
| MGLL | 3,408663 | 4,72E-07 |
| KLF10 | 3,397023 | 8,64E-17 |
| CITED4 | 3,395793 | 0,000121 |
| ADPRHL1 | 3,390532 | 5,14E-13 |
| MT1F | 3,381137 | 5,86E-05 |
| RTN2 | 3,379216 | 8,22E-09 |
| CPEB2 | 3,377261 | 9,02E-09 |
| HSPB1 | 3,371525 | 2,50E-32 |
| GCNT1 | 3,356012 | 1,95E-16 |
| RBFOX2 | 3,35438 | 6,89E-26 |
| EFNA3 | 3,352291 | 2,12E-15 |
| FAM19A5 | 3,328854 | 0,000588 |
| PDGFA | 3,327261 | 1,82E-12 |
| ADGRL1 | 3,326567 | 5,25E-31 |
| PSMD6 | 3,325738 | 7,55E-39 |
| RAB11FIP4 | 3,325504 | 5,02E-25 |
| CMTM8 | 3,322191 | 1,25E-13 |
| TCTN1 | 3,307833 | 8,87E-19 |
| ACVR2A | 3,303331 | 1,09E-09 |
| SH3BGR | 3,298706 | 4,46E-05 |
| LINC00858 | 3,298215 | 0,000436 |
| PCGF2 | 3,292789 | 2,00E-37 |
| UBE2Q2P2 | 3,291022 | 0,000121 |
| TGM1 | 3,285778 | 0,000292 |
| NFIX | 3,285011 | 1,56E-16 |
| ZSCAN31 | 3,281572 | 7,18E-12 |
| SNX33 | 3,280635 | 1,82E-12 |
| TSC22D1 | 3,278324 | 8,14E-27 |
| ADGRG1 | 3,277306 | 4,07E-26 |
| KIAA1257 | 3,271322 | 0,000436 |
| BEX2 | 3,270171 | 1,69E-06 |
| CRYL1 | 3,268917 | 1,05E-17 |
| AP1S1 | 3,267016 | 4,27E-22 |
| TNIK | 3,26493 | 7,47E-10 |
| PTMS | 3,26123 | 6,69E-26 |
| PYCR1 | 3,253999 | 1,87E-27 |
| GLIDR | 3,245671 | 9,81E-07 |
| ARHGEF12 | 3,244451 | 6,18E-25 |
| TYRO3 | 3,237715 | 4,61E-20 |
| PFDN4 | 3,231499 | 1,10E-40 |
| RAB27B | 3,22708 | 3,51E-15 |
| RILPL1 | 3,223603 | 3,81E-07 |
| MMP15 | 3,220404 | 3,75E-19 |
| PCDHB14 | 3,2203 | 5,63E-11 |
| BSPRY | 3,220033 | 2,84E-24 |
| ABHD17C | 3,217781 | 1,26E-11 |

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| DNAJC6 | 3,214988 | 0,000211 |
| CCDC113 | 3,212492 | 2,44E-07 |
| LOC11323C | 3,192028 | 5,56E-13 |
| ACTRT3 | 3,191804 | 0,00045 |
| SPHK1 | 3,189866 | 3,98E-07 |
| SYNGR3 | 3,187639 | 0,000274 |
| ADSSL1 | 3,187628 | 0,000183 |
| GLS2 | 3,186486 | 4,21E-07 |
| GLCE | 3,184178 | 1,45E-35 |
| HDAC11 | 3,180762 | 7,42E-06 |
| SERTAD3 | 3,176212 | 5,44E-16 |
| FITM2 | 3,175128 | 3,59E-10 |
| BCL9L | 3,169381 | 4,39E-23 |
| NR2F6 | 3,165273 | 3,56E-16 |
| CUEDC1 | 3,159026 | 1,73E-10 |
| CCT6B | 3,156308 | 0,000132 |
| SLC25A13 | 3,153079 | 3,48E-30 |
| RPS6KB1 | 3,15141 | 2,84E-43 |
| SPATA2L | 3,137416 | 4,86E-21 |
| FGFR3 | 3,133078 | 1,82E-13 |
| H1FO | 3,13275 | 3,04E-12 |
| LOXL1 | 3,125465 | 7,16E-05 |
| LZTS2 | 3,125081 | 7,20E-19 |
| CHN1 | 3,123908 | 6,28E-13 |
| LPPR2 | 3,122389 | 9,61E-08 |
| FOXO6 | 3,118667 | 0,000188 |
| NDRG4 | 3,101656 | 1,08E-06 |
| GNA11 | 3,0973 | 1,22E-24 |
| ARHGEF11 | 3,093947 | 7,28E-18 |
| HHAT | 3,091541 | 5,30E-06 |
| TMEM64 | 3,088348 | 2,40E-32 |
| SPPL2A | 3,087012 | 2,66E-36 |
| HSPA2 | 3,081047 | 1,15E-06 |
| ZSWIM5 | 3,079065 | 8,66E-05 |
| ADAMTS19 | 3,063133 | 1,95E-22 |
| FA2H | 3,054089 | 0,000764 |
| JUNB | 3,049241 | 3,53E-14 |
| RTKN | 3,044634 | 2,04E-22 |
| ZNF425 | 3,04257 | 1,30E-10 |
| C16orf46 | 3,040916 | 3,39E-06 |
| RRBP1 | 3,025681 | 4,59E-21 |
| TSC22D3 | 3,021781 | 3,21E-05 |
| PLD2 | 3,021236 | 1,65E-06 |
| EIF5AL1 | 3,013404 | 1,58E-22 |
| KATNAL2 | 3,009112 | 4,24E-06 |
| ZDHC14 | 3,007885 | 0,000202 |
| WIPI1 | 3,00571 | 7,51E-08 |
| SLC45A3 | 2,998213 | 1,51E-05 |
| HOXB7 | 2,996618 | 7,28E-09 |
| ADAP1 | 2,992519 | 2,41E-06 |

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| C9orf172 | 2,990599 | 0,000134 |
| CBR3 | 2,984261 | 0,000264 |
| ABHD11 | 2,977869 | 3,10E-23 |
| MGST2 | 2,974864 | 3,64E-09 |
| NHP2 | 2,973675 | 1,27E-30 |
| DOK4 | 2,97089 | 1,21E-13 |
| BLVRA | 2,967468 | 7,68E-21 |
| NPL | 2,964393 | 1,88E-05 |
| EPB41L5 | 2,963665 | 4,67E-24 |
| C2orf81 | 2,962969 | 7,03E-07 |
| GUCY1A2 | 2,957491 | 1,92E-13 |
| AGAP3 | 2,956902 | 2,09E-28 |
| AMIGO1 | 2,95613 | 8,51E-05 |
| HIST1H2BD | 2,949666 | 1,89E-06 |
| KCTD1 | 2,943008 | 5,42E-18 |
| UFSP1 | 2,941411 | 5,15E-05 |
| NR1D2 | 2,939776 | 4,15E-20 |
| TMTC2 | 2,938875 | 1,02E-08 |
| TSPAN13 | 2,937212 | 8,73E-24 |
| SLC22A18 | 2,930704 | 3,86E-10 |
| FAM127B | 2,925293 | 1,08E-34 |
| TMEM231 | 2,924574 | 5,22E-12 |
| PCDHB13 | 2,923883 | 2,04E-07 |
| TMCC2 | 2,916578 | 8,02E-06 |
| BMP4 | 2,916401 | 8,41E-08 |
| C11orf74 | 2,911238 | 1,18E-05 |
| TST | 2,906178 | 6,28E-11 |
| PPM1D | 2,901321 | 6,98E-33 |
| TUBB3 | 2,901159 | 3,73E-30 |
| PDE5A | 2,901098 | 0,00041 |
| RGS16 | 2,896322 | 2,05E-05 |
| TP53TG1 | 2,890421 | 1,46E-11 |
| CHCHD10 | 2,874939 | 3,69E-33 |
| HABP4 | 2,874049 | 2,52E-11 |
| NRSN2-AS1 | 2,873945 | 6,88E-08 |
| S100A6 | 2,867961 | 7,53E-12 |
| TSPO | 2,861731 | 2,46E-25 |
| SPAG1 | 2,857152 | 1,68E-05 |
| HSPA1B | 2,856492 | 1,29E-11 |
| COBLL1 | 2,85507 | 2,38E-15 |
| PLAGL1 | 2,8536 | 0,000781 |
| PPFIBP1 | 2,830032 | 1,18E-19 |
| C17orf97 | 2,828225 | 2,46E-07 |
| PRDM4 | 2,822199 | 2,08E-38 |
| CDK18 | 2,821401 | 4,48E-08 |
| MOCS1 | 2,817749 | 2,88E-05 |
| AUTS2 | 2,81625 | 3,00E-16 |
| KIF1C | 2,814705 | 1,36E-22 |
| GPT2 | 2,803903 | 1,56E-08 |
| C14orf79 | 2,795449 | 1,20E-07 |

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| NBPF20 | 2,793033 | 3,60E-06 |
| SLC22A31 | 2,787436 | 0,000473 |
| HIST2H2BE | 2,777777 | 0,000141 |
| NUDT19 | 2,776864 | 1,29E-17 |
| KCNK1 | 2,773299 | 4,73E-08 |
| FRMD6 | 2,769703 | 1,20E-21 |
| IGF1R | 2,766445 | 2,85E-24 |
| RMND5B | 2,762889 | 1,78E-28 |
| TOB1 | 2,76173 | 2,59E-18 |
| TWF1 | 2,744539 | 1,21E-24 |
| EFNA4 | 2,742348 | 1,02E-19 |
| WASL | 2,737039 | 5,77E-16 |
| CCDC103 | 2,721151 | 0,00016 |
| FNBP1L | 2,717888 | 9,98E-30 |
| CTXN1 | 2,71438 | 3,17E-19 |
| B4GALT2 | 2,714297 | 2,57E-25 |
| DUSP1 | 2,708855 | 0,000327 |
| GSTZ1 | 2,706215 | 2,45E-22 |
| CERCAM | 2,702585 | 3,80E-09 |
| TMEM2 | 2,699388 | 2,33E-20 |
| ZDHHC9 | 2,6974 | 3,42E-18 |
| HIGD2A | 2,696739 | 6,99E-24 |
| SUMF1 | 2,68789 | 2,23E-14 |
| ARL4A | 2,68276 | 4,91E-23 |
| GAS2L1 | 2,682314 | 2,32E-18 |
| VCL | 2,676786 | 4,41E-11 |
| ECI1 | 2,675083 | 1,38E-24 |
| LYRM9 | 2,673314 | 0,000151 |
| RAPH1 | 2,669695 | 5,67E-13 |
| DECR2 | 2,667555 | 5,30E-16 |
| MTL5 | 2,665399 | 1,18E-07 |
| TTC9 | 2,660598 | 5,85E-19 |
| LHFPL2 | 2,653324 | 1,82E-11 |
| TATDN1 | 2,651757 | 6,31E-24 |
| CCNJL | 2,643048 | 0,00027 |
| PON2 | 2,640315 | 6,83E-11 |
| REEP5 | 2,637469 | 1,28E-17 |
| TLE2 | 2,634878 | 2,74E-17 |
| PHACTR2 | 2,631291 | 1,64E-11 |
| BAIAP2-AS: | 2,629192 | 3,18E-05 |
| ANXA4 | 2,627813 | 2,05E-18 |
| CLMN | 2,627151 | 1,03E-11 |
| IFNGR2 | 2,619991 | 0,000105 |
| TP53I11 | 2,618945 | 2,56E-17 |
| C11orf24 | 2,617109 | 8,90E-16 |
| RALB | 2,614438 | 2,20E-06 |
| BCAS2 | 2,613072 | 1,57E-33 |
| PDE4DIP | 2,609004 | 1,00E-12 |
| IL17RC | 2,605513 | 0,000317 |
| STK32C | 2,600006 | 9,10E-12 |

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| GLUL | 2,596216 | 2,50E-30 |
| TUBD1 | 2,591997 | 3,26E-16 |
| MYCL | 2,588472 | 0,000254 |
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| KIF21A | 2,587346 | 4,38E-11 |
| CAST | 2,585622 | 1,53E-15 |
| TBC1D9B | 2,585395 | 1,16E-28 |
| NME3 | 2,577825 | 5,41E-07 |
| LOC100125 | 2,576905 | 9,66E-07 |
| METRNL | 2,576813 | 9,00E-17 |
| NUDT4 | 2,571725 | 1,42E-19 |
| ACOT9 | 2,570268 | 2,57E-10 |
| BHLHE40 | 2,568412 | 7,01E-16 |
| ZFP36L1 | 2,567718 | 4,46E-19 |
| TMEM63B | 2,567289 | 4,19E-15 |
| ZNF35 | 2,565776 | 1,57E-07 |
| KCNIP3 | 2,564923 | 3,55E-05 |
| LRRC37A3 | 2,562932 | 3,06E-06 |
| VPS37C | 2,559553 | 5,10E-17 |
| MSRB2 | 2,558971 | 4,39E-18 |
| VPS9D1-AS | 2,558108 | 5,28E-20 |
| PLEKHB1 | 2,557468 | 2,77E-05 |
| NEK3 | 2,548311 | 1,02E-05 |
| DNAJC15 | 2,546348 | 9,80E-17 |
| TMEM38A | 2,544813 | 0,000139 |
| AKT1S1 | 2,543487 | 8,57E-16 |
| SGPL1 | 2,541782 | 9,30E-20 |
| SPATC1L | 2,540355 | 3,36E-11 |
| DYRK1B | 2,539614 | 3,30E-11 |
| GALNT3 | 2,536527 | 1,99E-15 |
| COQ2 | 2,535299 | 3,20E-12 |
| EPB41L4A- | 2,534201 | 1,01E-08 |
| RAB34 | 2,528264 | 1,21E-12 |
| PFKM | 2,524629 | 3,96E-15 |
| ZCWPW1 | 2,523461 | 2,08E-05 |
| TANC2 | 2,518974 | 3,19E-14 |
| PCDHGC3 | 2,517327 | 2,49E-07 |
| CRISPLD1 | 2,516473 | 2,10E-06 |
| RRAS2 | 2,515458 | 6,82E-08 |
| ABCG1 | 2,510204 | 4,32E-10 |
| BATF | 2,505279 | 0,000683 |
| SERINC2 | 2,50511 | 3,62E-07 |
| COTL1 | 2,504854 | 2,61E-13 |
| AAED1 | 2,500685 | 0,000174 |
| PRKCD | 2,499758 | 1,18E-09 |
| FAM195A | 2,497627 | 3,05E-17 |
| MYO1B | 2,49661 | 2,79E-26 |
| CASZ1 | 2,494148 | 1,56E-09 |
| YBX2 | 2,487387 | 6,11E-16 |
| WWP1 | 2,484647 | 2,25E-11 |

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| MYL5 | 2,480527 | 0,000407 |
| CASKIN1 | 2,475997 | 6,20E-06 |
| ELF4 | 2,470606 | 3,73E-10 |
| GPR153 | 2,465669 | 2,54E-08 |
| PRELID1 | 2,462545 | 1,16E-18 |
| SPRYD3 | 2,462206 | 1,35E-19 |
| PODXL | 2,461062 | 2,42E-16 |
| ACSL1 | 2,460665 | 2,52E-12 |
| NOP16 | 2,458899 | 7,77E-27 |
| MAFG-AS1 | 2,458237 | 6,38E-06 |
| ISOC2 | 2,457596 | 1,31E-14 |
| TM7SF2 | 2,456464 | 1,07E-07 |
| FCHSD1 | 2,456003 | 3,91E-05 |
| EXPH5 | 2,455755 | 1,71E-12 |
| PPP1R13L | 2,452562 | 6,38E-09 |
| ACTN1 | 2,451875 | 6,23E-15 |
| SLC50A1 | 2,443989 | 4,12E-21 |
| ZNF783 | 2,442588 | 4,79E-06 |
| DYRK2 | 2,442516 | 7,35E-11 |
| SRGAP2B | 2,438895 | 5,95E-06 |
| C17orf58 | 2,435159 | 0,000779 |
| ATP6V1E2 | 2,432822 | 0,000132 |
| NMB | 2,426238 | 5,75E-06 |
| MICA | 2,425808 | 1,50E-06 |
| SLC7A5 | 2,42449 | 8,02E-19 |
| GOLGA2P7 | 2,422129 | 1,57E-05 |
| DTWD1 | 2,421131 | 5,55E-13 |
| C6orf1 | 2,419102 | 2,28E-09 |
| IDH1 | 2,411309 | 2,90E-30 |
| MPZL3 | 2,408871 | 1,81E-07 |
| GGA2 | 2,407005 | 7,32E-17 |
| LRP5 | 2,405615 | 1,33E-16 |
| SLC39A4 | 2,402283 | 1,02E-11 |
| RPL17 | 2,399199 | 8,20E-13 |
| BRIP1 | 2,3954 | 6,61E-24 |
| TMEM183F | 2,392067 | 5,93E-07 |
| ATP6V1C2 | 2,389595 | 5,60E-05 |
| CTAGE5 | 2,389569 | 1,65E-06 |
| KIAA0040 | 2,38933 | 3,42E-07 |
| KANK2 | 2,388883 | 1,39E-14 |
| SERINC5 | 2,387714 | 2,21E-12 |
| GRN | 2,386883 | 2,87E-10 |
| MYBL1 | 2,384082 | 2,38E-05 |
| PRMT6 | 2,383733 | 2,88E-23 |
| KIAA1191 | 2,380588 | 1,49E-24 |
| SYNGR2 | 2,380024 | 1,45E-12 |
| PPFIA3 | 2,378918 | 7,54E-15 |
| PQLC3 | 2,378798 | 9,68E-08 |
| MAP3K6 | 2,376035 | 2,54E-13 |
| ZNF620 | 2,375615 | 4,79E-07 |

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| ZSCAN12P1 | 2,369422 | 0,000282 |
| DLG5 | 2,369041 | 4,47E-25 |
| CSDE1 | 2,365221 | 7,22E-19 |
| SEZ6L2 | 2,362676 | 1,48E-11 |
| SPA17 | 2,359472 | 2,94E-06 |
| DUSP3 | 2,355476 | 2,72E-16 |
| IGF2BP2 | 2,351035 | 6,36E-05 |
| TXNRD3 | 2,347849 | 0,000453 |
| ZSCAN16 | 2,344905 | 7,06E-11 |
| PAIP2B | 2,344868 | 1,24E-08 |
| ABCB9 | 2,343744 | 8,73E-05 |
| NSD1 | 2,336226 | 8,44E-30 |
| PDLIM7 | 2,333354 | 3,19E-16 |
| GAS8 | 2,332942 | 4,04E-12 |
| GPC1 | 2,332219 | 4,17E-06 |
| ZNF572 | 2,327907 | 8,86E-05 |
| RAB3D | 2,325245 | 1,39E-13 |
| LY6E | 2,32448 | 4,77E-09 |
| TTC39B | 2,324464 | 0,000533 |
| SLC12A9 | 2,319851 | 1,57E-08 |
| PELI3 | 2,316108 | 4,21E-10 |
| PXN | 2,315516 | 4,86E-14 |
| B4GALT7 | 2,313494 | 2,41E-08 |
| F11R | 2,309275 | 2,92E-24 |
| PFKFB2 | 2,309104 | 2,74E-09 |
| DNAAF3 | 2,309049 | 4,99E-08 |
| P2RX4 | 2,308035 | 1,80E-10 |
| IDNK | 2,301288 | 3,22E-05 |
| FUOM | 2,298551 | 3,15E-06 |
| KDM1B | 2,28982 | 2,73E-07 |
| SEC11A | 2,288061 | 2,86E-26 |
| GRAMD3 | 2,286854 | 3,04E-06 |
| ANXA5 | 2,282527 | 4,02E-20 |
| TBK1 | 2,279727 | 1,22E-09 |
| CTSB | 2,278628 | 6,85E-09 |
| LOC728554 | 2,278525 | 1,22E-09 |
| LYPLAL1 | 2,275528 | 7,81E-08 |
| NRSN2 | 2,272602 | 3,88E-09 |
| SLC22A23 | 2,271001 | 1,46E-19 |
| ALCAM | 2,264385 | 9,89E-13 |
| FAM102B | 2,263146 | 5,47E-11 |
| TMCO4 | 2,262263 | 1,58E-07 |
| YES1 | 2,262002 | 1,25E-20 |
| MT2A | 2,261669 | 2,95E-13 |
| TNKS1BP1 | 2,25889 | 6,07E-22 |
| FBXO31 | 2,252405 | 1,46E-15 |
| ELL3 | 2,252067 | 2,59E-07 |
| FIS1 | 2,248581 | 1,01E-20 |
| TSEN34 | 2,247082 | 9,73E-15 |
| VAV2 | 2,246961 | 4,20E-15 |

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| GATAD1 | 2,246437 | 3,15E-08 |
| MYL12B | 2,246267 | 5,48E-25 |
| VSIG10L | 2,243556 | 5,32E-06 |
| COL9A2 | 2,243007 | 0,000116 |
| UNKL | 2,241225 | 2,02E-05 |
| JOSD2 | 2,239335 | 4,00E-06 |
| CREB3L4 | 2,237779 | 1,21E-13 |
| STYXL1 | 2,233487 | 3,35E-13 |
| ASNS | 2,230146 | 1,12E-07 |
| OPLAH | 2,23001 | 6,76E-09 |
| FAM131A | 2,228852 | 0,000284 |
| FZD5 | 2,226855 | 2,20E-07 |
| SLC2A11 | 2,219396 | 1,07E-07 |
| DNLZ | 2,216273 | 1,16E-11 |
| ATXN7L1 | 2,214065 | 1,36E-08 |
| ZNF217 | 2,212557 | 4,60E-24 |
| THG1L | 2,21155 | 1,27E-15 |
| TPMT | 2,210207 | 5,24E-06 |
| TPM1 | 2,209783 | 1,29E-14 |
| TMED9 | 2,209376 | 3,07E-10 |
| FHIT | 2,207686 | 0,000789 |
| TRAPPC2L | 2,20693 | 1,36E-18 |
| TBL1X | 2,199735 | 5,18E-09 |
| KDEL2 | 2,198976 | 1,21E-17 |
| FRS2 | 2,195377 | 1,38E-11 |
| KCTD15 | 2,192046 | 4,65E-07 |
| SLC25A39 | 2,182387 | 1,68E-20 |
| SPINT2 | 2,177898 | 2,04E-24 |
| ANKRD42 | 2,174559 | 3,20E-06 |
| DTX4 | 2,174169 | 6,14E-05 |
| DBN1 | 2,17405 | 5,62E-20 |
| FAM86EP | 2,171735 | 0,000237 |
| PUS7 | 2,167925 | 2,02E-12 |
| DOC2A | 2,164561 | 0,000165 |
| ROGDI | 2,164405 | 4,92E-10 |
| CLIP2 | 2,164212 | 3,37E-05 |
| RAB24 | 2,157374 | 8,76E-07 |
| GLMP | 2,153158 | 2,36E-06 |
| SH2B2 | 2,149436 | 2,14E-06 |
| CNIH2 | 2,146257 | 3,15E-05 |
| SLC52A2 | 2,142099 | 1,32E-14 |
| MICALL2 | 2,141636 | 1,52E-07 |
| MAPK12 | 2,141008 | 8,04E-05 |
| B9D1 | 2,138493 | 5,97E-05 |
| PTGR2 | 2,134965 | 1,16E-06 |
| TRIM2 | 2,131093 | 8,18E-07 |
| CHPF | 2,126416 | 1,42E-06 |
| ZSCAN21 | 2,117161 | 4,14E-12 |
| RAC3 | 2,114233 | 2,02E-10 |
| DYNLT1 | 2,112129 | 8,99E-12 |

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| NRBP1 | 2,111904 | 8,43E-19 |
| FNDC3B | 2,108807 | 9,94E-12 |
| RNLS | 2,108296 | 0,000468 |
| SLC35B3 | 2,104882 | 1,71E-07 |
| PIAS3 | 2,104628 | 6,30E-19 |
| MSX1 | 2,103827 | 4,52E-05 |
| THOC3 | 2,102831 | 9,68E-11 |
| ACOX3 | 2,102569 | 1,26E-08 |
| SIAH2 | 2,09937 | 4,27E-13 |
| GADD45A | 2,095003 | 2,44E-08 |
| DSTYK | 2,094099 | 2,12E-12 |
| ZSCAN9 | 2,086666 | 1,24E-05 |
| PLXNB1 | 2,078116 | 1,93E-06 |
| DNASE2 | 2,078058 | 2,18E-11 |
| KNOP1 | 2,077226 | 6,05E-16 |
| HYAL2 | 2,072416 | 8,57E-16 |
| PRCP | 2,071639 | 1,57E-10 |
| PPCDC | 2,069247 | 1,39E-07 |
| RARA | 2,068252 | 2,43E-12 |
| ZNF395 | 2,061578 | 9,54E-12 |
| EIF3E | 2,058378 | 5,80E-13 |
| ORC5 | 2,058153 | 3,09E-08 |
| GALNS | 2,057103 | 1,78E-07 |
| DTD1 | 2,057041 | 1,17E-10 |
| ASNA1 | 2,056704 | 1,44E-14 |
| RHOBTB3 | 2,05657 | 5,94E-15 |
| ZFP62 | 2,056509 | 1,05E-16 |
| EXD2 | 2,056027 | 1,02E-15 |
| ATP9A | 2,052515 | 1,26E-17 |
| ICK | 2,052252 | 2,94E-12 |
| RUSC1 | 2,051954 | 6,75E-15 |
| ATP6V0E1 | 2,050372 | 2,03E-08 |
| CD63 | 2,050289 | 5,30E-10 |
| OSCP1 | 2,048691 | 0,000819 |
| PER3 | 2,048083 | 0,000503 |
| RUFY1 | 2,047696 | 4,23E-14 |
| UEVLD | 2,045737 | 0,000134 |
| SNX24 | 2,044607 | 1,90E-06 |
| DAG1 | 2,04319 | 1,32E-12 |
| ZNF485 | 2,039627 | 0,000193 |
| GIPC1 | 2,038946 | 1,15E-10 |
| SMURF1 | 2,038359 | 4,62E-15 |
| KCTD3 | 2,037843 | 3,74E-17 |
| CTTNBP2N1 | 2,037159 | 9,67E-10 |
| ARHGAP10 | 2,036239 | 3,83E-11 |
| ISYNA1 | 2,035948 | 3,57E-14 |
| TMEM9 | 2,033915 | 3,30E-17 |
| SNX27 | 2,033463 | 1,22E-13 |
| ID3 | 2,03315 | 5,95E-06 |
| C7orf50 | 2,029052 | 4,52E-11 |

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| APRT | 2,02883 | 1,50E-12 |
| CPLX1 | 2,025532 | 3,06E-05 |
| LMAN2 | 2,02384 | 1,06E-11 |
| USP8 | 2,023325 | 1,03E-19 |
| CELSR2 | 2,023279 | 1,27E-13 |
| ANO10 | 2,020196 | 6,85E-06 |
| IER2 | 2,014347 | 8,69E-05 |
| OSBPL1A | 2,010952 | 3,85E-12 |
| KLHL22 | 2,008793 | 2,29E-06 |
| C4orf48 | 2,005191 | 1,35E-06 |
| SNX18 | 2,00356 | 1,85E-10 |
| IQSEC1 | 2,003257 | 1,78E-12 |
| RAD51C | 1,997582 | 4,69E-20 |
| FAF2 | 1,99713 | 5,27E-19 |
| USP31 | 1,996081 | 1,83E-08 |
| LTBP3 | 1,990633 | 3,05E-12 |
| HARS2 | 1,98967 | 1,61E-15 |
| FTH1 | 1,985734 | 1,86E-07 |
| ANXA2 | 1,984334 | 4,14E-17 |
| FAM129B | 1,98312 | 2,05E-12 |
| ARHGAP12 | 1,982867 | 1,95E-06 |
| LDLRAP1 | 1,980934 | 0,00026 |
| HNRNPAB | 1,977358 | 2,40E-19 |
| MEPCE | 1,973047 | 7,25E-15 |
| VPS72 | 1,972077 | 7,07E-10 |
| MYL12A | 1,968622 | 1,28E-17 |
| HEATR5A | 1,967794 | 7,96E-10 |
| C5 | 1,967231 | 0,000559 |
| TRAPPC6A | 1,964882 | 9,80E-08 |
| ACACB | 1,959299 | 4,95E-08 |
| TMOD3 | 1,958007 | 9,81E-20 |
| POLR3C | 1,956652 | 5,33E-07 |
| TMTC3 | 1,955918 | 1,38E-09 |
| GSTM4 | 1,95454 | 1,23E-12 |
| GNB2 | 1,95051 | 2,66E-15 |
| NAAA | 1,950375 | 3,82E-06 |
| DNAJA4 | 1,950346 | 1,49E-06 |
| GCSH | 1,949564 | 2,29E-14 |
| NBPF9 | 1,946154 | 2,96E-06 |
| TRAF4 | 1,943589 | 1,93E-14 |
| HEBP1 | 1,942929 | 9,20E-09 |
| DDAH2 | 1,937674 | 2,15E-11 |
| KHK | 1,936154 | 1,59E-09 |
| NAMPT | 1,933522 | 5,46E-17 |
| KDM5B | 1,929636 | 3,00E-10 |
| HS1BP3 | 1,928572 | 0,000215 |
| KLHL36 | 1,928344 | 5,28E-13 |
| DUS4L | 1,926907 | 8,08E-09 |
| SLC16A13 | 1,925784 | 0,000534 |
| NRAV | 1,923028 | 5,76E-07 |

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| SRD5A1 | 1,922843 | 8,60E-07 |
| MFSD3 | 1,92224 | 1,96E-12 |
| THOC7 | 1,921512 | 1,42E-13 |
| RNF208 | 1,920684 | 2,58E-06 |
| GPSM2 | 1,919449 | 2,39E-14 |
| SAPCD2 | 1,917438 | 1,27E-09 |
| SLC7A11 | 1,913377 | 2,90E-09 |
| FSCN1 | 1,911618 | 1,73E-09 |
| MAPK6 | 1,911183 | 1,27E-18 |
| ERF | 1,910231 | 2,93E-07 |
| CORO1B | 1,90939 | 1,26E-06 |
| DYNC2H1 | 1,907388 | 6,15E-05 |
| HTATIP2 | 1,90026 | 1,38E-07 |
| DHTKD1 | 1,899731 | 2,25E-13 |
| TMSB10 | 1,899365 | 1,28E-10 |
| SLC3A2 | 1,896433 | 1,01E-16 |
| CANX | 1,895731 | 9,67E-16 |
| CDC42SE1 | 1,895236 | 5,97E-13 |
| TRIM3 | 1,893438 | 0,000368 |
| RPS6KL1 | 1,892957 | 0,000369 |
| IMP4 | 1,892705 | 6,22E-18 |
| PLBD2 | 1,887409 | 3,46E-07 |
| LTBP1 | 1,887118 | 1,31E-11 |
| AGTRAP | 1,881971 | 1,73E-06 |
| ATP11A | 1,880161 | 3,55E-06 |
| IQCK | 1,877337 | 8,92E-06 |
| PCYOX1 | 1,876807 | 2,44E-09 |
| ALKBH2 | 1,875532 | 2,28E-08 |
| TTC8 | 1,869912 | 2,85E-08 |
| FAM227B | 1,869401 | 0,000211 |
| SLC35B2 | 1,867366 | 1,82E-09 |
| MARVELD1 | 1,866656 | 4,65E-07 |
| LNX2 | 1,861283 | 3,95E-14 |
| ECHS1 | 1,860965 | 2,09E-10 |
| CCDC6 | 1,857749 | 1,74E-13 |
| VMP1 | 1,857694 | 4,97E-13 |
| RAB12 | 1,857647 | 3,94E-10 |
| RGL2 | 1,856931 | 6,74E-05 |
| TMEM241 | 1,853832 | 1,60E-06 |
| ADCK1 | 1,853222 | 8,62E-06 |
| CNNM4 | 1,851102 | 2,35E-09 |
| VTI1B | 1,850684 | 1,74E-09 |
| SLC4A2 | 1,850421 | 1,04E-15 |
| ANKEF1 | 1,849492 | 3,27E-07 |
| DDX41 | 1,849106 | 5,25E-17 |
| CYP51A1 | 1,848237 | 1,30E-15 |
| CLDN12 | 1,848174 | 1,37E-05 |
| ANKRD50 | 1,846818 | 2,55E-14 |
| CYB5R1 | 1,838843 | 2,22E-06 |
| TP53INP2 | 1,833244 | 0,000366 |

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| BPHL | 1,822595 | 1,66E-07 |
| ATMIN | 1,822505 | 3,40E-15 |
| KANSL1L | 1,819918 | 0,000874 |
| HES4 | 1,817268 | 0,000315 |
| GNPNAT1 | 1,813997 | 3,76E-12 |
| RHOC | 1,813916 | 3,56E-07 |
| FAM63A | 1,813071 | 0,000307 |
| ADI1 | 1,81254 | 8,69E-12 |
| TMED3 | 1,804151 | 2,06E-09 |
| GNB2L1 | 1,803625 | 8,80E-12 |
| SLC44A1 | 1,80313 | 7,64E-14 |
| MGST3 | 1,801296 | 8,12E-06 |
| COMTD1 | 1,800736 | 9,14E-09 |
| NCKAP1 | 1,799229 | 8,69E-12 |
| SLC39A11 | 1,795094 | 5,14E-05 |
| MRPL24 | 1,794068 | 3,41E-09 |
| CRTAP | 1,792038 | 2,03E-11 |
| NPM1 | 1,790059 | 4,62E-15 |
| C1GALT1C1 | 1,78922 | 0,000131 |
| ABCD1 | 1,786642 | 0,000795 |
| SIRT5 | 1,784023 | 4,28E-08 |
| FBXW9 | 1,77854 | 2,77E-09 |
| MAML1 | 1,777726 | 3,19E-10 |
| SOX4 | 1,776872 | 1,55E-12 |
| IMPDH1 | 1,776529 | 9,21E-12 |
| B4GALT1 | 1,772425 | 2,03E-11 |
| EGFL7 | 1,76919 | 7,27E-07 |
| SLC29A3 | 1,768482 | 0,000623 |
| NDUFB9 | 1,768455 | 3,58E-09 |
| ITPKC | 1,768037 | 1,82E-07 |
| ETS2 | 1,767145 | 3,46E-10 |
| AEN | 1,765436 | 7,14E-13 |
| POLR2J | 1,760485 | 2,59E-10 |
| CYB5D2 | 1,758297 | 3,15E-05 |
| STRA13 | 1,758257 | 1,48E-13 |
| BMPR1A | 1,756095 | 1,10E-08 |
| CYFIP1 | 1,754003 | 1,96E-13 |
| ITFG3 | 1,753639 | 2,35E-07 |
| DLD | 1,752615 | 2,81E-09 |
| PPP1R16A | 1,751617 | 1,27E-10 |
| UBL3 | 1,748478 | 4,84E-08 |
| APLP2 | 1,740871 | 5,89E-16 |
| ARPC1B | 1,740292 | 2,06E-09 |
| FAM185A | 1,738997 | 0,00027 |
| MORN2 | 1,737878 | 0,000403 |
| AKTIP | 1,735471 | 0,000116 |
| MAP3K9 | 1,735043 | 2,63E-07 |
| SPG21 | 1,733853 | 3,57E-13 |
| PYCARD | 1,73377 | 0,000153 |
| SYAP1 | 1,732194 | 3,66E-11 |

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| PNRC1 | 1,729324 | 1,66E-07 |
| OCRL | 1,725617 | 1,49E-07 |
| ZNF687 | 1,721023 | 1,45E-13 |
| NEU1 | 1,719258 | 0,000385 |
| TMEM251 | 1,71794 | 6,42E-08 |
| GABPB1-AS | 1,717407 | 0,000489 |
| CLTB | 1,716208 | 1,73E-05 |
| SMAD3 | 1,716046 | 0,000426 |
| XPOT | 1,714029 | 3,09E-10 |
| GATSL2 | 1,711863 | 2,68E-08 |
| CACNB3 | 1,711712 | 3,37E-11 |
| WDR83OS | 1,710454 | 6,06E-13 |
| AIMP2 | 1,70949 | 1,52E-10 |
| TACO1 | 1,709474 | 1,86E-09 |
| PICK1 | 1,705587 | 4,33E-05 |
| FRMD4A | 1,704951 | 6,28E-05 |
| HBP1 | 1,703608 | 0,000157 |
| DLGAP4 | 1,703029 | 3,84E-09 |
| ZBTB12 | 1,702798 | 0,000639 |
| ARPC1A | 1,700596 | 1,32E-10 |
| ACTR3B | 1,697739 | 3,21E-06 |
| IFT22 | 1,696669 | 8,48E-09 |
| AK3 | 1,695462 | 2,11E-08 |
| RNF103 | 1,695456 | 2,51E-06 |
| PHTF1 | 1,695451 | 0,000392 |
| RPP40 | 1,695219 | 8,76E-07 |
| RMND1 | 1,693265 | 5,02E-10 |
| FAM65A | 1,691866 | 4,39E-10 |
| ITGA2 | 1,691673 | 4,16E-05 |
| SMARCD2 | 1,691069 | 8,86E-13 |
| TMEM5 | 1,690062 | 1,86E-09 |
| DCAF4 | 1,688446 | 0,000151 |
| TRAK2 | 1,688223 | 6,71E-11 |
| ARMC10 | 1,684134 | 7,57E-12 |
| FAHD1 | 1,684026 | 1,52E-09 |
| ZBTB41 | 1,683172 | 3,28E-07 |
| DCLRE1B | 1,682057 | 4,68E-09 |
| NDUFV3 | 1,678027 | 5,37E-12 |
| ZNF3 | 1,677977 | 1,54E-10 |
| BRPF3 | 1,677158 | 1,29E-11 |
| GGCX | 1,674451 | 4,76E-08 |
| DPCD | 1,673772 | 6,75E-05 |
| PTRH2 | 1,670848 | 7,76E-09 |
| CPNE3 | 1,670335 | 1,00E-12 |
| TCEAL4 | 1,6701 | 3,68E-12 |
| PDXK | 1,668159 | 1,64E-09 |
| HPCAL1 | 1,664853 | 2,02E-05 |
| FAM102A | 1,663729 | 1,62E-11 |
| ERI2 | 1,661649 | 5,21E-07 |
| SH3YL1 | 1,659777 | 3,48E-06 |

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| DIRC2 | 1,659023 | 0,000303 |
| ZNF768 | 1,657941 | 4,85E-11 |
| GAS5 | 1,657568 | 0,000969 |
| CEBPZOS | 1,657509 | 3,71E-07 |
| SLC44A2 | 1,652677 | 6,41E-10 |
| NPC2 | 1,652163 | 9,41E-08 |
| DNAJC2 | 1,652035 | 1,13E-12 |
| TMEM102 | 1,648836 | 8,49E-05 |
| BUD31 | 1,648786 | 7,83E-11 |
| RNF44 | 1,646388 | 5,52E-10 |
| NGFRAP1 | 1,645649 | 8,78E-13 |
| IFRD1 | 1,645319 | 0,000836 |
| DNAJC1 | 1,645018 | 2,77E-09 |
| TSPAN31 | 1,644609 | 0,0004 |
| PPDPF | 1,644153 | 1,76E-07 |
| C12orf66 | 1,642898 | 0,000383 |
| CFL2 | 1,641238 | 0,000161 |
| PIGB | 1,640869 | 7,84E-06 |
| LYSMD2 | 1,639317 | 2,65E-06 |
| CYBA | 1,638581 | 1,03E-07 |
| PPP1R37 | 1,636879 | 0,000321 |
| TRPM7 | 1,636285 | 2,41E-08 |
| SCRIB | 1,635161 | 1,33E-09 |
| FAM86C1 | 1,634482 | 2,62E-06 |
| STUB1 | 1,633495 | 3,56E-11 |
| KARS | 1,632385 | 1,96E-09 |
| RNF122 | 1,631524 | 0,000367 |
| GIN1 | 1,627993 | 0,000328 |
| PHLPP1 | 1,626128 | 3,97E-10 |
| ATG101 | 1,625546 | 3,99E-08 |
| SDCCAG3 | 1,625015 | 0,000818 |
| TRIM33 | 1,623884 | 1,77E-11 |
| ZKSCAN1 | 1,622987 | 5,72E-13 |
| AP2S1 | 1,622921 | 1,32E-09 |
| TIGD5 | 1,622783 | 0,000318 |
| PLEKHF2 | 1,622125 | 9,22E-10 |
| SLC37A1 | 1,621751 | 0,000568 |
| CHCHD5 | 1,621725 | 5,76E-08 |
| SGK223 | 1,620567 | 1,18E-05 |
| TVP23B | 1,620441 | 3,27E-06 |
| TMEM134 | 1,618455 | 4,95E-06 |
| NAPG | 1,618152 | 1,40E-06 |
| MANBAL | 1,617899 | 3,27E-08 |
| PIP4K2C | 1,616431 | 4,16E-07 |
| BTG2 | 1,611756 | 0,000398 |
| CCDC47 | 1,611573 | 1,97E-12 |
| LAMTOR4 | 1,611057 | 4,15E-11 |
| MTIF3 | 1,609839 | 3,70E-06 |
| FAM50A | 1,60699 | 2,64E-10 |
| CYC1 | 1,605585 | 7,20E-09 |

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| ZNF219 | 1,603483 | 1,34E-07 |
| SMURF2 | 1,602748 | 1,89E-07 |
| ZNF778 | 1,599922 | 9,74E-07 |
| HILPDA | 1,599088 | 3,02E-06 |
| RDH13 | 1,597491 | 1,69E-07 |
| MOSPD3 | 1,596098 | 0,000631 |
| GPR89A | 1,595283 | 3,23E-05 |
| TMBIM4 | 1,594029 | 7,93E-07 |
| SLC35E3 | 1,59253 | 3,74E-06 |
| MDM2 | 1,591937 | 3,14E-05 |
| NRAS | 1,590777 | 1,91E-10 |
| IFT43 | 1,589247 | 6,07E-06 |
| AGPAT3 | 1,587047 | 6,81E-09 |
| HRSP12 | 1,585168 | 5,99E-05 |
| SLC25A24 | 1,583891 | 1,01E-10 |
| BNIP3 | 1,583478 | 6,88E-09 |
| ATG14 | 1,581801 | 0,000555 |
| NUBP1 | 1,578876 | 3,09E-05 |
| SCARB1 | 1,576463 | 7,71E-07 |
| POR | 1,575869 | 1,90E-10 |
| CALM1 | 1,575776 | 8,93E-09 |
| RHOQ | 1,575628 | 2,64E-06 |
| CLOCK | 1,575539 | 4,48E-08 |
| RNF115 | 1,568621 | 9,83E-08 |
| LOC642852 | 1,566099 | 0,000171 |
| BCAP31 | 1,56451 | 6,48E-08 |
| ITPK1 | 1,563378 | 2,44E-08 |
| C12orf45 | 1,562611 | 8,19E-06 |
| ZNF786 | 1,562526 | 1,48E-06 |
| CLN3 | 1,561745 | 3,04E-05 |
| EPHX1 | 1,559897 | 0,001015 |
| MRPS21 | 1,559756 | 7,91E-12 |
| LLPH | 1,556938 | 7,41E-11 |
| PRDX4 | 1,556391 | 4,25E-07 |
| PRDX2 | 1,554877 | 4,23E-08 |
| HSCB | 1,554837 | 3,40E-05 |
| NAB2 | 1,553778 | 0,000373 |
| PSMD4 | 1,553682 | 6,54E-14 |
| TMEM192 | 1,553109 | 1,96E-06 |
| GLRX2 | 1,550178 | 2,60E-05 |
| PNMA1 | 1,54782 | 1,02E-08 |
| APH1A | 1,547485 | 3,03E-11 |
| ZDHHC21 | 1,546643 | 0,000202 |
| IMPA2 | 1,544536 | 3,79E-07 |
| GBA | 1,543074 | 1,80E-05 |
| FLAD1 | 1,542251 | 5,80E-11 |
| ILVBL | 1,539495 | 5,17E-08 |
| LEO1 | 1,535061 | 1,61E-12 |
| BRI3 | 1,534563 | 1,02E-07 |
| SLC19A2 | 1,532016 | 0,000284 |

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| SMAGP | 1,531767 | 4,46E-07 |
| TRAP1 | 1,530174 | 4,01E-08 |
| BOLA1 | 1,529471 | 3,21E-06 |
| ZNF627 | 1,527652 | 1,59E-06 |
| ZNF629 | 1,527448 | 2,17E-08 |
| SLC25A10 | 1,527095 | 3,07E-06 |
| RBAK | 1,525599 | 1,17E-05 |
| THNSL1 | 1,525027 | 1,54E-07 |
| SIL1 | 1,525018 | 2,12E-05 |
| PAM | 1,522979 | 2,11E-05 |
| TMEM168 | 1,518232 | 4,61E-08 |
| DYNLL2 | 1,518149 | 4,78E-12 |
| TIMM9 | 1,515675 | 2,28E-05 |
| YIF1A | 1,514666 | 1,56E-10 |
| WIBG | 1,514027 | 8,81E-08 |
| IQCH-AS1 | 1,513697 | 0,000164 |
| TAF13 | 1,513058 | 3,94E-05 |
| TMEM14A | 1,510311 | 5,61E-05 |
| HMG20B | 1,508701 | 1,08E-10 |
| ANKIB1 | 1,508467 | 6,27E-08 |
| TIGD6 | 1,505229 | 0,000336 |
| FBXW4 | 1,504518 | 2,04E-06 |
| IER5 | 1,504305 | 1,49E-06 |
| RNASET2 | 1,503521 | 0,000191 |
| USP3 | 1,502456 | 8,92E-10 |
| MDH2 | 1,501817 | 8,87E-08 |
| SLC39A6 | 1,50136 | 1,07E-06 |
| TRIM24 | 1,499819 | 8,66E-10 |
| OTUD7B | 1,498359 | 1,65E-08 |
| CCDC112 | 1,498161 | 3,73E-05 |
| ARPP19 | 1,495216 | 4,36E-11 |
| ARRDC3 | 1,493257 | 5,08E-05 |
| ACOT13 | 1,492961 | 6,83E-07 |
| KDELRL1 | 1,490497 | 9,84E-09 |
| SIMC1 | 1,487332 | 0,000679 |
| TRMT12 | 1,486723 | 9,26E-06 |
| TRMT5 | 1,483955 | 3,68E-08 |
| TPRN | 1,481973 | 1,61E-06 |
| EBAG9 | 1,481905 | 2,66E-06 |
| MGC72080 | 1,481407 | 1,86E-05 |
| NIT2 | 1,481369 | 6,06E-08 |
| METTL8 | 1,479558 | 5,54E-08 |
| BAG3 | 1,477726 | 0,000255 |
| MTCH1 | 1,477652 | 3,21E-10 |
| TKFC | 1,476742 | 1,03E-07 |
| RP9 | 1,476272 | 1,77E-05 |
| DAAM1 | 1,475696 | 2,26E-07 |
| PAK4 | 1,475589 | 7,84E-08 |
| PDCD4 | 1,475508 | 4,26E-07 |
| SLC25A30 | 1,47459 | 2,07E-06 |

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| AFG3L2 | 1,47421 | 2,03E-11 |
| NR2C2AP | 1,473447 | 0,000787 |
| RNF13 | 1,468237 | 2,57E-08 |
| STX7 | 1,468133 | 3,61E-05 |
| PAWR | 1,467924 | 3,55E-05 |
| KLF7 | 1,467201 | 0,00036 |
| NSMCE2 | 1,46262 | 8,90E-07 |
| GDE1 | 1,461951 | 1,10E-06 |
| VRK2 | 1,45659 | 3,08E-05 |
| CRTC1 | 1,454171 | 5,26E-07 |
| PTPN18 | 1,451674 | 9,22E-07 |
| SRGAP2 | 1,450894 | 2,65E-10 |
| ARL6IP1 | 1,449268 | 4,95E-11 |
| PPP1R15A | 1,447541 | 0,000143 |
| TMEM205 | 1,446418 | 4,81E-05 |
| EFCAB11 | 1,444752 | 0,000161 |
| DNPH1 | 1,444372 | 4,99E-07 |
| PPP1R3D | 1,443388 | 0,000376 |
| MED21 | 1,442432 | 6,03E-06 |
| SEMA4B | 1,440445 | 2,16E-05 |
| ZMIZ2 | 1,44007 | 7,33E-11 |
| SLC35F2 | 1,436611 | 9,09E-05 |
| SNHG16 | 1,435611 | 1,73E-08 |
| ZBTB4 | 1,435378 | 8,22E-09 |
| TMEM159 | 1,432902 | 0,00027 |
| FUT8 | 1,432162 | 1,42E-09 |
| ZMIZ1 | 1,430254 | 2,15E-07 |
| MPDU1 | 1,429669 | 9,83E-07 |
| HIPK1 | 1,428048 | 6,80E-08 |
| PSMB5 | 1,427908 | 2,23E-08 |
| PTEN | 1,424975 | 9,73E-09 |
| INPPL1 | 1,424892 | 2,52E-09 |
| ARF3 | 1,421318 | 3,47E-08 |
| ZNF74 | 1,421106 | 1,22E-07 |
| MIPEP | 1,420795 | 1,23E-06 |
| TMEM183 | 1,419527 | 1,05E-06 |
| BCL2L11 | 1,417491 | 1,38E-05 |
| NMD3 | 1,417248 | 2,93E-07 |
| DHCR7 | 1,415543 | 2,53E-05 |
| STK36 | 1,415406 | 5,24E-05 |
| MRFAP1 | 1,414993 | 1,04E-08 |
| PSEN1 | 1,413366 | 1,45E-07 |
| RWDD2B | 1,411449 | 4,19E-05 |
| CD3EAP | 1,409149 | 1,13E-05 |
| GABPB1 | 1,406968 | 3,36E-06 |
| COX5B | 1,406201 | 6,88E-09 |
| SPOPL | 1,402499 | 2,12E-05 |
| GPATCH2 | 1,401973 | 5,94E-06 |
| GNS | 1,401511 | 0,000559 |
| MFSD10 | 1,39572 | 1,61E-07 |

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| ESRRA | 1,39566 | 1,07E-07 |
| MXD4 | 1,394457 | 0,001013 |
| TIGAR | 1,393007 | 3,30E-05 |
| OSGIN2 | 1,392351 | 4,74E-06 |
| ACAA2 | 1,391852 | 3,48E-05 |
| BCAP29 | 1,390186 | 1,12E-06 |
| PSMC2 | 1,390047 | 2,04E-09 |
| NTMT1 | 1,387835 | 4,07E-08 |
| SLC39A1 | 1,387611 | 7,87E-05 |
| ZNF787 | 1,387369 | 6,34E-07 |
| ENSA | 1,386356 | 7,84E-12 |
| TOMM7 | 1,384766 | 1,07E-06 |
| ARFIP2 | 1,38449 | 3,81E-06 |
| ALDH1B1 | 1,380067 | 3,62E-07 |
| PIK3R2 | 1,37896 | 5,61E-05 |
| KIF20A | 1,378892 | 1,53E-07 |
| FKBPL | 1,377681 | 0,000177 |
| TNIP2 | 1,376207 | 6,24E-08 |
| SLC25A1 | 1,375212 | 2,94E-05 |
| CARM1 | 1,374885 | 5,26E-07 |
| KRCC1 | 1,372927 | 7,51E-05 |
| MGAT1 | 1,372396 | 3,50E-06 |
| GTF2IRD2B | 1,371907 | 0,000565 |
| TES | 1,371035 | 0,000195 |
| PTPMT1 | 1,371002 | 1,12E-06 |
| MRPS2 | 1,367544 | 9,91E-08 |
| NBN | 1,367307 | 2,72E-10 |
| ARL8A | 1,366093 | 2,81E-07 |
| METTL2A | 1,365909 | 7,99E-06 |
| COPS6 | 1,365459 | 2,25E-07 |
| KDM6B | 1,365147 | 2,60E-07 |
| ATP5J2 | 1,363248 | 6,53E-06 |
| C5orf30 | 1,362962 | 1,92E-06 |
| FAM177A1 | 1,362826 | 2,89E-05 |
| ASAH1 | 1,360368 | 0,000123 |
| ENDOV | 1,360151 | 0,000103 |
| UIMC1 | 1,359128 | 0,000358 |
| SWI5 | 1,357365 | 1,31E-05 |
| PYCRL | 1,35671 | 5,18E-06 |
| TNPO2 | 1,3559 | 0,000522 |
| CNOT6 | 1,353709 | 2,11E-08 |
| ACTN4 | 1,352529 | 6,39E-06 |
| RPL26L1 | 1,347391 | 4,30E-05 |
| GOLGA5 | 1,346393 | 1,88E-05 |
| RHEB | 1,345284 | 3,35E-07 |
| OGG1 | 1,344886 | 3,23E-05 |
| SCAMP1 | 1,343543 | 1,85E-06 |
| MCL1 | 1,342561 | 9,26E-11 |
| LGALS1 | 1,342401 | 0,000756 |
| KIF3B | 1,342306 | 1,80E-06 |

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| SAT1 | 1,341889 | 4,22E-05 |
| RAB1A | 1,33925 | 7,31E-06 |
| MTERF1 | 1,335725 | 0,000233 |
| SMC6 | 1,334113 | 5,34E-06 |
| CENPB | 1,333778 | 7,70E-08 |
| NFIC | 1,332528 | 3,71E-08 |
| JUND | 1,331575 | 0,00042 |
| ALKBH4 | 1,328761 | 5,41E-06 |
| TAGLN2 | 1,328738 | 2,57E-06 |
| TIPARP | 1,326479 | 0,000289 |
| SLC29A4 | 1,323861 | 0,000169 |
| SLIRP | 1,323231 | 7,15E-06 |
| NUMA1 | 1,322705 | 1,12E-09 |
| UQCC3 | 1,322663 | 2,58E-06 |
| SIPA1L1 | 1,322662 | 6,82E-08 |
| KCMF1 | 1,322607 | 1,64E-06 |
| DNAJC30 | 1,32237 | 4,56E-05 |
| ARF5 | 1,321948 | 3,82E-08 |
| TCTN3 | 1,320822 | 9,42E-06 |
| RAB3IP | 1,320721 | 1,45E-08 |
| TSTA3 | 1,315143 | 1,71E-07 |
| PRDX6 | 1,314907 | 4,59E-06 |
| TAMM41 | 1,313512 | 3,24E-05 |
| YIPF2 | 1,308829 | 1,41E-06 |
| PLP2 | 1,308764 | 1,21E-05 |
| COX4I1 | 1,308619 | 1,20E-07 |
| DNAAF2 | 1,308066 | 3,15E-06 |
| DHRS7B | 1,307009 | 6,47E-05 |
| SLC35F5 | 1,305509 | 0,000726 |
| TBCC | 1,30447 | 3,33E-05 |
| PABPC1 | 1,304254 | 2,04E-07 |
| PEX13 | 1,303558 | 9,82E-06 |
| RBSN | 1,301577 | 7,90E-06 |
| MRPS25 | 1,300009 | 3,33E-06 |
| PSRC1 | 1,298655 | 0,00027 |
| ATP6V0E2 | 1,297221 | 0,000379 |
| TMEM141 | 1,295593 | 4,94E-07 |
| SLC24A1 | 1,295401 | 3,44E-05 |
| NLN | 1,294683 | 4,13E-08 |
| DARS2 | 1,292713 | 4,26E-07 |
| SUV420H1 | 1,291941 | 1,91E-07 |
| HSBP1 | 1,290924 | 1,82E-08 |
| MED13L | 1,290741 | 1,64E-06 |
| NGRN | 1,288507 | 4,53E-08 |
| CRK | 1,288012 | 2,14E-08 |
| DUSP16 | 1,287984 | 1,50E-06 |
| HDDC2 | 1,28789 | 4,72E-07 |
| TMEM120/ | 1,287618 | 0,000254 |
| CLTC | 1,285303 | 6,82E-06 |
| BLOC1S3 | 1,284653 | 0,000144 |

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| CERS2 | 1,282729 | 2,02E-08 |
| SHB | 1,282272 | 0,000485 |
| TFG | 1,281317 | 1,26E-07 |
| DCXR | 1,280824 | 3,94E-06 |
| C20orf27 | 1,280484 | 8,81E-06 |
| NQO2 | 1,280303 | 2,99E-05 |
| WDR73 | 1,279347 | 0,000741 |
| CHCHD4 | 1,27814 | 0,000542 |
| PTK7 | 1,277313 | 5,22E-07 |
| COX6C | 1,27709 | 4,80E-08 |
| FAM3A | 1,274302 | 1,24E-05 |
| BCL2L1 | 1,271042 | 0,000176 |
| ZNF252P | 1,270595 | 5,98E-07 |
| NACC1 | 1,26997 | 3,12E-07 |
| SLC10A3 | 1,26863 | 0,000511 |
| ATP5H | 1,266764 | 4,20E-06 |
| PDAP1 | 1,266724 | 3,18E-08 |
| MAP3K1 | 1,266641 | 7,07E-05 |
| ZBTB42 | 1,266526 | 1,89E-05 |
| FOSL2 | 1,266451 | 0,000355 |
| TAF11 | 1,265393 | 7,52E-07 |
| COA4 | 1,264717 | 7,95E-07 |
| SHFM1 | 1,264474 | 1,76E-08 |
| EARS2 | 1,2641 | 3,18E-06 |
| TMEM127 | 1,264048 | 8,76E-06 |
| MCCC2 | 1,263074 | 2,20E-06 |
| KLHDC10 | 1,261086 | 7,88E-07 |
| WDYHV1 | 1,259159 | 0,000439 |
| ZNF480 | 1,257215 | 2,82E-05 |
| FKBP4 | 1,253838 | 8,69E-05 |
| ATP5D | 1,253279 | 2,21E-06 |
| MRPS12 | 1,253164 | 5,28E-06 |
| RMDN1 | 1,251834 | 5,33E-06 |
| RNF149 | 1,251721 | 7,89E-06 |
| RINT1 | 1,251463 | 7,97E-05 |
| UBE3C | 1,247648 | 1,99E-06 |
| RPL30 | 1,247488 | 8,98E-05 |
| CBLL1 | 1,246816 | 3,99E-06 |
| ZNF623 | 1,246344 | 3,47E-05 |
| MPP5 | 1,246325 | 1,01E-06 |
| TEX2 | 1,245697 | 2,96E-07 |
| NDUFB10 | 1,242941 | 1,32E-05 |
| ECE2 | 1,241076 | 0,000764 |
| TMEM43 | 1,239009 | 5,47E-05 |
| MAPK9 | 1,237438 | 6,92E-07 |
| SYPL1 | 1,23553 | 5,00E-07 |
| CNOT4 | 1,234823 | 1,10E-05 |
| HMGB3 | 1,234822 | 3,69E-09 |
| FAM83D | 1,233783 | 4,86E-06 |
| MLKL | 1,233525 | 0,000523 |

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| CHURC1 | 1,233449 | 0,000131 |
| DLG3 | 1,232295 | 1,41E-06 |
| RBM8A | 1,231705 | 6,49E-08 |
| PEA15 | 1,231642 | 1,71E-05 |
| PTPN12 | 1,229779 | 3,04E-06 |
| SFXN4 | 1,229605 | 7,52E-06 |
| PLCB3 | 1,227992 | 0,000111 |
| ZNF398 | 1,227973 | 6,71E-07 |
| MRPL14 | 1,22782 | 5,07E-06 |
| PITPNC1 | 1,227416 | 2,28E-06 |
| DSTN | 1,22707 | 0,00012 |
| TARS2 | 1,226081 | 2,61E-05 |
| CUX1 | 1,225623 | 1,28E-06 |
| ATP1A1 | 1,22511 | 4,14E-06 |
| NANS | 1,222446 | 0,000335 |
| C6orf47 | 1,221213 | 2,61E-06 |
| SF3B4 | 1,220983 | 9,23E-07 |
| CBX2 | 1,220275 | 1,36E-06 |
| GCC1 | 1,220224 | 8,46E-06 |
| RNF14 | 1,220045 | 0,000122 |
| AVL9 | 1,218866 | 1,07E-07 |
| SETDB1 | 1,217902 | 2,72E-06 |
| TBL2 | 1,216717 | 2,45E-05 |
| NEO1 | 1,216582 | 7,57E-06 |
| EMC2 | 1,215569 | 0,000143 |
| C21orf33 | 1,215361 | 0,000227 |
| HDDC3 | 1,213456 | 0,000179 |
| SOX12 | 1,213283 | 1,11E-05 |
| PIK3C2A | 1,212936 | 0,000254 |
| NPC1 | 1,210725 | 7,70E-06 |
| ZBTB9 | 1,204243 | 0,000257 |
| EEFSEC | 1,203353 | 0,000325 |
| TMEM87B | 1,200912 | 0,00059 |
| SLC37A4 | 1,199896 | 2,07E-06 |
| RPL12 | 1,199791 | 0,000193 |
| HEBP2 | 1,196898 | 0,000787 |
| PSMB4 | 1,195779 | 2,71E-06 |
| ZNF277 | 1,195291 | 0,00013 |
| MREG | 1,192551 | 4,67E-05 |
| POLR1D | 1,191314 | 4,64E-08 |
| PSMD7 | 1,189686 | 2,34E-08 |
| CSTB | 1,187441 | 4,84E-06 |
| NFKBIL1 | 1,182931 | 5,36E-05 |
| PTTG1IP | 1,182912 | 9,65E-07 |
| PRKCI | 1,18216 | 2,65E-06 |
| BCKDK | 1,180503 | 6,74E-05 |
| NDUFS2 | 1,178776 | 4,70E-05 |
| CHPT1 | 1,178399 | 6,87E-05 |
| FAM220A | 1,177271 | 0,000863 |
| DPY19L1 | 1,177167 | 0,000597 |

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| GGCT | 1,177023 | 1,05E-06 |
| MCU | 1,175645 | 0,00049 |
| EMC3 | 1,174979 | 0,000523 |
| AP4E1 | 1,174565 | 7,59E-05 |
| PPIL1 | 1,172993 | 4,40E-06 |
| RHBDD2 | 1,171968 | 0,001013 |
| ZNF710 | 1,170862 | 8,93E-05 |
| TMEM184F | 1,170254 | 0,000125 |
| SMUG1 | 1,170009 | 0,000786 |
| FZD1 | 1,16909 | 0,000106 |
| ALDH6A1 | 1,168882 | 9,07E-06 |
| BRMS1 | 1,168832 | 3,37E-05 |
| PRKAG1 | 1,168704 | 0,000168 |
| SURF2 | 1,168022 | 7,27E-05 |
| ATP6AP1 | 1,167192 | 0,000121 |
| MRPL42 | 1,167099 | 3,67E-06 |
| ATN1 | 1,165406 | 5,05E-07 |
| TUBB4B | 1,165376 | 2,58E-05 |
| CETN2 | 1,165316 | 0,000807 |
| ANGEL1 | 1,164597 | 2,51E-05 |
| ASAP1 | 1,16314 | 2,11E-06 |
| ASH1L | 1,160903 | 3,64E-05 |
| CUL7 | 1,16015 | 0,000295 |
| PDCD10 | 1,159434 | 1,53E-05 |
| PFKL | 1,15726 | 8,33E-05 |
| AARS | 1,15686 | 0,000304 |
| FBRS | 1,155899 | 1,99E-07 |
| AURKA | 1,155172 | 6,24E-06 |
| CMC2 | 1,154774 | 7,00E-05 |
| ZNF579 | 1,154646 | 7,45E-05 |
| AFF4 | 1,152277 | 2,08E-07 |
| ZNF581 | 1,15015 | 0,000362 |
| G6PC3 | 1,147612 | 0,000449 |
| ACTR10 | 1,147118 | 0,000169 |
| FBXO22 | 1,146995 | 4,36E-05 |
| SNAPC4 | 1,146659 | 0,000191 |
| H2AFJ | 1,146381 | 0,000952 |
| TMEM11 | 1,141594 | 3,40E-05 |
| GCLC | 1,141205 | 0,000738 |
| LAMTOR1 | 1,140008 | 0,00011 |
| UBAC1 | 1,137921 | 5,36E-06 |
| RNF121 | 1,135981 | 0,000373 |
| TRIAP1 | 1,135759 | 0,000152 |
| HSPA9 | 1,130322 | 6,01E-05 |
| NFS1 | 1,127315 | 0,00012 |
| STX4 | 1,126197 | 0,000367 |
| PACS2 | 1,125746 | 1,13E-05 |
| HSD17B4 | 1,125408 | 5,84E-05 |
| COQ9 | 1,124743 | 1,86E-05 |
| MBTPS2 | 1,122862 | 0,000725 |

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| C19orf43 | 1,12022 | 7,13E-07 |
| VIMP | 1,11941 | 3,73E-05 |
| SLC2A4RG | 1,119046 | 9,68E-05 |
| RAD23B | 1,118905 | 2,61E-07 |
| HCFC1R1 | 1,117688 | 6,86E-05 |
| FAM189B | 1,117026 | 0,000331 |
| PEX10 | 1,116724 | 0,000197 |
| TCF25 | 1,11667 | 1,20E-06 |
| SNRPE | 1,116114 | 5,04E-07 |
| PSMD12 | 1,111306 | 0,000149 |
| TMEM254 | 1,110665 | 0,000547 |
| PDCD6 | 1,10997 | 0,000285 |
| ZNF704 | 1,108194 | 0,000877 |
| C8orf82 | 1,107691 | 0,000317 |
| DOLK | 1,107643 | 0,000787 |
| RPS3 | 1,107008 | 0,000236 |
| JTB | 1,106735 | 3,88E-05 |
| KIAA0196 | 1,105396 | 7,82E-06 |
| XXYLT1 | 1,103102 | 0,000105 |
| PTGES2 | 1,102912 | 1,48E-05 |
| DLG1 | 1,102862 | 5,95E-06 |
| UNG | 1,102201 | 1,21E-05 |
| MTFR1 | 1,100843 | 0,000285 |
| ARRDC1 | 1,099566 | 7,59E-05 |
| LSG1 | 1,098925 | 1,66E-05 |
| NPTN | 1,09845 | 1,57E-05 |
| CREG1 | 1,097839 | 0,000172 |
| FAM53C | 1,097406 | 0,000274 |
| PDCL3 | 1,097194 | 0,000133 |
| MRPS33 | 1,096253 | 0,000215 |
| DNPEP | 1,095833 | 1,54E-05 |
| MTCH2 | 1,094134 | 0,000777 |
| IFT46 | 1,092713 | 0,00024 |
| LOC90784 | 1,092292 | 8,55E-05 |
| FTSJ3 | 1,091307 | 8,61E-05 |
| NDUFC1 | 1,09124 | 0,000315 |
| ZFP1 | 1,090374 | 0,000275 |
| THAP5 | 1,090363 | 3,15E-05 |
| NDFIP1 | 1,089395 | 5,55E-06 |
| SLC39A7 | 1,087026 | 3,21E-05 |
| RARS | 1,086777 | 5,47E-05 |
| TUBA1C | 1,079577 | 6,90E-05 |
| MIDN | 1,07871 | 1,62E-05 |
| DERL1 | 1,078052 | 0,000122 |
| RPL35A | 1,076884 | 0,000528 |
| RPL8 | 1,073928 | 0,000206 |
| OSER1 | 1,073688 | 0,000307 |
| SEL1L | 1,071435 | 2,04E-06 |
| CTPS2 | 1,071283 | 0,000111 |
| PSMA3 | 1,070815 | 0,000444 |

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| TTC39C | 1,070743 | 0,000545 |
| SIKE1 | 1,069727 | 0,00026 |
| ABCF3 | 1,067204 | 0,000234 |
| RPL13 | 1,067007 | 0,000827 |
| CSNK1G3 | 1,066438 | 7,05E-05 |
| PMVK | 1,066425 | 0,000845 |
| PHAX | 1,065473 | 1,62E-05 |
| PLA2G12A | 1,064445 | 0,000784 |
| C7orf73 | 1,063209 | 6,54E-06 |
| RPS14 | 1,06319 | 0,00039 |
| SPTSSA | 1,061993 | 0,000746 |
| WIZ | 1,060987 | 7,96E-06 |
| HSPA4 | 1,059691 | 0,00054 |
| C5orf15 | 1,059648 | 8,93E-05 |
| COG4 | 1,056658 | 0,000201 |
| CSRP1 | 1,053601 | 0,000415 |
| KRTCAP2 | 1,051487 | 6,37E-06 |
| RAB6A | 1,051366 | 0,000412 |
| TANC1 | 1,04921 | 0,000358 |
| CHMP1B | 1,047975 | 0,000441 |
| PHF23 | 1,047736 | 0,000168 |
| ABLIM1 | 1,045261 | 0,000376 |
| OS9 | 1,044553 | 0,000161 |
| DHRS7 | 1,042501 | 0,000221 |
| TRIP4 | 1,041895 | 0,000555 |
| MMAB | 1,041363 | 0,00031 |
| GPX4 | 1,039367 | 0,00027 |
| SEC62 | 1,037971 | 1,07E-05 |
| MRPS18B | 1,036812 | 0,0002 |
| PI4KB | 1,036047 | 4,73E-05 |
| RNF139 | 1,034668 | 2,89E-05 |
| LAMP1 | 1,034586 | 0,000203 |
| MRPL30 | 1,033435 | 2,33E-05 |
| CENPN | 1,033065 | 7,51E-06 |
| ZNF12 | 1,032992 | 0,000166 |
| LAPTM4A | 1,03294 | 3,63E-05 |
| CCDC9 | 1,030289 | 0,000562 |
| EXOSC4 | 1,029427 | 0,000125 |
| SPNS1 | 1,029143 | 0,000634 |
| PPP1R11 | 1,028427 | 0,000249 |
| RNASEH2A | 1,027811 | 7,00E-05 |
| TRIM26 | 1,027294 | 0,000168 |
| NELFCD | 1,024806 | 2,27E-05 |
| DNMT3B | 1,023597 | 0,000285 |
| WBSCR22 | 1,023255 | 6,60E-05 |
| DGKZ | 1,022904 | 0,000222 |
| PLK1 | 1,022524 | 0,000895 |
| TRIM41 | 1,020452 | 0,00097 |
| HMBS | 1,019738 | 0,00022 |
| SFXN1 | 1,019198 | 9,57E-05 |

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| MTIF2 | 1,018488 | 3,81E-05 |
| CNIH1 | 1,017004 | 0,000202 |
| VAPB | 1,016898 | 0,000187 |
| CDKN3 | 1,01596 | 0,000869 |
| TMEM97 | 1,014167 | 7,88E-05 |
| NFKBIA | 1,012941 | 0,001009 |
| GTPBP10 | 1,012293 | 0,000878 |
| RRAGA | 1,011708 | 0,000155 |
| PWP1 | 1,010858 | 3,83E-05 |
| PKP4 | 1,010686 | 8,20E-05 |
| SPATS2 | 1,006385 | 6,95E-05 |
| RRP1 | 1,006126 | 0,000818 |
| PTPRF | 1,00446 | 4,13E-05 |
| COX6A1 | 1,00359 | 0,000158 |
| PPCS | 1,003367 | 0,00062 |
| PAQR4 | 1,003357 | 0,000418 |
| TPT1 | 1,002877 | 0,000895 |
| TMEM14C | 1,001926 | 0,000385 |
| TOMM40 | 1,000426 | 0,000364 |
| PEMT | 0,999944 | 0,001011 |
| UBQLN4 | 0,999817 | 2,43E-05 |
| MRRF | 0,999305 | 0,000138 |
| PSMC1 | 0,998942 | 1,99E-05 |
| ATP5A1 | 0,997696 | 6,04E-06 |
| HEXB | 0,9969 | 0,000476 |
| NFE2L2 | 0,99552 | 0,000182 |
| JAGN1 | 0,994405 | 0,000742 |
| LAMTOR2 | 0,990314 | 0,000111 |
| BTBD7 | 0,988971 | 0,000229 |
| BRWD1 | 0,987982 | 0,000296 |
| EEF2K | 0,987181 | 0,000146 |
| ASPSCR1 | 0,983986 | 0,000229 |
| LMTK2 | 0,982302 | 0,000282 |
| AHSA1 | 0,981712 | 2,41E-05 |
| IRAK1 | 0,979893 | 0,000456 |
| DCTPP1 | 0,97876 | 0,00051 |
| RPRD2 | 0,978063 | 8,55E-05 |
| ATXN7L3B | 0,974713 | 7,76E-06 |
| WDFY3 | 0,974356 | 0,000808 |
| ZMYND11 | 0,972873 | 5,36E-05 |
| HACD3 | 0,970839 | 1,65E-05 |
| MAP1LC3B | 0,969761 | 0,000306 |
| RBM4 | 0,968436 | 0,00099 |
| PPP1R14B | 0,964982 | 0,000838 |
| ANKS1A | 0,9618 | 0,000282 |
| TADA3 | 0,961406 | 0,000408 |
| NUCKS1 | 0,959986 | 2,19E-05 |
| PDCD5 | 0,959294 | 9,68E-05 |
| TARBP2 | 0,959255 | 0,000349 |
| SPTLC2 | 0,958334 | 0,000346 |

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| RRP15 | 0,958156 | 0,000174 |
| PRR13 | 0,957661 | 0,000275 |
| NDUFB7 | 0,954075 | 7,30E-05 |
| TMEM147 | 0,951862 | 0,000623 |
| KDM2A | 0,95039 | 6,08E-05 |
| STK38 | 0,948555 | 0,000489 |
| ARNT | 0,946852 | 7,29E-05 |
| HDGF | 0,946137 | 5,78E-05 |
| MRPL15 | 0,944922 | 9,20E-05 |
| DCAF13 | 0,94079 | 0,000772 |
| PSMC5 | 0,939484 | 0,000427 |
| PUF60 | 0,936573 | 0,000476 |
| RCN1 | 0,933638 | 9,09E-05 |
| PPP1R2 | 0,932841 | 0,000667 |
| TIMM10 | 0,930636 | 0,000192 |
| TSPAN14 | 0,930211 | 0,000762 |
| TMED10 | 0,925435 | 0,00038 |
| FAM89B | 0,924501 | 0,000911 |
| CAMSAP1 | 0,920566 | 5,84E-05 |
| SCD | 0,920376 | 4,76E-05 |
| USP6NL | 0,920231 | 0,000565 |
| NSUN5 | 0,920169 | 0,000461 |
| TUFM | 0,918821 | 0,000135 |
| STX6 | 0,916381 | 0,000173 |
| MRPS23 | 0,914407 | 0,000457 |
| LRFN4 | 0,911534 | 0,000425 |
| ZNF652 | 0,911041 | 0,000493 |
| RPE | 0,908421 | 0,000686 |
| CDC25B | 0,907446 | 0,000564 |
| EIF2AK1 | 0,90524 | 4,17E-05 |
| GRK6 | 0,901121 | 0,000695 |
| BRK1 | 0,899139 | 0,000399 |
| TIMMDC1 | 0,895754 | 0,00068 |
| NCBP2 | 0,893035 | 3,96E-05 |
| KPNA2 | 0,880941 | 0,000311 |
| UBE2Z | 0,879879 | 0,000124 |
| TRIP11 | 0,874977 | 0,00092 |
| MTMR4 | 0,872133 | 0,000214 |
| DSG2 | 0,869831 | 0,000232 |
| NOTCH2 | 0,866571 | 0,000769 |
| RNF7 | 0,855324 | 0,000859 |
| VPS25 | 0,852239 | 0,000673 |
| CCT2 | 0,851754 | 0,000331 |
| CUL1 | 0,849301 | 0,000667 |
| SOS1 | 0,845649 | 0,000758 |
| MED13 | 0,836427 | 0,000107 |
| FAM91A1 | 0,834823 | 0,000421 |
| PAPOLA | 0,834178 | 0,000154 |
| VPS4B | 0,830039 | 0,000983 |
| VPS52 | 0,828681 | 0,000466 |

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| SMG7 | 0,826364 | 0,000244 |
| YIPF3 | 0,825346 | 0,000765 |
| TCOF1 | 0,818454 | 0,000503 |
| CLUH | 0,818211 | 0,000131 |
| PDIA4 | 0,817047 | 8,26E-05 |
| TAX1BP1 | 0,816346 | 0,000439 |
| HECTD1 | 0,816009 | 0,000321 |
| TAF6 | 0,815987 | 0,0009 |
| MLF2 | 0,813776 | 0,000347 |
| PFDN5 | 0,812407 | 0,00095 |
| GEMIN5 | 0,811586 | 0,000632 |
| PICALM | 0,8094 | 0,000793 |
| PPP4R3A | 0,803962 | 0,000458 |
| HMGN1 | 0,799889 | 0,00035 |
| TOMM6 | 0,795889 | 0,000801 |
| CACUL1 | 0,79556 | 0,000799 |
| EIF2S1 | 0,793321 | 0,000852 |
| TOR3A | 0,792909 | 0,0009 |
| ERAL1 | 0,791998 | 0,000765 |
| DBI | 0,784721 | 0,000359 |
| CAND1 | 0,781615 | 0,000884 |
| UBE2Q1 | 0,774477 | 0,000967 |
| KIF5B | 0,771237 | 0,000302 |
| PROSER1 | 0,767053 | 0,000635 |
| MORF4L2 | 0,751948 | 0,000839 |
| H3F3B | 0,723022 | 0,000734 |
| ABCE1 | -0,72912 | 0,000954 |
| THRAP3 | -0,73542 | 0,000751 |
| ANP32A | -0,74525 | 0,000493 |
| ACACA | -0,77334 | 0,001009 |
| TTC3 | -0,79272 | 0,000289 |
| CHD7 | -0,79408 | 0,000887 |
| GNB1 | -0,79783 | 0,000527 |
| ELAVL1 | -0,80059 | 0,001004 |
| SEPT2 | -0,80138 | 0,000461 |
| RTF1 | -0,80548 | 0,000444 |
| HCFC1 | -0,80995 | 0,000144 |
| ITCH | -0,81631 | 0,000587 |
| HMGCR | -0,81743 | 0,000624 |
| STAG2 | -0,82156 | 0,000129 |
| CCT8 | -0,82324 | 0,000431 |
| MLLT1 | -0,82582 | 0,000821 |
| COPB1 | -0,82585 | 0,000274 |
| LRRFIP1 | -0,83997 | 0,000221 |
| APPL1 | -0,84029 | 0,000582 |
| SEP15 | -0,84677 | 0,000355 |
| WBP11 | -0,84723 | 0,000228 |
| NAP1L4 | -0,84856 | 0,000913 |
| FAAP100 | -0,84856 | 0,000873 |
| DIS3 | -0,85513 | 0,000802 |

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| MLLT6 | -0,85943 | 0,000233 |
| MTG2 | -0,85971 | 0,001024 |
| PSMA1 | -0,86449 | 0,000207 |
| TOP2B | -0,86601 | 5,62E-05 |
| STT3B | -0,86838 | 0,000979 |
| QARS | -0,86985 | 0,000796 |
| DCAF15 | -0,87253 | 0,000447 |
| KPNA6 | -0,87354 | 0,000292 |
| UGP2 | -0,87452 | 0,000546 |
| MKI67 | -0,87521 | 0,000551 |
| REXO1 | -0,87537 | 0,000456 |
| ADD1 | -0,87548 | 0,000604 |
| TCF20 | -0,87678 | 0,00027 |
| ZNF644 | -0,87973 | 0,000456 |
| SMAD2 | -0,88497 | 0,000112 |
| UCK2 | -0,88533 | 0,000787 |
| PCGF5 | -0,89001 | 0,000442 |
| CNOT1 | -0,89153 | 0,000193 |
| ARHGAP11 | -0,89221 | 0,000529 |
| NSMAF | -0,89379 | 0,000603 |
| PDE12 | -0,8943 | 0,00086 |
| BRD7 | -0,89645 | 0,000187 |
| HNRNPUL2 | -0,8974 | 0,000321 |
| NCAPH | -0,90014 | 0,000126 |
| NCOR1 | -0,90122 | 6,59E-05 |
| DHX30 | -0,90405 | 3,30E-05 |
| KIAA0430 | -0,9043 | 0,000347 |
| CDK12 | -0,90433 | 0,000104 |
| AP3M1 | -0,90748 | 0,000119 |
| AQR | -0,90964 | 0,000378 |
| PPP6R1 | -0,91046 | 0,000398 |
| SFXN2 | -0,91199 | 0,000743 |
| ANKLE2 | -0,91234 | 0,000406 |
| MED1 | -0,91249 | 4,51E-05 |
| CENPO | -0,91518 | 0,000321 |
| ST13 | -0,91684 | 0,000238 |
| TRAM2 | -0,91685 | 0,000164 |
| GRAMD1A | -0,91725 | 0,000122 |
| AK2 | -0,91843 | 0,000154 |
| TGS1 | -0,91895 | 0,000345 |
| SF3A2 | -0,91936 | 0,00103 |
| ASXL1 | -0,92108 | 4,53E-05 |
| WHSC1 | -0,92268 | 0,000148 |
| ZZEF1 | -0,92287 | 0,00019 |
| PRKDC | -0,92454 | 0,000215 |
| NECAP2 | -0,92571 | 0,000712 |
| CRLS1 | -0,92724 | 0,000748 |
| ATP6V1B2 | -0,92731 | 0,000161 |
| SUB1 | -0,92973 | 0,000157 |
| USP33 | -0,93095 | 0,000455 |

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| RFC1 | -0,93126 | 7,66E-05 |
| AGL | -0,93325 | 0,000529 |
| CHML | -0,93485 | 0,000758 |
| COPS8 | -0,93675 | 0,000762 |
| SNRNP40 | -0,937 | 0,000574 |
| CPD | -0,94158 | 0,000413 |
| ASPM | -0,94748 | 0,000686 |
| PHF3 | -0,94752 | 0,000442 |
| ASXL2 | -0,94867 | 0,0006 |
| FTSJ1 | -0,94992 | 0,000267 |
| NUP93 | -0,95042 | 0,000309 |
| LANCL1 | -0,95073 | 0,000124 |
| ATXN10 | -0,95089 | 0,000154 |
| TRIM25 | -0,95108 | 0,000267 |
| SRRM1 | -0,95135 | 0,000246 |
| RAB27A | -0,95153 | 0,000476 |
| API5 | -0,95303 | 6,24E-05 |
| POLA1 | -0,95432 | 0,000555 |
| RBX1 | -0,955 | 0,000944 |
| IPO5 | -0,95696 | 0,000139 |
| UBE2G2 | -0,9579 | 3,18E-05 |
| MCM10 | -0,95924 | 6,11E-05 |
| CASP2 | -0,96177 | 2,25E-05 |
| MSH2 | -0,96202 | 2,96E-05 |
| WDR82 | -0,96289 | 2,60E-05 |
| MAFK | -0,9629 | 0,000649 |
| CSNK2A1 | -0,96371 | 4,32E-05 |
| KIF11 | -0,96392 | 8,24E-06 |
| NBAS | -0,9645 | 0,000695 |
| BBX | -0,96451 | 0,000916 |
| DNTTIP1 | -0,96676 | 0,000846 |
| ABCC1 | -0,96914 | 3,84E-05 |
| DENND2D | -0,97439 | 0,000158 |
| SRP9 | -0,97466 | 3,41E-05 |
| BRD3 | -0,97529 | 0,000248 |
| DYNC1H1 | -0,97529 | 0,000122 |
| OSBP | -0,97614 | 0,000218 |
| LAS1L | -0,97637 | 0,000623 |
| SH3BP5L | -0,97786 | 0,000369 |
| SON | -0,97788 | 2,45E-05 |
| CASC4 | -0,97927 | 0,000126 |
| NIPBL | -0,98112 | 3,27E-05 |
| KIF2C | -0,9814 | 0,000406 |
| RBCK1 | -0,98485 | 6,39E-06 |
| BICD2 | -0,98486 | 0,000116 |
| RRM1 | -0,98519 | 0,000206 |
| ZNF367 | -0,98671 | 0,000952 |
| PHRF1 | -0,98834 | 6,53E-06 |
| KPNA3 | -0,98884 | 0,000392 |
| C2CD3 | -0,98933 | 9,88E-05 |

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| ABI2 | -0,99395 | 9,35E-06 |
| CSTF2T | -0,99399 | 0,000173 |
| GIT2 | -0,99458 | 4,70E-05 |
| C22orf39 | -0,99488 | 0,000971 |
| ATPIF1 | -0,99798 | 5,25E-05 |
| WDR24 | -0,99834 | 0,000461 |
| ALG9 | -0,9987 | 0,000282 |
| DDHD1 | -0,99895 | 0,00018 |
| PPP1R18 | -1,00253 | 0,000459 |
| DHFR | -1,00336 | 3,15E-05 |
| BLM | -1,00336 | 0,00055 |
| CDK11B | -1,00571 | 3,59E-05 |
| SLC16A1 | -1,00774 | 0,000191 |
| CEP104 | -1,00849 | 0,000368 |
| LIN54 | -1,00981 | 6,74E-05 |
| L3MBTL2 | -1,00985 | 0,000102 |
| MTMR1 | -1,0121 | 0,000102 |
| RAB3GAP2 | -1,01308 | 0,000572 |
| SLBP | -1,01388 | 0,000106 |
| FAM111B | -1,01523 | 0,000205 |
| CHCHD2 | -1,01679 | 3,64E-05 |
| CCDC34 | -1,01996 | 0,001017 |
| CTR9 | -1,02056 | 0,000921 |
| DES12 | -1,02117 | 0,000105 |
| PATL1 | -1,02157 | 1,91E-05 |
| EXOSC9 | -1,02266 | 0,000209 |
| SAAL1 | -1,02745 | 0,000164 |
| TRIM44 | -1,02923 | 0,000141 |
| PSME1 | -1,02995 | 6,27E-05 |
| C4orf27 | -1,0307 | 0,000494 |
| TTI1 | -1,03295 | 2,45E-05 |
| MRE11A | -1,0359 | 0,000997 |
| SGOL2 | -1,03689 | 5,84E-05 |
| OSBPL8 | -1,03741 | 7,86E-06 |
| XAB2 | -1,0375 | 0,000367 |
| HMGN2 | -1,03798 | 3,05E-05 |
| COL4A3BP | -1,03888 | 0,000325 |
| MCM5 | -1,04039 | 0,000264 |
| DCTN3 | -1,04048 | 0,000833 |
| HIATL1 | -1,04145 | 0,000522 |
| CHORDC1 | -1,04219 | 0,000163 |
| FRYL | -1,0437 | 5,55E-05 |
| ZNF747 | -1,04575 | 0,000514 |
| ARID1A | -1,04875 | 1,19E-06 |
| ALAD | -1,05014 | 0,000301 |
| GBA2 | -1,05204 | 0,000821 |
| EIF2AK4 | -1,05215 | 7,53E-05 |
| MEN1 | -1,05378 | 1,50E-05 |
| ADSS | -1,05473 | 5,84E-05 |
| UBA5 | -1,05484 | 0,000266 |

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| CENPF | -1,05509 | 1,94E-05 |
| ITM2B | -1,05542 | 3,12E-05 |
| DDA1 | -1,05748 | 7,29E-05 |
| ERCC6L | -1,05804 | 0,000364 |
| EP300 | -1,0583 | 0,000107 |
| VPS16 | -1,05878 | 0,000357 |
| MAP3K4 | -1,0594 | 0,000386 |
| ZMYM3 | -1,06006 | 7,39E-06 |
| UBQLN2 | -1,06112 | 7,75E-05 |
| ARL2BP | -1,06149 | 0,000765 |
| PRPS1 | -1,06216 | 0,000335 |
| WNK1 | -1,06294 | 2,07E-06 |
| CHD1 | -1,06345 | 3,87E-06 |
| RALGAPA2 | -1,06723 | 0,000359 |
| IFNAR1 | -1,06729 | 0,000447 |
| CDC6 | -1,06793 | 0,000158 |
| ACAT2 | -1,06801 | 5,58E-05 |
| TRPC4AP | -1,06802 | 3,79E-05 |
| VPS36 | -1,06839 | 0,000102 |
| PIIP5K2 | -1,07028 | 8,51E-05 |
| TPP1 | -1,07086 | 0,000541 |
| HERC1 | -1,07182 | 1,91E-05 |
| TACC1 | -1,07412 | 1,23E-05 |
| PARP1 | -1,07606 | 9,94E-07 |
| ERCC6L2 | -1,07663 | 0,00011 |
| KHNYN | -1,0767 | 0,00045 |
| PNP | -1,07678 | 1,51E-05 |
| POT1 | -1,07885 | 0,000466 |
| MGA | -1,08019 | 5,50E-05 |
| HMGN3 | -1,0805 | 4,93E-05 |
| MKL1 | -1,0807 | 6,56E-05 |
| SEC22C | -1,08148 | 0,000164 |
| LARS2 | -1,08234 | 6,26E-05 |
| SUN2 | -1,08335 | 2,27E-05 |
| CACTIN | -1,08401 | 0,000167 |
| JARID2 | -1,08505 | 2,92E-06 |
| NF2 | -1,08584 | 0,000107 |
| DDX3X | -1,0864 | 1,73E-07 |
| C22orf46 | -1,08714 | 0,000203 |
| RNF138 | -1,08731 | 7,84E-05 |
| KANSL1 | -1,0874 | 0,000277 |
| DIDO1 | -1,08741 | 7,00E-07 |
| CEPT1 | -1,088 | 0,00012 |
| ATG4B | -1,09051 | 3,29E-05 |
| SMARCAD1 | -1,09264 | 6,40E-05 |
| MAPKAPK3 | -1,09273 | 0,000897 |
| SOAT1 | -1,09296 | 0,000271 |
| HSD17B12 | -1,09321 | 8,15E-05 |
| UBE3A | -1,09342 | 3,79E-06 |
| MOB1A | -1,09368 | 7,05E-05 |

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| ALAS1 | -1,0939 | 0,000362 |
| FEN1 | -1,09459 | 3,40E-06 |
| AES | -1,09525 | 7,62E-06 |
| ERO1A | -1,09726 | 3,28E-05 |
| SREK1IP1 | -1,09804 | 2,91E-05 |
| SGSM3 | -1,09912 | 0,000421 |
| ZNF275 | -1,09959 | 0,000251 |
| WASF2 | -1,10064 | 9,94E-06 |
| OXSR1 | -1,10241 | 2,68E-05 |
| PJA2 | -1,10325 | 2,18E-06 |
| ZNF335 | -1,10326 | 0,000271 |
| TMED5 | -1,10353 | 0,000124 |
| MTA3 | -1,10498 | 1,50E-06 |
| MIER2 | -1,10545 | 0,00061 |
| INTS7 | -1,106 | 2,89E-05 |
| SLC25A40 | -1,10718 | 0,000588 |
| NCAPG | -1,10946 | 1,20E-05 |
| MFAP1 | -1,1106 | 0,000212 |
| AKR1A1 | -1,11204 | 2,29E-05 |
| VRK1 | -1,11566 | 1,15E-05 |
| KDM2B | -1,11615 | 2,83E-06 |
| OTUD5 | -1,1162 | 0,000179 |
| LRP12 | -1,11698 | 0,000114 |
| INPP5K | -1,11758 | 0,000646 |
| ZSWIM1 | -1,1201 | 0,000193 |
| RHOT1 | -1,12129 | 3,41E-05 |
| DNMT3A | -1,12306 | 4,46E-06 |
| PGK1 | -1,12345 | 2,43E-06 |
| LIMD1 | -1,1253 | 0,00013 |
| NONO | -1,12571 | 2,42E-06 |
| BAG2 | -1,12812 | 9,99E-05 |
| RPAP1 | -1,12837 | 8,66E-06 |
| NDUFB8 | -1,12999 | 0,000243 |
| C1orf112 | -1,13015 | 0,000294 |
| ZNF37A | -1,13219 | 9,20E-06 |
| ATF2 | -1,13274 | 6,85E-06 |
| FAM98B | -1,1338 | 6,95E-05 |
| CD44 | -1,13485 | 3,95E-05 |
| TYW3 | -1,13712 | 2,69E-05 |
| TRIM35 | -1,13718 | 0,000726 |
| ZC3H7B | -1,13838 | 2,74E-06 |
| EXO1 | -1,13862 | 2,09E-05 |
| ZNF343 | -1,13888 | 0,000483 |
| CTPS1 | -1,13982 | 1,95E-06 |
| HMGXB4 | -1,13985 | 8,72E-06 |
| RHOG | -1,14373 | 0,00015 |
| HIRA | -1,1451 | 3,50E-07 |
| ARIH2 | -1,1459 | 7,72E-07 |
| FPGS | -1,14606 | 0,000115 |
| LRRC41 | -1,14661 | 7,04E-06 |

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| ICE2 | -1,14816 | 3,11E-06 |
| VPRBP | -1,1484 | 1,88E-06 |
| RAB11B | -1,14923 | 1,20E-05 |
| TUBGCP3 | -1,15088 | 2,29E-05 |
| PHKA2 | -1,15133 | 5,68E-05 |
| C11orf57 | -1,15166 | 2,86E-05 |
| ASH2L | -1,15262 | 1,96E-05 |
| ZNF740 | -1,15359 | 0,000133 |
| SF3A3 | -1,15444 | 0,000486 |
| TMEM237 | -1,15612 | 6,39E-05 |
| MAGOH | -1,15708 | 3,49E-06 |
| POLDIP3 | -1,15768 | 0,000104 |
| MTMR2 | -1,15808 | 4,68E-05 |
| RPRD1B | -1,15811 | 3,67E-05 |
| CDC40 | -1,15962 | 0,000154 |
| RNF38 | -1,15981 | 0,000273 |
| ASCC3 | -1,16154 | 0,000992 |
| MED4 | -1,16168 | 5,69E-05 |
| URB2 | -1,16244 | 4,64E-05 |
| ARID4B | -1,16274 | 0,000318 |
| MBNL3 | -1,1628 | 4,47E-07 |
| FKBP1A | -1,16296 | 6,26E-06 |
| OSBPL2 | -1,16346 | 1,94E-05 |
| USE1 | -1,16353 | 0,000628 |
| MFSD6 | -1,16631 | 0,00047 |
| NDUFAF3 | -1,16811 | 9,21E-05 |
| HTRA2 | -1,16833 | 7,07E-05 |
| VPS13D | -1,16859 | 8,81E-06 |
| BNIP2 | -1,16933 | 3,22E-05 |
| UBR7 | -1,17027 | 2,20E-07 |
| JADE2 | -1,17071 | 0,000168 |
| HMGA1 | -1,17251 | 0,000106 |
| RRM2 | -1,17539 | 6,99E-08 |
| TAP2 | -1,17544 | 0,000282 |
| EBLN3 | -1,17691 | 9,28E-06 |
| NCAPD2 | -1,17763 | 4,55E-06 |
| RPTOR | -1,17779 | 5,23E-05 |
| TRMT6 | -1,17803 | 3,36E-06 |
| NOP9 | -1,17932 | 1,09E-05 |
| FAM217B | -1,18035 | 1,40E-05 |
| RAD51 | -1,18189 | 6,74E-05 |
| DENND1B | -1,18195 | 0,000658 |
| DNMT1 | -1,183 | 1,58E-05 |
| CLEC16A | -1,18375 | 7,51E-06 |
| RNF123 | -1,18405 | 9,16E-06 |
| INTS9 | -1,18422 | 3,58E-05 |
| EID2 | -1,18431 | 0,000329 |
| SNRNP48 | -1,18712 | 8,68E-06 |
| PLK4 | -1,1873 | 6,42E-05 |
| ORAI2 | -1,18839 | 0,000337 |

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| EDEM3 | -1,19249 | 5,36E-05 |
| GSG2 | -1,19405 | 0,000333 |
| PTPN6 | -1,19776 | 0,000162 |
| ZCCHC9 | -1,19827 | 0,000247 |
| H2AFV | -1,19912 | 1,23E-06 |
| FNTA | -1,19975 | 7,39E-05 |
| AGBL5 | -1,20137 | 0,000492 |
| STAM | -1,20218 | 0,000138 |
| GXYLT1 | -1,20263 | 1,21E-05 |
| SIVA1 | -1,20498 | 4,03E-06 |
| TMX4 | -1,2064 | 1,12E-05 |
| PRDM2 | -1,20644 | 4,50E-05 |
| PSMB2 | -1,20755 | 1,25E-06 |
| TOP2A | -1,2086 | 1,97E-05 |
| PPWD1 | -1,21 | 0,000783 |
| PI4KA | -1,21089 | 2,50E-07 |
| TTC31 | -1,21152 | 0,000162 |
| PIKFYVE | -1,21193 | 0,000611 |
| FH | -1,21223 | 2,18E-07 |
| SMYD4 | -1,21366 | 0,000388 |
| TNRC6C | -1,21483 | 9,78E-08 |
| CHAF1B | -1,21501 | 0,00015 |
| PLAGL2 | -1,21502 | 1,32E-06 |
| CTDP1 | -1,21612 | 0,000216 |
| MID1IP1 | -1,21647 | 0,000935 |
| LRRCC1 | -1,21943 | 0,000334 |
| NVL | -1,2198 | 1,70E-05 |
| CHEK1 | -1,22162 | 2,74E-07 |
| MDN1 | -1,22188 | 2,24E-06 |
| TMEM230 | -1,22351 | 8,72E-07 |
| SMAD4 | -1,22374 | 9,79E-06 |
| GPKOW | -1,2238 | 0,000228 |
| MIA3 | -1,22391 | 3,63E-07 |
| LMF2 | -1,22409 | 5,10E-05 |
| RNF219 | -1,22665 | 3,85E-05 |
| CPSF1 | -1,22858 | 3,42E-05 |
| CALML4 | -1,22895 | 0,000633 |
| SRSF11 | -1,23047 | 4,92E-05 |
| DCAF12 | -1,23071 | 2,48E-07 |
| C9orf78 | -1,23089 | 6,32E-07 |
| LDHA | -1,23126 | 2,09E-06 |
| PHF2 | -1,23233 | 0,000233 |
| HEATR5B | -1,23361 | 5,18E-05 |
| DONSON | -1,23938 | 0,000235 |
| ST6GALNAc | -1,23949 | 0,000747 |
| HS6ST1 | -1,24182 | 1,85E-06 |
| KIAA1147 | -1,24277 | 2,74E-05 |
| GLI3 | -1,24318 | 0,000459 |
| PREP | -1,24325 | 8,96E-05 |
| SFI1 | -1,24573 | 0,001029 |

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| GTF2B | -1,24869 | 0,000429 |
| TFDP1 | -1,24882 | 8,37E-09 |
| SLC20A1 | -1,24956 | 1,13E-08 |
| ASB1 | -1,25 | 2,43E-05 |
| CBL | -1,25098 | 5,19E-06 |
| TERF2 | -1,25237 | 5,72E-06 |
| PCIF1 | -1,25347 | 1,08E-06 |
| MPRIP | -1,25593 | 9,94E-07 |
| FAM122A | -1,25772 | 0,000212 |
| CEP78 | -1,25936 | 3,00E-06 |
| ATG2B | -1,26081 | 4,35E-05 |
| ERI1 | -1,26112 | 4,99E-06 |
| SCAF4 | -1,26288 | 0,000207 |
| AP1M1 | -1,26473 | 0,000145 |
| ORMDL3 | -1,26501 | 0,000193 |
| NLK | -1,26616 | 4,72E-06 |
| MED8 | -1,26679 | 4,96E-05 |
| VPS37B | -1,26973 | 4,03E-06 |
| BAP1 | -1,26999 | 3,37E-08 |
| TAF1 | -1,27181 | 9,22E-05 |
| UFL1 | -1,27273 | 3,46E-05 |
| TRAF3IP2 | -1,27286 | 0,000153 |
| FANCD2 | -1,27471 | 6,01E-06 |
| GMPPB | -1,27629 | 3,09E-05 |
| IPO5P1 | -1,27665 | 0,000243 |
| ZBED4 | -1,27763 | 2,72E-05 |
| NR2C2 | -1,27789 | 1,37E-06 |
| PDE6D | -1,28262 | 0,000246 |
| C2orf44 | -1,28297 | 0,000184 |
| STAT3 | -1,28319 | 0,000572 |
| C12orf4 | -1,28339 | 0,000206 |
| USP16 | -1,28357 | 2,58E-07 |
| RBM26 | -1,28373 | 1,98E-06 |
| TBC1D20 | -1,28396 | 7,63E-06 |
| CEP295 | -1,28531 | 0,000868 |
| WDR54 | -1,28544 | 8,03E-06 |
| CAMK2D | -1,28615 | 0,000655 |
| RTCA | -1,28736 | 2,13E-06 |
| MCM6 | -1,29053 | 6,86E-08 |
| PRNP | -1,29057 | 8,59E-05 |
| TAF5L | -1,29075 | 9,49E-07 |
| RNF213 | -1,29268 | 0,000221 |
| SMIM10L1 | -1,29823 | 6,25E-07 |
| TAF5 | -1,29826 | 0,000228 |
| FBXW7 | -1,29866 | 1,19E-05 |
| TMEM201 | -1,29905 | 5,49E-05 |
| BTAF1 | -1,30128 | 3,17E-05 |
| ITSN2 | -1,30381 | 1,62E-05 |
| DOT1L | -1,30572 | 5,96E-08 |
| BIN3 | -1,30725 | 0,000216 |

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| ARHGAP19 | -1,30784 | 2,09E-05 |
| CEP97 | -1,30935 | 0,000187 |
| DSN1 | -1,31052 | 2,55E-06 |
| GNPTAB | -1,31075 | 1,38E-08 |
| NOTCH1 | -1,31674 | 9,42E-10 |
| PTPN3 | -1,31682 | 6,15E-07 |
| TUBGCP5 | -1,31763 | 0,000269 |
| PHF6 | -1,32033 | 8,18E-06 |
| CSGALNAC | -1,32086 | 0,000487 |
| TAZ | -1,32226 | 0,000647 |
| TAF9B | -1,32236 | 0,000712 |
| SUZ12 | -1,3224 | 2,04E-09 |
| TET1 | -1,3254 | 0,000164 |
| FTO | -1,32665 | 5,57E-07 |
| TGFBR1 | -1,32685 | 1,05E-05 |
| POLD1 | -1,33006 | 2,14E-09 |
| HDAC1 | -1,33033 | 8,85E-10 |
| IGF2R | -1,3318 | 2,84E-07 |
| TMEM123 | -1,33327 | 2,11E-10 |
| DBNL | -1,33356 | 8,31E-05 |
| NCAPH2 | -1,3341 | 1,05E-08 |
| SEPT7 | -1,33479 | 1,84E-09 |
| PAFAH2 | -1,33631 | 7,69E-05 |
| ARRB2 | -1,33677 | 4,43E-08 |
| STK26 | -1,33774 | 2,71E-08 |
| HDHD1 | -1,3392 | 0,00046 |
| KLHL7 | -1,34163 | 0,000114 |
| PCMTD2 | -1,34424 | 0,000315 |
| MAP3K7 | -1,34687 | 6,51E-08 |
| ZAK | -1,34795 | 4,44E-07 |
| JADE3 | -1,34935 | 3,56E-06 |
| HNRNPD | -1,34943 | 5,82E-10 |
| DCAF11 | -1,34949 | 2,40E-05 |
| SUCLA2 | -1,35197 | 8,40E-07 |
| ERCC1 | -1,35506 | 6,38E-08 |
| TBRG1 | -1,35514 | 6,43E-05 |
| KRI1 | -1,35571 | 7,08E-10 |
| LINC00938 | -1,35719 | 0,000303 |
| ARHGEF1 | -1,35953 | 9,76E-10 |
| RBBP4 | -1,36079 | 9,39E-11 |
| POMGNT2 | -1,36093 | 0,000396 |
| CHAMP1 | -1,36269 | 9,20E-06 |
| CDK2 | -1,3641 | 4,75E-08 |
| TOPBP1 | -1,36472 | 1,07E-07 |
| CNST | -1,36528 | 0,000758 |
| CWC25 | -1,36788 | 6,54E-05 |
| SPTAN1 | -1,36839 | 4,99E-07 |
| FAM49B | -1,37053 | 1,06E-09 |
| NSL1 | -1,37129 | 5,06E-07 |
| HIPK2 | -1,37192 | 0,000406 |

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| PYCR2 | -1,37436 | 5,28E-05 |
| USB1 | -1,37529 | 0,000199 |
| FBXO33 | -1,37582 | 0,000813 |
| SUV39H1 | -1,37635 | 1,78E-05 |
| TAPT1 | -1,37656 | 5,40E-06 |
| LGALS8 | -1,37697 | 8,67E-06 |
| TCP11L1 | -1,37802 | 0,000428 |
| GNPAT | -1,38321 | 1,33E-06 |
| USP24 | -1,38334 | 2,03E-08 |
| ZFAT | -1,38434 | 1,54E-05 |
| TRAM1 | -1,38498 | 1,97E-05 |
| PBX3 | -1,38522 | 2,06E-05 |
| CCNE2 | -1,38675 | 1,03E-06 |
| TLE1 | -1,38698 | 1,34E-06 |
| RRP7A | -1,38727 | 4,03E-08 |
| LRRC20 | -1,39202 | 0,000975 |
| SPEN | -1,39239 | 7,95E-07 |
| REV3L | -1,39295 | 1,52E-06 |
| LYRM7 | -1,39305 | 2,09E-06 |
| UTP14C | -1,39441 | 3,17E-05 |
| NISCH | -1,39884 | 1,92E-06 |
| SDCCAG8 | -1,3995 | 0,000223 |
| PARP11 | -1,40089 | 0,000524 |
| TYK2 | -1,40204 | 2,87E-05 |
| AEBP2 | -1,40513 | 1,64E-05 |
| FNDC3A | -1,4066 | 8,53E-07 |
| ADARB1 | -1,40661 | 1,85E-06 |
| SYNRG | -1,4085 | 4,99E-06 |
| ZKSCAN2 | -1,41168 | 1,42E-05 |
| RPA1 | -1,41184 | 4,97E-10 |
| WEE1 | -1,41256 | 0,000533 |
| GIN3 | -1,41299 | 0,000402 |
| FAM126B | -1,41486 | 0,000228 |
| SLFN5 | -1,4161 | 2,28E-05 |
| UBR1 | -1,41625 | 0,000622 |
| SSBP3 | -1,41759 | 4,13E-08 |
| TTK | -1,41798 | 3,57E-08 |
| ZNF92 | -1,41917 | 3,28E-05 |
| VPS26B | -1,41926 | 2,58E-06 |
| GABPA | -1,41988 | 1,44E-05 |
| TBC1D2B | -1,4209 | 1,24E-07 |
| DNAJC24 | -1,42093 | 0,000961 |
| NNT | -1,4217 | 1,18E-07 |
| CTBP1-AS2 | -1,42308 | 2,43E-07 |
| FIGNL1 | -1,42503 | 2,73E-06 |
| HDAC7 | -1,42829 | 4,56E-10 |
| RBL2 | -1,42887 | 1,52E-06 |
| CARNMT1 | -1,43001 | 0,000193 |
| AMIGO2 | -1,43031 | 0,000397 |
| NUF2 | -1,43192 | 0,000223 |

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| ADCY7 | -1,43212 | 3,60E-05 |
| USP1 | -1,43217 | 6,12E-07 |
| JAK1 | -1,43286 | 2,46E-07 |
| LRP8 | -1,43452 | 3,33E-05 |
| BLOC1S6 | -1,43513 | 5,96E-08 |
| CAB39 | -1,43612 | 6,49E-10 |
| HIAT1 | -1,43842 | 2,07E-08 |
| RELT | -1,4387 | 0,000432 |
| STK40 | -1,43973 | 1,78E-05 |
| IKBKB | -1,44212 | 0,000183 |
| CD47 | -1,44281 | 1,08E-09 |
| SCML2 | -1,44292 | 0,000307 |
| ADRBK1 | -1,44664 | 7,57E-09 |
| C4orf46 | -1,44674 | 1,31E-05 |
| FAM117B | -1,44693 | 2,81E-08 |
| PASK | -1,4485 | 1,35E-05 |
| ZNF512B | -1,45415 | 2,05E-06 |
| SDR39U1 | -1,4556 | 5,12E-06 |
| FAM195B | -1,45704 | 0,000273 |
| RPIA | -1,45761 | 1,43E-08 |
| SLX4 | -1,46259 | 5,21E-07 |
| DCP1A | -1,46265 | 2,48E-05 |
| E2F8 | -1,46666 | 0,000614 |
| INSR | -1,46809 | 0,000654 |
| YEATS2 | -1,46821 | 0,000395 |
| GOPC | -1,46843 | 1,68E-07 |
| SKP2 | -1,46965 | 3,50E-11 |
| UBE2J1 | -1,46971 | 2,79E-09 |
| TBC1D10A | -1,47446 | 2,23E-06 |
| AIP | -1,47471 | 1,67E-07 |
| DSCR3 | -1,47738 | 2,99E-07 |
| PPP2R1B | -1,47832 | 7,43E-06 |
| RNGTT | -1,48013 | 2,23E-08 |
| GBAS | -1,48039 | 0,000933 |
| ARID5A | -1,48084 | 0,00016 |
| CXorf38 | -1,48085 | 1,20E-05 |
| TMPO-AS1 | -1,48105 | 2,14E-05 |
| NEK7 | -1,48243 | 2,08E-07 |
| MMS22L | -1,48374 | 1,51E-05 |
| DNA2 | -1,48576 | 2,57E-05 |
| KAT6B | -1,48706 | 3,99E-10 |
| XPNPEP1 | -1,48715 | 1,85E-07 |
| PHIP | -1,48794 | 5,11E-10 |
| MYO18A | -1,48931 | 1,59E-05 |
| PRPF38A | -1,48946 | 1,94E-11 |
| WDR7 | -1,49172 | 5,89E-07 |
| PFAS | -1,49478 | 1,03E-09 |
| DHRS4L2 | -1,49487 | 2,83E-06 |
| ACOT7 | -1,49494 | 1,88E-06 |
| SPC24 | -1,49554 | 7,95E-07 |

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| CARHSP1 | -1,49567 | 8,57E-11 |
| IRAK1BP1 | -1,49624 | 0,000946 |
| PRAF2 | -1,4968 | 0,00021 |
| INPP4A | -1,49728 | 6,09E-09 |
| CDADC1 | -1,50007 | 0,000909 |
| SNAP23 | -1,50105 | 2,41E-06 |
| NASP | -1,50432 | 6,38E-12 |
| KIFAP3 | -1,50599 | 1,71E-05 |
| HSF2 | -1,50787 | 2,40E-06 |
| MED12 | -1,50859 | 4,33E-09 |
| POLE | -1,51131 | 6,36E-10 |
| LNPEP | -1,51289 | 2,16E-06 |
| AAK1 | -1,51367 | 2,39E-06 |
| PHF8 | -1,51676 | 2,04E-08 |
| PROSC | -1,51739 | 1,18E-08 |
| APIP | -1,51762 | 1,37E-08 |
| PHF11 | -1,51812 | 6,59E-05 |
| DMAP1 | -1,51925 | 7,94E-05 |
| NUDT21 | -1,51988 | 6,69E-12 |
| NUP50 | -1,52001 | 1,91E-10 |
| ZGPAT | -1,5321 | 1,73E-07 |
| XRRA1 | -1,53276 | 1,57E-05 |
| CMIP | -1,53289 | 4,01E-09 |
| XKR8 | -1,53354 | 0,000983 |
| SESTD1 | -1,53366 | 6,04E-06 |
| ZBTB44 | -1,53432 | 2,92E-07 |
| PCNXL2 | -1,53445 | 5,84E-06 |
| KDM5A | -1,53733 | 3,57E-06 |
| ELOVL5 | -1,54034 | 1,66E-13 |
| GK5 | -1,5405 | 1,72E-07 |
| CTNBL1 | -1,54072 | 9,62E-10 |
| TMEM164 | -1,54154 | 1,15E-09 |
| TCFL5 | -1,54198 | 5,85E-06 |
| DEDD2 | -1,54216 | 2,09E-06 |
| ZBED6CL | -1,54461 | 0,00041 |
| CKAP2L | -1,54618 | 3,81E-05 |
| LPGAT1 | -1,54652 | 3,40E-09 |
| DR1 | -1,54769 | 9,95E-11 |
| MED14 | -1,54822 | 1,02E-10 |
| C21orf91 | -1,55051 | 2,81E-06 |
| RINL | -1,55052 | 0,000359 |
| PANK2 | -1,55091 | 4,99E-08 |
| EPS15 | -1,55105 | 2,09E-09 |
| PXMP2 | -1,55473 | 1,27E-05 |
| PSMB10 | -1,55768 | 7,24E-06 |
| KIAA1551 | -1,55786 | 2,98E-11 |
| DUT | -1,55841 | 2,03E-10 |
| HSPA13 | -1,56129 | 1,13E-09 |
| MBOAT1 | -1,5615 | 0,000396 |
| OSGEP | -1,57036 | 9,36E-07 |

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| LRRC40 | -1,57047 | 8,34E-08 |
| HP1BP3 | -1,57073 | 1,05E-05 |
| EYA3 | -1,57081 | 3,09E-09 |
| SMC2 | -1,57279 | 2,64E-09 |
| CFAP20 | -1,57339 | 1,39E-06 |
| SRSF4 | -1,57446 | 6,44E-10 |
| ARFRP1 | -1,57465 | 9,83E-11 |
| IFFO2 | -1,57515 | 6,39E-05 |
| SLC35E2B | -1,57655 | 1,47E-11 |
| ATM | -1,57675 | 0,000451 |
| PITPNM1 | -1,57738 | 2,36E-06 |
| FCHSD2 | -1,57938 | 8,18E-07 |
| TRPM2 | -1,57961 | 1,13E-06 |
| ASF1B | -1,5816 | 5,27E-10 |
| RNF144A | -1,58262 | 3,75E-06 |
| CRYBB2P1 | -1,58326 | 7,64E-05 |
| MAD2L2 | -1,58468 | 2,81E-05 |
| BUD13 | -1,58561 | 1,46E-06 |
| ATAD3B | -1,58687 | 0,000455 |
| PSMD5-AS: | -1,587 | 6,59E-06 |
| H6PD | -1,58831 | 4,71E-07 |
| S100PBP | -1,59068 | 4,14E-06 |
| CENPP | -1,59074 | 1,20E-05 |
| BLMH | -1,59645 | 1,21E-09 |
| KIAA0754 | -1,59648 | 4,93E-05 |
| DGKD | -1,59714 | 8,87E-07 |
| FGFR1 | -1,59947 | 4,80E-11 |
| NUP133 | -1,59998 | 4,21E-12 |
| CPNE1 | -1,60159 | 2,02E-12 |
| AGTPBP1 | -1,60331 | 2,86E-08 |
| SNX29 | -1,60372 | 0,000266 |
| SNRK | -1,60436 | 3,80E-09 |
| MYO9B | -1,60495 | 1,24E-07 |
| ZNF711 | -1,60573 | 0,000119 |
| EVL | -1,60589 | 3,14E-10 |
| ZNF292 | -1,6065 | 2,06E-09 |
| TOE1 | -1,60733 | 2,87E-05 |
| LIMK2 | -1,60962 | 3,17E-07 |
| ARID1B | -1,61049 | 2,16E-10 |
| TWF2 | -1,61081 | 1,02E-08 |
| ARFGEF1 | -1,61176 | 1,32E-10 |
| HACD1 | -1,61384 | 0,000272 |
| STXBP5 | -1,61416 | 9,29E-08 |
| FAM120C | -1,6146 | 8,72E-06 |
| GID4 | -1,61811 | 3,78E-05 |
| CARS2 | -1,61846 | 2,15E-09 |
| ZNF549 | -1,62079 | 0,000689 |
| CCNDBP1 | -1,62106 | 9,38E-07 |
| TMEM110 | -1,6219 | 3,19E-05 |
| C21orf2 | -1,62391 | 2,26E-07 |

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| PIP4K2B | -1,62527 | 3,64E-12 |
| CENPC | -1,6293 | 2,37E-05 |
| TINF2 | -1,63042 | 3,40E-10 |
| TARBP1 | -1,63082 | 3,97E-05 |
| PDE7A | -1,63504 | 3,11E-08 |
| SDE2 | -1,63617 | 0,000164 |
| TRNAU1AP | -1,63712 | 2,50E-06 |
| GNAI2 | -1,63716 | 1,64E-06 |
| CERK | -1,63768 | 2,15E-05 |
| DIAPH3 | -1,63895 | 4,37E-05 |
| TMEM206 | -1,64326 | 0,000291 |
| NUP43 | -1,64857 | 2,41E-08 |
| PTPRA | -1,6488 | 1,68E-09 |
| DYRK3 | -1,65013 | 0,000108 |
| PGBD5 | -1,65425 | 0,000491 |
| SHCBP1 | -1,6547 | 1,76E-11 |
| ETHE1 | -1,65575 | 5,50E-05 |
| IRF2 | -1,65769 | 2,80E-08 |
| GTF3C5 | -1,65971 | 4,53E-14 |
| SPRED2 | -1,6607 | 3,60E-12 |
| ESCO2 | -1,66125 | 6,78E-09 |
| SREBF2 | -1,66213 | 3,47E-13 |
| NGLY1 | -1,6625 | 1,31E-09 |
| ZNF462 | -1,66436 | 1,31E-06 |
| NDST2 | -1,66538 | 2,53E-08 |
| MED30 | -1,66543 | 2,32E-05 |
| TRAF3 | -1,66782 | 1,49E-11 |
| TGFB1 | -1,66797 | 3,84E-07 |
| CHFR | -1,66851 | 1,29E-09 |
| ZNF101 | -1,66967 | 4,09E-08 |
| SLC23A2 | -1,66967 | 9,98E-09 |
| MAP2K6 | -1,67006 | 1,60E-06 |
| SLC36A4 | -1,67057 | 0,000119 |
| SNX25 | -1,67077 | 2,32E-05 |
| N4BP2 | -1,67331 | 1,69E-09 |
| ETV6 | -1,67726 | 2,82E-08 |
| GTPBP1 | -1,67729 | 1,37E-09 |
| UPRT | -1,67784 | 0,000844 |
| MOB1B | -1,67811 | 1,09E-06 |
| VPS39 | -1,67905 | 5,52E-10 |
| IL17RA | -1,67911 | 1,05E-10 |
| MSI2 | -1,68096 | 2,77E-09 |
| KAT6A | -1,68428 | 1,66E-11 |
| ARHGEF7 | -1,6884 | 1,90E-09 |
| FAM171A1 | -1,68921 | 5,65E-05 |
| FKBP5 | -1,69456 | 1,10E-10 |
| PTAR1 | -1,69465 | 1,20E-07 |
| SPOP | -1,70112 | 7,61E-09 |
| RUFY3 | -1,70112 | 5,80E-09 |
| TMEM55A | -1,70299 | 2,87E-05 |

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| PSD4 | -1,70723 | 5,36E-10 |
| USP4 | -1,7098 | 1,51E-12 |
| ELF1 | -1,71044 | 1,48E-14 |
| ZNF70 | -1,7107 | 0,000781 |
| LINC00294 | -1,71091 | 0,000984 |
| TXLNA | -1,71276 | 1,35E-08 |
| CBFB | -1,71282 | 1,39E-11 |
| STK17A | -1,71485 | 3,49E-09 |
| POLM | -1,71505 | 4,41E-06 |
| KIAA1143 | -1,71633 | 4,09E-09 |
| KDM5C | -1,71637 | 5,49E-16 |
| NFATC3 | -1,71644 | 1,63E-11 |
| METTL17 | -1,71785 | 3,57E-05 |
| SYNJ2 | -1,71891 | 3,50E-10 |
| PPM1F | -1,71914 | 1,75E-05 |
| TBC1D1 | -1,72047 | 9,29E-08 |
| SGTB | -1,72354 | 3,79E-05 |
| DTL | -1,72358 | 4,42E-13 |
| SCAPER | -1,72367 | 6,72E-05 |
| CRY1 | -1,72403 | 3,73E-10 |
| ZNF827 | -1,72404 | 0,000122 |
| CNTLN | -1,72807 | 0,000168 |
| PCNXL4 | -1,72922 | 3,17E-13 |
| CRYZL1 | -1,72956 | 6,64E-06 |
| CCBL1 | -1,73069 | 0,00044 |
| EFHD2 | -1,73148 | 1,05E-08 |
| SCAI | -1,73197 | 5,58E-07 |
| TLN1 | -1,73272 | 3,23E-09 |
| ARRDC1-AS | -1,73428 | 8,21E-06 |
| HMGCS1 | -1,73487 | 1,01E-08 |
| SCD5 | -1,73488 | 1,23E-09 |
| RCBTB1 | -1,73715 | 9,00E-07 |
| BDH2 | -1,73756 | 9,27E-05 |
| EPM2A | -1,73892 | 0,000127 |
| AKAP17A | -1,74251 | 1,67E-05 |
| ATP2B4 | -1,74336 | 5,69E-06 |
| PIN1 | -1,74541 | 4,11E-12 |
| RAD51AP1 | -1,74625 | 0,000379 |
| TCEANC2 | -1,74801 | 3,06E-06 |
| FBXO5 | -1,74853 | 3,75E-06 |
| MIR4442 | -1,74923 | 0,000998 |
| GNAQ | -1,75047 | 8,28E-16 |
| KIF24 | -1,75772 | 7,86E-06 |
| PHC1 | -1,75986 | 3,97E-10 |
| LDAH | -1,76145 | 3,10E-10 |
| KDELC1 | -1,76167 | 1,20E-05 |
| AGAP2 | -1,7653 | 1,16E-09 |
| NEU3 | -1,76603 | 4,62E-09 |
| COPS7B | -1,76697 | 1,74E-11 |
| ATP9B | -1,7672 | 3,89E-06 |

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| RAD51D | -1,76775 | 0,000174 |
| HAUS5 | -1,76803 | 2,40E-06 |
| RNF170 | -1,77203 | 1,07E-05 |
| SLC35A3 | -1,77262 | 1,45E-09 |
| PLEKHG4 | -1,77322 | 7,17E-05 |
| FDFT1 | -1,77552 | 1,89E-10 |
| ARL6IP6 | -1,77581 | 1,44E-05 |
| CTDSPL2 | -1,77672 | 5,41E-10 |
| IL4R | -1,77733 | 0,000768 |
| RNF145 | -1,77798 | 1,57E-05 |
| ZNF589 | -1,77876 | 0,000542 |
| INAFM2 | -1,77996 | 0,000985 |
| ZNF792 | -1,77998 | 0,000474 |
| ORC1 | -1,78265 | 8,63E-10 |
| FBXO41 | -1,78273 | 5,88E-08 |
| PBRM1 | -1,78487 | 1,20E-16 |
| LIG4 | -1,78852 | 3,19E-09 |
| LINC00909 | -1,78873 | 0,000839 |
| DOPEY1 | -1,78929 | 8,66E-06 |
| THYN1 | -1,79044 | 2,01E-10 |
| CEP57 | -1,79111 | 6,52E-09 |
| CEP170 | -1,79451 | 2,62E-13 |
| STARD4 | -1,79487 | 8,22E-06 |
| KDELC2 | -1,79488 | 1,82E-10 |
| PHF19 | -1,79501 | 1,16E-13 |
| PPP1R3E | -1,79592 | 0,000328 |
| KLF13 | -1,79751 | 3,26E-13 |
| RAD54L2 | -1,79766 | 6,09E-07 |
| C9orf40 | -1,79946 | 5,48E-09 |
| MANEA | -1,80153 | 4,82E-06 |
| CLSPN | -1,80425 | 6,66E-16 |
| SPTBN1 | -1,81 | 4,13E-16 |
| PEX6 | -1,81026 | 0,000831 |
| VAMP2 | -1,81039 | 1,53E-09 |
| RBL1 | -1,81122 | 3,33E-08 |
| STAU2 | -1,8141 | 1,60E-14 |
| SSFA2 | -1,81484 | 1,78E-11 |
| AFF1 | -1,81535 | 7,80E-11 |
| KLHL15 | -1,81707 | 3,60E-05 |
| TTF1 | -1,81781 | 6,40E-13 |
| ANKRD49 | -1,81853 | 3,65E-05 |
| LOC648987 | -1,81996 | 2,63E-05 |
| MTR | -1,82195 | 1,35E-07 |
| SCP2 | -1,82373 | 2,52E-07 |
| LRRC14 | -1,82602 | 1,32E-09 |
| FAT1 | -1,82664 | 4,91E-09 |
| RAPGEF1 | -1,83175 | 2,48E-10 |
| SACM1L | -1,83319 | 1,16E-09 |
| CCDC28A | -1,83361 | 5,62E-05 |
| GPR180 | -1,83568 | 4,49E-08 |

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| CEP152 | -1,8384 | 4,93E-05 |
| SHQ1 | -1,84056 | 5,13E-11 |
| PLEKHG2 | -1,84276 | 2,24E-13 |
| MAP7D1 | -1,84316 | 1,11E-10 |
| RICTOR | -1,84539 | 2,09E-06 |
| CHAF1A | -1,84692 | 1,53E-13 |
| FES | -1,84793 | 0,000796 |
| BNIP3L | -1,8486 | 2,15E-07 |
| LOC728743 | -1,84887 | 0,000349 |
| ZGRF1 | -1,85041 | 0,000481 |
| RRN3P3 | -1,85447 | 0,000958 |
| PDDC1 | -1,85573 | 3,01E-08 |
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| DHX35 | -1,86122 | 1,57E-06 |
| EPB41 | -1,86199 | 9,21E-13 |
| CDK19 | -1,86327 | 1,49E-11 |
| XYLT1 | -1,86461 | 2,95E-08 |
| ZNF486 | -1,8647 | 2,93E-07 |
| ZSCAN16-A | -1,86727 | 5,07E-05 |
| ARHGEF18 | -1,86763 | 3,50E-13 |
| SLC30A7 | -1,8681 | 3,82E-06 |
| TPP2 | -1,87137 | 6,32E-14 |
| MAP4K2 | -1,87331 | 5,42E-09 |
| TEX30 | -1,87721 | 4,58E-07 |
| SBF1 | -1,87768 | 2,10E-13 |
| C18orf54 | -1,8783 | 7,25E-08 |
| ENO2 | -1,87837 | 2,75E-07 |
| CASC5 | -1,88048 | 7,51E-16 |
| HIC2 | -1,88779 | 2,12E-05 |
| B4GALT5 | -1,88798 | 3,24E-15 |
| CLDND1 | -1,88853 | 2,40E-11 |
| CYTH1 | -1,88912 | 2,01E-10 |
| LEF1 | -1,8962 | 1,92E-10 |
| PDXP | -1,89696 | 1,95E-10 |
| ZBED1 | -1,90243 | 3,99E-10 |
| MMD | -1,90555 | 0,000646 |
| BUB1B | -1,90805 | 2,90E-08 |
| HMGB2 | -1,90821 | 6,47E-08 |
| TMEM135 | -1,91293 | 1,06E-08 |
| NIN | -1,91682 | 1,32E-15 |
| BCKDHB | -1,91727 | 3,67E-07 |
| ARGLU1 | -1,91807 | 0,00029 |
| TBC1D4 | -1,91825 | 2,46E-05 |
| RANGRF | -1,91875 | 8,64E-09 |
| PM20D2 | -1,91939 | 1,04E-07 |
| TCF19 | -1,9194 | 4,28E-16 |
| HDAC6 | -1,92 | 1,08E-10 |
| RAB8B | -1,92098 | 7,56E-07 |
| GLS | -1,92421 | 2,60E-07 |
| SNTA1 | -1,92479 | 1,30E-07 |

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| PCNA | -1,92534 | 1,32E-21 |
| ACSL4 | -1,92701 | 2,26E-10 |
| SENP7 | -1,93154 | 0,000215 |
| GTSE1 | -1,93163 | 2,30E-14 |
| CPOX | -1,9325 | 5,96E-06 |
| SERGEF | -1,93498 | 1,51E-06 |
| SYNGR1 | -1,93556 | 3,25E-05 |
| OCIAD2 | -1,93633 | 9,92E-11 |
| EPHX2 | -1,93691 | 2,25E-07 |
| SMC5 | -1,93879 | 6,80E-14 |
| ASIC1 | -1,94303 | 7,88E-05 |
| FAM169A | -1,94533 | 0,000277 |
| BACH1 | -1,946 | 2,02E-09 |
| ME2 | -1,95335 | 9,77E-15 |
| MACF1 | -1,95336 | 9,62E-21 |
| SLC25A12 | -1,95583 | 1,59E-09 |
| HLA-C | -1,95914 | 0,000451 |
| PCBP3 | -1,95935 | 3,16E-06 |
| KCNC4 | -1,96066 | 0,000104 |
| MYH10 | -1,96304 | 1,32E-14 |
| XRN1 | -1,96422 | 1,62E-07 |
| IFNAR2 | -1,96463 | 4,79E-09 |
| ANKRD10 | -1,96531 | 1,37E-07 |
| HOMER1 | -1,96886 | 2,48E-12 |
| MIER1 | -1,97182 | 5,42E-16 |
| LINC00641 | -1,97339 | 0,000492 |
| HBS1L | -1,97525 | 8,79E-19 |
| NUPL2 | -1,97582 | 0,00053 |
| ABCB7 | -1,97644 | 1,73E-10 |
| FAM160B1 | -1,97661 | 1,20E-07 |
| ITPRIP | -1,97845 | 0,000254 |
| ACOT8 | -1,97879 | 2,59E-07 |
| LOC730101 | -1,97893 | 5,13E-08 |
| FRG1 | -1,98428 | 4,85E-10 |
| FBXO4 | -1,98488 | 8,44E-05 |
| CEP135 | -1,98504 | 1,19E-05 |
| LOC100996 | -1,98674 | 2,51E-05 |
| LZTFL1 | -1,98698 | 3,86E-05 |
| KPNA5 | -1,99586 | 0,000203 |
| SLC27A1 | -1,99607 | 0,000103 |
| IRF1 | -1,99808 | 6,48E-08 |
| FABP5 | -1,99808 | 1,91E-18 |
| CHCHD7 | -2,00163 | 1,73E-08 |
| BTN2A1 | -2,00184 | 0,000247 |
| HBEGF | -2,00271 | 0,000265 |
| ZNF141 | -2,00297 | 1,13E-05 |
| INPP5B | -2,00469 | 2,23E-08 |
| SMYD3 | -2,00517 | 5,66E-07 |
| ZNF230 | -2,00568 | 0,000345 |
| DDX17 | -2,00581 | 2,15E-09 |

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| FBXL12 | -2,00621 | 4,18E-09 |
| MOB3A | -2,00622 | 2,20E-13 |
| GLCCI1 | -2,00764 | 2,21E-10 |
| GGT7 | -2,00768 | 3,43E-05 |
| CEP128 | -2,0086 | 1,32E-13 |
| CEP85 | -2,01069 | 6,71E-07 |
| SASS6 | -2,01078 | 1,03E-05 |
| GRAMD4 | -2,01489 | 2,10E-06 |
| ZNF22 | -2,01513 | 1,23E-06 |
| CASP3 | -2,01811 | 9,44E-09 |
| EFCAB7 | -2,0184 | 0,000444 |
| ATP11B | -2,01928 | 4,61E-19 |
| MAGEE1 | -2,02139 | 7,12E-05 |
| KIF15 | -2,02535 | 5,13E-09 |
| NIPAL3 | -2,03028 | 5,58E-06 |
| NPAT | -2,0305 | 4,10E-12 |
| RAP1GDS1 | -2,03228 | 2,38E-16 |
| PCED1A | -2,03399 | 4,75E-05 |
| TECPR1 | -2,03512 | 6,00E-11 |
| ECHDC1 | -2,03591 | 6,99E-11 |
| HECA | -2,03649 | 2,12E-06 |
| MYCBP2 | -2,03878 | 4,43E-17 |
| ANO6 | -2,0419 | 1,93E-14 |
| ZNF37BP | -2,04514 | 1,14E-05 |
| SZT2 | -2,0453 | 4,24E-10 |
| CASP8AP2 | -2,04577 | 1,21E-10 |
| RAD54L | -2,04619 | 3,74E-11 |
| ABHD3 | -2,04712 | 1,59E-07 |
| PXYLP1 | -2,05 | 3,46E-10 |
| BICD1 | -2,05485 | 2,94E-10 |
| GNPDA2 | -2,05497 | 4,68E-05 |
| GBE1 | -2,05639 | 2,25E-11 |
| CDC25A | -2,05653 | 6,24E-15 |
| SLC25A20 | -2,05795 | 2,12E-05 |
| PDE4D | -2,05811 | 1,02E-13 |
| KIAA0922 | -2,0592 | 1,63E-07 |
| ABCD3 | -2,06012 | 4,63E-16 |
| ZNF493 | -2,06071 | 1,85E-06 |
| GATSL3 | -2,06844 | 0,000105 |
| SNX10 | -2,07064 | 1,18E-06 |
| PIDD1 | -2,07172 | 5,38E-10 |
| PCMTD1 | -2,07375 | 3,52E-07 |
| PTP4A2 | -2,07513 | 9,72E-19 |
| TRIM14 | -2,07574 | 6,46E-07 |
| SNHG3 | -2,07645 | 8,06E-07 |
| CENPW | -2,08515 | 3,58E-10 |
| MCAM | -2,08625 | 2,64E-05 |
| CHRNA1 | -2,0875 | 2,60E-05 |
| ASF1A | -2,09366 | 5,57E-16 |
| ago-04 | -2,09585 | 4,15E-10 |

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| FBXO25 | -2,09659 | 3,71E-10 |
| NAB1 | -2,09676 | 1,76E-09 |
| ZCCHC3 | -2,09913 | 3,83E-11 |
| FADS3 | -2,10168 | 4,04E-14 |
| MCM8 | -2,10305 | 3,98E-16 |
| PAXIP1-AS2 | -2,10428 | 6,38E-05 |
| SLCO3A1 | -2,10606 | 3,95E-08 |
| CARD8 | -2,10729 | 1,47E-08 |
| CHD9 | -2,10751 | 3,97E-12 |
| ZSWIM3 | -2,10931 | 3,63E-05 |
| SLC35D1 | -2,11336 | 7,71E-11 |
| APOBEC3F | -2,11378 | 0,000101 |
| ARL11 | -2,11417 | 0,000241 |
| TAF4B | -2,11536 | 4,66E-08 |
| FMNL3 | -2,11788 | 3,08E-15 |
| STK4 | -2,12141 | 2,51E-21 |
| TTC7A | -2,12182 | 4,43E-17 |
| SH3KBP1 | -2,12326 | 3,33E-09 |
| STK39 | -2,12467 | 3,38E-08 |
| POMK | -2,12712 | 2,24E-05 |
| KAT2B | -2,12754 | 2,83E-05 |
| TGFBR2 | -2,1283 | 2,09E-09 |
| ITPR1 | -2,1294 | 5,94E-10 |
| SMAP2 | -2,13244 | 6,28E-07 |
| LINC01128 | -2,13282 | 2,31E-06 |
| LOC100506 | -2,13547 | 0,000779 |
| SLC16A10 | -2,14504 | 2,89E-05 |
| EXOG | -2,14545 | 0,00051 |
| PIP4K2A | -2,15072 | 3,87E-20 |
| HSD17B11 | -2,15669 | 0,00012 |
| CRLF3 | -2,15716 | 5,46E-09 |
| NCAPD3 | -2,15774 | 3,03E-16 |
| DDIT4L | -2,16205 | 5,21E-09 |
| CCSAP | -2,16253 | 2,31E-10 |
| C15orf41 | -2,16454 | 6,07E-06 |
| ARFGAP1 | -2,16536 | 1,28E-23 |
| DCK | -2,16569 | 4,07E-20 |
| USP51 | -2,16845 | 0,000231 |
| TTC38 | -2,16935 | 1,01E-09 |
| EPDR1 | -2,16992 | 1,60E-08 |
| SOBP | -2,17274 | 9,74E-08 |
| UTRN | -2,17282 | 7,76E-12 |
| PRKACB | -2,17322 | 2,57E-15 |
| FADS1 | -2,17486 | 9,78E-13 |
| ABHD17B | -2,17566 | 2,49E-15 |
| OGT | -2,18163 | 4,76E-07 |
| ARID3A | -2,1822 | 3,93E-05 |
| KATNB1 | -2,18385 | 3,99E-14 |
| MAPKBP1 | -2,18476 | 4,53E-08 |
| PLIN2 | -2,18684 | 9,12E-11 |

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| SLC8B1 | -2,19132 | 3,09E-09 |
| GANC | -2,19447 | 1,90E-07 |
| ULBP1 | -2,19478 | 0,000234 |
| TTC28 | -2,19631 | 1,15E-10 |
| ST6GALNA4 | -2,19836 | 6,37E-06 |
| SCN8A | -2,20093 | 0,000318 |
| SEPT9 | -2,20114 | 3,49E-08 |
| WDR76 | -2,20286 | 3,75E-12 |
| ING5 | -2,20775 | 4,80E-08 |
| CD83 | -2,21055 | 1,38E-07 |
| SORL1 | -2,21198 | 6,34E-14 |
| USP11 | -2,21423 | 1,12E-14 |
| FAM111A | -2,2162 | 4,10E-15 |
| LRRC37B | -2,21836 | 1,36E-05 |
| CLCN6 | -2,21936 | 0,000161 |
| RP2 | -2,22212 | 2,16E-07 |
| FUZ | -2,22311 | 7,79E-10 |
| FAF1 | -2,22427 | 4,07E-09 |
| IFI27L1 | -2,22802 | 7,35E-08 |
| ZNF853 | -2,23049 | 0,000287 |
| ATP1A3 | -2,23239 | 2,21E-06 |
| FAM69A | -2,23591 | 0,000114 |
| ZNF605 | -2,23653 | 4,61E-06 |
| L3MBTL3 | -2,23819 | 8,08E-06 |
| NAPRT | -2,23847 | 4,28E-07 |
| GPATCH11 | -2,23961 | 1,32E-09 |
| ICAM3 | -2,2414 | 2,66E-09 |
| CTSC | -2,24186 | 1,42E-19 |
| BRWD3 | -2,2426 | 1,68E-06 |
| SLC10A7 | -2,24313 | 3,40E-06 |
| MGAT4A | -2,2462 | 4,72E-14 |
| FNBP1 | -2,24913 | 5,51E-26 |
| CEP19 | -2,25108 | 1,14E-05 |
| CNTRL | -2,25434 | 1,50E-09 |
| CD82 | -2,26336 | 1,71E-12 |
| CDS2 | -2,26615 | 1,36E-20 |
| RPL23AP53 | -2,2678 | 4,07E-09 |
| CYP2U1 | -2,27056 | 5,13E-07 |
| P3H1 | -2,27114 | 4,27E-14 |
| ZNF445 | -2,27258 | 2,12E-12 |
| HIVEP2 | -2,2764 | 9,85E-16 |
| TRAF5 | -2,27872 | 1,31E-07 |
| BMP2K | -2,28189 | 2,92E-18 |
| SPIN4 | -2,28379 | 1,32E-07 |
| TREX1 | -2,2845 | 3,42E-06 |
| ECE1 | -2,28482 | 1,84E-17 |
| GNB4 | -2,28485 | 5,24E-13 |
| PAQR3 | -2,28546 | 2,99E-15 |
| RASSF2 | -2,28651 | 4,19E-07 |
| SARM1 | -2,29188 | 5,04E-09 |

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| ATP8B2 | -2,29286 | 3,59E-13 |
| RAB9B | -2,30237 | 2,42E-05 |
| LOC285074 | -2,30985 | 4,37E-05 |
| DNMBP | -2,31715 | 8,03E-11 |
| RRAGD | -2,31822 | 2,55E-08 |
| KCTD17 | -2,32285 | 1,22E-07 |
| ABCB10 | -2,32314 | 3,00E-14 |
| SNHG10 | -2,32429 | 1,68E-06 |
| SMC1A | -2,32553 | 4,57E-23 |
| HSPB11 | -2,32741 | 1,87E-13 |
| ZNF772 | -2,3278 | 5,01E-12 |
| C11orf54 | -2,32797 | 5,91E-09 |
| ANKMY2 | -2,33538 | 1,55E-12 |
| RCBTB2 | -2,33659 | 3,12E-08 |
| PLCH1 | -2,33847 | 1,02E-26 |
| STMN1 | -2,33931 | 7,93E-13 |
| IL1RAP | -2,33983 | 0,000242 |
| STRIP2 | -2,35091 | 0,000327 |
| TTC21B | -2,35551 | 4,10E-11 |
| IKBKE | -2,35803 | 3,84E-05 |
| FRG1HP | -2,36334 | 8,78E-08 |
| SLC1A4 | -2,36352 | 2,02E-07 |
| RIN3 | -2,36612 | 2,94E-07 |
| AMIGO3 | -2,36993 | 1,18E-09 |
| CDK5RAP3 | -2,37364 | 6,44E-07 |
| ZMYM6NB | -2,37378 | 3,16E-06 |
| TMEM170f | -2,37499 | 5,46E-09 |
| SLC5A3 | -2,3752 | 6,64E-20 |
| PHF7 | -2,38154 | 2,46E-05 |
| GHDC | -2,38324 | 1,15E-09 |
| CDPF1 | -2,38458 | 7,86E-07 |
| TUBGCP6 | -2,39237 | 6,27E-05 |
| TMX3 | -2,39607 | 4,60E-12 |
| CCDC15 | -2,40074 | 1,04E-05 |
| LOC101927 | -2,4008 | 0,000315 |
| DUSP7 | -2,4027 | 4,76E-08 |
| DACH1 | -2,40352 | 9,12E-09 |
| SPSB1 | -2,40356 | 1,91E-06 |
| ANKRD13A | -2,40606 | 1,21E-10 |
| STS | -2,41413 | 3,03E-10 |
| CCDC18 | -2,41695 | 2,29E-06 |
| RNPEPL1 | -2,42017 | 5,94E-14 |
| RB1 | -2,42272 | 4,23E-26 |
| CHST14 | -2,43201 | 1,68E-13 |
| TMEM106f | -2,43448 | 1,67E-06 |
| APBA1 | -2,43609 | 1,34E-06 |
| RHOU | -2,44075 | 1,44E-07 |
| TESC | -2,44997 | 1,71E-06 |
| GK | -2,45512 | 2,19E-10 |
| KCTD7 | -2,46367 | 3,49E-09 |

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| CHM | -2,46424 | 1,04E-07 |
| FAM135A | -2,47272 | 6,69E-08 |
| ICA1L | -2,47654 | 4,86E-07 |
| HACE1 | -2,48016 | 1,70E-08 |
| CARD8-AS1 | -2,49241 | 3,16E-05 |
| DGKE | -2,4925 | 5,87E-11 |
| KIF13B | -2,50098 | 1,05E-06 |
| C21orf58 | -2,50406 | 1,50E-06 |
| TNFAIP8 | -2,51081 | 5,14E-17 |
| ZNF512 | -2,51184 | 3,02E-20 |
| EMB | -2,51364 | 5,27E-30 |
| TIGD7 | -2,51664 | 2,91E-08 |
| ZEB1-AS1 | -2,51723 | 4,58E-07 |
| PARP8 | -2,52021 | 5,02E-15 |
| TSPAN5 | -2,52241 | 9,22E-09 |
| CCDC109B | -2,52278 | 9,05E-15 |
| EVI5L | -2,52438 | 3,54E-10 |
| ADGRB2 | -2,531 | 4,16E-10 |
| PDE3B | -2,53101 | 1,21E-17 |
| RBMS2 | -2,53444 | 1,64E-10 |
| ATHL1 | -2,54527 | 0,000405 |
| PLEKHM3 | -2,55103 | 1,22E-10 |
| SLAIN1 | -2,55208 | 3,08E-12 |
| MFGE8 | -2,56043 | 2,79E-16 |
| B3GNTL1 | -2,56382 | 2,30E-08 |
| ST3GAL3 | -2,56544 | 3,52E-10 |
| CPQ | -2,56652 | 6,15E-05 |
| FCGBP | -2,56666 | 0,000594 |
| SOCS1 | -2,58014 | 1,95E-16 |
| TRIM46 | -2,58275 | 0,000124 |
| GNG4 | -2,58353 | 8,94E-06 |
| CROCCP2 | -2,60057 | 0,000161 |
| SMIM3 | -2,60377 | 8,52E-18 |
| SYNJ1 | -2,60426 | 9,25E-10 |
| TTBK2 | -2,60723 | 1,09E-07 |
| PMAIP1 | -2,6088 | 2,18E-11 |
| KDM6A | -2,61247 | 2,43E-17 |
| B2M | -2,61596 | 1,03E-15 |
| TSHZ1 | -2,62332 | 6,88E-14 |
| NREP | -2,62366 | 3,84E-14 |
| HOOK3 | -2,62429 | 1,84E-19 |
| TRAF3IP2-/- | -2,62588 | 4,61E-08 |
| C12orf75 | -2,63152 | 2,08E-25 |
| DPYSL2 | -2,63677 | 1,11E-16 |
| OGDHL | -2,63738 | 1,10E-16 |
| DLG4 | -2,64065 | 1,72E-06 |
| NFATC1 | -2,64653 | 1,54E-16 |
| ARFGAP3 | -2,6499 | 7,31E-21 |
| PRKXP1 | -2,66407 | 0,000737 |
| RGS19 | -2,66425 | 2,17E-15 |

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| NFATC2 | -2,67228 | 7,74E-13 |
| STAT5B | -2,67592 | 5,18E-35 |
| C9orf9 | -2,68225 | 5,94E-06 |
| CLIP3 | -2,68322 | 5,27E-08 |
| MVB12B | -2,68324 | 3,41E-19 |
| OXCT1 | -2,687 | 2,21E-28 |
| PLTP | -2,68765 | 5,69E-06 |
| DIAPH2 | -2,69364 | 9,95E-18 |
| NEIL3 | -2,69575 | 2,18E-07 |
| SP4 | -2,69662 | 4,28E-10 |
| EXTL2 | -2,69834 | 3,58E-10 |
| LETM2 | -2,70049 | 0,000637 |
| USP49 | -2,70078 | 2,35E-14 |
| ANKH | -2,70256 | 2,33E-23 |
| STIM1 | -2,70445 | 1,27E-30 |
| ACADM | -2,70574 | 1,61E-30 |
| MFHAS1 | -2,70738 | 2,58E-25 |
| CAPG | -2,7074 | 1,09E-20 |
| BIVM | -2,71333 | 9,87E-07 |
| ARL4C | -2,71854 | 1,38E-29 |
| RASA2 | -2,71936 | 6,67E-13 |
| ZNF155 | -2,72081 | 2,21E-06 |
| KCNQ5 | -2,73617 | 1,72E-06 |
| HIVEP3 | -2,73729 | 0,000143 |
| TTC33 | -2,74085 | 1,62E-15 |
| C20orf196 | -2,75092 | 3,46E-06 |
| NXPE3 | -2,7512 | 1,13E-07 |
| STMN3 | -2,75137 | 3,89E-32 |
| PLA2G6 | -2,75224 | 4,50E-07 |
| SEC14L2 | -2,75689 | 4,15E-08 |
| NDRG1 | -2,75874 | 4,83E-14 |
| TRIM47 | -2,76006 | 1,51E-11 |
| MTMR10 | -2,76289 | 3,01E-19 |
| GNAO1 | -2,76793 | 0,000774 |
| TRIB2 | -2,77108 | 5,39E-12 |
| TCF12 | -2,77647 | 4,11E-21 |
| MTF2 | -2,79508 | 1,86E-23 |
| PRKCH | -2,79868 | 6,11E-21 |
| TFPI | -2,79914 | 2,21E-06 |
| PPARA | -2,80185 | 4,26E-17 |
| CNOT6L | -2,80208 | 1,79E-33 |
| USP20 | -2,82465 | 1,51E-33 |
| RECK | -2,82627 | 1,90E-05 |
| SLC12A4 | -2,82803 | 2,28E-05 |
| TMED8 | -2,83731 | 3,56E-11 |
| SERPINF1 | -2,8427 | 0,000253 |
| GALNT7 | -2,84775 | 7,33E-18 |
| CDON | -2,84895 | 1,30E-08 |
| SSH2 | -2,85181 | 2,94E-25 |
| BAHCC1 | -2,85261 | 2,94E-11 |

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| PGM1 | -2,85896 | 7,44E-16 |
| KHDC1 | -2,8624 | 4,72E-07 |
| PAK1 | -2,86593 | 4,49E-16 |
| SCMH1 | -2,90758 | 6,07E-10 |
| TYMS | -2,91979 | 8,68E-40 |
| DUSP10 | -2,92028 | 2,96E-05 |
| SHPRH | -2,92492 | 3,45E-15 |
| BZRAP1-AS | -2,9259 | 1,91E-07 |
| C19orf38 | -2,9329 | 0,000284 |
| ZNF880 | -2,93587 | 0,000691 |
| ZNF702P | -2,93853 | 6,15E-06 |
| PELI1 | -2,94292 | 9,50E-09 |
| ITM2C | -2,94339 | 9,50E-24 |
| ATAD5 | -2,94352 | 5,96E-12 |
| CD8A | -2,94533 | 3,40E-21 |
| PRTFDC1 | -2,94605 | 3,17E-15 |
| ZNF81 | -2,95172 | 1,20E-08 |
| TERT | -2,95801 | 1,94E-05 |
| NMI | -2,95816 | 6,24E-13 |
| CHST7 | -2,9585 | 6,82E-08 |
| NMNAT3 | -2,96082 | 1,92E-06 |
| ARAP2 | -2,96665 | 7,31E-21 |
| CECR6 | -2,96895 | 5,50E-06 |
| SMCO4 | -2,96999 | 9,39E-09 |
| C16orf62 | -2,97054 | 2,27E-20 |
| CMTM1 | -2,97625 | 0,000548 |
| RNASEH2B | -2,98084 | 5,27E-24 |
| FXYS5 | -2,98455 | 2,80E-21 |
| GPR63 | -2,9874 | 3,44E-07 |
| SLC2A3 | -2,99096 | 0,000304 |
| TSPYL4 | -2,99614 | 1,36E-26 |
| NEDD9 | -2,99836 | 0,0008 |
| ASRGL1 | -3,00722 | 2,18E-20 |
| ADAMTS17 | -3,00829 | 6,39E-11 |
| GCHFR | -3,0125 | 1,42E-15 |
| PARP10 | -3,01556 | 1,15E-12 |
| ZNF266 | -3,01589 | 4,77E-09 |
| GALT | -3,01734 | 2,55E-07 |
| RORC | -3,02056 | 4,19E-11 |
| GSDMD | -3,02338 | 3,19E-10 |
| LRRN1 | -3,02467 | 9,27E-16 |
| ARID3B | -3,03179 | 1,93E-13 |
| ADAM10 | -3,03406 | 4,34E-44 |
| PPP2R3B | -3,03492 | 1,34E-16 |
| TMEM8B | -3,04595 | 2,10E-11 |
| UBALD2 | -3,04754 | 1,15E-11 |
| ZNF469 | -3,05418 | 0,000488 |
| CCND3 | -3,05863 | 1,10E-12 |
| YPEL1 | -3,05964 | 1,63E-10 |
| DDX60L | -3,06131 | 9,63E-11 |

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| MICB | -3,06669 | 1,73E-14 |
| CRACR2A | -3,07558 | 1,58E-05 |
| PTK2B | -3,09142 | 2,50E-22 |
| RIMS2 | -3,09194 | 1,03E-08 |
| LRRC37A4F | -3,1114 | 1,25E-13 |
| GRK5 | -3,11563 | 6,54E-10 |
| SUSD1 | -3,11581 | 3,17E-22 |
| COCH | -3,12045 | 7,76E-12 |
| ACO1 | -3,12542 | 1,81E-17 |
| BISPR | -3,12851 | 5,95E-07 |
| RAPGEF5 | -3,1382 | 1,51E-11 |
| CHST11 | -3,13842 | 1,70E-25 |
| MAP10 | -3,14385 | 3,79E-12 |
| STK17B | -3,15591 | 7,82E-31 |
| RPGR | -3,15642 | 9,96E-07 |
| HLA-A | -3,15955 | 1,69E-24 |
| CAPN10 | -3,1624 | 2,48E-15 |
| PPM1M | -3,17095 | 1,17E-11 |
| CCDC82 | -3,18211 | 7,11E-11 |
| UHRF1 | -3,18507 | 8,48E-27 |
| AGPAT4 | -3,18977 | 3,08E-07 |
| ATL1 | -3,19255 | 8,76E-07 |
| KBTBD11 | -3,20539 | 4,19E-12 |
| LRP4 | -3,23683 | 3,46E-16 |
| DAAM2 | -3,23858 | 6,65E-12 |
| ZNF814 | -3,24084 | 2,46E-06 |
| SCCPDH | -3,24415 | 1,02E-32 |
| NT5M | -3,24474 | 8,62E-13 |
| SH2D2A | -3,25295 | 4,72E-11 |
| OSBPL5 | -3,26237 | 6,68E-26 |
| CMTM7 | -3,26277 | 1,49E-12 |
| FLVCR1-AS1 | -3,26474 | 2,76E-06 |
| S100A4 | -3,26826 | 7,88E-16 |
| CDKN2C | -3,26943 | 7,18E-41 |
| ANKRD36C | -3,27534 | 8,03E-06 |
| LNP1 | -3,2792 | 1,51E-06 |
| CMTM3 | -3,28037 | 6,92E-17 |
| DLEU2 | -3,30933 | 2,93E-10 |
| DEF6 | -3,32196 | 3,60E-37 |
| JAK3 | -3,32226 | 2,08E-21 |
| CCDC28B | -3,32284 | 4,53E-12 |
| CDCA7 | -3,32615 | 1,29E-15 |
| ARHGAP26 | -3,32915 | 4,23E-11 |
| TMSB4X | -3,33258 | 1,04E-52 |
| DHX58 | -3,33331 | 9,45E-06 |
| ERG | -3,34056 | 2,41E-22 |
| SLC25A42 | -3,35195 | 7,50E-20 |
| LOC283788 | -3,3541 | 2,17E-21 |
| ASB9 | -3,35693 | 0,000599 |
| PLEKHG1 | -3,35804 | 1,52E-28 |

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| ITGA5 | -3,36046 | 5,32E-17 |
| PIK3CD-AS1 | -3,36371 | 0,000329 |
| LINC00885 | -3,36659 | 1,14E-05 |
| AKNA | -3,37456 | 8,36E-11 |
| RASA3 | -3,3803 | 1,61E-31 |
| HYI | -3,38106 | 1,17E-14 |
| E2F2 | -3,38626 | 5,25E-16 |
| SYNE1 | -3,38898 | 3,52E-07 |
| SPRED1 | -3,391 | 6,13E-10 |
| CENPV | -3,3995 | 1,82E-14 |
| SSBP2 | -3,40483 | 5,53E-13 |
| ASMTL-AS1 | -3,40977 | 0,000792 |
| CD109 | -3,40992 | 7,78E-13 |
| ABTB1 | -3,41246 | 0,000138 |
| SH2B3 | -3,4364 | 5,37E-29 |
| PPP1R1C | -3,4473 | 2,75E-07 |
| RASL10B | -3,4527 | 2,70E-18 |
| STXBP1 | -3,45593 | 1,30E-39 |
| SLC39A8 | -3,45787 | 2,34E-25 |
| VAMP1 | -3,46732 | 2,92E-05 |
| SIPA1 | -3,47322 | 1,36E-23 |
| GALNT2 | -3,47397 | 5,10E-55 |
| FNIP2 | -3,47572 | 6,83E-11 |
| SHANK1 | -3,47861 | 1,93E-13 |
| LINC01237 | -3,48208 | 6,46E-06 |
| SEMA4D | -3,4905 | 1,30E-28 |
| HMHA1 | -3,4999 | 2,06E-45 |
| FILIP1L | -3,50182 | 3,71E-13 |
| ARL17A | -3,50532 | 0,000318 |
| ATP2A1 | -3,51295 | 0,000129 |
| GLIPR1 | -3,52251 | 8,59E-08 |
| NCR3LG1 | -3,52291 | 2,19E-13 |
| TPM2 | -3,53367 | 0,000761 |
| AMPD3 | -3,53694 | 3,67E-12 |
| GLIPR2 | -3,54218 | 7,05E-20 |
| UBE2L6 | -3,54825 | 4,27E-13 |
| LBR | -3,55918 | 4,32E-52 |
| CSF1 | -3,56247 | 3,88E-12 |
| NUCB2 | -3,5701 | 4,23E-16 |
| RTTN | -3,59243 | 1,25E-24 |
| C2orf48 | -3,61216 | 0,000143 |
| VAMP5 | -3,61898 | 2,37E-07 |
| APOL1 | -3,62088 | 0,000489 |
| FLT1 | -3,63444 | 0,00013 |
| PDCD4-AS1 | -3,63876 | 0,000844 |
| EDEM1 | -3,64173 | 1,16E-35 |
| PSMB8-AS1 | -3,64684 | 2,41E-05 |
| NOS3 | -3,66094 | 4,00E-06 |
| BEX4 | -3,66864 | 1,68E-25 |
| IFITM1 | -3,69719 | 5,61E-11 |

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| DENND3 | -3,69793 | 7,22E-12 |
| CCDC136 | -3,70632 | 9,48E-16 |
| LINC01089 | -3,71035 | 1,21E-06 |
| HLA-B | -3,71525 | 1,45E-14 |
| CD99 | -3,73517 | 1,42E-48 |
| HNRNPU-A | -3,74447 | 3,80E-06 |
| FAM78A | -3,75517 | 1,55E-18 |
| MICAL1 | -3,76056 | 3,25E-22 |
| WDR90 | -3,77962 | 5,32E-11 |
| LINC00342 | -3,78075 | 6,44E-06 |
| FYN | -3,78849 | 3,31E-21 |
| BTBD11 | -3,79074 | 6,15E-30 |
| PITPNM2 | -3,80527 | 1,48E-36 |
| FLT3LG | -3,81626 | 1,02E-09 |
| CXorf57 | -3,84244 | 1,73E-11 |
| FAM46A | -3,84644 | 3,80E-22 |
| PALD1 | -3,85969 | 1,14E-20 |
| KIF7 | -3,86027 | 2,20E-05 |
| ACSS1 | -3,86345 | 2,13E-30 |
| MRC2 | -3,87086 | 2,79E-16 |
| CYFIP2 | -3,87613 | 2,82E-22 |
| PABPC4L | -3,88365 | 9,57E-16 |
| HERC3 | -3,88479 | 1,53E-22 |
| GPRASP1 | -3,89178 | 1,04E-13 |
| EEPD1 | -3,90698 | 1,01E-10 |
| JAZF1 | -3,9105 | 2,37E-06 |
| ZNF513 | -3,91214 | 8,28E-08 |
| NKD2 | -3,9152 | 9,10E-52 |
| ERAP1 | -3,92329 | 7,44E-61 |
| STRA6 | -3,93638 | 1,65E-06 |
| SH3BGRL | -3,94055 | 2,43E-42 |
| TIAM1 | -3,94555 | 7,92E-41 |
| RIMS3 | -3,96638 | 9,21E-21 |
| CEP85L | -3,99088 | 2,46E-20 |
| TENM1 | -3,99241 | 1,20E-22 |
| LOC100506 | -3,99407 | 4,91E-14 |
| CORO2A | -3,99887 | 5,45E-27 |
| C19orf66 | -4,00016 | 2,34E-11 |
| CD99P1 | -4,00326 | 1,64E-08 |
| ITGA6 | -4,00365 | 4,58E-48 |
| AKAP7 | -4,0075 | 4,92E-11 |
| RUNX1 | -4,01404 | 9,75E-88 |
| EML5 | -4,02025 | 2,92E-14 |
| SERHL2 | -4,02455 | 6,51E-11 |
| ZNF382 | -4,04748 | 3,57E-07 |
| VWCE | -4,05377 | 3,79E-12 |
| AFF3 | -4,05676 | 9,45E-31 |
| VAV1 | -4,05769 | 1,80E-35 |
| CASP4 | -4,06011 | 0,000118 |
| GLRX | -4,08297 | 5,99E-07 |

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| FUT4 | -4,0841 | 1,09E-28 |
| CUBN | -4,09529 | 0,000579 |
| HHEX | -4,09686 | 2,31E-19 |
| GPC3 | -4,10026 | 1,41E-10 |
| VIM-AS1 | -4,12408 | 6,82E-20 |
| RILPL2 | -4,14638 | 1,03E-17 |
| VPS13C | -4,14953 | 4,67E-41 |
| PLCXD1 | -4,15417 | 5,77E-33 |
| STARD9 | -4,15821 | 1,57E-06 |
| PXK | -4,17627 | 3,71E-17 |
| AKR1C3 | -4,18141 | 6,56E-05 |
| EMILIN2 | -4,18773 | 5,69E-11 |
| ELOVL4 | -4,19941 | 5,44E-20 |
| IL21R | -4,21048 | 9,38E-08 |
| SH3TC1 | -4,22543 | 1,17E-33 |
| HERC2P3 | -4,22785 | 0,000262 |
| CCDC88A | -4,23457 | 5,14E-73 |
| LYST | -4,23688 | 2,87E-18 |
| GYG2 | -4,2369 | 3,21E-25 |
| LCP1 | -4,24531 | 1,42E-19 |
| KCNAB2 | -4,2556 | 1,91E-21 |
| PHEX | -4,27477 | 2,19E-13 |
| KBTBD8 | -4,27582 | 1,98E-16 |
| RASA4CP | -4,27779 | 4,59E-12 |
| CRYBG3 | -4,28148 | 6,88E-15 |
| FADS2 | -4,29014 | 7,52E-58 |
| CD72 | -4,29501 | 6,18E-10 |
| HTATSF1P2 | -4,29965 | 5,80E-22 |
| PLEKHA2 | -4,30502 | 2,10E-41 |
| ATP8A2 | -4,31613 | 4,71E-12 |
| RASA4 | -4,32075 | 8,55E-06 |
| GSDMB | -4,32856 | 3,94E-05 |
| PIK3R5 | -4,33802 | 8,24E-15 |
| LRRC8C | -4,35736 | 5,33E-30 |
| GXYLT2 | -4,35926 | 3,91E-28 |
| PCDH9 | -4,36357 | 1,39E-22 |
| TIMP2 | -4,37699 | 3,43E-61 |
| ATP8B3 | -4,37956 | 3,89E-06 |
| RASSF4 | -4,38643 | 5,74E-10 |
| SP100 | -4,3994 | 2,26E-08 |
| CAMK1D | -4,42315 | 2,64E-61 |
| KLF12 | -4,43654 | 1,20E-58 |
| TFDP2 | -4,44433 | 2,09E-104 |
| CDKN2D | -4,46812 | 7,74E-26 |
| BTN3A1 | -4,46945 | 1,28E-12 |
| INPP1 | -4,47337 | 1,73E-06 |
| CYP4V2 | -4,48817 | 1,12E-15 |
| ABHD8 | -4,49825 | 6,39E-10 |
| KIAA0226L | -4,52931 | 2,80E-09 |
| LEF1-AS1 | -4,53124 | 1,76E-13 |

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| B4GALT6 | -4,534 | 8,27E-63 |
| HDAC4 | -4,54226 | 1,35E-16 |
| TMBIM1 | -4,58144 | 1,58E-08 |
| BIRC3 | -4,5897 | 5,18E-10 |
| CACNA2D4 | -4,60328 | 6,40E-09 |
| CASC15 | -4,63398 | 3,80E-24 |
| ADRBK2 | -4,65225 | 4,16E-106 |
| FMNL1 | -4,65841 | 2,02E-65 |
| C6orf223 | -4,66099 | 3,63E-11 |
| BTN3A2 | -4,66907 | 4,76E-15 |
| ZNF264 | -4,67047 | 1,57E-38 |
| FAM63B | -4,67775 | 6,52E-39 |
| TSPAN2 | -4,72599 | 1,53E-07 |
| APBB1 | -4,7297 | 8,97E-27 |
| TNF | -4,75046 | 2,06E-05 |
| CTHRC1 | -4,75951 | 1,06E-20 |
| XAF1 | -4,76061 | 1,29E-07 |
| FBN1 | -4,76326 | 2,07E-26 |
| DOCK10 | -4,76673 | 1,13E-30 |
| BTN3A3 | -4,77232 | 9,79E-15 |
| STAMBPL1 | -4,80479 | 6,21E-21 |
| FHL1 | -4,82525 | 1,91E-34 |
| KHDRBS3 | -4,84202 | 8,98E-07 |
| DDX11L2 | -4,8448 | 4,25E-10 |
| ALDH2 | -4,84915 | 5,88E-14 |
| PPM1K | -4,86257 | 7,61E-25 |
| ANKRD44 | -4,86409 | 2,86E-21 |
| TBXAS1 | -4,87119 | 1,29E-11 |
| MGC70870 | -4,87929 | 1,98E-12 |
| DOCK8 | -4,88175 | 2,48E-83 |
| ATP8A1 | -4,89456 | 1,27E-29 |
| GAS6-AS1 | -4,90875 | 8,32E-07 |
| SCN2A | -4,90918 | 9,53E-05 |
| ANTXR2 | -4,93898 | 1,30E-08 |
| GRIK5 | -4,98473 | 1,88E-08 |
| CIB2 | -4,99883 | 1,18E-19 |
| PIK3CD | -5,0101 | 1,98E-25 |
| CCDC69 | -5,01543 | 8,04E-32 |
| KCNAB3 | -5,01632 | 1,05E-05 |
| SEPT1 | -5,0164 | 2,39E-53 |
| BIN1 | -5,01738 | 3,96E-24 |
| HERC5 | -5,01863 | 6,98E-11 |
| RASSF5 | -5,02555 | 1,16E-31 |
| POU2AF1 | -5,04201 | 1,27E-05 |
| PCDHGB4 | -5,04603 | 3,66E-10 |
| ARHGAP23 | -5,05053 | 1,80E-28 |
| C14orf159 | -5,05211 | 2,84E-46 |
| CXCR4 | -5,06749 | 3,98E-103 |
| ARHGAP4 | -5,07293 | 4,35E-68 |
| GBP5 | -5,09952 | 7,01E-05 |

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| BZRAP1 | -5,10605 | 0,000307 |
| MX2 | -5,10884 | 1,45E-36 |
| CMPK2 | -5,11585 | 1,96E-21 |
| PDE1B | -5,1259 | 1,22E-05 |
| TRIM22 | -5,13336 | 1,32E-10 |
| GBP1 | -5,14345 | 7,08E-08 |
| C17orf51 | -5,15049 | 3,84E-32 |
| SARDH | -5,16652 | 3,37E-21 |
| ST6GAL1 | -5,1697 | 1,64E-32 |
| CAMKV | -5,17176 | 5,74E-06 |
| MAL | -5,18713 | 2,42E-08 |
| SLFN11 | -5,1924 | 1,12E-61 |
| CPVL | -5,19289 | 1,77E-17 |
| UBASH3B | -5,21732 | 1,14E-46 |
| ZNF423 | -5,24534 | 1,14E-60 |
| TNFAIP2 | -5,2697 | 5,40E-13 |
| DPY19L2P2 | -5,28439 | 3,86E-16 |
| CHN2 | -5,29299 | 2,89E-06 |
| FGF9 | -5,30828 | 3,62E-05 |
| SATB1-AS1 | -5,3139 | 0,000576 |
| LIMD2 | -5,32093 | 4,11E-52 |
| PLCL1 | -5,32534 | 3,37E-38 |
| IL9R | -5,32787 | 8,60E-17 |
| SPRY1 | -5,33491 | 1,16E-30 |
| FAM101B | -5,34065 | 1,16E-68 |
| DLEU7-AS1 | -5,39343 | 3,22E-06 |
| FAM57B | -5,40311 | 1,98E-11 |
| ST3GAL2 | -5,40332 | 7,06E-48 |
| MRVI1 | -5,40675 | 4,85E-06 |
| TAPBPL | -5,42276 | 1,77E-30 |
| EPB41L2 | -5,4597 | 1,14E-99 |
| EMBP1 | -5,46074 | 4,96E-13 |
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| HMG5 | -5,54852 | 1,15E-05 |
| CCDC88B | -5,59443 | 1,12E-50 |
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| LIX1L | -5,65442 | 2,57E-48 |
| SNPH | -5,67097 | 7,21E-05 |
| SLC16A7 | -5,67365 | 1,84E-24 |
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| LINC01550 | -5,67864 | 5,67E-22 |
| LPAR6 | -5,69178 | 5,27E-08 |
| BCL2A1 | -5,69578 | 0,000796 |
| PURG | -5,71041 | 0,000762 |
| TRANK1 | -5,71202 | 9,92E-22 |
| ACSL5 | -5,71792 | 6,31E-17 |
| NLRC5 | -5,72241 | 1,03E-26 |
| VIPR2 | -5,72621 | 4,27E-09 |

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| TSPY26P | -5,76973 | 1,18E-07 |
| RGCC | -5,77011 | 1,04E-23 |
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| RCAN1 | -5,80308 | 4,75E-88 |
| GRASP | -5,80648 | 2,74E-05 |
| RAB32 | -5,80943 | 5,39E-40 |
| LIME1 | -5,83459 | 7,78E-28 |
| RASGRP2 | -5,83751 | 1,94E-22 |
| BST1 | -5,84102 | 3,43E-05 |
| ANGPT1 | -5,84202 | 6,68E-26 |
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| ZNF415 | -5,90183 | 6,82E-10 |
| SH2D3C | -5,91933 | 6,68E-17 |
| DPP4 | -5,9195 | 5,32E-11 |
| HKDC1 | -5,92042 | 1,33E-05 |
| LPXN | -5,92654 | 2,15E-107 |
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| MLLT11 | -5,96438 | 6,62E-63 |
| TTN | -5,97401 | 0,000229 |
| CHRNA3 | -5,98608 | 9,05E-30 |
| MAPRE2 | -5,99349 | 1,26E-94 |
| KIAA2022 | -5,99523 | 3,66E-18 |
| RLTPR | -6,00993 | 7,17E-130 |
| CORO6 | -6,01283 | 3,27E-07 |
| ZNF578 | -6,03105 | 2,89E-08 |
| N4BP2L1 | -6,0436 | 1,33E-14 |
| P2RY1 | -6,04498 | 0,000137 |
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| DCHS1 | -6,13467 | 2,70E-13 |
| TM6SF1 | -6,1371 | 1,13E-09 |
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| NXF3 | -6,20838 | 6,23E-05 |
| C10orf25 | -6,22139 | 6,43E-12 |
| CLEC11A | -6,22761 | 8,09E-75 |
| ADA | -6,23355 | 6,28E-91 |
| ANKLE1 | -6,24553 | 3,35E-12 |
| PAG1 | -6,32062 | 7,88E-97 |
| ZNF491 | -6,3388 | 2,48E-05 |
| IRGM | -6,41358 | 1,64E-05 |
| SCARF1 | -6,43393 | 1,18E-13 |
| GJC2 | -6,43618 | 1,27E-05 |
| WAS | -6,44393 | 1,41E-51 |
| SYT11 | -6,45142 | 7,10E-12 |
| RGPD3 | -6,45793 | 1,19E-17 |

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| CORO1A | -6,47047 | 1,16E-81 |
| ACOT2 | -6,47556 | 1,44E-20 |
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| TRPV2 | -6,51165 | 5,72E-29 |
| PTPN22 | -6,51691 | 9,18E-29 |
| HOXB3 | -6,52179 | 7,65E-07 |
| SELL | -6,56372 | 3,94E-26 |
| ERVH48-1 | -6,56638 | 1,03E-17 |
| CDH23 | -6,57282 | 3,27E-22 |
| PDE6G | -6,58461 | 8,37E-09 |
| HEMGN | -6,59316 | 4,81E-06 |
| ZNF528 | -6,59463 | 7,55E-21 |
| NAP1L5 | -6,5964 | 8,62E-14 |
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| MYB | -6,62718 | 2,68E-147 |
| LTB | -6,62779 | 1,75E-06 |
| WIPF1 | -6,64048 | 2,06E-122 |
| SEPT6 | -6,64789 | 1,34E-66 |
| ARMCX4 | -6,64986 | 2,67E-11 |
| TMEM173 | -6,65136 | 8,57E-15 |
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| MIR142 | -6,6641 | 2,24E-05 |
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| SYN1 | -6,71463 | 1,14E-26 |
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| ST3GAL6 | -6,73737 | 0,000674 |
| TRIM9 | -6,73835 | 1,85E-27 |
| HPGD | -6,73851 | 3,25E-38 |
| TCF7 | -6,7396 | 1,30E-121 |
| FAM184A | -6,744 | 5,36E-12 |
| NAP1L3 | -6,75209 | 2,46E-06 |
| ZDHHC2 | -6,79426 | 5,37E-48 |
| HOXB4 | -6,80821 | 3,26E-13 |
| APOL3 | -6,81041 | 4,90E-11 |
| CAMK4 | -6,82727 | 3,02E-45 |
| APOL6 | -6,84055 | 2,68E-61 |
| GPSM3 | -6,84544 | 2,73E-48 |
| FSTL1 | -6,85003 | 3,67E-42 |
| SLC18A2 | -6,85877 | 2,77E-31 |
| FLJ32255 | -6,87824 | 1,37E-13 |
| LINC00461 | -6,90615 | 0,000402 |
| ZNF844 | -6,90773 | 0,000353 |
| ACOT1 | -6,91377 | 0,000369 |
| KCNH8 | -6,92267 | 0,000345 |
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| CRIP1 | -6,93031 | 4,15E-95 |
| CASP10 | -6,93339 | 7,03E-32 |

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| ELMO1 | -6,94788 | 1,16E-51 |
| CDK6 | -6,94923 | 1,03E-50 |
| CCR7 | -6,95786 | 3,80E-23 |
| IL32 | -6,96093 | 1,66E-07 |
| SLC4A4 | -6,96288 | 3,65E-14 |
| STAG3 | -6,96447 | 1,53E-14 |
| SPOCK2 | -6,98012 | 1,98E-53 |
| TNFAIP3 | -6,98677 | 2,25E-88 |
| CD79A | -7,02269 | 1,02E-22 |
| UGT3A2 | -7,04393 | 3,98E-07 |
| FAM129C | -7,049 | 1,27E-21 |
| NLRP1 | -7,0963 | 0,00023 |
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| TRIM38 | -7,10401 | 0,000633 |
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| EMP3 | -7,12503 | 1,18E-31 |
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| CD79B | -7,16712 | 6,37E-08 |
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| PTGDR2 | -7,20022 | 6,58E-08 |
| TNFRSF8 | -7,21166 | 4,20E-11 |
| AEBP1 | -7,24211 | 6,77E-112 |
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| ARHGEF6 | -7,33312 | 6,64E-124 |
| DPEP1 | -7,3369 | 6,83E-08 |
| RUNX3 | -7,34963 | 6,82E-15 |
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| DBH-AS1 | -7,39007 | 3,67E-15 |
| JAKMIP2 | -7,40171 | 1,98E-08 |
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| FERMT3 | -7,42477 | 7,63E-87 |
| LINC01260 | -7,42839 | 9,14E-09 |
| GFI1 | -7,44434 | 1,57E-40 |
| PNMA2 | -7,465 | 4,08E-62 |
| BIN2 | -7,47256 | 1,39E-57 |
| NEK9 | -7,47431 | 1,10E-05 |
| CDH2 | -7,50339 | 3,25E-60 |
| GZMM | -7,50561 | 4,66E-09 |
| HCST | -7,5097 | 9,71E-20 |
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| TP73-AS1 | -7,52842 | 0,000534 |
| CSTF3-AS1 | -7,52988 | 0,000953 |
| PLAG1 | -7,54023 | 2,49E-12 |
| KCNC2 | -7,54049 | 0,000945 |
| RGL4 | -7,55927 | 3,52E-09 |
| IL12RB2 | -7,56389 | 0,000866 |
| PCDH10 | -7,56626 | 1,20E-44 |

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| HEPACAM | -7,57912 | 0,001007 |
| C10orf54 | -7,58581 | 1,59E-27 |
| GCNT4 | -7,58775 | 0,000889 |
| CCDC26 | -7,59412 | 2,34E-05 |
| MICU3 | -7,59699 | 0,000945 |
| ETV5 | -7,59886 | 6,26E-94 |
| ARHGAP19 | -7,60548 | 0,001015 |
| SLC1A7 | -7,62575 | 0,000647 |
| MLC1 | -7,63698 | 1,79E-05 |
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| CRYGN | -7,65759 | 0,000574 |
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| ZNF683 | -7,66431 | 0,000586 |
| HIST1H3C | -7,67918 | 0,000528 |
| CCR8 | -7,69898 | 0,000478 |
| NBAT1 | -7,70044 | 0,000486 |
| LOC101925 | -7,7149 | 0,000486 |
| ZNF426 | -7,71524 | 1,55E-20 |
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| C16orf86 | -7,7494 | 0,000741 |
| C3AR1 | -7,75054 | 0,000417 |
| HVCN1 | -7,76313 | 5,28E-10 |
| DYNAP | -7,77423 | 0,000355 |
| LOC728024 | -7,78043 | 0,000346 |
| ZBTB18 | -7,7809 | 5,79E-57 |
| ZNF826P | -7,78385 | 0,000367 |
| LOC100505 | -7,80175 | 8,31E-18 |
| ZNF788 | -7,81322 | 2,31E-14 |
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| REC8 | -7,84563 | 2,02E-52 |
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| FBLN7 | -7,86534 | 0,000238 |
| TUSC5 | -7,86988 | 0,000222 |
| DFNA5 | -7,87053 | 0,000227 |
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| RGPD4 | -7,89523 | 5,64E-06 |
| C11orf96 | -7,9013 | 0,000233 |
| ZNF655 | -7,90359 | 0,000758 |
| LOC101925 | -7,92138 | 0,000176 |
| TMEM26 | -7,9276 | 0,000182 |
| LOC101925 | -7,93133 | 0,000176 |
| ZNF677 | -7,94118 | 0,000192 |
| PTPRCAP | -7,95739 | 1,42E-109 |
| GOLGA8N | -7,99499 | 6,83E-15 |
| TNFSF10 | -8,00036 | 3,76E-06 |
| PON1 | -8,00043 | 0,000153 |
| CHRNA9 | -8,00334 | 0,000136 |
| NPR2 | -8,02269 | 2,52E-05 |
| LOC439933 | -8,02847 | 0,000109 |
| PELI2 | -8,03405 | 8,69E-08 |

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| LAT | -8,04437 | 6,06E-08 |
| TTC16 | -8,04977 | 4,21E-06 |
| RASGRP1 | -8,06125 | 3,93E-148 |
| LGALS9 | -8,06746 | 2,03E-49 |
| ANTXRPL1 | -8,07013 | 0,00011 |
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| F13A1 | -8,07976 | 9,60E-05 |
| ILDR2 | -8,08028 | 3,70E-33 |
| GP5 | -8,09863 | 2,36E-06 |
| ARHGAP9 | -8,10131 | 2,72E-27 |
| RFX8 | -8,12367 | 0,000102 |
| LOC100505 | -8,13741 | 8,31E-05 |
| FAM27E3 | -8,13868 | 0,000114 |
| GBGT1 | -8,14599 | 0,000177 |
| FAM163B | -8,16661 | 5,53E-05 |
| LDLRAD4 | -8,16767 | 3,19E-75 |
| CARD16 | -8,17346 | 5,88E-05 |
| LINC01221 | -8,18077 | 5,26E-05 |
| GJC1 | -8,18324 | 4,83E-21 |
| SLAMF6 | -8,20932 | 1,02E-11 |
| LINC00884 | -8,20973 | 5,30E-05 |
| MPP1 | -8,22573 | 1,08E-83 |
| CFTR | -8,22597 | 4,07E-05 |
| LINC00920 | -8,24256 | 3,92E-05 |
| GBP3 | -8,24627 | 2,25E-06 |
| ACAP1 | -8,2535 | 2,05E-82 |
| CFP | -8,27017 | 1,01E-06 |
| RTP5 | -8,27076 | 3,61E-05 |
| TAGAP | -8,27142 | 5,07E-05 |
| NPTX2 | -8,27176 | 3,25E-05 |
| ARHGDIB | -8,27433 | 3,52E-07 |
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| PCSK5 | -8,28099 | 1,26E-21 |
| ZNF439 | -8,29237 | 2,38E-11 |
| TNNT3 | -8,29989 | 2,83E-05 |
| C20orf203 | -8,33031 | 2,43E-05 |
| RAB38 | -8,33179 | 3,11E-05 |
| MEI1 | -8,34205 | 2,58E-05 |
| ERAP2 | -8,34441 | 3,16E-96 |
| ACSL6 | -8,3471 | 5,32E-05 |
| ZNF626 | -8,34807 | 2,38E-05 |
| ST6GALNA4 | -8,35317 | 2,43E-05 |
| LINC01225 | -8,35938 | 3,99E-05 |
| SNORD116 | -8,37655 | 2,41E-05 |
| PLCL2 | -8,38084 | 1,33E-27 |
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| ARHGAP31 | -8,3943 | 8,35E-07 |
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| DENND1C | -8,40256 | 3,85E-50 |
| SLIT1 | -8,41561 | 1,55E-10 |
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| CD7 | -8,41872 | 1,27E-56 |
| LINC01096 | -8,4548 | 2,08E-05 |
| SOGA3 | -8,46285 | 3,05E-26 |
| TIE1 | -8,47096 | 1,34E-05 |
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| RASGRP4 | -8,48453 | 1,08E-05 |
| POU3F2 | -8,487 | 1,95E-23 |
| MAB21L1 | -8,49925 | 1,01E-05 |
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| CACNA1C-/- | -8,52813 | 1,27E-05 |
| APOBEC3C | -8,53932 | 4,50E-38 |
| TSIX | -8,54946 | 9,39E-05 |
| HMHB1 | -8,55184 | 7,84E-06 |
| VILL | -8,55828 | 1,04E-18 |
| CD52 | -8,56393 | 3,09E-13 |
| SCN9A | -8,57572 | 3,92E-13 |
| PWARSN | -8,58138 | 6,48E-06 |
| ZEB1 | -8,58575 | 5,30E-82 |
| DGKG | -8,58763 | 2,75E-13 |
| SRGN | -8,61781 | 1,88E-07 |
| GLB1L3 | -8,62726 | 5,90E-06 |
| STAT5A | -8,6404 | 1,88E-08 |
| RGS18 | -8,65309 | 4,57E-06 |
| CD244 | -8,66292 | 5,74E-06 |
| RORB | -8,66667 | 1,32E-13 |
| ABCA13 | -8,66955 | 4,05E-06 |
| RTP4 | -8,67553 | 4,91E-06 |
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| PRF1 | -8,68949 | 3,72E-06 |
| TNFRSF14 | -8,6933 | 1,99E-13 |
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| LSAMP | -8,69753 | 3,46E-06 |
| CELF2-AS1 | -8,70697 | 3,68E-06 |
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| MYO18B | -8,7218 | 3,76E-06 |
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| POU4F1 | -8,74453 | 2,78E-06 |
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| LCT | -8,74632 | 7,85E-14 |
| IQGAP2 | -8,75158 | 4,19E-65 |

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| SCG2 | -8,75543 | 2,53E-06 |
| MDFIC | -8,75573 | 6,70E-20 |
| BATF3 | -8,78296 | 8,40E-08 |
| MAP4K1 | -8,80934 | 4,06E-69 |
| BEND4 | -8,82189 | 3,15E-14 |
| FAM27B | -8,85132 | 1,50E-06 |
| GIMAP1 | -8,85438 | 2,75E-06 |
| ABI3 | -8,85869 | 2,79E-14 |
| TMC8 | -8,90569 | 5,17E-88 |
| REG4 | -8,92947 | 1,07E-06 |
| C2CD2 | -8,93404 | 1,33E-06 |
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| DAPK1 | -8,97324 | 5,73E-64 |
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| CCL28 | -8,98728 | 8,04E-07 |
| SLC40A1 | -8,99903 | 4,00E-05 |
| TSKS | -9,01301 | 6,71E-07 |
| WT1-AS | -9,03021 | 5,65E-07 |
| PSMA8 | -9,04347 | 5,29E-07 |
| FGF14-AS2 | -9,04892 | 4,91E-07 |
| GCSAM | -9,05177 | 5,02E-07 |
| GOLGA8O | -9,11564 | 7,53E-07 |
| ZNF577 | -9,11615 | 1,31E-06 |
| LY75 | -9,1219 | 7,36E-07 |
| KRT1 | -9,12414 | 3,89E-07 |
| CXCR3 | -9,14626 | 3,85E-07 |
| FGD5 | -9,14948 | 3,99E-07 |
| LINC00654 | -9,16369 | 2,99E-07 |
| NEXN | -9,16889 | 1,33E-22 |
| RUNX1T1 | -9,17002 | 2,70E-07 |
| SLC38A5 | -9,17633 | 4,43E-55 |
| ZNF831 | -9,18129 | 2,31E-07 |
| CCRL2 | -9,19274 | 2,43E-07 |
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| MZB1 | -9,19831 | 4,26E-116 |
| SLFN12 | -9,20091 | 2,74E-07 |
| ZP1 | -9,20765 | 2,10E-07 |
| LINC01163 | -9,2138 | 6,19E-07 |
| NDST3 | -9,23239 | 1,05E-08 |
| RAB33A | -9,25334 | 2,08E-07 |
| PECAM1 | -9,28149 | 8,03E-23 |
| ZNF528-AS | -9,28581 | 1,78E-07 |
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| ADAMTS10 | -9,29014 | 3,13E-07 |
| PWAR5 | -9,29225 | 2,17E-07 |
| C1RL-AS1 | -9,29275 | 3,40E-07 |
| CACNA1C-1 | -9,29455 | 2,72E-07 |
| ATCAY | -9,29974 | 2,82E-07 |

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| TRG-AS1 | -9,31304 | 1,15E-07 |
| ZNF521 | -9,31956 | 2,66E-30 |
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| CCDC141 | -9,33504 | 1,09E-07 |
| PIK3R6 | -9,34156 | 9,84E-08 |
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| C1orf186 | -9,36793 | 7,93E-08 |
| ITGB2 | -9,37181 | 9,59E-96 |
| CST7 | -9,37182 | 7,69E-08 |
| GNGT2 | -9,3741 | 7,51E-08 |
| AFF2 | -9,37614 | 5,91E-06 |
| PCAT18 | -9,38229 | 7,21E-08 |
| TMEM25 | -9,39153 | 8,05E-08 |
| XPNPEP2 | -9,40055 | 6,51E-08 |
| AKR1B1 | -9,40177 | 4,40E-43 |
| IL12RB1 | -9,41171 | 6,09E-08 |
| ICAM4 | -9,44134 | 1,33E-07 |
| MAP3K7CL | -9,45182 | 5,09E-08 |
| CLEC2B | -9,45507 | 4,71E-08 |
| SPARC | -9,47116 | 4,28E-08 |
| MYO7B | -9,5026 | 3,55E-08 |
| ZDHHC15 | -9,54599 | 2,90E-08 |
| TMEM71 | -9,56369 | 2,53E-08 |
| STAP1 | -9,56711 | 2,69E-08 |
| BLK | -9,57306 | 2,35E-08 |
| ITGB2-AS1 | -9,57619 | 2,77E-07 |
| CECR1 | -9,58493 | 1,97E-32 |
| TLX2 | -9,59496 | 2,06E-08 |
| THSD7B | -9,60378 | 2,34E-08 |
| TMEM204 | -9,60591 | 2,22E-08 |
| JAG1 | -9,61339 | 1,91E-08 |
| SELPLG | -9,63877 | 2,44E-32 |
| NEGR1 | -9,64535 | 1,65E-08 |
| ZNF583 | -9,6563 | 1,50E-08 |
| C14orf39 | -9,67396 | 5,22E-08 |
| PTGDR | -9,68597 | 1,40E-08 |
| LOC100996 | -9,6881 | 9,43E-10 |
| LRRC34 | -9,69416 | 2,44E-08 |
| TNFSF14 | -9,70117 | 1,14E-08 |
| LY6H | -9,71909 | 1,09E-08 |
| NPM2 | -9,72733 | 1,03E-08 |
| LINC01226 | -9,74208 | 5,54E-08 |
| LOC101927 | -9,76765 | 7,52E-09 |
| C11orf21 | -9,77981 | 1,03E-08 |
| HSF5 | -9,81202 | 7,47E-09 |
| DTX1 | -9,8258 | 7,56E-09 |
| MYOM2 | -9,83119 | 5,02E-09 |
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| PLCB2 | -9,85368 | 2,02E-26 |
| SMPD3 | -9,86019 | 3,46E-127 |
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| LOC63930 | -9,89791 | 3,76E-09 |
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| LRMP | -9,95452 | 3,81E-35 |
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| LIPC | -9,9955 | 1,92E-09 |
| ZC4H2 | -10,0086 | 2,21E-19 |
| MYT1L | -10,0144 | 3,45E-09 |
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| LINC01366 | -10,0257 | 1,56E-09 |
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| GRAMD1B | -10,0519 | 1,38E-09 |
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| ARHGAP30 | -10,0799 | 6,50E-79 |
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| LDHB | -10,1753 | 0,000514 |
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| RAB44 | -10,2035 | 6,83E-10 |
| PCED1B-AS1 | -10,2038 | 6,13E-10 |
| IGF2BP3 | -10,2079 | 5,49E-10 |
| C20orf197 | -10,2089 | 6,07E-10 |
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| ZNF501 | -10,2623 | 3,94E-10 |
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| ZNF470 | -10,2781 | 3,82E-10 |
| FRG1CP | -10,295 | 3,11E-10 |
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| PARP15 | -10,3915 | 6,60E-10 |
| GPA33 | -10,4004 | 1,66E-10 |
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| PAX6 | -10,4398 | 1,30E-10 |
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| ARHGAP25 | -10,4639 | 1,16E-10 |
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| ZKSCAN7 | -10,6674 | 9,03E-11 |
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| TNFRSF1B | -10,7112 | 2,52E-11 |
| LIMS2 | -10,713 | 1,47E-40 |
| PDCD1 | -10,7208 | 2,39E-11 |
| SPAG16 | -10,7255 | 2,56E-11 |
| LYL1 | -10,7516 | 3,09E-11 |
| CREB3L3 | -10,7572 | 2,36E-11 |
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| CD37 | -10,809 | 1,11E-22 |
| KCNK17 | -10,8121 | 1,51E-11 |
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| CD69 | -10,8859 | 5,67E-11 |
| PSMB8 | -10,8956 | 4,75E-43 |
| APOBEC3D | -10,9023 | 7,84E-12 |
| NLGN4X | -10,9045 | 8,14E-12 |
| ZFP82 | -10,9095 | 7,54E-12 |
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| CTSW | -10,9173 | 1,59E-12 |
| ZNF542P | -10,9211 | 7,76E-12 |
| CNKS2 | -10,9231 | 6,92E-12 |
| PDE6B | -10,9234 | 6,97E-12 |
| P2RX1 | -10,9271 | 1,37E-11 |
| EVI2A | -10,95 | 5,88E-12 |
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| TTC24 | -10,9616 | 1,56E-11 |
| ZNF671 | -10,9734 | 6,77E-12 |
| ZNF559 | -10,9877 | 5,15E-12 |
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| PINLYP | -11,0452 | 3,40E-12 |
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| DOK2 | -11,2582 | 1,34E-12 |
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| HS3ST4 | -11,2724 | 8,74E-13 |
| APOBEC3G | -11,2792 | 8,08E-13 |
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| VPREB1 | -11,3379 | 7,56E-13 |
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| BCHE | -11,3543 | 6,35E-13 |
| IPW | -11,3569 | 2,90E-12 |
| WBP5 | -11,39 | 4,39E-13 |
| TREML2 | -11,4108 | 3,57E-13 |
| STXBP5L | -11,4216 | 3,33E-13 |
| GSPT2 | -11,4273 | 3,65E-13 |
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| MDFI | -11,4768 | 2,62E-13 |
| TCF4 | -11,4786 | 2,86E-13 |
| C8orf88 | -11,49 | 2,19E-13 |
| DLEU7 | -11,4907 | 2,52E-13 |
| RAB37 | -11,4977 | 2,11E-13 |
| FAM65B | -11,5049 | 4,70E-14 |
| CD300A | -11,5159 | 2,10E-13 |
| CTSG | -11,5197 | 1,88E-13 |
| ANGPTL2 | -11,5346 | 2,12E-13 |
| CMAHP | -11,5415 | 5,74E-12 |
| GDF10 | -11,5904 | 1,34E-13 |
| PVRIG | -11,5943 | 6,77E-26 |
| MKRN3 | -11,5949 | 4,68E-13 |
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| ZNF175 | -11,6774 | 6,96E-14 |
| WT1 | -11,713 | 6,27E-14 |
| TNFSF8 | -11,7537 | 4,40E-14 |
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| ZNF506 | -11,7974 | 3,36E-14 |
| LIN28B | -11,8008 | 3,31E-14 |
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| SMIM24 | -11,8531 | 8,76E-15 |
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| AASS | -11,9717 | 1,68E-14 |
| LINC00667 | -11,9776 | 2,04E-14 |
| SP140 | -11,9836 | 1,06E-14 |
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| JAM3 | -12,1335 | 4,20E-15 |
| PTPRD | -12,1625 | 3,76E-15 |
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| ZSCAN18 | -12,1901 | 3,92E-15 |
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| TDRD9 | -12,1943 | 1,28E-15 |
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| GNE | -12,2451 | 2,09E-15 |
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| FLI1 | -12,2668 | 5,73E-16 |
| NDN | -12,2734 | 1,90E-15 |
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| HCLS1 | -12,371 | 2,97E-30 |
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| EMC10 | -12,5286 | 3,94E-16 |
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| KLHL6 | -12,6135 | 2,22E-16 |
| GAS7 | -12,6135 | 2,59E-31 |
| PKIA | -12,6453 | 1,88E-16 |
| TAL1 | -12,6518 | 1,80E-16 |
| DOCK2 | -12,6725 | 1,36E-46 |
| TCEAL8 | -12,7377 | 9,63E-17 |
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| PIK3CG | -12,8329 | 6,25E-17 |
| ITGAL | -12,8402 | 1,74E-17 |
| HHIP-AS1 | -12,8538 | 1,12E-16 |
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| KIRREL | -12,9241 | 2,98E-17 |
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| CD6 | -12,9732 | 3,26E-17 |
| DPYD | -12,9928 | 2,24E-17 |
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| SAMSN1 | -13,0087 | 2,03E-17 |
| EVI2B | -13,195 | 5,15E-18 |
| NETO1 | -13,2017 | 4,87E-18 |
| IL7R | -13,2148 | 4,48E-18 |
| CD53 | -13,2658 | 3,38E-18 |
| TRAF3IP3 | -13,2776 | 3,33E-18 |
| CD247 | -13,3197 | 2,46E-18 |
| SCN3A | -13,3271 | 2,53E-18 |
| CARD11 | -13,3339 | 2,54E-18 |
| ADAM33 | -13,4053 | 9,50E-18 |
| RAG1 | -13,4054 | 1,21E-83 |
| GMFG | -13,4154 | 1,51E-18 |
| PARVG | -13,4372 | 1,05E-18 |
| S1PR1 | -13,4603 | 9,29E-19 |
| SLA | -13,4769 | 8,44E-19 |
| TRAT1 | -13,5033 | 6,87E-19 |
| RASAL3 | -13,5222 | 6,71E-19 |
| ZCCHC11 | -13,5406 | 7,54E-19 |
| FBLN2 | -13,5596 | 4,93E-19 |
| SPNS3 | -13,5977 | 5,37E-19 |
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| GTSF1 | -13,8913 | 5,70E-20 |
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| THEMIS | -14,0415 | 2,83E-20 |
| TESPA1 | -14,0737 | 1,79E-20 |
| SIT1 | -14,0835 | 1,79E-20 |
| CD28 | -14,1145 | 1,24E-20 |
| ITK | -14,1158 | 1,24E-20 |
| RAG2 | -14,1219 | 1,17E-20 |
| LAIR1 | -14,1597 | 9,21E-21 |
| LCP2 | -14,1665 | 8,57E-21 |
| GYPC | -14,1724 | 1,57E-20 |
| CD3G | -14,216 | 6,55E-21 |
| IFI16 | -14,2246 | 1,63E-40 |
| PRKCQ | -14,2683 | 5,94E-21 |
| FYB | -14,2735 | 1,74E-21 |
| RCSD1 | -14,296 | 4,53E-21 |
| CDH4 | -14,3475 | 7,97E-21 |
| PTPRM | -14,3747 | 5,80E-21 |
| CD1C | -14,5072 | 8,27E-22 |
| HHIP | -14,5155 | 1,11E-21 |
| NCKAP1L | -14,5741 | 7,98E-22 |
| P2RY8 | -14,575 | 9,73E-22 |
| KIR3DL2 | -14,7 | 4,90E-22 |
| CD1A | -14,7151 | 2,22E-22 |
| PRKCB | -14,7507 | 2,42E-22 |
| APBB1IP | -14,7597 | 1,76E-22 |
| ARPP21 | -14,8344 | 9,73E-23 |
| DNTT | -14,8607 | 7,43E-23 |
| CHST2 | -14,873 | 8,14E-23 |
| NKX2-5 | -14,9716 | 4,04E-23 |
| MYO1G | -14,9859 | 3,16E-23 |
| TOX | -15,0301 | 2,15E-23 |
| CELF2 | -15,0873 | 1,76E-23 |
| PTPN7 | -15,1137 | 1,22E-23 |
| GRAP2 | -15,1997 | 6,89E-24 |
| CD4 | -15,2189 | 9,17E-24 |
| CD1E | -15,2277 | 1,16E-23 |
| SASH3 | -15,3399 | 3,27E-24 |
| IL2RG | -15,3525 | 3,18E-24 |
| PTPRC | -15,4525 | 1,20E-24 |
| RAC2 | -15,4682 | 1,47E-24 |
| ZAP70 | -15,6555 | 2,81E-25 |
| XIST | -15,7087 | 1,45E-08 |
| CD3D | -15,7419 | 1,73E-25 |
| SH2D1A | -15,8149 | 7,53E-26 |
| LCK | -15,8473 | 9,28E-26 |
| SPN | -16,207 | 6,12E-27 |
| TSPAN7 | -16,2123 | 4,83E-27 |
| CD3E | -16,5052 | 6,57E-28 |

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| ETS1 | -16,5332 | 3,88E-28 |
| IKZF1 | -16,6221 | 2,45E-28 |
| ITGA4 | -17,1723 | 2,36E-30 |
| ITM2A | -17,2557 | 2,21E-30 |
| ALDH1A2 | -17,6951 | 4,41E-32 |

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| Gene | log2FoldCh | FDR |
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| LDOC1 | 15,02067 | 1,05E-22 |
| TSPYL5 | 14,89026 | 1,22E-22 |
| C3orf14 | 14,49209 | 3,13E-21 |
| SPDEF | 14,3064 | 3,22E-11 |
| EFEMP1 | 14,19703 | 1,67E-20 |
| MATK | 14,01553 | 5,58E-20 |
| GFRA1 | 13,80921 | 6,07E-19 |
| BGN | 13,63471 | 2,29E-06 |
| S1PR3 | 13,61444 | 2,39E-11 |
| DSCAM-AS1 | 13,59866 | 4,78E-11 |
| ACKR3 | 13,4312 | 2,28E-18 |
| RTN4RL1 | 13,38226 | 3,29E-18 |
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| VAV3 | 13,15812 | 1,46E-17 |
| PRLR | 13,07816 | 2,79E-17 |
| AMOTL1 | 13,03444 | 3,17E-17 |
| HTRA1 | 12,94143 | 5,77E-17 |
| ABCA12 | 12,92665 | 2,15E-16 |
| COLEC12 | 12,79441 | 1,02E-15 |
| CHST11 | 12,78896 | 2,68E-16 |
| EMB | 12,77568 | 1,49E-16 |
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| GSTM3 | 12,52983 | 1,84E-16 |
| PRICKLE2 | 12,4937 | 1,17E-27 |
| DTNA | 12,47557 | 1,94E-15 |
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| GALNT16 | 12,39955 | 8,70E-06 |
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| C14orf132 | 12,31425 | 2,75E-15 |
| ZNF304 | 12,26446 | 3,92E-15 |
| MSI1 | 12,24651 | 1,17E-16 |
| ZNF85 | 12,22294 | 4,72E-15 |
| EVL | 12,20139 | 1,27E-16 |
| NPY1R | 12,16606 | 9,98E-15 |
| ZIC1 | 12,15098 | 1,87E-14 |
| CRISPLD1 | 12,13311 | 4,50E-14 |
| BCAS1 | 12,10375 | 6,76E-05 |
| ACSS3 | 12,07637 | 1,85E-28 |
| STC1 | 12,0239 | 1,73E-27 |
| GALNT14 | 12,00203 | 1,85E-14 |
| ZNF569 | 11,99968 | 3,70E-14 |

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| TBX2 | 11,96873 | 2,33E-14 |
| C5orf38 | 11,83362 | 9,20E-14 |
| PCP4 | 11,82643 | 6,46E-14 |
| FAM127C | 11,82218 | 1,28E-15 |
| SDC2 | 11,81758 | 5,97E-14 |
| MAP9 | 11,78223 | 1,14E-13 |
| ASCL4 | 11,7789 | 8,52E-14 |
| ZFP30 | 11,73708 | 9,97E-14 |
| EFS | 11,65203 | 1,88E-13 |
| TCEA3 | 11,64927 | 3,56E-15 |
| TMPRSS13 | 11,63844 | 2,79E-13 |
| TDRD1 | 11,63412 | 1,82E-13 |
| ST8SIA4 | 11,62612 | 2,23E-12 |
| ZNF331 | 11,49764 | 2,15E-12 |
| KCNK15 | 11,49622 | 5,03E-13 |
| LIFR | 11,46712 | 1,16E-12 |
| RIMS4 | 11,46459 | 2,36E-12 |
| PGR | 11,45126 | 2,08E-11 |
| MIPOL1 | 11,44575 | 5,75E-13 |
| MB | 11,42139 | 6,55E-13 |
| GLI3 | 11,40553 | 1,04E-12 |
| ZNF793 | 11,39418 | 8,37E-13 |
| FAM3B | 11,39088 | 8,19E-13 |
| ZNF548 | 11,38803 | 9,76E-13 |
| RGMA | 11,37579 | 1,37E-12 |
| LRP2 | 11,3638 | 8,30E-07 |
| MPDZ | 11,35017 | 1,54E-12 |
| FGF12 | 11,34341 | 1,82E-12 |
| MOCS1 | 11,28034 | 4,40E-12 |
| ZNF606 | 11,26892 | 3,14E-12 |
| CHST10 | 11,25254 | 6,08E-12 |
| RET | 11,2525 | 1,35E-11 |
| ZNF14 | 11,23012 | 2,86E-12 |
| SPESP1 | 11,1971 | 4,09E-12 |
| SLC7A2 | 11,1936 | 8,05E-24 |
| OSMR | 11,16314 | 7,91E-12 |
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| ESR1 | 11,15562 | 1,76E-34 |
| PCDH18 | 11,12746 | 1,73E-12 |
| ZNF433 | 11,12437 | 4,19E-12 |
| ZNF93 | 11,08539 | 1,19E-13 |
| EFNB3 | 10,97484 | 1,03E-11 |
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| SLC8A1 | 10,91227 | 1,43E-11 |
| CASC9 | 10,85088 | 2,08E-11 |
| SHISA9 | 10,83701 | 3,32E-11 |
| EHD3 | 10,83165 | 4,16E-11 |
| MEIS3P1 | 10,81462 | 3,46E-11 |
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| ZNF829 | 10,78589 | 1,11E-12 |
| ZNF570 | 10,77631 | 3,44E-11 |
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| ZNF287 | 10,76751 | 3,43E-11 |
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| BATF | 10,48033 | 4,14E-10 |
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| MAGEH1 | 10,44813 | 3,59E-10 |
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| PCDHB6 | 10,1221 | 2,18E-09 |
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| TYRP1 | 10,06715 | 2,50E-09 |
| SLITRK4 | 10,04119 | 3,71E-09 |

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| MANSC4 | 10,01817 | 2,87E-07 |
| TEX15 | 10,01486 | 3,17E-09 |
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| IRX2 | 9,979434 | 1,01E-26 |
| LINC01116 | 9,966234 | 4,27E-09 |
| PCDHGB5 | 9,953704 | 4,54E-09 |
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| DDX43 | 9,919997 | 7,31E-09 |
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| EYA2 | 9,72015 | 6,66E-08 |
| RGS6 | 9,712256 | 3,13E-08 |
| CA8 | 9,697605 | 3,22E-08 |
| ONECUT1 | 9,696075 | 4,29E-08 |
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| IGSF5 | 9,496721 | 7,88E-08 |
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| GRIK3 | 9,455727 | 3,84E-07 |
| HOXC13-AS1 | 9,438673 | 1,24E-07 |
| PCDHB3 | 9,437384 | 9,91E-23 |
| RNF150 | 9,433937 | 1,10E-07 |
| ADAMTS7 | 9,430021 | 5,67E-09 |
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| TMEM163 | 9,415766 | 1,48E-07 |
| SH3GL3 | 9,402797 | 1,41E-07 |
| CALCR | 9,373794 | 1,93E-07 |
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| HOXC11 | 9,302718 | 4,86E-09 |
| TPTE | 9,302609 | 2,37E-07 |
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| ZNF704 | 9,247657 | 2,45E-39 |
| PRICKLE2-AS1 | 9,245919 | 3,14E-07 |
| LINC00664 | 9,228294 | 6,52E-07 |
| LINC00052 | 9,207401 | 4,05E-08 |
| HAGLR | 9,153835 | 4,86E-07 |
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| PDZRN3 | 9,052295 | 8,56E-07 |
| VAX2 | 9,051393 | 1,01E-06 |
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| KCNG1 | 9,027783 | 8,49E-32 |
| ANK1 | 9,027005 | 1,72E-05 |
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| ZNF618 | 8,991527 | 5,18E-83 |
| SLFN11 | 8,98255 | 1,51E-06 |
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| RAI2 | 8,978304 | 2,24E-06 |
| LOC728392 | 8,962452 | 3,68E-06 |
| TTC29 | 8,958226 | 1,50E-06 |
| ELF5 | 8,949841 | 1,19E-07 |
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| HRK | 8,911386 | 3,49E-05 |
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| NCAM2 | 8,718227 | 6,75E-22 |
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| BMP2 | 8,690692 | 4,33E-38 |
| NUP210L | 8,679497 | 1,37E-18 |
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| ZNF736 | 8,594924 | 3,42E-23 |
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| GRID1 | 8,58298 | 1,35E-05 |
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| CDH18 | 8,557548 | 1,46E-05 |
| HDGFRP3 | 8,548923 | 4,47E-45 |
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| RASSF8-AS1 | 8,53796 | 1,90E-05 |
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| RNF180 | 8,512753 | 2,18E-05 |
| ZNF345 | 8,509154 | 1,57E-05 |
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| XKR7 | 8,4996 | 2,89E-05 |
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| NYNRIN | 8,475578 | 2,94E-09 |
| CYP24A1 | 8,472555 | 2,86E-07 |
| ADAMTSL3 | 8,442187 | 2,99E-05 |
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| ARL11 | 8,416019 | 2,68E-05 |
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| ZNF423 | 8,395554 | 2,75E-05 |
| LINC00885 | 8,392123 | 0,000129 |
| HOPX | 8,390407 | 0,000108 |
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| IGSF1 | 8,376384 | 0,000135 |
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| KCNU1 | 8,341908 | 3,94E-05 |
| KCNJ8 | 8,324998 | 4,61E-52 |
| CYP4F22 | 8,312061 | 5,35E-05 |
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| CPEB1 | 8,295425 | 5,71E-05 |
| NRK | 8,293176 | 0,000146 |
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| C8orf48 | 8,242479 | 6,64E-05 |

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| DRD1 | 8,236932 | 0,00036 |
| CAPN9 | 8,2238 | 7,91E-05 |
| DYNC1I1 | 8,212721 | 2,41E-41 |
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| KDR | 8,173282 | 9,26E-05 |
| CELF3 | 8,161871 | 0,000126 |
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| PHLDA3 | 8,146372 | 6,04E-11 |
| IBSP | 8,124372 | 0,000107 |
| PABPC4L | 8,116276 | 0,000139 |
| RECK | 8,108808 | 0,000176 |
| PLEKHO1 | 8,106736 | 1,65E-78 |
| VAV1 | 8,106392 | 2,01E-10 |
| SYNPO2 | 8,10455 | 9,39E-29 |
| PAPLN | 8,097206 | 0,000155 |
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| RAB34 | 8,092566 | 7,22E-05 |
| LINC00494 | 8,090328 | 0,000121 |
| ARHGEF6 | 8,084129 | 0,000137 |
| ABCG1 | 8,076043 | 5,92E-33 |
| SETBP1 | 8,073675 | 0,000221 |
| NAP1L2 | 8,073375 | 0,000236 |
| ZNF813 | 8,072138 | 6,12E-19 |
| DAAM2 | 8,070913 | 0,000133 |
| CNTNAP3 | 8,068823 | 0,000137 |
| CACNA1I | 8,052953 | 0,000269 |
| SUSD2 | 8,02192 | 6,25E-13 |
| SCD5 | 8,011803 | 1,28E-22 |
| SDK1 | 8,004071 | 1,48E-10 |
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| BRINP2 | 7,994224 | 0,000326 |
| ZNF529-AS | 7,993837 | 0,000188 |
| PCDHB2 | 7,976507 | 2,40E-36 |
| GPC3 | 7,972626 | 0,000431 |
| C8orf46 | 7,969714 | 0,000217 |
| CNNM1 | 7,96851 | 3,54E-06 |
| KCNMB2-A | 7,952828 | 3,82E-06 |
| NPR3 | 7,950304 | 8,87E-19 |
| ZNF793-AS | 7,93521 | 0,000244 |
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| TFAP2C | 7,91749 | 3,27E-109 |
| ZNF311 | 7,897972 | 6,50E-09 |
| MIR99AHG | 7,895665 | 0,000741 |
| INPP5D | 7,890391 | 0,000141 |

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| WDR72 | 7,876668 | 2,83E-58 |
| FLT4 | 7,875746 | 1,46E-05 |
| LRFN5 | 7,871704 | 0,000325 |
| ERG | 7,868279 | 5,77E-06 |
| DPY19L2P1 | 7,860023 | 0,000417 |
| FHL1 | 7,855166 | 0,000374 |
| SOX11 | 7,833519 | 0,000417 |
| PRUNE2 | 7,825654 | 0,000734 |
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| MIR2052H | 7,820315 | 0,000608 |
| LRRC2 | 7,815301 | 0,000509 |
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| ST8SIA1 | 7,809036 | 0,000446 |
| PANX3 | 7,803248 | 0,000899 |
| C18orf61 | 7,796867 | 0,000658 |
| SCUBE3 | 7,796462 | 0,000464 |
| CCDC83 | 7,795145 | 1,13E-05 |
| KCNN2 | 7,790019 | 8,34E-06 |
| FGF13 | 7,788841 | 0,000579 |
| TSHZ3 | 7,788664 | 1,25E-13 |
| AK8 | 7,787563 | 0,00061 |
| NEFH | 7,779515 | 0,000962 |
| PTPRQ | 7,776472 | 0,000488 |
| GATA3 | 7,776088 | 2,36E-127 |
| SUSD4 | 7,770043 | 9,73E-06 |
| GREB1 | 7,765709 | 4,02E-97 |
| RFTN1 | 7,761384 | 0,000537 |
| MTMR7 | 7,758597 | 9,67E-06 |
| ABCC8 | 7,756199 | 0,000528 |
| ST8SIA6 | 7,747478 | 0,000734 |
| HCAR1 | 7,744847 | 0,000679 |
| MYCN | 7,736954 | 0,000591 |
| SERTAD4-A | 7,701789 | 0,000996 |
| AMOT | 7,695159 | 4,78E-57 |
| NOX5 | 7,692263 | 0,00076 |
| SYTL5 | 7,690903 | 0,000745 |
| ATP6V1B1 | 7,690472 | 0,000983 |
| DOCK8 | 7,688869 | 3,33E-09 |
| EVC2 | 7,67216 | 0,000942 |
| FAM171A2 | 7,668868 | 1,87E-55 |
| TFAP2A-AS | 7,661004 | 1,64E-05 |
| ZNF772 | 7,639444 | 4,69E-09 |
| HOTAIR | 7,624825 | 1,85E-05 |
| LDHD | 7,612329 | 1,25E-07 |
| SYT10 | 7,611063 | 0,000984 |
| RHOBTB1 | 7,577975 | 4,03E-167 |
| MYLK | 7,575539 | 2,32E-05 |
| AP4B1-AS1 | 7,571421 | 5,59E-20 |
| EML1 | 7,552678 | 6,06E-44 |
| SLC24A3 | 7,548041 | 2,89E-12 |

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| PRKAA2 | 7,533779 | 6,50E-13 |
| ZNF790-AS | 7,51893 | 4,91E-12 |
| PREX1 | 7,493683 | 1,37E-68 |
| ZNF737 | 7,467495 | 1,74E-30 |
| CALD1 | 7,458892 | 8,12E-10 |
| PLXNA4 | 7,447603 | 1,24E-17 |
| ZNF681 | 7,439409 | 1,68E-29 |
| WIF1 | 7,434652 | 0,00018 |
| RIPPLY3 | 7,417224 | 4,84E-05 |
| GNB4 | 7,392777 | 1,81E-11 |
| CRMP1 | 7,389575 | 0,00062 |
| EMID1 | 7,363448 | 5,39E-08 |
| CYFIP2 | 7,349853 | 3,35E-24 |
| PCDHA6 | 7,33462 | 4,15E-55 |
| ANTXR1 | 7,330373 | 4,18E-60 |
| LINC00665 | 7,329018 | 1,10E-35 |
| RNF182 | 7,320738 | 2,27E-18 |
| RERG | 7,275784 | 1,03E-13 |
| ACTA2 | 7,27102 | 1,21E-13 |
| RASSF8 | 7,258937 | 2,46E-47 |
| OGDHL | 7,247019 | 9,09E-23 |
| FAM109B | 7,243978 | 2,08E-14 |
| CHGA | 7,235828 | 7,52E-18 |
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| BST2 | 7,21485 | 6,38E-05 |
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| GPR68 | 7,188181 | 0,000118 |
| TRPV6 | 7,176456 | 0,000121 |
| ERBB4 | 7,170421 | 2,64E-13 |
| ANKS1B | 7,166859 | 0,000216 |
| ZNF790 | 7,131837 | 8,20E-10 |
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| SCARA3 | 7,102126 | 3,44E-25 |
| RASGEF1A | 7,101369 | 4,27E-31 |
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| ZNF876P | 7,098426 | 1,74E-07 |
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| GHR | 7,091039 | 0,000167 |
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| PRAME | 7,037049 | 9,78E-14 |
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| CCM2L | 7,001187 | 1,22E-09 |
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| HOXC10 | 6,953238 | 1,78E-65 |
| FBXO15 | 6,936258 | 1,17E-06 |
| PTPN13 | 6,934679 | 2,97E-36 |
| SEMA4A | 6,93265 | 1,14E-34 |

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| MAFB | 6,92537 | 2,04E-27 |
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| NEURL1B | 6,912698 | 1,43E-54 |
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| MAPT | 6,877663 | 4,34E-41 |
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| NUPR1 | 6,835696 | 6,81E-29 |
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| FREM2 | 6,801726 | 5,48E-49 |
| SEMA6B | 6,791715 | 9,91E-23 |
| MEX3B | 6,78399 | 1,28E-38 |
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| FOXP1 | 6,77248 | 1,33E-40 |
| HOXC-AS3 | 6,771946 | 2,43E-08 |
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| DIRAS1 | 6,18067 | 2,42E-41 |
| A1BG | 6,168623 | 8,03E-10 |
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| TP53INP1 | 6,133238 | 1,18E-23 |
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| TENM1 | 5,934966 | 4,42E-06 |
| ITGA5 | 5,930507 | 1,93E-06 |
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| TACSTD2 | 5,8362 | 3,35E-76 |
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| NDRG2 | 5,799418 | 2,12E-19 |
| TINCR | 5,785377 | 1,19E-15 |
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| NRXN2 | 5,721699 | 1,83E-18 |
| WNT5A | 5,691117 | 4,07E-28 |
| CACNA1H | 5,683928 | 4,40E-43 |
| ETNK2 | 5,670038 | 4,76E-29 |
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| FOXO6 | 5,642924 | 1,11E-08 |
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| MRC2 | 5,437823 | 8,88E-06 |
| PRKAR2B | 5,435158 | 6,44E-21 |
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| MAPK4 | 5,389758 | 3,92E-06 |
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| LRRN1 | 5,386697 | 1,84E-08 |
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| EDN1 | 5,335994 | 1,80E-19 |
| HECW2 | 5,318945 | 3,67E-18 |

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| BEND7 | 5,318238 | 5,28E-05 |
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| SALL2 | 5,287805 | 5,50E-11 |
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| SYTL2 | 5,073312 | 2,16E-60 |
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| RDH16 | 5,068877 | 9,45E-21 |
| ATP8B2 | 5,06563 | 2,49E-15 |
| MRAS | 5,05615 | 1,92E-10 |
| TNFRSF18 | 5,02375 | 1,17E-05 |
| GPC4 | 5,021648 | 1,06E-12 |
| KLHDC7B | 5,013342 | 1,62E-11 |
| LINGO1 | 4,96926 | 3,58E-21 |
| ZNF391 | 4,968052 | 1,10E-10 |
| LYSMD2 | 4,963355 | 7,14E-40 |
| CERS1 | 4,963319 | 0,000516 |
| NTN1 | 4,955941 | 2,97E-09 |
| ABCA3 | 4,951011 | 3,08E-27 |
| FRMD6-AS1 | 4,935116 | 5,50E-05 |
| ABCB4 | 4,928198 | 3,45E-05 |
| SPATA17 | 4,927835 | 1,06E-16 |
| LONRF2 | 4,927798 | 6,89E-23 |
| REPS2 | 4,926057 | 2,10E-08 |
| LRRC75B | 4,924503 | 7,90E-08 |
| TGFBR3L | 4,921782 | 3,54E-09 |
| LARP6 | 4,917192 | 8,19E-10 |
| RNF165 | 4,913363 | 7,03E-05 |
| CADM1 | 4,897241 | 1,14E-38 |
| EPHA4 | 4,882977 | 6,57E-05 |
| TP53 | 4,849375 | 1,99E-30 |
| ADAM32 | 4,845566 | 0,000712 |
| TUSC3 | 4,836625 | 8,30E-44 |
| MAST1 | 4,833614 | 6,99E-15 |
| WSCD1 | 4,826726 | 1,34E-15 |
| SLCO3A1 | 4,794794 | 1,27E-08 |

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| TBC1D9 | 4,779957 | 1,17E-51 |
| HID1 | 4,768699 | 3,67E-31 |
| PRDM6 | 4,752531 | 8,62E-10 |
| FAM46C | 4,748671 | 2,97E-12 |
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| TET1 | 4,714883 | 1,47E-11 |
| RASL11B | 4,711811 | 2,47E-10 |
| BMF | 4,705077 | 5,35E-07 |
| FARP1 | 4,6825 | 6,86E-22 |
| RPRM | 4,678249 | 4,14E-05 |
| BCAS3 | 4,676764 | 4,61E-52 |
| NXPH4 | 4,674437 | 1,32E-25 |
| SOX2 | 4,664417 | 1,22E-17 |
| ZNF362 | 4,638846 | 3,08E-31 |
| ADGRB1 | 4,622913 | 2,23E-22 |
| ALG1L | 4,607292 | 1,02E-16 |
| DPYSL5 | 4,602126 | 7,01E-17 |
| DNALI1 | 4,599464 | 0,000186 |
| FLVCR2 | 4,595563 | 3,43E-10 |
| EWSAT1 | 4,594228 | 0,000931 |
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| KIF1A | 4,589605 | 9,48E-31 |
| SUSD3 | 4,587369 | 3,12E-11 |
| OGFRL1 | 4,586969 | 1,53E-17 |
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| FAM134B | 4,585154 | 1,54E-10 |
| ZNF185 | 4,575686 | 2,01E-23 |
| SYT17 | 4,570557 | 3,42E-23 |
| RUNDC3A- | 4,567833 | 1,67E-07 |
| IRX5 | 4,565692 | 1,28E-29 |
| ZNF836 | 4,561731 | 2,75E-14 |
| LOXL2 | 4,548841 | 2,71E-05 |
| XKRX | 4,535316 | 0,000556 |
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| SYNGR1 | 4,511685 | 1,85E-10 |
| GLDC | 4,494997 | 0,000723 |
| RIMKLB | 4,488087 | 6,13E-28 |
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| SPATA18 | 4,472045 | 3,10E-06 |
| ZBTB10 | 4,466462 | 8,08E-39 |
| FLRT3 | 4,462918 | 2,23E-27 |
| NEO1 | 4,454664 | 5,41E-33 |
| TUBA1A | 4,454247 | 5,32E-65 |
| NKAIN1 | 4,437615 | 9,09E-19 |
| PTPRG-AS1 | 4,431666 | 9,77E-07 |
| IGSF10 | 4,430641 | 0,000171 |
| GPNMB | 4,425842 | 1,28E-23 |
| TIAM2 | 4,425809 | 0,000106 |
| CEL | 4,422717 | 3,58E-06 |
| ENTPD1 | 4,386912 | 1,81E-08 |

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| ZNF461 | 4,363395 | 5,45E-08 |
| CDH3 | 4,358288 | 4,84E-77 |
| ZNF544 | 4,338758 | 2,28E-38 |
| MT1F | 4,328796 | 9,99E-07 |
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| CIART | 4,306328 | 5,42E-12 |
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| EXO5 | 4,300858 | 3,50E-15 |
| PACSIN3 | 4,300296 | 3,08E-44 |
| NEB | 4,297578 | 2,19E-15 |
| C10orf82 | 4,296451 | 0,000234 |
| TANC2 | 4,287206 | 4,70E-31 |
| ZCCHC12 | 4,286018 | 2,47E-06 |
| MDH1B | 4,283069 | 5,92E-05 |
| SYNE3 | 4,277814 | 9,86E-05 |
| TRIB2 | 4,272892 | 1,82E-05 |
| MAMLD1 | 4,267255 | 3,03E-05 |
| ZNF137P | 4,257916 | 6,83E-05 |
| RGAG4 | 4,245061 | 3,77E-07 |
| UCP2 | 4,24079 | 5,84E-15 |
| LINC01132 | 4,228442 | 8,87E-05 |
| RPS6KA2 | 4,223879 | 1,20E-08 |
| KRT81 | 4,213545 | 3,36E-06 |
| THSD4 | 4,203162 | 1,18E-17 |
| SERPINA3 | 4,202073 | 0,000335 |
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| PDGFRL | 4,193585 | 5,50E-05 |
| GRIP1 | 4,187697 | 7,69E-11 |
| QPCT | 4,182634 | 5,09E-05 |
| AK4 | 4,17254 | 1,10E-37 |
| GNG13 | 4,144234 | 1,56E-05 |
| ARHGAP4 | 4,139802 | 1,26E-09 |
| C1QL1 | 4,139549 | 0,00041 |
| GLIS2 | 4,134539 | 1,14E-18 |
| P2RX4 | 4,13289 | 7,14E-40 |
| TAF15 | 4,126972 | 8,42E-15 |
| HEATR6 | 4,1237 | 2,86E-66 |
| LCA5L | 4,12297 | 0,000595 |
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| NKX3-1 | 4,107863 | 5,54E-05 |
| RBPMS2 | 4,092412 | 2,37E-08 |
| DMC1 | 4,088597 | 0,000376 |
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| PFDN4 | 4,078863 | 4,55E-72 |
| KRTAP5-AS | 4,077875 | 1,63E-07 |
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| GLUD2 | 4,060401 | 2,96E-15 |
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| PROCA1 | 4,045179 | 0,000399 |
| PRKCH | 4,032917 | 8,75E-22 |
| CCNG2 | 4,03043 | 5,37E-15 |
| ZNF83 | 4,015756 | 8,39E-28 |
| KREMEN2 | 4,010571 | 1,20E-29 |
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| MID2 | 4,00207 | 4,98E-17 |
| PPP2R3A | 4,001163 | 3,08E-16 |
| TUBB2B | 4,00088 | 1,51E-15 |
| LYPD3 | 4,000823 | 5,72E-12 |
| TRIM37 | 3,992522 | 7,77E-78 |
| MAP10 | 3,991093 | 0,000301 |
| CCDC74B | 3,990957 | 0,000132 |
| NUP210 | 3,964997 | 5,14E-33 |
| DNAH5 | 3,946467 | 0,000648 |
| SIX4 | 3,941048 | 6,24E-17 |
| ADAMTS19 | 3,93981 | 9,32E-05 |
| DBN1 | 3,936569 | 1,97E-53 |
| CENPF | 3,930794 | 2,88E-20 |
| TRAPPC6A | 3,921714 | 1,07E-26 |
| BCL11B | 3,907685 | 3,90E-40 |
| LRP3 | 3,903826 | 3,30E-27 |
| ZNF419 | 3,901773 | 1,11E-09 |
| TMEM254- | 3,900988 | 1,55E-06 |
| GATS | 3,880031 | 4,10E-14 |
| KNDC1 | 3,876653 | 4,77E-09 |
| NCOA3 | 3,869672 | 2,02E-51 |
| NODAL | 3,864341 | 0,000436 |
| CTXN1 | 3,86369 | 6,19E-22 |
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| LMCD1 | 3,858246 | 4,46E-05 |
| PKIG | 3,854807 | 3,66E-20 |
| BRIP1 | 3,85372 | 1,66E-55 |
| FAM213A | 3,837256 | 1,37E-32 |
| EMP2 | 3,836016 | 1,93E-22 |
| PBXIP1 | 3,833958 | 2,24E-10 |
| SHANK2 | 3,830778 | 8,68E-14 |
| FAM69B | 3,82742 | 4,32E-06 |
| ACBD7 | 3,823734 | 7,02E-13 |
| NUAK1 | 3,8205 | 1,17E-18 |
| RASSF5 | 3,819554 | 8,31E-05 |
| ZNF701 | 3,818534 | 2,83E-20 |
| GCNT1 | 3,809994 | 2,08E-22 |
| FGFR2 | 3,802247 | 0,000129 |
| DHTKD1 | 3,800078 | 1,52E-45 |
| NANOS1 | 3,799337 | 1,32E-21 |
| KSR2 | 3,790668 | 1,37E-08 |
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| USP32 | 3,776734 | 1,86E-31 |
| SERHL2 | 3,776234 | 0,001004 |

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| HLA-DRB5 | 3,767918 | 0,000354 |
| N4BP3 | 3,763073 | 3,80E-19 |
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| ZNF730 | 3,744287 | 9,07E-07 |
| ZNF347 | 3,744054 | 3,87E-05 |
| IFITM3 | 3,741253 | 1,93E-19 |
| PPM1D | 3,73826 | 2,48E-53 |
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| SECTM1 | 3,701678 | 2,97E-09 |
| SIAH2 | 3,699057 | 4,17E-38 |
| HCN2 | 3,691728 | 4,07E-14 |
| TTLL7 | 3,690754 | 3,28E-06 |
| RHOV | 3,689775 | 1,26E-11 |
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| ZFYVE28 | 3,679165 | 1,00E-14 |
| SMKR1 | 3,677918 | 7,73E-11 |
| ZMIZ1 | 3,656902 | 1,09E-39 |
| REEP2 | 3,652033 | 0,000532 |
| PIAS3 | 3,635875 | 1,69E-46 |
| PALM | 3,633318 | 2,17E-12 |
| ACACB | 3,632531 | 2,56E-22 |
| FAM46B | 3,629309 | 4,78E-08 |
| MVB12B | 3,62543 | 3,97E-17 |
| SPEF2 | 3,622356 | 4,68E-07 |
| PLCG1-AS1 | 3,610758 | 0,000195 |
| AIF1L | 3,602814 | 1,71E-31 |
| NGFRAP1 | 3,602228 | 2,17E-35 |
| TTC25 | 3,58829 | 0,000172 |
| BCAS4 | 3,581032 | 1,14E-13 |
| BOLA1 | 3,571767 | 5,07E-21 |
| TEAD2 | 3,567779 | 1,65E-23 |
| KLRG2 | 3,564764 | 2,06E-06 |
| KRBA2 | 3,564348 | 9,65E-05 |
| HSD17B14 | 3,548252 | 6,72E-05 |
| KRTAP3-1 | 3,544726 | 1,66E-07 |
| PGM2L1 | 3,53513 | 5,82E-26 |
| SEPT3 | 3,534524 | 7,76E-11 |
| GMPR | 3,534474 | 0,000149 |
| TPBG | 3,520187 | 9,57E-37 |
| SEMA3C | 3,516113 | 2,71E-56 |
| SMAD9 | 3,515815 | 0,000181 |
| SCIN | 3,512597 | 0,000595 |
| GAMT | 3,512565 | 2,79E-10 |
| STARD13 | 3,510438 | 2,76E-15 |
| LYRM9 | 3,507442 | 7,29E-06 |
| RND2 | 3,50726 | 3,80E-10 |
| PGBD1 | 3,498906 | 1,64E-12 |

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| NRSN2 | 3,496312 | 3,18E-10 |
| TSPEAR | 3,491174 | 4,24E-06 |
| NOVA1 | 3,48613 | 1,56E-07 |
| SSBP2 | 3,485068 | 7,06E-07 |
| NSUN7 | 3,477035 | 2,77E-07 |
| CERS4 | 3,472483 | 9,79E-14 |
| ZNF217 | 3,470225 | 1,80E-52 |
| IGFBP4 | 3,464506 | 6,85E-14 |
| CREB3L4 | 3,459205 | 1,62E-20 |
| PRRT3 | 3,454306 | 2,41E-06 |
| PLOD2 | 3,448753 | 1,51E-25 |
| MARC2 | 3,44589 | 0,000123 |
| FAM200A | 3,439047 | 1,60E-13 |
| CXCR4 | 3,4389 | 2,23E-09 |
| AMOTL2 | 3,435307 | 1,45E-12 |
| SRRM3 | 3,426154 | 0,000186 |
| ESPN | 3,422075 | 5,83E-10 |
| C16orf74 | 3,421662 | 8,58E-06 |
| CCDC74A | 3,417418 | 6,05E-06 |
| NRXN3 | 3,392851 | 6,87E-07 |
| LOC101925 | 3,391135 | 8,26E-06 |
| MYH7B | 3,390372 | 0,000749 |
| SLAIN1 | 3,373638 | 1,14E-07 |
| DNAJC6 | 3,371039 | 0,000144 |
| P2RY2 | 3,369116 | 1,79E-22 |
| TP53TG1 | 3,367419 | 1,45E-19 |
| EFCAB11 | 3,363009 | 3,18E-15 |
| HSPB1 | 3,361526 | 6,44E-37 |
| COL5A2 | 3,360114 | 0,000288 |
| DFNB31 | 3,35604 | 1,26E-15 |
| H2AFY2 | 3,354626 | 2,16E-25 |
| ARRB1 | 3,352901 | 3,12E-08 |
| STARD10 | 3,348332 | 7,23E-16 |
| PVRL4 | 3,34615 | 1,70E-20 |
| MSRB2 | 3,333633 | 1,24E-29 |
| MPP7 | 3,329544 | 5,20E-28 |
| DYNC2H1 | 3,328349 | 2,81E-10 |
| GADD45G | 3,326015 | 1,83E-06 |
| FAM102B | 3,313243 | 8,60E-19 |
| NEK11 | 3,308425 | 3,97E-08 |
| IPO5P1 | 3,303694 | 7,39E-12 |
| PRSS27 | 3,286459 | 0,000313 |
| FIBCD1 | 3,275318 | 5,41E-06 |
| GGT7 | 3,274343 | 2,23E-08 |
| LMX1B | 3,272542 | 6,03E-13 |
| GSTA4 | 3,26758 | 3,01E-11 |
| MMP11 | 3,25673 | 0,000178 |
| PNRC1 | 3,255557 | 1,25E-20 |
| MCAM | 3,253561 | 5,08E-06 |
| ISM1 | 3,249082 | 3,42E-06 |

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| GSTM4 | 3,248234 | 2,04E-13 |
| LRRC37A8F | 3,246597 | 0,000122 |
| CNTNAP2 | 3,240128 | 3,71E-06 |
| TOB2P1 | 3,236712 | 0,000687 |
| SIX1 | 3,235503 | 3,40E-16 |
| FXYD3 | 3,22392 | 3,03E-08 |
| NR3C1 | 3,223591 | 1,38E-32 |
| TMEM132A | 3,223147 | 1,11E-21 |
| BCL2 | 3,223014 | 4,45E-08 |
| SCAMP5 | 3,213437 | 1,44E-11 |
| DDB2 | 3,211523 | 1,78E-15 |
| C1QTNF9B | 3,208989 | 8,04E-10 |
| CA12 | 3,206875 | 2,16E-07 |
| C1QTNF6 | 3,19642 | 0,000661 |
| PCDHB14 | 3,192614 | 4,11E-15 |
| PSMD6 | 3,192208 | 3,39E-38 |
| ATP6V1C2 | 3,191885 | 1,43E-09 |
| PNMA1 | 3,191298 | 1,85E-26 |
| GLUL | 3,188266 | 1,15E-42 |
| CD82 | 3,187017 | 2,02E-12 |
| RAB26 | 3,180629 | 2,19E-06 |
| DYRK1B | 3,179948 | 2,14E-22 |
| SOCS3 | 3,17428 | 4,48E-07 |
| RAD51C | 3,172116 | 8,64E-45 |
| ZNF420 | 3,169459 | 1,43E-09 |
| HHAT | 3,166945 | 8,43E-06 |
| C1orf53 | 3,162992 | 1,05E-05 |
| SMPDL3B | 3,162871 | 5,93E-24 |
| NPTXR | 3,161754 | 1,23E-09 |
| C15orf65 | 3,158533 | 9,81E-06 |
| FZD3 | 3,154926 | 8,67E-16 |
| SHANK1 | 3,138707 | 0,000975 |
| ZNF160 | 3,13824 | 1,03E-20 |
| APCDD1 | 3,133616 | 7,54E-20 |
| SAMD11 | 3,132468 | 2,01E-06 |
| CDKN1A | 3,12997 | 3,35E-09 |
| ANKRD34A | 3,129885 | 3,22E-05 |
| WNT11 | 3,114251 | 7,01E-06 |
| B3GALNT1 | 3,114232 | 4,48E-13 |
| ISYNA1 | 3,113702 | 9,33E-34 |
| FCMR | 3,11322 | 0,000132 |
| TXNIP | 3,112104 | 3,12E-07 |
| ZNF253 | 3,106338 | 1,59E-21 |
| DTX3 | 3,103245 | 1,51E-17 |
| ATP5G2 | 3,100831 | 4,99E-44 |
| TDRKH | 3,098938 | 1,25E-14 |
| KRT7 | 3,097467 | 1,32E-05 |
| H1FO | 3,093938 | 1,08E-10 |
| ZNF17 | 3,086943 | 9,20E-07 |
| DHRS2 | 3,084721 | 9,76E-15 |

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| CASC10 | 3,079259 | 5,45E-06 |
| RARG | 3,075468 | 5,57E-21 |
| FGD1 | 3,070552 | 1,08E-17 |
| NDRG4 | 3,066473 | 2,74E-07 |
| STARD5 | 3,056778 | 3,84E-05 |
| RASD1 | 3,055219 | 0,000491 |
| PCOLCE | 3,048287 | 9,55E-08 |
| LYPD6B | 3,046301 | 0,000146 |
| PYROXD2 | 3,044247 | 3,15E-06 |
| REEP1 | 3,039725 | 7,22E-05 |
| FAM214A | 3,036617 | 3,06E-08 |
| FAM227B | 3,027737 | 2,04E-09 |
| ZNF22 | 3,027504 | 1,56E-09 |
| ADA | 3,014384 | 1,29E-08 |
| MYLIP | 3,012435 | 4,30E-19 |
| HBP1 | 3,007389 | 3,19E-11 |
| BTG2 | 3,006228 | 2,77E-11 |
| XYLT1 | 3,002159 | 3,76E-08 |
| GAB1 | 3,001647 | 1,51E-11 |
| ERV3-1 | 2,995173 | 1,05E-15 |
| RBBP8NL | 2,990356 | 1,83E-12 |
| ZNRF1 | 2,984354 | 5,87E-23 |
| DUXAP8 | 2,984337 | 7,70E-09 |
| PBLD | 2,976091 | 1,75E-08 |
| GPX8 | 2,97533 | 3,72E-15 |
| CBLB | 2,972157 | 6,67E-20 |
| TUBD1 | 2,971367 | 3,67E-20 |
| ZNF561-AS | 2,968359 | 4,73E-06 |
| GRHL3 | 2,966025 | 5,50E-09 |
| ZNF416 | 2,962409 | 6,42E-07 |
| MTERF1 | 2,962204 | 1,82E-09 |
| RHOB | 2,960606 | 5,07E-21 |
| ZSCAN16 | 2,956792 | 3,05E-17 |
| ASAH2 | 2,954174 | 8,57E-12 |
| MDK | 2,947095 | 1,55E-36 |
| WNT7B | 2,946124 | 5,19E-10 |
| ZNF493 | 2,941468 | 0,000226 |
| CAP2 | 2,94117 | 4,43E-16 |
| TEX9 | 2,940523 | 9,83E-08 |
| KDM5B | 2,936557 | 3,09E-20 |
| PLD1 | 2,935034 | 0,000153 |
| DDAH2 | 2,934175 | 1,95E-22 |
| PTP4A3 | 2,931072 | 4,18E-10 |
| PCBP3 | 2,90827 | 1,92E-06 |
| PKP1 | 2,906117 | 5,38E-06 |
| EIF4E3 | 2,905793 | 5,41E-09 |
| ZBTB12 | 2,904559 | 4,78E-08 |
| SYNE2 | 2,903208 | 3,71E-21 |
| ZFP14 | 2,894019 | 6,43E-08 |
| PPAP2A | 2,893362 | 1,03E-10 |

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| CACNB3 | 2,884591 | 6,24E-23 |
| FAM174B | 2,883962 | 6,49E-09 |
| CHD6 | 2,881746 | 8,01E-29 |
| MATN2 | 2,88107 | 2,11E-13 |
| GALNT6 | 2,877504 | 5,44E-14 |
| PITPNC1 | 2,874877 | 2,00E-31 |
| PTGES | 2,874375 | 3,72E-06 |
| CCDC170 | 2,868838 | 1,95E-06 |
| ARMCX6 | 2,866482 | 8,45E-07 |
| CD24 | 2,860954 | 4,93E-23 |
| TTC7B | 2,860696 | 3,13E-09 |
| UTRN | 2,860351 | 2,71E-08 |
| FTCDNL1 | 2,85735 | 0,000472 |
| ARHGEF28 | 2,854524 | 4,38E-12 |
| TRIM24 | 2,848741 | 1,73E-30 |
| WASF3 | 2,847842 | 2,68E-12 |
| DNAH3 | 2,846155 | 0,000609 |
| ARSG | 2,845817 | 7,58E-10 |
| ZNF816 | 2,841899 | 4,09E-09 |
| FERMT2 | 2,838863 | 3,69E-14 |
| SLC4A3 | 2,834216 | 0,000781 |
| CRNDE | 2,832147 | 8,43E-08 |
| ZNF134 | 2,83106 | 9,76E-12 |
| HOMER2 | 2,828664 | 1,50E-14 |
| C2orf76 | 2,816085 | 1,92E-07 |
| ZNF821 | 2,815238 | 1,54E-07 |
| SOX13 | 2,808846 | 1,08E-12 |
| BLVRA | 2,808435 | 2,72E-19 |
| FAXC | 2,805654 | 9,16E-05 |
| CRISPLD2 | 2,805106 | 4,04E-07 |
| MAN2B1 | 2,802596 | 3,80E-22 |
| GSTZ1 | 2,792411 | 3,28E-20 |
| PARD6G | 2,792119 | 5,77E-05 |
| TCF7L1 | 2,791079 | 2,58E-06 |
| CDYL2 | 2,787374 | 6,04E-06 |
| PDE3B | 2,787257 | 2,16E-07 |
| IDH2 | 2,787106 | 6,55E-19 |
| HK1 | 2,786604 | 8,75E-13 |
| LRRC73 | 2,77915 | 9,86E-06 |
| FBXO27 | 2,779073 | 4,62E-10 |
| SIPA1L2 | 2,77562 | 7,58E-17 |
| WWTR1 | 2,769239 | 8,47E-12 |
| FAM129A | 2,768904 | 4,70E-06 |
| PKD3 | 2,766403 | 2,92E-08 |
| NAAA | 2,764698 | 2,14E-12 |
| ZSCAN2 | 2,762822 | 1,79E-19 |
| SOCS1 | 2,76062 | 8,99E-09 |
| HES2 | 2,756902 | 0,000365 |
| ADIRF | 2,749415 | 2,05E-06 |
| ZNF211 | 2,740162 | 1,24E-05 |

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| C20orf194 | 2,739144 | 9,53E-05 |
| TUBB6 | 2,735056 | 5,92E-20 |
| SLC9A6 | 2,734531 | 9,83E-08 |
| SLC25A29 | 2,732661 | 6,09E-16 |
| PRSS23 | 2,729069 | 7,25E-17 |
| ZNF467 | 2,726141 | 2,93E-21 |
| RPS6KB1 | 2,725349 | 1,48E-32 |
| FAM212B | 2,718456 | 6,59E-09 |
| CCT6B | 2,715586 | 0,000402 |
| WDR83OS | 2,715547 | 1,17E-28 |
| PAR6B | 2,715358 | 2,85E-19 |
| PYCARD | 2,714908 | 2,48E-09 |
| SEMA7A | 2,713161 | 8,26E-11 |
| RAB13 | 2,696139 | 1,45E-18 |
| MAP3K12 | 2,692694 | 1,52E-05 |
| ECI2 | 2,679857 | 3,54E-09 |
| RAB36 | 2,678356 | 0,000223 |
| SBK1 | 2,675387 | 6,18E-18 |
| RBM43 | 2,666837 | 8,15E-05 |
| FGFR1 | 2,665442 | 3,87E-09 |
| ZNF808 | 2,665439 | 1,54E-07 |
| GNAS | 2,654304 | 1,33E-33 |
| PCSK6 | 2,651624 | 3,15E-14 |
| BCL6 | 2,643224 | 4,05E-12 |
| PCDHB9 | 2,642044 | 9,23E-07 |
| TCTN1 | 2,639291 | 7,17E-14 |
| LITAF | 2,635207 | 1,87E-15 |
| FGD3 | 2,631148 | 2,10E-06 |
| BCAS2 | 2,628694 | 2,13E-32 |
| IFT22 | 2,627567 | 2,04E-18 |
| SHOX2 | 2,62008 | 0,000507 |
| LINC00674 | 2,616771 | 6,32E-19 |
| BCORL1 | 2,614606 | 2,52E-11 |
| ZNF219 | 2,613443 | 4,48E-16 |
| TSPAN31 | 2,612744 | 1,02E-08 |
| SNHG5 | 2,612563 | 1,11E-06 |
| SELENBP1 | 2,611229 | 1,90E-10 |
| ARHGEF37 | 2,611034 | 0,000154 |
| B4GALNT1 | 2,607819 | 2,05E-07 |
| ZNF254 | 2,606751 | 1,45E-14 |
| SLC29A4 | 2,603275 | 2,28E-07 |
| RNF122 | 2,583732 | 9,20E-05 |
| YBX2 | 2,581425 | 2,98E-15 |
| GPSM1 | 2,566609 | 8,74E-08 |
| NHP2 | 2,564659 | 3,18E-32 |
| ULK1 | 2,559608 | 8,53E-21 |
| ENDOV | 2,55769 | 5,62E-13 |
| TMEM191 | 2,556919 | 2,43E-10 |
| ZNF749 | 2,554531 | 1,17E-05 |
| KRT18 | 2,552295 | 1,33E-09 |

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| CBX2 | 2,551435 | 3,34E-23 |
| TTC28 | 2,543847 | 0,000117 |
| RAB3D | 2,53657 | 3,65E-15 |
| SNTA1 | 2,535813 | 1,04E-06 |
| CYB561 | 2,532358 | 2,15E-30 |
| ARHGEF25 | 2,530634 | 0,000275 |
| ZSWIM4 | 2,52912 | 1,30E-07 |
| SNX24 | 2,529106 | 5,42E-10 |
| DHRS13 | 2,528563 | 1,10E-10 |
| ITPKB | 2,525349 | 4,62E-10 |
| ZNF818P | 2,520988 | 1,03E-05 |
| COL18A1 | 2,516747 | 6,90E-08 |
| LINC00886 | 2,515911 | 6,63E-05 |
| ZNF417 | 2,515303 | 5,68E-06 |
| ABAT | 2,507121 | 0,000156 |
| INPP4B | 2,501784 | 1,80E-11 |
| METRNL | 2,500346 | 8,49E-15 |
| MT2A | 2,499964 | 6,78E-11 |
| GATSL2 | 2,496212 | 6,46E-16 |
| DNLZ | 2,486373 | 2,48E-16 |
| ZNF713 | 2,484095 | 9,42E-06 |
| ZNF776 | 2,483155 | 5,23E-10 |
| ZNF805 | 2,482935 | 1,36E-07 |
| RIMKLA | 2,482478 | 0,000121 |
| LTBP1 | 2,48068 | 5,24E-20 |
| USP30 | 2,480328 | 6,28E-08 |
| ZNF117 | 2,466058 | 1,46E-05 |
| MYT1 | 2,46501 | 0,000258 |
| HNRNPA1L | 2,464782 | 5,17E-07 |
| SDSL | 2,463112 | 1,06E-08 |
| ZBTB42 | 2,461828 | 6,36E-12 |
| CSDE1 | 2,454135 | 1,86E-18 |
| C11orf80 | 2,451352 | 2,01E-09 |
| DHPS | 2,450524 | 1,99E-16 |
| NFATC4 | 2,445749 | 0,000141 |
| ALDH4A1 | 2,440316 | 8,20E-06 |
| ITPR2 | 2,438 | 2,35E-11 |
| ARHGDIG | 2,432534 | 5,75E-06 |
| KRT8 | 2,431907 | 7,21E-10 |
| CCDC176 | 2,429598 | 0,000336 |
| DNPH1 | 2,425328 | 1,77E-23 |
| PTK7 | 2,421709 | 1,60E-10 |
| CASKIN1 | 2,411922 | 2,33E-08 |
| SLC27A3 | 2,404896 | 3,93E-17 |
| TMEM183E | 2,40258 | 3,20E-08 |
| ZNF431 | 2,399969 | 6,32E-05 |
| CAMK2N2 | 2,399208 | 1,18E-06 |
| WDYHV1 | 2,391546 | 1,38E-11 |
| PTPRS | 2,391068 | 3,56E-15 |
| DNMT3B | 2,387811 | 2,13E-16 |

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| DISP1 | 2,386692 | 2,92E-07 |
| FAM117A | 2,38522 | 3,96E-08 |
| MEX3A | 2,377623 | 4,28E-24 |
| WDR83 | 2,375892 | 1,93E-14 |
| DLC1 | 2,374266 | 2,69E-09 |
| PRMT6 | 2,365528 | 9,44E-23 |
| DTWD1 | 2,365255 | 9,69E-11 |
| IDNK | 2,363868 | 3,19E-07 |
| TLE1 | 2,362141 | 1,47E-11 |
| HMG20B | 2,359172 | 2,96E-26 |
| PLXNB3 | 2,356226 | 9,47E-08 |
| LGALS1 | 2,349806 | 6,60E-11 |
| TNNT1 | 2,348936 | 2,66E-18 |
| NR4A1 | 2,347358 | 6,31E-06 |
| UST | 2,346484 | 9,10E-05 |
| ZFHX3 | 2,34641 | 8,60E-13 |
| ZBTB22 | 2,345303 | 6,46E-10 |
| PRDX2 | 2,34525 | 9,93E-22 |
| SLC4A8 | 2,337022 | 0,000958 |
| NPDC1 | 2,336853 | 3,05E-24 |
| GABPB1 | 2,334416 | 1,25E-14 |
| FBXW9 | 2,333834 | 9,86E-15 |
| FYTTD1 | 2,331897 | 1,04E-16 |
| DTD1 | 2,329833 | 3,75E-17 |
| GAA | 2,325095 | 2,36E-14 |
| MXD4 | 2,324049 | 4,88E-06 |
| ZNF627 | 2,323765 | 1,10E-13 |
| HKR1 | 2,320513 | 1,02E-10 |
| MFSD3 | 2,313093 | 3,19E-17 |
| PLEKHF2 | 2,312427 | 2,35E-17 |
| MXD3 | 2,308563 | 5,82E-09 |
| RPS27L | 2,308343 | 2,48E-05 |
| HDAC5 | 2,307794 | 1,88E-05 |
| MPP2 | 2,304446 | 0,000728 |
| CTNNBIP1 | 2,301807 | 8,13E-12 |
| CIR1 | 2,301055 | 3,15E-10 |
| TRERF1 | 2,299908 | 6,24E-08 |
| ZNF429 | 2,298158 | 3,45E-10 |
| SLC35E3 | 2,292109 | 2,34E-11 |
| SRD5A3 | 2,291593 | 1,14E-09 |
| STON2 | 2,284443 | 7,96E-13 |
| CSRP2 | 2,28367 | 1,64E-06 |
| WDR91 | 2,279584 | 8,64E-06 |
| DNAJC15 | 2,279567 | 1,84E-17 |
| ALDH7A1 | 2,27936 | 5,73E-18 |
| MOSPD3 | 2,277415 | 1,46E-07 |
| ILDR1 | 2,276773 | 1,06E-08 |
| GKAP1 | 2,270517 | 0,000226 |
| ZNF250 | 2,262772 | 3,56E-06 |
| NME4 | 2,253647 | 8,24E-20 |

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| RNF130 | 2,248504 | 9,11E-13 |
| SH3BP5 | 2,240427 | 1,86E-13 |
| SH3BGR | 2,238998 | 0,000137 |
| FDXR | 2,237613 | 2,38E-05 |
| EPN3 | 2,23577 | 4,35E-12 |
| MAPK8IP1 | 2,232994 | 1,79E-06 |
| CKAP4 | 2,232416 | 3,36E-12 |
| POGZ | 2,228105 | 4,61E-13 |
| NDST1 | 2,227985 | 4,49E-16 |
| LAMTOR4 | 2,22004 | 2,73E-15 |
| ZNF260 | 2,215268 | 1,60E-13 |
| GJA3 | 2,210487 | 7,03E-05 |
| SAMD15 | 2,207832 | 0,000736 |
| FAM127A | 2,207774 | 8,35E-08 |
| LYPLAL1 | 2,199205 | 1,87E-06 |
| RAB27A | 2,198021 | 2,24E-09 |
| ANAPC15 | 2,197509 | 8,51E-16 |
| RHOD | 2,191067 | 6,98E-06 |
| EFNA1 | 2,188957 | 4,49E-06 |
| ASS1 | 2,187336 | 9,86E-08 |
| VPS72 | 2,185589 | 1,79E-11 |
| GSE1 | 2,185574 | 1,75E-23 |
| GTF2IRD2B | 2,185307 | 7,41E-09 |
| PMF1 | 2,181226 | 4,13E-07 |
| FBXL16 | 2,181189 | 2,39E-07 |
| SLC29A3 | 2,180647 | 8,56E-07 |
| KLHL24 | 2,179288 | 0,000479 |
| MFAP2 | 2,167298 | 2,16E-05 |
| PEX11B | 2,153761 | 9,70E-13 |
| DCLRE1B | 2,15372 | 1,11E-13 |
| SRGAP2B | 2,153058 | 2,21E-05 |
| ZNF490 | 2,151701 | 6,76E-06 |
| RHPN1 | 2,151224 | 2,13E-05 |
| ISOC2 | 2,151222 | 3,33E-18 |
| LOC104968 | 2,144513 | 4,31E-05 |
| THOC7 | 2,143429 | 1,02E-20 |
| ZNF552 | 2,142129 | 2,74E-06 |
| FUT8 | 2,137003 | 2,06E-18 |
| SLC25A43 | 2,136744 | 3,43E-11 |
| SPIRE1 | 2,133833 | 1,09E-12 |
| HIGD2A | 2,133229 | 1,11E-17 |
| F2R | 2,132232 | 5,15E-05 |
| FLYWCH2 | 2,131743 | 3,66E-12 |
| FAM86B1 | 2,131722 | 0,000234 |
| PLXND1 | 2,13164 | 1,10E-06 |
| HOMER3 | 2,130591 | 2,42E-13 |
| OS9 | 2,129536 | 2,15E-18 |
| SLC37A4 | 2,122622 | 4,42E-17 |
| GPR161 | 2,121128 | 0,00013 |
| THBS3 | 2,120819 | 0,000546 |

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| EPB41L4A- | 2,118958 | 2,70E-06 |
| C6orf48 | 2,118355 | 1,75E-06 |
| SPPL2A | 2,115339 | 2,49E-17 |
| ZNF738 | 2,109887 | 5,20E-05 |
| COX6C | 2,09558 | 2,21E-11 |
| PUS10 | 2,086103 | 0,000217 |
| LRFN1 | 2,082239 | 6,40E-06 |
| LRRC26 | 2,080896 | 1,40E-05 |
| CLU | 2,079642 | 5,49E-07 |
| BCAM | 2,077868 | 3,98E-12 |
| KRT10 | 2,075739 | 2,82E-09 |
| PDGFA | 2,075346 | 2,15E-08 |
| ISL2 | 2,072901 | 0,000584 |
| PLCG1 | 2,072271 | 8,39E-18 |
| CCDC24 | 2,070105 | 5,88E-05 |
| ENSA | 2,067002 | 3,40E-22 |
| TMEM187 | 2,065908 | 6,05E-06 |
| CUL9 | 2,065166 | 8,32E-07 |
| ESCO1 | 2,062777 | 3,78E-05 |
| ARG2 | 2,061054 | 1,74E-05 |
| ARVCF | 2,055878 | 4,55E-10 |
| ZNF8 | 2,050378 | 6,05E-07 |
| PCDHB13 | 2,048269 | 1,16E-06 |
| NARF | 2,045654 | 4,68E-07 |
| PXN-AS1 | 2,045486 | 8,11E-06 |
| S100A13 | 2,038286 | 6,76E-12 |
| PDCD4 | 2,032306 | 3,45E-12 |
| IFT46 | 2,030156 | 1,95E-13 |
| CCZ1B | 2,030033 | 7,67E-14 |
| CCPG1 | 2,029847 | 1,41E-06 |
| CADM4 | 2,025767 | 2,24E-07 |
| PHPT1 | 2,02538 | 1,32E-15 |
| BBC3 | 2,023078 | 5,20E-05 |
| ZNF32 | 2,022669 | 5,13E-08 |
| NRSN2-AS1 | 2,022614 | 8,45E-06 |
| MYO5A | 2,021996 | 5,06E-10 |
| LRRC49 | 2,021718 | 2,44E-05 |
| PRSS8 | 2,020649 | 7,00E-18 |
| HMGB3 | 2,017863 | 6,09E-18 |
| LY6E | 2,016406 | 2,99E-09 |
| ZCWPW1 | 2,014113 | 0,000557 |
| RNF115 | 2,014 | 1,28E-14 |
| PIK3R3 | 2,013701 | 2,21E-08 |
| ASNA1 | 2,01055 | 1,09E-18 |
| SLC43A2 | 2,007973 | 3,55E-09 |
| ZNF468 | 2,006876 | 8,19E-11 |
| BFSP1 | 2,005436 | 0,000529 |
| KCTD1 | 2,000728 | 4,21E-09 |
| ACOX3 | 1,9977 | 2,49E-07 |
| TMEM64 | 1,997377 | 4,90E-15 |

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| RPS6KL1 | 1,996785 | 1,35E-05 |
| CELSR2 | 1,995212 | 2,99E-13 |
| DAAM1 | 1,988142 | 1,31E-12 |
| TEAD3 | 1,9826 | 5,69E-10 |
| TJP3 | 1,979691 | 9,07E-06 |
| PPP2R5E | 1,974249 | 3,74E-17 |
| RPS2 | 1,97079 | 8,11E-16 |
| VPS9D1 | 1,970183 | 6,92E-05 |
| HRAS | 1,967106 | 1,35E-08 |
| MRPS21 | 1,959055 | 2,79E-14 |
| KLHDC2 | 1,958773 | 4,06E-08 |
| CCDC167 | 1,958528 | 6,35E-06 |
| YPEL5 | 1,958386 | 6,42E-05 |
| COPG2 | 1,958028 | 1,10E-10 |
| ZNF428 | 1,949948 | 5,78E-07 |
| XBP1 | 1,946981 | 6,90E-06 |
| PPP1R21 | 1,945156 | 8,92E-07 |
| ITFG2 | 1,944346 | 6,66E-06 |
| ZNF771 | 1,938278 | 1,10E-05 |
| SFXN2 | 1,928422 | 1,20E-08 |
| CHMP6 | 1,927689 | 1,63E-07 |
| TRIQK | 1,927487 | 2,33E-07 |
| RNF44 | 1,92263 | 1,80E-12 |
| RGS12 | 1,921546 | 4,56E-09 |
| ARID2 | 1,919605 | 6,62E-12 |
| ANK3 | 1,91607 | 2,22E-06 |
| FAM13B | 1,910682 | 9,10E-05 |
| SOS2 | 1,910009 | 1,30E-09 |
| LRRC27 | 1,908426 | 0,000221 |
| PPOX | 1,907633 | 0,000688 |
| RPL22L1 | 1,905042 | 1,59E-06 |
| SRGAP2 | 1,903865 | 1,30E-11 |
| ZNF512B | 1,903693 | 6,55E-10 |
| C21orf33 | 1,901426 | 3,41E-09 |
| ZNF525 | 1,900837 | 2,38E-07 |
| KCTD15 | 1,900239 | 1,48E-05 |
| ATXN3 | 1,899224 | 4,70E-08 |
| PLXDC2 | 1,892896 | 1,69E-07 |
| RRBP1 | 1,892411 | 2,79E-08 |
| TBCK | 1,891562 | 2,07E-09 |
| BHLHB9 | 1,890292 | 0,000381 |
| DSP | 1,889995 | 6,30E-12 |
| BCYRN1 | 1,882195 | 8,94E-08 |
| ZNF669 | 1,881574 | 3,21E-05 |
| NEBL | 1,880728 | 1,12E-08 |
| PLCH1 | 1,878498 | 9,57E-11 |
| OARD1 | 1,878241 | 5,50E-09 |
| STMN1 | 1,877624 | 7,39E-08 |
| RNASEL | 1,871787 | 2,39E-06 |
| NRAS | 1,87171 | 1,70E-13 |

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| THOC6 | 1,871195 | 3,04E-07 |
| ZNF766 | 1,870138 | 5,70E-12 |
| SEMA4C | 1,868815 | 1,18E-08 |
| PELI3 | 1,865626 | 6,57E-08 |
| MLLT3 | 1,864453 | 0,000186 |
| PAIP2 | 1,863248 | 4,18E-10 |
| RPL13 | 1,861926 | 1,98E-10 |
| C14orf80 | 1,858738 | 2,14E-09 |
| TM7SF2 | 1,857057 | 6,66E-05 |
| ATF6B | 1,854086 | 2,94E-08 |
| LINC01296 | 1,853758 | 0,000186 |
| SP140L | 1,85289 | 0,000175 |
| SYNE4 | 1,852068 | 2,03E-10 |
| DRAM1 | 1,848992 | 2,66E-06 |
| PVT1 | 1,842361 | 1,09E-06 |
| ATP2B4 | 1,83648 | 2,63E-05 |
| TMEM183A | 1,830298 | 1,18E-12 |
| SLC27A5 | 1,829656 | 4,38E-08 |
| ZNF608 | 1,827736 | 1,31E-07 |
| GALNT18 | 1,827388 | 0,000938 |
| BTG1 | 1,825917 | 1,49E-10 |
| RGS10 | 1,823068 | 2,49E-05 |
| TCTN2 | 1,822854 | 3,04E-06 |
| VTI1B | 1,822588 | 2,20E-09 |
| ADAM11 | 1,822478 | 6,94E-05 |
| ANXA6 | 1,822149 | 0,000186 |
| TRIM36 | 1,819036 | 2,98E-06 |
| HILPDA | 1,815788 | 3,03E-07 |
| RMND5B | 1,814768 | 2,18E-13 |
| HEXDC | 1,814297 | 4,04E-06 |
| ABCA2 | 1,812458 | 5,24E-09 |
| DST | 1,811883 | 4,25E-09 |
| LSM11 | 1,80746 | 6,22E-06 |
| MRPL41 | 1,805504 | 4,62E-10 |
| CCDC71L | 1,800447 | 6,06E-05 |
| ZNF425 | 1,799261 | 9,29E-06 |
| IQCK | 1,795836 | 1,11E-06 |
| DTNB | 1,793332 | 7,72E-08 |
| FBXO31 | 1,792741 | 2,07E-11 |
| TCF25 | 1,791742 | 1,48E-14 |
| ZSCAN21 | 1,790628 | 2,53E-09 |
| LOC113230 | 1,787731 | 1,47E-06 |
| HMGN1 | 1,784359 | 2,24E-13 |
| LRRC23 | 1,780944 | 0,000504 |
| RPSAP58 | 1,780536 | 1,03E-11 |
| APRT | 1,776202 | 6,47E-13 |
| FBXW4 | 1,769278 | 3,07E-07 |
| C2orf68 | 1,763822 | 3,14E-09 |
| FRG1BP | 1,761233 | 0,000121 |
| FAM89B | 1,760789 | 4,57E-11 |

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| CYP2J2 | 1,760427 | 0,000116 |
| POLR2J | 1,759221 | 1,97E-10 |
| SYDE2 | 1,75916 | 0,000136 |
| SF3B4 | 1,757877 | 5,31E-13 |
| SLC44A2 | 1,755179 | 1,57E-09 |
| ZSCAN26 | 1,754245 | 8,04E-05 |
| ZNF444 | 1,754199 | 2,74E-08 |
| ATP11B | 1,750227 | 0,000196 |
| ZNF611 | 1,74641 | 3,68E-06 |
| ZNF212 | 1,743672 | 1,93E-07 |
| HSD17B8 | 1,74344 | 7,23E-05 |
| VPS50 | 1,736904 | 1,25E-05 |
| COBLL1 | 1,736375 | 3,77E-07 |
| ZNF197 | 1,734832 | 1,30E-06 |
| FAH | 1,731429 | 3,45E-09 |
| ZNF616 | 1,730874 | 8,65E-09 |
| IQCH-AS1 | 1,729956 | 2,18E-05 |
| HCFC1R1 | 1,729864 | 1,92E-05 |
| TMEM9 | 1,729673 | 5,54E-11 |
| PPDPF | 1,727185 | 2,26E-06 |
| TARS2 | 1,720409 | 1,15E-09 |
| NSMCE4A | 1,719778 | 8,82E-07 |
| RRM2B | 1,718841 | 6,27E-05 |
| AP5S1 | 1,717811 | 1,93E-05 |
| NSMCE2 | 1,716573 | 7,48E-09 |
| TSPAN17 | 1,7159 | 4,60E-09 |
| JHDM1D-A | 1,715483 | 9,40E-05 |
| ZNF16 | 1,715479 | 0,000361 |
| GAS5 | 1,715253 | 0,000993 |
| LAPTM4B | 1,712006 | 1,78E-14 |
| SETDB1 | 1,711099 | 5,64E-11 |
| ZKSCAN4 | 1,708236 | 0,000167 |
| NFIB | 1,708034 | 6,98E-09 |
| AP4E1 | 1,707147 | 1,68E-08 |
| TRIM45 | 1,703681 | 0,000151 |
| ALDH6A1 | 1,700447 | 1,90E-10 |
| TSTD1 | 1,695855 | 4,12E-08 |
| ENO2 | 1,695636 | 0,000325 |
| HIPK1 | 1,695251 | 1,45E-12 |
| SLC2A4RG | 1,693645 | 1,29E-07 |
| C7orf60 | 1,692841 | 0,000118 |
| TGIF2 | 1,691702 | 1,82E-05 |
| TNRC6C | 1,69157 | 3,62E-10 |
| ZNF687 | 1,691319 | 8,17E-08 |
| C2orf15 | 1,689401 | 1,89E-06 |
| SSH3 | 1,689077 | 4,93E-06 |
| SIVA1 | 1,687504 | 6,09E-09 |
| FNBP1 | 1,687103 | 3,45E-10 |
| CHD3 | 1,686402 | 8,90E-12 |
| TRIM52-AS | 1,683916 | 0,000203 |

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| DNAJC4 | 1,680037 | 1,05E-05 |
| PPL | 1,677764 | 3,61E-05 |
| TAMM41 | 1,677247 | 1,27E-07 |
| KIF13A | 1,674381 | 3,45E-09 |
| MDM4 | 1,67343 | 2,29E-06 |
| PKN1 | 1,672815 | 2,21E-06 |
| RPS18 | 1,67184 | 1,47E-07 |
| VPS52 | 1,671525 | 7,72E-12 |
| UBE2Q2 | 1,670509 | 1,08E-07 |
| WWP1 | 1,670227 | 1,03E-05 |
| ZNF888 | 1,669097 | 1,59E-05 |
| APPL2 | 1,668611 | 1,85E-06 |
| GCSH | 1,666286 | 1,74E-10 |
| CCDC92 | 1,665442 | 1,98E-05 |
| SNRPE | 1,66493 | 1,52E-12 |
| FAM127B | 1,664172 | 7,91E-12 |
| TRIM33 | 1,663756 | 2,63E-11 |
| ILVBL | 1,663161 | 5,06E-10 |
| EPHB3 | 1,663109 | 0,000458 |
| TTC26 | 1,659232 | 0,000179 |
| CYTH2 | 1,657679 | 2,08E-11 |
| POLD4 | 1,657366 | 0,000289 |
| CD47 | 1,657148 | 1,12E-08 |
| FKBP10 | 1,656699 | 4,84E-13 |
| ENY2 | 1,652711 | 5,57E-07 |
| NR2F2 | 1,650378 | 7,80E-10 |
| KLF7 | 1,649707 | 1,27E-05 |
| ZNF184 | 1,649363 | 4,04E-08 |
| SUV420H2 | 1,648323 | 4,49E-05 |
| POLR3C | 1,637918 | 2,86E-05 |
| IFT43 | 1,637577 | 7,14E-07 |
| BNIP3 | 1,636473 | 4,02E-09 |
| KCNC3 | 1,635683 | 1,82E-05 |
| ZNF585A | 1,635372 | 0,000329 |
| FAM63A | 1,633655 | 0,000873 |
| LHPP | 1,63274 | 2,54E-05 |
| SERTAD3 | 1,631672 | 1,95E-05 |
| LPIN3 | 1,630516 | 0,000528 |
| HIST2H2BE | 1,629812 | 0,000696 |
| ZNF385A | 1,62946 | 1,21E-08 |
| VPS45 | 1,627482 | 8,47E-09 |
| TMEM231 | 1,624393 | 3,89E-06 |
| MAP4K4 | 1,622147 | 8,10E-13 |
| MMAB | 1,621735 | 5,73E-11 |
| MORN2 | 1,618728 | 0,000836 |
| ICAM3 | 1,618701 | 0,000166 |
| CHCHD5 | 1,618269 | 4,51E-08 |
| ZDHHC24 | 1,618035 | 9,26E-05 |
| ZNF138 | 1,616292 | 4,85E-06 |
| PDE4A | 1,613151 | 0,000596 |

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| NUDT4 | 1,608888 | 4,21E-08 |
| RPL30 | 1,607811 | 1,66E-07 |
| ZNF252P | 1,605916 | 6,29E-10 |
| TMPO-AS1 | 1,605726 | 0,000211 |
| ADARB1 | 1,605392 | 0,000146 |
| ZNF35 | 1,605304 | 0,00054 |
| NCK2 | 1,602623 | 2,79E-09 |
| TUFT1 | 1,601587 | 2,49E-07 |
| FBXW8 | 1,601468 | 5,80E-08 |
| ZNF480 | 1,600252 | 2,36E-07 |
| METTL6 | 1,599946 | 1,81E-05 |
| PDE4DIP | 1,59939 | 2,72E-05 |
| ZNF791 | 1,59824 | 7,35E-05 |
| AUTS2 | 1,5979 | 4,48E-07 |
| IQSEC1 | 1,597762 | 3,57E-09 |
| CDKN2C | 1,593458 | 7,27E-06 |
| ZNF503 | 1,593412 | 2,23E-09 |
| DGCR6L | 1,591504 | 9,94E-05 |
| DNAAF3 | 1,591157 | 2,47E-06 |
| PPCDC | 1,590243 | 2,03E-05 |
| RBM8A | 1,589993 | 1,55E-11 |
| IMPDH1 | 1,589471 | 2,05E-07 |
| AGGF1 | 1,589414 | 1,28E-08 |
| RINT1 | 1,589318 | 2,41E-06 |
| C11orf49 | 1,588763 | 1,97E-06 |
| NUCKS1 | 1,588139 | 2,46E-12 |
| ERGIC1 | 1,587585 | 4,73E-08 |
| TGIF1 | 1,584061 | 1,81E-06 |
| TMEM223 | 1,583357 | 1,50E-07 |
| ZNF607 | 1,58245 | 3,26E-06 |
| INPPL1 | 1,581604 | 6,67E-11 |
| MREG | 1,579406 | 1,44E-07 |
| DENND2D | 1,579321 | 5,95E-08 |
| MZT2B | 1,579227 | 3,33E-08 |
| ALG13 | 1,578646 | 7,49E-06 |
| NDUFB7 | 1,577205 | 1,41E-11 |
| ZNF268 | 1,576304 | 7,64E-07 |
| ATPAF1 | 1,571215 | 2,21E-08 |
| EAPP | 1,57074 | 5,28E-07 |
| TLE3 | 1,569167 | 4,11E-09 |
| SUPT4H1 | 1,569126 | 2,68E-10 |
| PACS2 | 1,567865 | 1,53E-08 |
| H1FX | 1,567129 | 9,78E-06 |
| SMDT1 | 1,563098 | 2,58E-05 |
| RALGPS2 | 1,555213 | 5,91E-07 |
| EIF2D | 1,554245 | 7,42E-09 |
| ZNF140 | 1,553575 | 3,98E-06 |
| DECR1 | 1,553376 | 4,71E-09 |
| IER5 | 1,550956 | 1,35E-06 |
| TATDN1 | 1,550668 | 3,67E-09 |

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| PATZ1 | 1,549405 | 1,59E-06 |
| FLOT2 | 1,549217 | 1,11E-05 |
| GRHL2 | 1,547815 | 9,10E-07 |
| DDT | 1,54601 | 1,95E-06 |
| KIF20A | 1,545637 | 1,17E-08 |
| ZNF84 | 1,544425 | 1,54E-07 |
| MDM2 | 1,544323 | 9,78E-05 |
| TMOD3 | 1,543956 | 3,26E-12 |
| EGFL7 | 1,542492 | 9,91E-05 |
| HOOK2 | 1,542218 | 7,24E-10 |
| QKI | 1,540506 | 1,77E-05 |
| MTA3 | 1,531114 | 1,23E-08 |
| FAM172A | 1,529776 | 0,000146 |
| CIRBP | 1,529711 | 2,26E-05 |
| ITGB5 | 1,526796 | 0,000215 |
| SOGA1 | 1,524433 | 2,21E-05 |
| NXT2 | 1,52022 | 0,000282 |
| ZFP1 | 1,518543 | 1,47E-06 |
| RMI2 | 1,516928 | 6,58E-06 |
| AGAP2-AS1 | 1,516677 | 0,000238 |
| MKS1 | 1,514153 | 6,76E-06 |
| LTBP3 | 1,513772 | 3,24E-06 |
| PIGT | 1,513063 | 7,68E-08 |
| RPS27 | 1,511235 | 8,32E-06 |
| SEMA3F | 1,509582 | 0,000147 |
| RPL10 | 1,508294 | 5,08E-07 |
| RB1 | 1,506447 | 9,18E-06 |
| CCDC101 | 1,503267 | 1,73E-05 |
| PSMG3-AS1 | 1,502988 | 0,000726 |
| ZNF688 | 1,501035 | 0,000247 |
| ATMIN | 1,499076 | 5,47E-10 |
| PIGB | 1,496509 | 7,74E-06 |
| MBD5 | 1,495115 | 0,000485 |
| CHD1L | 1,493187 | 1,07E-06 |
| IDS | 1,492168 | 0,000111 |
| STRADA | 1,491904 | 8,84E-06 |
| FAM53B | 1,490848 | 2,51E-08 |
| ATXN7L1 | 1,49042 | 2,15E-05 |
| RPS3 | 1,488144 | 2,46E-08 |
| GOLPH3L | 1,486702 | 0,000103 |
| SLC50A1 | 1,484887 | 5,96E-07 |
| EXPH5 | 1,484548 | 4,94E-05 |
| DSTYK | 1,484371 | 1,19E-07 |
| TRPM7 | 1,483521 | 7,52E-07 |
| MNAT1 | 1,482497 | 8,38E-06 |
| PTPRU | 1,481423 | 4,98E-06 |
| C17orf62 | 1,480933 | 1,02E-08 |
| RPL8 | 1,477112 | 2,81E-11 |
| COMMD7 | 1,475739 | 7,43E-05 |
| DCXR | 1,475402 | 1,68E-06 |

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| IFT172 | 1,475007 | 0,000362 |
| TMEM205 | 1,473983 | 6,55E-06 |
| RNF5 | 1,473318 | 1,47E-05 |
| NMT2 | 1,470933 | 0,000275 |
| DYNLL2 | 1,469821 | 8,77E-10 |
| FAM210B | 1,469108 | 9,05E-05 |
| PQLC3 | 1,46882 | 0,000415 |
| RABIF | 1,467708 | 3,02E-07 |
| APH1A | 1,465736 | 1,62E-10 |
| CCDC149 | 1,465607 | 0,000752 |
| SPECC1 | 1,465127 | 5,05E-06 |
| PRDM4 | 1,464477 | 6,05E-11 |
| RBM4 | 1,463687 | 6,52E-08 |
| PCNX | 1,46018 | 6,49E-09 |
| SEZ6L2 | 1,458527 | 0,000143 |
| SERPINH1 | 1,457958 | 1,31E-09 |
| PRUNE | 1,457716 | 2,19E-07 |
| TLCD1 | 1,457356 | 7,72E-05 |
| KIAA1549 | 1,457118 | 2,09E-05 |
| TMEM254 | 1,454475 | 3,25E-06 |
| GCDH | 1,454327 | 6,10E-08 |
| MTCH2 | 1,453655 | 2,74E-06 |
| CACFD1 | 1,450899 | 0,000292 |
| RUNX2 | 1,450193 | 2,01E-06 |
| LEF1 | 1,449869 | 6,29E-06 |
| PRR3 | 1,446715 | 0,00021 |
| TCEAL4 | 1,444742 | 3,20E-08 |
| RNF139 | 1,442579 | 2,87E-08 |
| RPL18A | 1,441439 | 7,53E-07 |
| MCM7 | 1,437198 | 1,35E-08 |
| LEO1 | 1,436833 | 3,05E-10 |
| NOL3 | 1,434785 | 2,48E-06 |
| RING1 | 1,43447 | 2,41E-07 |
| DANCR | 1,434155 | 3,86E-06 |
| LRRC37BP1 | 1,433776 | 0,000824 |
| PLCB1 | 1,433723 | 0,000222 |
| OXCT1 | 1,4328 | 6,77E-05 |
| C9orf3 | 1,432595 | 7,03E-05 |
| RAD23A | 1,432022 | 5,98E-08 |
| GALNT12 | 1,430254 | 0,000496 |
| RPL35A | 1,43021 | 5,49E-07 |
| TIGD6 | 1,426887 | 0,000642 |
| SAMD1 | 1,425865 | 1,34E-05 |
| C9orf152 | 1,425171 | 0,000827 |
| TSPAN13 | 1,423793 | 7,33E-06 |
| TEF | 1,423332 | 0,000686 |
| PAIP2B | 1,422978 | 0,000214 |
| ARL8A | 1,422619 | 2,50E-08 |
| GABARAPL | 1,419485 | 0,000547 |
| PPM1A | 1,418827 | 4,20E-05 |

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| NAT8L | 1,416697 | 0,000472 |
| ZNF286A | 1,415199 | 3,80E-07 |
| NDUFB9 | 1,411086 | 2,03E-07 |
| C19orf43 | 1,410989 | 8,86E-09 |
| SMARCD2 | 1,410104 | 3,07E-10 |
| FAM3A | 1,409069 | 0,000105 |
| RAB24 | 1,407237 | 0,000117 |
| CINP | 1,407209 | 0,000458 |
| BMPR2 | 1,404865 | 3,68E-06 |
| NRP1 | 1,404057 | 0,000948 |
| ACSF3 | 1,402345 | 9,00E-08 |
| UQCRC2 | 1,399481 | 2,10E-07 |
| TPD52 | 1,398235 | 2,83E-08 |
| TMEM14C | 1,397306 | 5,96E-07 |
| ATP5A1 | 1,396185 | 5,68E-11 |
| MACROD1 | 1,396011 | 5,76E-06 |
| ARHGEF19 | 1,395058 | 0,00014 |
| ECSIT | 1,394509 | 1,83E-05 |
| SNX2 | 1,39414 | 7,39E-06 |
| NCOA2 | 1,393739 | 0,000122 |
| LPAR2 | 1,392595 | 8,68E-07 |
| MTSS1L | 1,39102 | 2,50E-05 |
| PHLPP1 | 1,388919 | 1,32E-07 |
| SPTBN2 | 1,386815 | 0,000129 |
| CTDSP2 | 1,386125 | 9,36E-06 |
| ZNF510 | 1,385913 | 0,000105 |
| ZNF778 | 1,384027 | 1,68E-05 |
| OLFM1 | 1,382628 | 3,00E-05 |
| ZNF12 | 1,381722 | 7,74E-07 |
| ZNF675 | 1,381188 | 8,30E-05 |
| ZNF45 | 1,380098 | 0,000516 |
| ATXN7L3B | 1,377835 | 3,53E-10 |
| PACS1 | 1,37749 | 7,32E-05 |
| ARNT | 1,377149 | 2,15E-08 |
| DSTN | 1,376171 | 1,49E-05 |
| ZKSCAN1 | 1,373294 | 7,82E-09 |
| CCDC57 | 1,372851 | 0,000352 |
| DCP1B | 1,372766 | 0,000469 |
| COX4I1 | 1,370566 | 1,37E-10 |
| ATP6V0E2 | 1,367477 | 0,000478 |
| SRPK2 | 1,367321 | 2,97E-08 |
| MRPL11 | 1,36504 | 3,18E-08 |
| MAPK6 | 1,36498 | 4,86E-09 |
| RPS19 | 1,363615 | 1,99E-07 |
| BCL9 | 1,362792 | 4,26E-06 |
| NDUFA3 | 1,361349 | 3,92E-06 |
| KDELC2 | 1,36126 | 8,96E-05 |
| RALGPS1 | 1,360926 | 0,000228 |
| RXRA | 1,359932 | 5,06E-05 |
| ZFYVE21 | 1,359374 | 1,21E-05 |

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| TPD52L1 | 1,358863 | 0,000146 |
| SLC9A3R1 | 1,358633 | 2,22E-05 |
| RPL32 | 1,357517 | 1,51E-07 |
| CRTC1 | 1,35702 | 0,000464 |
| RBM4B | 1,356539 | 0,00038 |
| TIMM9 | 1,356282 | 0,000223 |
| TSEN15 | 1,35496 | 0,000417 |
| TSPAN6 | 1,353887 | 1,96E-05 |
| KIAA0101 | 1,352818 | 1,92E-06 |
| NUDT3 | 1,35253 | 0,000404 |
| PMS2P1 | 1,351186 | 0,000119 |
| FUNDC2 | 1,349091 | 5,46E-07 |
| EPB41L1 | 1,348514 | 4,77E-06 |
| TMC4 | 1,348307 | 0,000181 |
| TAOK3 | 1,348302 | 8,11E-07 |
| GNB5 | 1,345252 | 7,33E-05 |
| S100A10 | 1,343723 | 3,05E-07 |
| ZNF282 | 1,34348 | 1,51E-06 |
| POLR2K | 1,341302 | 0,000253 |
| NDUFS8 | 1,339111 | 2,04E-06 |
| PRCP | 1,337171 | 1,65E-05 |
| MB21D2 | 1,336735 | 0,00055 |
| COA5 | 1,336125 | 3,03E-05 |
| BANF1 | 1,336029 | 4,16E-07 |
| FAM86C1 | 1,334131 | 7,42E-05 |
| ZNF765 | 1,332645 | 0,000663 |
| GLB1 | 1,331738 | 1,09E-05 |
| IFT57 | 1,331002 | 4,10E-05 |
| MED13L | 1,330162 | 2,58E-06 |
| ROGDI | 1,329984 | 0,000463 |
| DGKZ | 1,328694 | 1,35E-05 |
| BOD1 | 1,326473 | 3,06E-05 |
| CFAP36 | 1,326465 | 2,06E-05 |
| RPS14 | 1,325966 | 1,37E-07 |
| CAMSAP1 | 1,325871 | 1,52E-08 |
| NADSYN1 | 1,325354 | 2,50E-05 |
| HARS2 | 1,324254 | 2,14E-07 |
| NIPSNAP1 | 1,323328 | 9,13E-07 |
| CARHSP1 | 1,323116 | 0,000127 |
| JTB | 1,320032 | 1,17E-06 |
| JUND | 1,317769 | 0,000806 |
| ZNF3 | 1,317759 | 2,42E-06 |
| ZMAT2 | 1,317303 | 1,11E-06 |
| PDCL3 | 1,317159 | 3,83E-06 |
| CUL7 | 1,316893 | 2,26E-05 |
| UBTD2 | 1,31652 | 8,47E-07 |
| SEC11A | 1,315265 | 4,25E-09 |
| COX5B | 1,314794 | 9,05E-09 |
| RPL12 | 1,313706 | 1,61E-06 |
| COQ2 | 1,313262 | 1,24E-05 |

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| PPP1R13B | 1,312476 | 2,87E-05 |
| MYL12B | 1,309321 | 4,30E-09 |
| AP4B1 | 1,308023 | 7,87E-05 |
| ATP5I | 1,306405 | 4,18E-06 |
| CETN2 | 1,305042 | 1,87E-06 |
| RECQL5 | 1,304665 | 0,000461 |
| SNAPIN | 1,302362 | 6,91E-05 |
| ZNF100 | 1,301981 | 0,000319 |
| RNF181 | 1,301779 | 9,64E-06 |
| ZSWIM7 | 1,300495 | 0,000248 |
| RNASEH2A | 1,300062 | 4,88E-06 |
| TRAK2 | 1,299338 | 1,13E-06 |
| GLTSCR2 | 1,299203 | 2,90E-05 |
| EHMT2 | 1,297797 | 1,52E-06 |
| AHR | 1,297529 | 5,66E-08 |
| SSNA1 | 1,296208 | 9,31E-05 |
| TAF11 | 1,295703 | 2,74E-06 |
| HMBS | 1,295412 | 2,22E-05 |
| NUDT14 | 1,290271 | 2,59E-05 |
| SOS1 | 1,289928 | 3,08E-07 |
| TAF3 | 1,2885 | 2,05E-05 |
| KAT5 | 1,28827 | 3,58E-06 |
| EEF1A2 | 1,287066 | 0,00039 |
| ASB8 | 1,28632 | 0,000944 |
| COMTD1 | 1,286297 | 0,000131 |
| GRB14 | 1,285789 | 0,000221 |
| OAZ2 | 1,285703 | 1,66E-05 |
| SUMO3 | 1,284756 | 3,48E-08 |
| TMEM65 | 1,283998 | 0,000459 |
| CCDC34 | 1,28287 | 0,000163 |
| GPR89A | 1,282523 | 0,00042 |
| ZNF777 | 1,280927 | 0,001014 |
| ZNF845 | 1,277636 | 0,000372 |
| JARID2 | 1,275837 | 3,40E-07 |
| FLJ10038 | 1,275307 | 0,000224 |
| SQLE | 1,274916 | 5,53E-06 |
| ARL6IP4 | 1,274406 | 1,95E-07 |
| ASCC2 | 1,273193 | 3,21E-06 |
| KLHDC3 | 1,272871 | 9,48E-05 |
| SIRT5 | 1,270147 | 5,68E-05 |
| MRPS28 | 1,266984 | 0,000189 |
| SAYS1 | 1,264972 | 1,14E-05 |
| AKT1 | 1,264573 | 2,50E-05 |
| SMIM7 | 1,264023 | 1,66E-06 |
| RPS25 | 1,263699 | 6,75E-06 |
| CTPS2 | 1,262593 | 3,27E-06 |
| TK1 | 1,260526 | 0,000101 |
| COX6A1 | 1,259894 | 1,46E-08 |
| EIF2AK3 | 1,257893 | 0,000531 |
| NDUFA2 | 1,257548 | 1,49E-05 |

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| SLC9A3R2 | 1,257462 | 9,95E-05 |
| KLHDC4 | 1,256603 | 1,86E-06 |
| NSA2 | 1,249954 | 3,26E-07 |
| USP8 | 1,249603 | 4,32E-08 |
| PPIC | 1,245906 | 1,88E-05 |
| EPHB4 | 1,24351 | 3,15E-07 |
| IMPACT | 1,239786 | 4,20E-05 |
| EBAG9 | 1,235105 | 9,31E-05 |
| VKORC1 | 1,232874 | 0,000196 |
| PAAF1 | 1,232799 | 2,15E-05 |
| FAM110A | 1,232218 | 0,00026 |
| ABHD16A | 1,229957 | 7,61E-06 |
| SUV420H1 | 1,22993 | 1,40E-06 |
| RPS29 | 1,226514 | 7,67E-05 |
| RPL21P28 | 1,225594 | 0,000273 |
| UQCC3 | 1,225289 | 2,21E-05 |
| C10orf76 | 1,223965 | 0,000319 |
| TRAF4 | 1,223268 | 3,14E-06 |
| TTC9 | 1,22325 | 0,000194 |
| C14orf2 | 1,222446 | 1,99E-05 |
| TOP2B | 1,221189 | 9,61E-08 |
| ZNF579 | 1,220045 | 1,92E-05 |
| UQCC2 | 1,218958 | 0,000201 |
| TACO1 | 1,217451 | 9,36E-05 |
| ALKBH7 | 1,217427 | 2,49E-05 |
| MED21 | 1,216717 | 7,44E-05 |
| THG1L | 1,216631 | 1,75E-05 |
| MTIF3 | 1,216222 | 9,89E-05 |
| ALKBH4 | 1,214689 | 0,000168 |
| ANKRD50 | 1,214297 | 9,54E-07 |
| RPL28 | 1,21287 | 4,31E-06 |
| MYO5C | 1,212673 | 0,000219 |
| ZNF768 | 1,212357 | 3,77E-06 |
| FAM83H-A | 1,210512 | 8,57E-06 |
| DLG1 | 1,209466 | 2,13E-06 |
| ZNF107 | 1,207865 | 0,000705 |
| SLC25A39 | 1,20728 | 2,27E-07 |
| TMEM168 | 1,207083 | 0,000127 |
| DBNDD1 | 1,205695 | 0,000604 |
| COX14 | 1,20568 | 0,000257 |
| FAF2 | 1,205563 | 9,45E-07 |
| PRMT2 | 1,205526 | 0,0003 |
| VPS28 | 1,205052 | 9,50E-06 |
| RAE1 | 1,204445 | 5,14E-06 |
| PPP1R35 | 1,201896 | 0,000516 |
| CBX1 | 1,201702 | 2,77E-06 |
| PRKD3 | 1,201199 | 0,000875 |
| ARL2 | 1,20106 | 0,000277 |
| PRPSAP1 | 1,197767 | 2,46E-05 |
| CBS | 1,197307 | 0,000191 |

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| INTS2 | 1,19634 | 0,000128 |
| GNB2L1 | 1,195884 | 6,74E-06 |
| ARF3 | 1,194338 | 8,43E-06 |
| HLTF | 1,19368 | 3,65E-05 |
| SCAMP1 | 1,191661 | 7,84E-05 |
| SSBP3 | 1,191594 | 0,00036 |
| RPRD2 | 1,19123 | 8,28E-06 |
| EFNA4 | 1,191214 | 7,48E-05 |
| FZD6 | 1,189761 | 0,000241 |
| RPS15A | 1,188854 | 9,07E-06 |
| CUTA | 1,188696 | 2,37E-06 |
| YIPF3 | 1,18531 | 1,78E-06 |
| HR | 1,185286 | 0,000351 |
| DTWD2 | 1,184316 | 0,000734 |
| C7orf73 | 1,183978 | 7,26E-06 |
| TMEM263 | 1,183779 | 0,000926 |
| C16orf58 | 1,182054 | 3,20E-06 |
| TMEM63B | 1,180684 | 0,00061 |
| CRBN | 1,179926 | 0,000874 |
| ATP5L | 1,179059 | 1,41E-06 |
| RPLP1 | 1,178268 | 0,000392 |
| MEPCE | 1,176403 | 0,00016 |
| SIKE1 | 1,171814 | 0,000335 |
| PSMD4 | 1,170339 | 7,31E-07 |
| IGF1R | 1,169959 | 1,61E-05 |
| OTUD7B | 1,169801 | 0,000242 |
| LMAN2 | 1,169538 | 2,70E-05 |
| SARS2 | 1,16692 | 0,000128 |
| RPS17 | 1,165063 | 7,24E-05 |
| NT5DC2 | 1,16347 | 3,40E-05 |
| GALK1 | 1,1633 | 0,000417 |
| PSMB4 | 1,163063 | 3,57E-06 |
| MAP2K5 | 1,163008 | 0,0001 |
| GZF1 | 1,162069 | 0,000385 |
| TMEM258 | 1,162015 | 0,000111 |
| KARS | 1,161552 | 1,08E-05 |
| TMBIM4 | 1,16103 | 0,000148 |
| MRPS18B | 1,160657 | 8,07E-06 |
| SLC29A2 | 1,160302 | 0,000631 |
| MTX1 | 1,158474 | 0,000221 |
| CTCF | 1,157234 | 6,87E-05 |
| GDE1 | 1,155616 | 0,000138 |
| SLC25A24 | 1,154875 | 7,03E-05 |
| MIF | 1,151847 | 1,34E-06 |
| SNX18 | 1,151753 | 0,000929 |
| C19orf60 | 1,151344 | 0,000224 |
| RSBN1 | 1,15014 | 0,000466 |
| PIK3C2B | 1,150078 | 0,000845 |
| MRPL27 | 1,146683 | 3,58E-05 |
| TRMT12 | 1,146182 | 0,000196 |

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| BCKDHA | 1,145522 | 0,000336 |
| PRPF3 | 1,14493 | 0,000646 |
| RPL4 | 1,144273 | 3,60E-06 |
| DBI | 1,144017 | 0,00013 |
| RGL2 | 1,143174 | 5,72E-05 |
| TRPM4 | 1,142546 | 0,000847 |
| DNMT3A | 1,142199 | 1,22E-05 |
| PTTG1IP | 1,141425 | 5,04E-07 |
| SSR2 | 1,1411 | 6,02E-05 |
| RPL37A | 1,13728 | 0,000132 |
| NSD1 | 1,136545 | 4,87E-05 |
| IDH3G | 1,136499 | 4,71E-06 |
| CNOT2 | 1,136386 | 7,77E-06 |
| AP5M1 | 1,135589 | 0,000235 |
| B4GALT7 | 1,133072 | 0,000298 |
| XPOT | 1,129973 | 9,03E-05 |
| WRB | 1,128811 | 0,000755 |
| NDUFA13 | 1,125375 | 1,69E-05 |
| SERPINB6 | 1,123678 | 3,04E-06 |
| ATAD2 | 1,123307 | 0,000572 |
| ARPP19 | 1,121754 | 9,59E-07 |
| ECI1 | 1,121547 | 3,67E-05 |
| NUDT16L1 | 1,121143 | 0,000291 |
| AP4M1 | 1,118412 | 0,000282 |
| BDH1 | 1,118175 | 4,81E-05 |
| MYO6 | 1,117935 | 7,49E-06 |
| TMEM14B | 1,116317 | 0,0004 |
| CMC2 | 1,115425 | 0,000145 |
| PIGU | 1,114556 | 0,000105 |
| SIPA1L1 | 1,114199 | 7,02E-06 |
| RHNO1 | 1,114125 | 0,000995 |
| DLGAP5 | 1,112358 | 1,98E-05 |
| VIPAS39 | 1,112201 | 0,000204 |
| CREB1 | 1,110187 | 3,88E-05 |
| PPP2R1A | 1,11017 | 0,00037 |
| CDK2AP1 | 1,106424 | 0,000425 |
| ZNF205 | 1,105976 | 0,000432 |
| RPL31 | 1,105414 | 1,88E-05 |
| TBC1D5 | 1,105028 | 3,24E-05 |
| SCD | 1,104844 | 0,000559 |
| RPLP0 | 1,101273 | 1,29E-05 |
| MRPL24 | 1,099867 | 0,000158 |
| RTFDC1 | 1,099354 | 0,000199 |
| MTMR4 | 1,099344 | 8,75E-06 |
| REEP5 | 1,098903 | 0,000919 |
| LAMA5 | 1,097799 | 3,05E-05 |
| ZMYND11 | 1,094308 | 9,35E-06 |
| MRPL9 | 1,093738 | 0,000189 |
| MYL12A | 1,092993 | 1,01E-05 |
| SUCLG2 | 1,092139 | 0,000399 |

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| DMXL2 | 1,089154 | 2,13E-05 |
| GLRX5 | 1,089153 | 6,33E-05 |
| CCNI | 1,088774 | 8,28E-05 |
| RMDN1 | 1,08592 | 0,000111 |
| C9orf64 | 1,085803 | 0,000607 |
| ATP13A1 | 1,085537 | 1,94E-05 |
| SEC22B | 1,085164 | 0,000172 |
| TM7SF3 | 1,084991 | 0,000416 |
| SART1 | 1,084442 | 7,31E-05 |
| DDX41 | 1,083899 | 5,48E-06 |
| RPS23 | 1,083577 | 0,000138 |
| BCL7C | 1,082235 | 9,33E-05 |
| ATP5D | 1,080279 | 0,000243 |
| ZKSCAN8 | 1,078585 | 0,000211 |
| STUB1 | 1,076117 | 2,26E-05 |
| TRMT112 | 1,075663 | 0,00012 |
| PFKL | 1,074194 | 0,000277 |
| ZNF561 | 1,074005 | 0,000336 |
| ZFP62 | 1,07313 | 2,31E-05 |
| RPRD1A | 1,072582 | 1,22E-05 |
| YIPF5 | 1,071163 | 0,000191 |
| PYCRL | 1,070946 | 0,000925 |
| ATP5H | 1,070372 | 6,09E-05 |
| CUX1 | 1,069014 | 4,18E-05 |
| NCS1 | 1,06864 | 6,53E-05 |
| RPL26L1 | 1,067776 | 8,67E-05 |
| CSRNP2 | 1,067608 | 6,11E-05 |
| STK38 | 1,066805 | 0,000129 |
| ECD | 1,066735 | 0,000156 |
| ISCU | 1,064714 | 0,000438 |
| NBN | 1,061605 | 3,57E-06 |
| RPL13A | 1,061085 | 0,000145 |
| SHFM1 | 1,054002 | 8,33E-06 |
| CNOT8 | 1,053832 | 0,00017 |
| AP2S1 | 1,05373 | 4,45E-05 |
| TAF6 | 1,053485 | 0,000151 |
| VMP1 | 1,052211 | 0,000125 |
| DYM | 1,051617 | 8,89E-05 |
| DARS2 | 1,050279 | 2,27E-05 |
| ERBB3 | 1,049769 | 8,91E-06 |
| HNRNPH3 | 1,049654 | 0,000918 |
| TKFC | 1,049239 | 8,61E-05 |
| COX7C | 1,049056 | 0,000138 |
| MRPS34 | 1,048854 | 6,90E-05 |
| STX6 | 1,048551 | 0,000155 |
| KLHL36 | 1,047918 | 0,00013 |
| SCAF11 | 1,046306 | 4,30E-05 |
| TRIAP1 | 1,045857 | 0,000758 |
| RPL37 | 1,043718 | 0,000281 |
| TRIP6 | 1,043471 | 3,36E-05 |

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| EPB41L5 | 1,042732 | 8,90E-05 |
| MYL6 | 1,039907 | 2,12E-06 |
| GPX4 | 1,038686 | 0,000189 |
| FIS1 | 1,038179 | 9,57E-05 |
| MAZ | 1,037029 | 0,000278 |
| SYT7 | 1,035101 | 0,000305 |
| ATRAID | 1,033007 | 0,000241 |
| LNK2 | 1,032511 | 7,45E-05 |
| CELSR1 | 1,032494 | 0,000241 |
| PRKAG1 | 1,029978 | 0,000167 |
| ERGIC3 | 1,02802 | 5,54E-05 |
| DAZAP2 | 1,026149 | 0,000614 |
| PPP1R37 | 1,024715 | 0,00016 |
| MTMR3 | 1,021826 | 0,000104 |
| PSMD7 | 1,021624 | 1,89E-05 |
| MAPKAPK2 | 1,020537 | 0,000197 |
| CLCC1 | 1,020488 | 0,000427 |
| PPIG | 1,017798 | 0,000546 |
| TMEM5 | 1,017566 | 0,000203 |
| LLPH | 1,017492 | 0,000102 |
| C5orf30 | 1,016942 | 0,000284 |
| ANKIB1 | 1,016853 | 4,68E-05 |
| DDX6 | 1,014834 | 2,10E-05 |
| JAGN1 | 1,013604 | 0,000306 |
| USP6NL | 1,013537 | 0,000261 |
| ADAR | 1,013266 | 8,53E-05 |
| LDB1 | 1,01296 | 4,37E-05 |
| CBLL1 | 1,011326 | 0,000287 |
| BCAP29 | 1,011129 | 0,000784 |
| ARF5 | 1,008666 | 5,94E-05 |
| CCDC124 | 1,00752 | 0,000516 |
| BCAP31 | 1,006858 | 0,000996 |
| NDUFA1 | 1,006299 | 0,000758 |
| TOP1 | 1,00556 | 7,11E-06 |
| PI4KB | 1,005225 | 0,000218 |
| TMEM251 | 1,002075 | 0,0009 |
| BRK1 | 1,000331 | 5,65E-05 |
| TET2 | 1,00032 | 0,000861 |
| SIRT1 | 0,999291 | 0,000925 |
| ARID5B | 0,999214 | 0,000666 |
| RANBP9 | 0,998716 | 0,000198 |
| ZNF395 | 0,997365 | 0,000809 |
| CCDC90B | 0,997024 | 0,000551 |
| ANAPC16 | 0,995985 | 7,00E-05 |
| NDUFA12 | 0,992438 | 0,000994 |
| ARMC10 | 0,992373 | 0,000212 |
| CCND1 | 0,992067 | 0,000928 |
| NCBP2 | 0,991072 | 0,00012 |
| SCYL2 | 0,990839 | 8,16E-05 |
| CASP2 | 0,98981 | 0,00012 |

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| SNX27 | 0,989243 | 7,73E-05 |
| WDR73 | 0,988617 | 0,000491 |
| PWP1 | 0,988436 | 2,71E-05 |
| VPS9D1-AS | 0,988257 | 0,000855 |
| XXYL1 | 0,987506 | 0,000528 |
| MCL1 | 0,987363 | 1,47E-05 |
| CCSER2 | 0,986459 | 0,000393 |
| NELFCD | 0,985325 | 0,000261 |
| CFL1 | 0,984245 | 0,000168 |
| HNRNPA0 | 0,983309 | 0,000158 |
| ADAT1 | 0,9828 | 0,000194 |
| PRKACA | 0,978225 | 0,000639 |
| MPHOSPH | 0,977433 | 0,000414 |
| RNF114 | 0,976174 | 7,63E-05 |
| LAMB2 | 0,973888 | 0,000992 |
| PCCB | 0,973307 | 4,53E-05 |
| ESRP2 | 0,972157 | 0,000324 |
| PRR11 | 0,972111 | 0,000123 |
| SOX12 | 0,9705 | 0,001005 |
| SLC35C2 | 0,967043 | 0,000735 |
| DNASE2 | 0,965876 | 0,000177 |
| ADI1 | 0,96521 | 0,00026 |
| RBM38 | 0,960775 | 0,0005 |
| HSP90AA1 | 0,960542 | 0,000946 |
| F12 | 0,959039 | 0,000432 |
| RPL41 | 0,958777 | 0,000164 |
| AURKA | 0,95771 | 0,000345 |
| COX6B1 | 0,956655 | 0,000323 |
| TBC1D30 | 0,956442 | 0,000275 |
| ARFGAP2 | 0,956334 | 0,000372 |
| THNSL1 | 0,954383 | 0,000738 |
| C19orf53 | 0,951059 | 0,000151 |
| RPL35 | 0,948409 | 6,63E-05 |
| STX17 | 0,947849 | 0,000947 |
| SNRPC | 0,947623 | 3,34E-05 |
| PTOV1 | 0,94344 | 0,000368 |
| CIAO1 | 0,940882 | 0,000721 |
| CNOT6 | 0,940309 | 0,000362 |
| PAQR4 | 0,937091 | 0,000117 |
| PSMC3 | 0,935808 | 0,000629 |
| RPL18 | 0,932102 | 0,000226 |
| ZMYM2 | 0,931651 | 0,000259 |
| PPP1R14B | 0,931454 | 0,000786 |
| ZNF33A | 0,9156 | 0,000719 |
| CRTAP | 0,915109 | 5,62E-05 |
| EIF4B | 0,914825 | 0,000147 |
| AAAS | 0,910153 | 0,000483 |
| SEL1L | 0,909299 | 0,000111 |
| RPS11 | 0,90844 | 0,000901 |
| NDUFB2 | 0,90659 | 0,000822 |

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| SNRPF | 0,902676 | 0,000266 |
| CENPN | 0,901107 | 0,000391 |
| PPP4C | 0,898712 | 0,000353 |
| CDC42SE1 | 0,89486 | 0,000876 |
| EEF1D | 0,892502 | 0,000243 |
| C14orf166 | 0,887791 | 0,000117 |
| COPE | 0,88728 | 0,000368 |
| BPTF | 0,886972 | 0,000125 |
| NAP1L1 | 0,883449 | 0,000412 |
| FAHD1 | 0,883323 | 0,00074 |
| RFWD2 | 0,881221 | 0,000576 |
| ZMYND8 | 0,878116 | 0,000709 |
| PABPC1 | 0,877179 | 0,000197 |
| OST4 | 0,876047 | 0,000902 |
| PEBP1 | 0,875026 | 0,000168 |
| TET3 | 0,865746 | 0,000766 |
| IMP4 | 0,862398 | 0,000376 |
| CPNE3 | 0,860237 | 0,000736 |
| ATP5C1 | 0,860121 | 0,000459 |
| PTPN18 | 0,859713 | 0,000923 |
| RPL15 | 0,858116 | 0,000341 |
| RPL7A | 0,849546 | 0,000105 |
| URI1 | 0,848833 | 0,000607 |
| CTNNA1 | 0,843021 | 0,000334 |
| RPS13 | 0,842025 | 0,000324 |
| NGRN | 0,834346 | 0,000861 |
| RPSA | 0,826937 | 0,000443 |
| H3F3B | 0,816439 | 0,000351 |
| ILF2 | 0,80409 | 0,000385 |
| SEC63 | -0,79323 | 0,000796 |
| PRPF40A | -0,79846 | 0,000493 |
| NSUN2 | -0,7985 | 0,000794 |
| PARP1 | -0,81044 | 0,000554 |
| COLGALT1 | -0,81258 | 0,000746 |
| ANXA2 | -0,81683 | 0,000241 |
| CNPY2 | -0,84093 | 0,000665 |
| LTBR | -0,84164 | 0,000438 |
| NCL | -0,84846 | 0,000348 |
| TNPO1 | -0,86057 | 0,00034 |
| RPA2 | -0,86293 | 0,000866 |
| TCP1 | -0,86484 | 0,00016 |
| EIF4E | -0,8657 | 0,000353 |
| CDC123 | -0,86692 | 0,000463 |
| SKIV2L2 | -0,86804 | 0,000271 |
| NASP | -0,86962 | 0,000703 |
| RER1 | -0,87483 | 0,000484 |
| MPHOSPH8 | -0,87668 | 0,000271 |
| PUM1 | -0,87737 | 0,00045 |
| MED1 | -0,87979 | 0,000219 |
| ABR | -0,87986 | 0,000694 |

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| CHMP7 | -0,8815 | 0,000724 |
| EPS8 | -0,88236 | 0,00072 |
| ELF1 | -0,88255 | 0,000541 |
| LAMP1 | -0,89247 | 0,000764 |
| USP16 | -0,8931 | 0,000993 |
| NAA15 | -0,8936 | 0,000127 |
| MGAT2 | -0,90074 | 0,000696 |
| RRM2 | -0,90085 | 0,000137 |
| RANBP2 | -0,90088 | 0,0003 |
| MSL1 | -0,90197 | 0,000577 |
| TLK1 | -0,90503 | 0,00026 |
| TMEM123 | -0,90582 | 0,000121 |
| UBN1 | -0,90663 | 0,000466 |
| IDH3A | -0,90829 | 0,000139 |
| MIB1 | -0,90865 | 0,00016 |
| ST13 | -0,90884 | 0,00016 |
| WDR12 | -0,90984 | 0,000371 |
| TMEM33 | -0,91043 | 0,000414 |
| ARFGEF2 | -0,91382 | 0,000148 |
| ATXN10 | -0,9139 | 0,000162 |
| WNK1 | -0,91458 | 0,000561 |
| PPP1R8 | -0,91624 | 0,000392 |
| GAPVD1 | -0,91755 | 0,000182 |
| MOB1A | -0,91756 | 0,001005 |
| HBS1L | -0,91816 | 0,000293 |
| CTPS1 | -0,91862 | 0,000328 |
| PSMA1 | -0,9195 | 0,000455 |
| PHRF1 | -0,91962 | 0,000287 |
| MAP3K2 | -0,92422 | 0,00041 |
| NCLN | -0,92468 | 0,000466 |
| SDHB | -0,92739 | 0,000422 |
| HSPA13 | -0,92805 | 0,00065 |
| ADAM17 | -0,93025 | 0,00079 |
| AKR1A1 | -0,93085 | 0,000312 |
| TMEM259 | -0,93114 | 0,000259 |
| TMEM248 | -0,93129 | 0,000227 |
| RCC1 | -0,93143 | 0,000103 |
| ACBD3 | -0,93241 | 0,000414 |
| SH3D19 | -0,93384 | 0,000942 |
| TAF12 | -0,93487 | 0,000735 |
| CD2AP | -0,93621 | 0,00031 |
| TMEM230 | -0,93778 | 0,000377 |
| RNF111 | -0,93829 | 0,000696 |
| DIMT1 | -0,93899 | 0,000297 |
| RBM28 | -0,93905 | 0,000229 |
| SON | -0,94394 | 0,000295 |
| AKAP11 | -0,94573 | 6,99E-05 |
| C21orf59 | -0,94772 | 0,000447 |
| GOLM1 | -0,95057 | 0,000584 |
| EXOSC2 | -0,95087 | 0,000154 |

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| UBAC2 | -0,95106 | 0,000696 |
| CAPZA1 | -0,95172 | 0,000107 |
| COPS2 | -0,9534 | 0,000266 |
| YKT6 | -0,9586 | 0,000156 |
| CLEC16A | -0,95907 | 0,000782 |
| COPS8 | -0,95985 | 0,000793 |
| SLC6A6 | -0,96071 | 0,000107 |
| PIM3 | -0,96079 | 0,000816 |
| BNIP2 | -0,9615 | 0,000982 |
| CSNK2A1 | -0,96445 | 4,42E-05 |
| NSRP1 | -0,96486 | 0,00065 |
| SIRT7 | -0,96515 | 0,000471 |
| USP48 | -0,96569 | 0,000268 |
| ATP13A3 | -0,96728 | 0,00069 |
| CMTM6 | -0,96746 | 0,000261 |
| TYW1 | -0,97127 | 0,000566 |
| WDR43 | -0,97218 | 0,000482 |
| IPO7 | -0,97332 | 2,34E-05 |
| UBQLN2 | -0,97353 | 0,000361 |
| STRAP | -0,97366 | 0,000164 |
| AGAP1 | -0,9737 | 0,000925 |
| MAGT1 | -0,97395 | 0,000156 |
| UBQLN1 | -0,97475 | 3,18E-05 |
| DDX55 | -0,97624 | 0,000525 |
| RNGTT | -0,97764 | 0,001016 |
| OFD1 | -0,97828 | 0,000376 |
| GIGYF2 | -0,97841 | 0,000128 |
| ITSN1 | -0,97854 | 0,000403 |
| STK25 | -0,98033 | 9,17E-05 |
| HDAC1 | -0,98134 | 3,98E-05 |
| IPO9 | -0,98137 | 0,000358 |
| PPIP5K2 | -0,98337 | 0,000342 |
| FHOD1 | -0,985 | 0,00045 |
| ANKRD26 | -0,98534 | 0,000518 |
| GIN54 | -0,98717 | 0,000489 |
| ERI1 | -0,98743 | 0,000695 |
| SSX2IP | -0,98912 | 0,000681 |
| JMJD1C | -0,98955 | 0,000535 |
| LRFN4 | -0,98973 | 0,000185 |
| PTPN11 | -0,99033 | 1,45E-05 |
| SMIM12 | -0,99042 | 0,000241 |
| SLC7A6 | -0,99142 | 0,000599 |
| TPP1 | -0,99228 | 0,000738 |
| FAM49B | -0,99432 | 5,99E-05 |
| LRRFIP1 | -0,99618 | 4,46E-05 |
| AMD1 | -0,99689 | 0,000605 |
| TXNDC12 | -1,00011 | 5,69E-05 |
| NOP9 | -1,00164 | 0,000281 |
| GARS | -1,00317 | 8,20E-05 |
| ZDHHC5 | -1,00325 | 8,01E-05 |

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| NAA25 | -1,00362 | 8,14E-05 |
| NUS1 | -1,00485 | 0,000236 |
| RDX | -1,00934 | 0,000508 |
| ICE2 | -1,0098 | 0,000111 |
| ATXN2 | -1,00984 | 8,32E-05 |
| ADSS | -1,01044 | 0,000381 |
| CDC6 | -1,01294 | 0,000489 |
| SEPT7 | -1,0132 | 0,000132 |
| ABHD5 | -1,01373 | 0,000794 |
| CNP | -1,01428 | 0,000702 |
| ACD | -1,01529 | 0,000243 |
| PLEKHA6 | -1,01601 | 0,000256 |
| RSPRY1 | -1,01603 | 0,000108 |
| TBRG4 | -1,01614 | 0,000854 |
| PDCD11 | -1,01874 | 0,000334 |
| WBP11 | -1,01972 | 1,17E-05 |
| PEX5 | -1,02143 | 0,000222 |
| HSPH1 | -1,02158 | 3,01E-05 |
| RPF2 | -1,02403 | 0,000352 |
| PICK1 | -1,02491 | 0,000479 |
| SNRNP40 | -1,02646 | 0,000192 |
| MAP2K1 | -1,02766 | 7,55E-05 |
| DESI1 | -1,02904 | 0,000155 |
| BCCIP | -1,0301 | 4,73E-05 |
| RAB10 | -1,03029 | 4,61E-06 |
| NOLC1 | -1,03214 | 2,29E-05 |
| FAM111B | -1,03389 | 0,000235 |
| HSPA14 | -1,03407 | 1,80E-05 |
| APEX2 | -1,03475 | 0,000295 |
| RAPGEF6 | -1,03719 | 0,000221 |
| UBR4 | -1,03823 | 0,000631 |
| MCMBP | -1,03854 | 3,79E-05 |
| DNAJC30 | -1,0402 | 0,000317 |
| ADO | -1,04108 | 0,000736 |
| SHROOM3 | -1,04131 | 0,000396 |
| MFAP1 | -1,04158 | 0,000651 |
| ERLIN2 | -1,04245 | 8,38E-05 |
| ENTPD4 | -1,04356 | 0,000422 |
| COPS7B | -1,04377 | 0,00029 |
| NME6 | -1,04652 | 0,000561 |
| EIF4G3 | -1,04698 | 9,03E-06 |
| GTF2H1 | -1,05041 | 5,26E-05 |
| RLF | -1,05122 | 0,000172 |
| DHX30 | -1,05124 | 4,37E-05 |
| HELLS | -1,05172 | 0,000222 |
| REXO1 | -1,05177 | 8,24E-05 |
| PDIA3 | -1,05198 | 3,31E-06 |
| SPG7 | -1,05235 | 0,000202 |
| ATP2B1 | -1,0527 | 4,65E-05 |
| BLOC1S6 | -1,05297 | 0,00017 |

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| SPRED2 | -1,05329 | 7,84E-05 |
| UHRF1 | -1,05352 | 0,000899 |
| EIF3D | -1,05723 | 0,0001 |
| MARS2 | -1,05748 | 0,000401 |
| INTS7 | -1,0598 | 0,000239 |
| APTX | -1,06446 | 0,000335 |
| HIPK3 | -1,06493 | 0,000165 |
| MPRIP | -1,06579 | 5,56E-05 |
| DCAKD | -1,06708 | 0,00087 |
| PGM2 | -1,0679 | 0,000118 |
| BROX | -1,06967 | 2,77E-05 |
| NUFIP2 | -1,06993 | 7,14E-06 |
| COASY | -1,07294 | 2,21E-05 |
| KIAA0368 | -1,07379 | 5,87E-05 |
| LPGAT1 | -1,07439 | 0,000151 |
| TFAM | -1,07532 | 1,08E-05 |
| FAM155B | -1,07745 | 0,000855 |
| ABHD17B | -1,07976 | 0,00069 |
| MAP7 | -1,08181 | 2,24E-05 |
| FAM111A | -1,08214 | 0,000134 |
| RNF216P1 | -1,08595 | 0,00094 |
| CUL5 | -1,08805 | 8,43E-05 |
| ARHGAP11 | -1,08819 | 3,74E-05 |
| PLEKHG2 | -1,08848 | 0,000167 |
| EPT1 | -1,08863 | 0,000104 |
| ZNFX1 | -1,09156 | 0,000951 |
| VPS37A | -1,09164 | 6,20E-05 |
| MAGOH | -1,09236 | 0,000128 |
| CHEK1 | -1,09241 | 1,40E-05 |
| PROSC | -1,09379 | 6,82E-05 |
| TMEM2 | -1,09548 | 0,000271 |
| NOTCH1 | -1,09562 | 0,000133 |
| DES12 | -1,09576 | 4,80E-05 |
| PSMD1 | -1,09676 | 0,000269 |
| GLYR1 | -1,09983 | 5,06E-05 |
| ST7 | -1,10218 | 0,000947 |
| NUDT19 | -1,10249 | 0,000366 |
| PPTC7 | -1,10252 | 0,000273 |
| PCNA | -1,10259 | 1,85E-06 |
| ERMP1 | -1,10286 | 0,000551 |
| STXBP5 | -1,10568 | 0,000917 |
| CEP170 | -1,10641 | 8,14E-05 |
| AP2B1 | -1,10685 | 1,51E-05 |
| DOK4 | -1,10692 | 0,000205 |
| TMF1 | -1,10737 | 0,000365 |
| MGA | -1,10772 | 6,29E-05 |
| ACBD5 | -1,10784 | 0,000453 |
| YARS | -1,10942 | 0,000157 |
| STK24 | -1,11129 | 4,09E-06 |
| ZNF367 | -1,11181 | 0,000246 |

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| EMC3-AS1 | -1,11242 | 0,000286 |
| LACTB2 | -1,11336 | 0,000891 |
| SLC4A7 | -1,11632 | 0,000549 |
| INTS10 | -1,11785 | 0,000126 |
| CHAF1A | -1,11858 | 8,14E-05 |
| LMNB2 | -1,11913 | 0,00062 |
| EPS15 | -1,12044 | 5,08E-05 |
| CASC5 | -1,12083 | 2,63E-05 |
| MAFK | -1,12117 | 7,34E-05 |
| GFM1 | -1,1214 | 5,14E-06 |
| PARVB | -1,1218 | 0,000328 |
| CYSTM1 | -1,12293 | 0,000854 |
| TRABD | -1,12361 | 3,65E-06 |
| AASDHPPT | -1,12443 | 0,000109 |
| MANF | -1,12683 | 2,36E-06 |
| HAUS5 | -1,12699 | 0,000373 |
| PPP2CB | -1,12707 | 3,79E-05 |
| PRPS1 | -1,12796 | 0,000218 |
| MPP6 | -1,12834 | 0,000203 |
| CMTM4 | -1,12844 | 1,34E-06 |
| PLP2 | -1,12879 | 1,18E-05 |
| NDC1 | -1,13031 | 1,38E-06 |
| EBLN3 | -1,13135 | 0,000278 |
| SHCBP1 | -1,13206 | 2,68E-05 |
| MLX | -1,13237 | 2,12E-06 |
| SBDSP1 | -1,13307 | 9,41E-05 |
| CBY1 | -1,13417 | 0,000329 |
| PRKAA1 | -1,13426 | 0,000663 |
| DNAJA1 | -1,13537 | 0,000237 |
| LONP2 | -1,13597 | 1,01E-05 |
| ITPR3 | -1,13599 | 4,54E-05 |
| M6PR | -1,13616 | 7,78E-05 |
| PIIP5K1 | -1,138 | 0,000151 |
| GNA11 | -1,13824 | 7,80E-06 |
| HIATL1 | -1,13932 | 0,000191 |
| SBNO2 | -1,1398 | 1,95E-05 |
| SNX14 | -1,14031 | 4,01E-05 |
| PITPNB | -1,14111 | 3,17E-05 |
| TBC1D20 | -1,14134 | 3,06E-05 |
| CNDP2 | -1,14237 | 4,56E-05 |
| HCCS | -1,14476 | 0,000346 |
| ITGB1 | -1,14669 | 0,000154 |
| PPP2R2A | -1,14901 | 2,65E-06 |
| NDUF4F4 | -1,15024 | 0,000201 |
| AK2 | -1,15144 | 3,20E-07 |
| PYCR2 | -1,15168 | 0,000921 |
| GTPBP1 | -1,15198 | 0,000226 |
| TOPBP1 | -1,15237 | 2,78E-06 |
| FBXO41 | -1,15249 | 0,000373 |
| PSMB2 | -1,15249 | 3,47E-07 |

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| TMEM51 | -1,1542 | 0,000305 |
| RPAP1 | -1,15591 | 2,52E-05 |
| HERC2 | -1,1561 | 2,83E-06 |
| WDR36 | -1,15705 | 0,000108 |
| DCUN1D5 | -1,15809 | 9,38E-06 |
| CTNS | -1,15819 | 0,000224 |
| MALSU1 | -1,1589 | 0,000948 |
| ABCC1 | -1,16182 | 3,99E-06 |
| EMC1 | -1,16223 | 1,25E-06 |
| SERTAD2 | -1,16239 | 1,22E-05 |
| CAPZA2 | -1,16336 | 0,000125 |
| MICA | -1,16483 | 0,000375 |
| BTAF1 | -1,16555 | 0,000156 |
| MRPS30 | -1,16602 | 2,62E-05 |
| NCKAP1 | -1,16632 | 1,24E-06 |
| MCPH1 | -1,16644 | 7,40E-05 |
| PGM3 | -1,16836 | 0,00067 |
| CAP1 | -1,16933 | 9,72E-06 |
| ARHGEF7 | -1,16958 | 0,000369 |
| ZMPSTE24 | -1,17015 | 4,14E-05 |
| TLN1 | -1,17097 | 0,000329 |
| SLC41A1 | -1,17288 | 4,55E-05 |
| FUCA2 | -1,17336 | 0,000221 |
| PPFIBP1 | -1,17371 | 7,22E-06 |
| SPEN | -1,17581 | 0,00011 |
| DTX2 | -1,17607 | 0,000401 |
| MELK | -1,17808 | 8,69E-06 |
| ORC1 | -1,17847 | 6,68E-05 |
| PTPRK | -1,17952 | 2,29E-06 |
| NUDT15 | -1,17969 | 0,000185 |
| CCBL2 | -1,18151 | 6,23E-05 |
| FAM210A | -1,18151 | 0,000856 |
| GPD2 | -1,18267 | 1,13E-05 |
| SKP2 | -1,18285 | 1,00E-06 |
| ZFP36 | -1,18329 | 0,000193 |
| DTL | -1,18399 | 1,93E-05 |
| PDXP | -1,18477 | 0,000738 |
| POLK | -1,18522 | 0,000432 |
| MLXIP | -1,1855 | 1,25E-06 |
| APP | -1,18555 | 5,60E-07 |
| ARID1B | -1,18641 | 3,96E-05 |
| IKBKAP | -1,18714 | 8,71E-07 |
| CCM2 | -1,18775 | 0,000218 |
| REL | -1,18932 | 8,80E-05 |
| L3MBTL2 | -1,18966 | 3,50E-05 |
| TTLL12 | -1,19317 | 2,59E-06 |
| GCLC | -1,19475 | 1,22E-05 |
| KANK1 | -1,19544 | 0,000239 |
| PAFAH1B2 | -1,1963 | 2,31E-05 |
| UPF3A | -1,19676 | 0,000151 |

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| CORO1C | -1,19875 | 6,53E-07 |
| CPPED1 | -1,19881 | 0,000159 |
| PTER | -1,19936 | 4,88E-05 |
| SORBS3 | -1,20038 | 0,000802 |
| MALT1 | -1,20105 | 7,61E-06 |
| MIER2 | -1,20111 | 0,000271 |
| STK38L | -1,20305 | 1,63E-05 |
| ELOVL6 | -1,20518 | 0,000437 |
| EXOSC9 | -1,20597 | 9,69E-06 |
| LRCH1 | -1,20809 | 1,05E-05 |
| UHL3 | -1,20974 | 0,00062 |
| MAD2L1 | -1,21056 | 3,26E-06 |
| ABCD3 | -1,21205 | 6,59E-06 |
| PELO | -1,21222 | 1,74E-05 |
| KATNBL1 | -1,21283 | 0,000352 |
| LRRC42 | -1,21403 | 1,04E-05 |
| KIAA0232 | -1,21479 | 4,94E-06 |
| AKIRIN1 | -1,21624 | 1,88E-06 |
| TBC1D14 | -1,21657 | 1,56E-07 |
| FOXRED2 | -1,21788 | 0,000614 |
| NETO2 | -1,21882 | 1,38E-07 |
| SPATA5L1 | -1,21887 | 5,61E-05 |
| PANK4 | -1,21939 | 0,00019 |
| SNTB1 | -1,22168 | 2,85E-05 |
| CHAF1B | -1,22181 | 3,04E-05 |
| HEXB | -1,22182 | 3,29E-05 |
| AKIRIN2 | -1,22271 | 0,000234 |
| CCT8 | -1,2232 | 5,16E-08 |
| LRRC47 | -1,22356 | 4,56E-05 |
| NUP50 | -1,22436 | 2,39E-06 |
| LNPEP | -1,22462 | 0,000331 |
| ARHGEF39 | -1,22773 | 0,000671 |
| GEMIN4 | -1,22911 | 2,96E-05 |
| UBE3A | -1,22965 | 2,62E-07 |
| TOMM34 | -1,23038 | 6,11E-07 |
| USP40 | -1,23198 | 2,36E-05 |
| PAQR8 | -1,23388 | 0,000983 |
| GXYLT1 | -1,23602 | 1,66E-05 |
| ZNF532 | -1,23614 | 0,000651 |
| SECISBP2L | -1,23678 | 0,000752 |
| URB1 | -1,23787 | 5,84E-07 |
| MAK16 | -1,23877 | 0,000455 |
| UTP11L | -1,24239 | 2,79E-06 |
| TWF2 | -1,24311 | 0,000163 |
| C12orf4 | -1,24438 | 0,000282 |
| ARHGEF18 | -1,24511 | 1,74E-05 |
| KAT6A | -1,24569 | 3,20E-05 |
| FTO | -1,24637 | 9,41E-06 |
| RAB3GAP2 | -1,24714 | 9,20E-06 |
| FNDC3B | -1,24739 | 5,41E-07 |

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| TTLL4 | -1,24783 | 2,27E-05 |
| LHFPL2 | -1,2489 | 1,11E-05 |
| ADRBK2 | -1,24974 | 3,08E-05 |
| NUP155 | -1,2505 | 5,97E-06 |
| NUPL1 | -1,25332 | 2,12E-05 |
| DHDDS | -1,25334 | 0,000614 |
| LPCAT1 | -1,25348 | 8,35E-07 |
| SPATS2L | -1,25378 | 3,38E-06 |
| IRF6 | -1,2539 | 8,94E-05 |
| FAAP20 | -1,25489 | 1,95E-05 |
| TMEM59 | -1,25788 | 0,000155 |
| ICMT | -1,25931 | 1,28E-06 |
| BAP1 | -1,25952 | 3,42E-06 |
| EZR | -1,25986 | 0,000124 |
| CYB5R3 | -1,26033 | 6,06E-05 |
| CLDN4 | -1,26125 | 0,000173 |
| DNA2 | -1,26171 | 8,34E-05 |
| TOM1L2 | -1,26207 | 0,000298 |
| NIPA1 | -1,2629 | 2,29E-05 |
| TAF5L | -1,26392 | 1,60E-06 |
| POR | -1,26461 | 2,55E-05 |
| SNX9 | -1,26531 | 5,21E-06 |
| ADIPOR2 | -1,26631 | 7,87E-08 |
| EYA3 | -1,26736 | 2,16E-05 |
| DCAF12 | -1,26776 | 1,20E-06 |
| MLKL | -1,26842 | 3,49E-05 |
| DVL1 | -1,26964 | 1,89E-06 |
| MARCKS | -1,27056 | 1,31E-06 |
| RBBP8 | -1,27083 | 8,29E-05 |
| APPL1 | -1,2714 | 1,67E-07 |
| SAMD8 | -1,27197 | 0,000428 |
| GART | -1,27299 | 3,37E-08 |
| ARHGAP18 | -1,2734 | 0,000145 |
| ST6GALNA4 | -1,27352 | 0,000276 |
| CBR1 | -1,27463 | 1,93E-05 |
| DIEXF | -1,27474 | 0,000291 |
| SNAPC3 | -1,27535 | 0,000418 |
| AKIP1 | -1,27686 | 0,000139 |
| LTV1 | -1,27692 | 0,000538 |
| EPB41 | -1,27806 | 1,20E-05 |
| MTF1 | -1,27827 | 1,17E-05 |
| ILKAP | -1,27835 | 0,000203 |
| ATP1B1 | -1,27967 | 8,45E-07 |
| PEX14 | -1,27987 | 2,81E-05 |
| SLC30A1 | -1,28011 | 0,000102 |
| NXN | -1,28046 | 0,000209 |
| SF3A3 | -1,28178 | 6,41E-05 |
| TMUB1 | -1,28193 | 1,62E-06 |
| RGP1 | -1,28269 | 0,000264 |
| MAPKAPK3 | -1,28443 | 3,96E-05 |

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| MKLN1 | -1,28459 | 8,89E-08 |
| STARD3NL | -1,285 | 0,000601 |
| PRPF4 | -1,28599 | 1,00E-07 |
| GPATCH11 | -1,28648 | 0,000973 |
| SDC1 | -1,28864 | 6,98E-07 |
| KCTD9 | -1,29038 | 7,01E-06 |
| SLC26A6 | -1,29072 | 6,85E-06 |
| PDPR | -1,29102 | 1,22E-06 |
| COA7 | -1,29155 | 0,000124 |
| FAM122A | -1,29183 | 9,95E-05 |
| MED4 | -1,29202 | 8,34E-05 |
| TOMM40L | -1,29226 | 0,000102 |
| SLC35A2 | -1,29244 | 4,46E-06 |
| SPTY2D1 | -1,29436 | 2,11E-05 |
| BRI3BP | -1,29517 | 3,10E-05 |
| PPIL4 | -1,29613 | 1,99E-06 |
| JOSD1 | -1,29673 | 7,70E-08 |
| ago-03 | -1,29956 | 0,000376 |
| TRAK1 | -1,3 | 2,46E-06 |
| ATP6V1B2 | -1,30003 | 1,64E-07 |
| MAP2K3 | -1,30027 | 0,000348 |
| SLBP | -1,30041 | 6,24E-07 |
| SPTBN1 | -1,30203 | 9,92E-09 |
| ZYX | -1,30308 | 1,88E-05 |
| EDRF1 | -1,30404 | 4,22E-05 |
| NUMBL | -1,30405 | 2,84E-05 |
| KDM4C | -1,30625 | 0,000234 |
| NECAP1 | -1,30641 | 1,11E-06 |
| PTPN14 | -1,30662 | 0,000743 |
| CCT6A | -1,30668 | 3,59E-09 |
| DDI2 | -1,3081 | 0,000702 |
| GOSR1 | -1,3098 | 1,28E-06 |
| LDHA | -1,30993 | 5,54E-08 |
| TEAD1 | -1,31015 | 1,67E-06 |
| STK17B | -1,31079 | 0,000519 |
| PKP2 | -1,31137 | 0,000855 |
| ROCK2 | -1,31138 | 7,69E-07 |
| CALU | -1,31161 | 5,66E-08 |
| ACADVL | -1,3122 | 0,000437 |
| SEC23A | -1,31279 | 9,55E-06 |
| DNTTIP2 | -1,31311 | 2,85E-07 |
| ATP13A2 | -1,31438 | 0,000147 |
| LRRC8B | -1,31586 | 3,21E-06 |
| WDFY1 | -1,31619 | 3,59E-07 |
| NF2 | -1,31632 | 3,76E-05 |
| TBPL1 | -1,31716 | 9,41E-05 |
| SMCR8 | -1,31947 | 6,41E-08 |
| MESDC1 | -1,3209 | 2,34E-05 |
| TNFRSF21 | -1,32206 | 2,44E-06 |
| HIGD1A | -1,32288 | 8,33E-07 |

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| ACADM | -1,32685 | 0,000287 |
| USPL1 | -1,32799 | 0,000591 |
| ZBTB38 | -1,32827 | 3,06E-06 |
| FZD5 | -1,32897 | 7,36E-06 |
| INF2 | -1,33073 | 6,87E-06 |
| BIRC6 | -1,33193 | 9,36E-07 |
| OTUD4 | -1,33209 | 5,34E-06 |
| MANEAL | -1,33239 | 2,16E-05 |
| RNF38 | -1,33525 | 8,47E-06 |
| C6orf132 | -1,33602 | 8,10E-06 |
| ZNF770 | -1,33616 | 0,000229 |
| NPRL2 | -1,33631 | 2,19E-05 |
| LAD1 | -1,33685 | 2,89E-06 |
| TXLNG | -1,33706 | 4,24E-06 |
| KCNH2 | -1,33838 | 0,000864 |
| UFL1 | -1,33853 | 4,80E-05 |
| LIMA1 | -1,34137 | 0,000745 |
| SIRT2 | -1,34157 | 0,00035 |
| RRP7A | -1,34226 | 3,66E-08 |
| TST | -1,34313 | 0,000102 |
| C6orf203 | -1,34339 | 0,000355 |
| DCAF17 | -1,34554 | 0,000152 |
| PTDSS2 | -1,34958 | 0,000915 |
| SLC41A2 | -1,35081 | 0,000469 |
| EPRS | -1,3515 | 6,54E-10 |
| ADCY3 | -1,35215 | 1,25E-07 |
| PHKA1 | -1,35469 | 7,68E-06 |
| SEPT2 | -1,35545 | 1,56E-07 |
| ACAP3 | -1,35552 | 8,31E-05 |
| LCOR | -1,35734 | 4,20E-06 |
| KLHL2 | -1,35746 | 0,000274 |
| TYW3 | -1,3576 | 7,36E-06 |
| KDM5C | -1,35882 | 4,68E-09 |
| KPNA6 | -1,36079 | 2,15E-08 |
| BUB1B | -1,36099 | 0,000184 |
| XPNPEP3 | -1,36299 | 4,33E-07 |
| PFKFB3 | -1,36331 | 0,000706 |
| MAP3K10 | -1,36333 | 4,30E-05 |
| AEBP2 | -1,36394 | 1,45E-05 |
| FUCA1 | -1,364 | 0,000159 |
| BTBD3 | -1,3654 | 2,34E-06 |
| ZFR | -1,36548 | 6,31E-06 |
| KIAA0020 | -1,36724 | 6,88E-05 |
| ZNF106 | -1,36804 | 3,80E-09 |
| SLC18B1 | -1,36884 | 0,000337 |
| PPARGC1B | -1,36887 | 0,000835 |
| NF1 | -1,36978 | 7,92E-06 |
| WRN | -1,37011 | 0,000128 |
| RAB29 | -1,37012 | 8,89E-05 |
| MED8 | -1,37093 | 1,63E-05 |

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| UTP6 | -1,37169 | 1,64E-07 |
| XPO4 | -1,3724 | 8,60E-09 |
| FSCN1 | -1,37291 | 6,35E-05 |
| ARFGEF3 | -1,37356 | 0,000181 |
| FOXN2 | -1,374 | 0,000435 |
| HSF2 | -1,37644 | 2,01E-05 |
| ME1 | -1,37708 | 0,000452 |
| FOXO3 | -1,37727 | 0,000845 |
| CHAMP1 | -1,37727 | 9,06E-06 |
| ASCC3 | -1,3776 | 8,40E-05 |
| PIDD1 | -1,37784 | 8,34E-05 |
| NDUFAF1 | -1,37857 | 0,00037 |
| MORC3 | -1,37874 | 0,000158 |
| TAP2 | -1,38066 | 0,000173 |
| MTRR | -1,38104 | 0,000227 |
| EFNA5 | -1,38138 | 0,000561 |
| DSCR3 | -1,38158 | 3,23E-06 |
| RUNX1 | -1,38273 | 4,53E-06 |
| ACAT1 | -1,38279 | 0,000745 |
| MTRF1L | -1,38457 | 2,94E-06 |
| TMEM120E | -1,38513 | 2,25E-05 |
| SSH2 | -1,38543 | 2,00E-05 |
| NIPA2 | -1,38578 | 1,18E-06 |
| ANLN | -1,38584 | 4,19E-10 |
| DDX21 | -1,38704 | 2,35E-07 |
| POM121 | -1,38736 | 3,26E-05 |
| PTS | -1,38794 | 0,000296 |
| CLCN3 | -1,38875 | 2,09E-09 |
| DDX52 | -1,38898 | 8,04E-08 |
| NBEAL2 | -1,39052 | 5,69E-06 |
| LRRC41 | -1,39116 | 3,77E-07 |
| ACACA | -1,39208 | 1,04E-09 |
| VPS37B | -1,39241 | 5,60E-08 |
| ATP8B1 | -1,39441 | 2,53E-07 |
| YRDC | -1,3952 | 2,74E-06 |
| PALLD | -1,39567 | 0,000763 |
| ZCCHC7 | -1,39567 | 9,02E-06 |
| LIMD1 | -1,39633 | 3,34E-06 |
| TMEM201 | -1,39682 | 7,96E-05 |
| SLC45A4 | -1,39688 | 0,000145 |
| FBXO28 | -1,39968 | 8,56E-05 |
| ELOVL5 | -1,39998 | 2,92E-10 |
| RNF219 | -1,40039 | 8,33E-07 |
| BET1L | -1,40253 | 4,22E-07 |
| RAD54L | -1,40352 | 3,10E-05 |
| CARS2 | -1,40365 | 3,51E-07 |
| CTDSPL2 | -1,40903 | 2,49E-06 |
| PHF19 | -1,40927 | 1,65E-07 |
| CFAP97 | -1,41019 | 2,23E-06 |
| PDDC1 | -1,41121 | 0,000172 |

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| IPO11 | -1,41222 | 3,07E-06 |
| YIPF6 | -1,41283 | 3,83E-07 |
| ANKRD10 | -1,41314 | 0,000393 |
| SLC23A2 | -1,41378 | 7,63E-07 |
| BAG4 | -1,41397 | 3,81E-06 |
| PIM2 | -1,41851 | 5,77E-05 |
| FIGNL1 | -1,41979 | 4,99E-07 |
| BAZ2A | -1,42 | 1,66E-09 |
| PDP1 | -1,42122 | 3,99E-07 |
| SIPA1L3 | -1,42355 | 1,62E-06 |
| PPM1F | -1,42514 | 0,000855 |
| NUP98 | -1,42616 | 1,66E-09 |
| NGLY1 | -1,42667 | 1,12E-06 |
| SH3KBP1 | -1,42985 | 5,69E-05 |
| C9orf40 | -1,43034 | 8,50E-06 |
| SRSF4 | -1,43057 | 4,93E-08 |
| PPP1R26 | -1,43125 | 1,72E-07 |
| SLC39A10 | -1,43155 | 1,78E-06 |
| FAM8A1 | -1,43305 | 7,32E-05 |
| DOCK1 | -1,43315 | 2,48E-06 |
| DEDD2 | -1,43338 | 9,20E-05 |
| TRIP12 | -1,4356 | 5,13E-05 |
| SMC5 | -1,43736 | 4,65E-08 |
| ANKRD17 | -1,43746 | 1,18E-09 |
| PTPN3 | -1,43918 | 5,57E-08 |
| RGS19 | -1,44078 | 0,000786 |
| RHPN2 | -1,44156 | 4,66E-07 |
| CHUK | -1,44181 | 1,88E-07 |
| CMIP | -1,4421 | 9,22E-07 |
| DNAJC16 | -1,44277 | 8,23E-06 |
| VKORC1L1 | -1,44302 | 5,03E-10 |
| PHF8 | -1,44334 | 1,00E-07 |
| USP24 | -1,44364 | 4,12E-08 |
| MCM8 | -1,44445 | 3,21E-08 |
| USP45 | -1,44601 | 0,000244 |
| IRF1 | -1,44751 | 0,000296 |
| TEX30 | -1,44824 | 0,000228 |
| PRMT3 | -1,44998 | 4,28E-05 |
| XYLB | -1,45031 | 0,000446 |
| DR1 | -1,4504 | 9,37E-09 |
| ADCY7 | -1,45251 | 0,000261 |
| TXNRD1 | -1,45352 | 5,46E-05 |
| CASP8AP2 | -1,45398 | 1,11E-05 |
| PRELID2 | -1,45438 | 4,06E-05 |
| CCDC51 | -1,45631 | 3,77E-07 |
| RABGGTB | -1,45639 | 0,000209 |
| OSGEP | -1,4572 | 5,10E-06 |
| MTUS1 | -1,4582 | 3,00E-07 |
| PAPD5 | -1,46308 | 8,10E-08 |
| NFAT5 | -1,46312 | 0,000158 |

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| JAG2 | -1,4644 | 2,51E-07 |
| NUDC | -1,46585 | 1,44E-05 |
| FARP2 | -1,46781 | 0,000118 |
| TMEM180 | -1,46794 | 5,01E-05 |
| RBM26 | -1,46828 | 9,86E-08 |
| KIAA0754 | -1,46878 | 0,00062 |
| CTSB | -1,47043 | 6,45E-05 |
| GALK2 | -1,47146 | 5,28E-06 |
| TRMT6 | -1,47287 | 7,96E-09 |
| SLC25A19 | -1,47342 | 5,64E-06 |
| NUP133 | -1,47354 | 1,72E-09 |
| PMAIP1 | -1,47365 | 0,000673 |
| SPAG9 | -1,47388 | 7,00E-08 |
| PTPRJ | -1,47774 | 7,88E-07 |
| STAG3L2 | -1,481 | 0,000325 |
| TRMU | -1,48116 | 1,09E-06 |
| CAB39 | -1,4813 | 6,85E-10 |
| RAD54L2 | -1,48238 | 5,54E-05 |
| MTMR2 | -1,4828 | 1,34E-06 |
| RPL23AP53 | -1,48355 | 0,000695 |
| ATG16L1 | -1,4842 | 1,91E-07 |
| ARFGEF1 | -1,4868 | 1,38E-08 |
| MANEA | -1,48684 | 0,00026 |
| TIPARP | -1,48842 | 4,06E-06 |
| TUBGCP3 | -1,48921 | 1,67E-08 |
| UTP14C | -1,49021 | 6,01E-06 |
| SLC20A2 | -1,49104 | 2,78E-09 |
| ABHD10 | -1,49144 | 6,04E-07 |
| CLCN5 | -1,49236 | 4,58E-06 |
| VCL | -1,4927 | 3,06E-05 |
| RIF1 | -1,49361 | 1,06E-07 |
| P3H1 | -1,49445 | 4,17E-06 |
| NAB1 | -1,49787 | 2,84E-05 |
| ARIH2 | -1,4985 | 2,29E-10 |
| NABP1 | -1,49917 | 1,69E-05 |
| INTS6 | -1,50039 | 1,49E-05 |
| CMPK1 | -1,50092 | 4,34E-06 |
| CNOT1 | -1,50123 | 1,16E-09 |
| MINK1 | -1,50294 | 1,09E-05 |
| NPAS2 | -1,50309 | 0,000589 |
| KDM6A | -1,50376 | 2,53E-05 |
| COL4A3BP | -1,50554 | 4,01E-08 |
| DIS3 | -1,50609 | 1,04E-09 |
| FAR1 | -1,50914 | 2,76E-06 |
| KPNA3 | -1,50944 | 5,07E-08 |
| EDEM1 | -1,50949 | 2,76E-05 |
| KLF13 | -1,51 | 1,33E-09 |
| TANGO6 | -1,51087 | 9,65E-06 |
| ENPP4 | -1,51125 | 0,000673 |
| TRIM44 | -1,51132 | 1,60E-10 |

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| PIGW | -1,51234 | 5,64E-06 |
| DNAJC24 | -1,51249 | 0,000167 |
| TLN2 | -1,51501 | 0,000535 |
| LRRC16A | -1,51667 | 2,16E-05 |
| FOXK1 | -1,51767 | 4,60E-08 |
| SUZ12 | -1,51863 | 2,08E-11 |
| NFIA | -1,51865 | 3,03E-06 |
| CUL4A | -1,51963 | 3,72E-09 |
| SLC5A3 | -1,51992 | 3,46E-07 |
| PIBF1 | -1,52059 | 0,000358 |
| CBFB | -1,5214 | 5,23E-10 |
| VPS13C | -1,52296 | 4,42E-06 |
| NKTR | -1,52595 | 6,11E-05 |
| PFKFB2 | -1,52716 | 2,44E-07 |
| TOE1 | -1,52839 | 3,87E-05 |
| HIAT1 | -1,52856 | 3,88E-08 |
| PCSK7 | -1,53002 | 4,91E-05 |
| MIEF1 | -1,53136 | 9,36E-08 |
| C1GALT1 | -1,53156 | 2,35E-07 |
| FNTA | -1,53166 | 1,11E-08 |
| AGL | -1,53415 | 1,28E-09 |
| MAP7D1 | -1,53575 | 4,27E-06 |
| ITGB4 | -1,5359 | 9,41E-07 |
| API5 | -1,53709 | 7,01E-11 |
| RCAN1 | -1,54013 | 0,000466 |
| TPCN1 | -1,54029 | 2,12E-08 |
| RMDN3 | -1,54096 | 1,34E-06 |
| RNF126 | -1,54156 | 4,12E-06 |
| NEIL2 | -1,54255 | 1,73E-07 |
| DFFA | -1,54363 | 7,40E-10 |
| SLC16A1 | -1,54462 | 3,76E-10 |
| TPP2 | -1,54611 | 2,98E-08 |
| DEGS1 | -1,55233 | 8,17E-06 |
| SERPINB1 | -1,55316 | 5,02E-09 |
| IFNGR2 | -1,55389 | 1,20E-05 |
| ZNF827 | -1,55472 | 0,000559 |
| MON1A | -1,55553 | 8,01E-05 |
| FAM83G | -1,55569 | 3,63E-08 |
| TMED4 | -1,55809 | 3,13E-10 |
| FNIP1 | -1,5627 | 3,87E-09 |
| MYO19 | -1,56394 | 1,79E-10 |
| TERF2 | -1,56415 | 1,41E-08 |
| CASC4 | -1,56461 | 3,61E-08 |
| GATA6 | -1,56503 | 0,000284 |
| HK2 | -1,56583 | 2,16E-05 |
| USB1 | -1,56795 | 2,05E-05 |
| KIAA1468 | -1,56913 | 6,81E-07 |
| NAPEPLD | -1,57266 | 5,30E-05 |
| MYO5B | -1,57366 | 9,72E-09 |
| GCFC2 | -1,57748 | 0,00053 |

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| PLEKHA1 | -1,57817 | 1,32E-06 |
| ERO1A | -1,58101 | 4,38E-09 |
| NRARP | -1,58151 | 0,000167 |
| PP7080 | -1,58234 | 2,09E-07 |
| PLSCR1 | -1,58387 | 0,000438 |
| FAM213B | -1,58411 | 2,21E-08 |
| RNPEPL1 | -1,58434 | 1,21E-05 |
| RHOBTB2 | -1,58582 | 0,000238 |
| GNPDA1 | -1,58886 | 1,12E-07 |
| NEDD4 | -1,58916 | 4,74E-09 |
| TCIRG1 | -1,58922 | 1,66E-05 |
| ADGRG1 | -1,58993 | 3,14E-07 |
| FUT10 | -1,59098 | 0,000737 |
| CC2D1B | -1,59284 | 6,89E-10 |
| SUGT1 | -1,59358 | 5,11E-08 |
| SIM2 | -1,59653 | 0,000258 |
| TCF20 | -1,59981 | 5,50E-11 |
| STK4 | -1,60093 | 5,26E-11 |
| SHROOM1 | -1,60247 | 4,92E-06 |
| S100A14 | -1,60297 | 3,41E-06 |
| URB2 | -1,60509 | 3,73E-10 |
| SNRK | -1,60565 | 5,64E-08 |
| JMJD6 | -1,6061 | 2,01E-05 |
| TTC33 | -1,60683 | 0,000116 |
| CPD | -1,60755 | 4,06E-10 |
| LGALSL | -1,60765 | 1,18E-06 |
| CCNE1 | -1,60927 | 0,000137 |
| DONSON | -1,61527 | 9,25E-08 |
| JRKL | -1,61654 | 0,000918 |
| ZBED6CL | -1,61864 | 0,000108 |
| SHC1 | -1,61874 | 1,98E-12 |
| PHIP | -1,61935 | 5,54E-10 |
| CLSPN | -1,62015 | 1,19E-11 |
| SFN | -1,62153 | 9,06E-06 |
| SLC25A25 | -1,62313 | 4,94E-05 |
| USP9X | -1,62328 | 2,67E-08 |
| CTSH | -1,62387 | 1,98E-05 |
| UBA3 | -1,62716 | 4,24E-08 |
| HAUS6 | -1,62775 | 1,60E-10 |
| CSPP1 | -1,62863 | 1,95E-05 |
| DNMBP | -1,63007 | 5,69E-05 |
| RTCA | -1,63082 | 8,08E-10 |
| RPS6KA1 | -1,63245 | 7,23E-06 |
| GOLT1A | -1,63442 | 5,18E-06 |
| KIF1B | -1,63482 | 1,36E-07 |
| POMZP3 | -1,63692 | 0,000129 |
| EXT1 | -1,63755 | 4,57E-07 |
| NOL9 | -1,64083 | 9,09E-09 |
| IL6ST | -1,64093 | 1,12E-08 |
| SASS6 | -1,64123 | 0,000294 |

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| PDZD8 | -1,64434 | 1,34E-07 |
| FAM76A | -1,64501 | 0,000863 |
| U2SURP | -1,64578 | 1,04E-12 |
| CLN5 | -1,64813 | 0,000551 |
| SEPN1 | -1,64833 | 1,52E-10 |
| SLC12A8 | -1,65017 | 2,97E-06 |
| MAPK12 | -1,65036 | 7,87E-06 |
| DHRS1 | -1,65265 | 0,000402 |
| TMED8 | -1,6539 | 0,000988 |
| HSPG2 | -1,65887 | 3,90E-07 |
| PDP2 | -1,66204 | 5,96E-09 |
| GMDS | -1,66371 | 2,29E-10 |
| FUT11 | -1,66533 | 8,39E-05 |
| VPS54 | -1,66614 | 2,20E-08 |
| CTNNB1 | -1,66685 | 4,10E-05 |
| MTMR10 | -1,66847 | 3,91E-06 |
| KLHL21 | -1,66884 | 1,18E-08 |
| HES4 | -1,67056 | 1,40E-06 |
| IER3 | -1,67084 | 6,65E-10 |
| HOXB7 | -1,67234 | 2,56E-07 |
| SERPINB8 | -1,67252 | 0,000948 |
| RNF213 | -1,67413 | 1,49E-06 |
| UGGT2 | -1,6742 | 0,000335 |
| NSUN5P1 | -1,67534 | 0,000472 |
| CASK | -1,67548 | 2,64E-11 |
| TCF12 | -1,67566 | 1,29E-07 |
| SLC30A7 | -1,6779 | 2,01E-06 |
| C4orf32 | -1,67878 | 0,000116 |
| XKR8 | -1,6789 | 0,000101 |
| BCL2L2 | -1,68071 | 0,000383 |
| EHD4 | -1,68189 | 2,13E-08 |
| TMED5 | -1,68202 | 8,66E-08 |
| TCF7 | -1,68223 | 2,75E-05 |
| ARHGEF16 | -1,68236 | 1,83E-08 |
| MKNK2 | -1,68256 | 7,39E-12 |
| ANO6 | -1,68282 | 6,43E-10 |
| ATP7B | -1,68387 | 4,11E-05 |
| ZNF697 | -1,68676 | 1,40E-05 |
| TRMT2A | -1,68692 | 2,41E-09 |
| ETNK1 | -1,68795 | 6,21E-11 |
| GK | -1,68816 | 0,000561 |
| PGM1 | -1,68846 | 1,34E-06 |
| TMEM63A | -1,68961 | 3,23E-07 |
| PDLIM5 | -1,69079 | 5,94E-08 |
| OSBP | -1,69188 | 1,44E-12 |
| LIN7C | -1,69239 | 1,58E-05 |
| C10orf12 | -1,69419 | 1,98E-05 |
| MYO18A | -1,69496 | 4,56E-07 |
| SZT2 | -1,69534 | 2,72E-07 |
| DENND4C | -1,69831 | 6,99E-11 |

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| SLC35A3 | -1,69869 | 1,14E-05 |
| FAM81A | -1,69902 | 6,66E-05 |
| CXorf38 | -1,69917 | 1,67E-07 |
| CHORDC1 | -1,69981 | 3,67E-08 |
| PLK3 | -1,70233 | 0,000715 |
| NFKB1 | -1,70565 | 9,61E-07 |
| BIRC2 | -1,7061 | 1,30E-05 |
| IPO5 | -1,70631 | 5,67E-16 |
| HECA | -1,70843 | 0,000516 |
| ALDH1B1 | -1,71132 | 8,16E-13 |
| TMEM45B | -1,71159 | 1,94E-10 |
| GATA2 | -1,71373 | 8,11E-06 |
| SGK223 | -1,71374 | 2,41E-08 |
| SORL1 | -1,71534 | 3,42E-06 |
| ST14 | -1,71683 | 1,10E-07 |
| GOPC | -1,71818 | 1,27E-10 |
| GLB1L2 | -1,72339 | 9,34E-07 |
| STAT3 | -1,72545 | 2,15E-06 |
| SLC25A20 | -1,72573 | 0,000477 |
| PSAT1 | -1,72636 | 0,00017 |
| FAM126A | -1,7267 | 3,26E-06 |
| ITGA2 | -1,72737 | 1,56E-07 |
| HSPA12A | -1,72828 | 6,99E-05 |
| TSPO | -1,72958 | 1,75E-13 |
| MYO1B | -1,73068 | 2,24E-15 |
| SDCCAG8 | -1,73195 | 4,99E-07 |
| FAM219A | -1,73317 | 0,000132 |
| RRAGD | -1,73389 | 0,000147 |
| TMEM62 | -1,73426 | 5,78E-09 |
| NOCT | -1,73709 | 1,04E-06 |
| ZBED1 | -1,73861 | 3,18E-08 |
| TUBGCP4 | -1,74331 | 5,46E-11 |
| SGK1 | -1,74372 | 0,000448 |
| DNAJC22 | -1,74377 | 4,38E-05 |
| ACSL4 | -1,74558 | 9,07E-07 |
| NAA16 | -1,75078 | 0,000286 |
| SACM1L | -1,75107 | 1,13E-07 |
| DDX10 | -1,75202 | 2,04E-13 |
| TCEB3 | -1,75282 | 1,27E-12 |
| RNF145 | -1,75556 | 3,87E-05 |
| SLC35D1 | -1,75608 | 1,42E-07 |
| ETHE1 | -1,75748 | 1,97E-06 |
| FTL | -1,75784 | 9,27E-06 |
| STK40 | -1,76184 | 1,57E-08 |
| HMGA1 | -1,7647 | 4,23E-09 |
| SLC8B1 | -1,76509 | 2,31E-06 |
| GALNT7 | -1,77057 | 2,33E-07 |
| FAM221A | -1,77869 | 3,28E-05 |
| TOLLIP | -1,781 | 2,03E-06 |
| SUCLA2 | -1,78115 | 4,36E-11 |

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| GAS6 | -1,78246 | 9,83E-08 |
| CDC42EP5 | -1,78254 | 0,000142 |
| LIMK2 | -1,78476 | 1,02E-08 |
| PACSIN2 | -1,7851 | 5,42E-12 |
| ASCL2 | -1,78549 | 4,98E-05 |
| NCEH1 | -1,78784 | 4,40E-07 |
| CDC42BPA | -1,78988 | 3,58E-09 |
| DYNLT3 | -1,79017 | 0,000357 |
| PATL1 | -1,79158 | 2,17E-13 |
| SYNJ2 | -1,79227 | 6,92E-11 |
| LRP8 | -1,79578 | 9,20E-10 |
| LMBRD2 | -1,79587 | 3,49E-07 |
| MIB2 | -1,79657 | 5,49E-08 |
| KLC3 | -1,79707 | 0,000375 |
| PINK1-AS | -1,79736 | 2,38E-05 |
| TUBE1 | -1,79859 | 0,000116 |
| MAP2 | -1,79868 | 3,52E-05 |
| INPP5B | -1,79977 | 4,55E-07 |
| SLC10A7 | -1,80099 | 0,000133 |
| FBXO30 | -1,80845 | 3,55E-10 |
| TXN | -1,8097 | 7,86E-09 |
| ZNF37BP | -1,81049 | 3,98E-08 |
| TMEM135 | -1,81071 | 7,37E-07 |
| NT5DC3 | -1,81246 | 8,05E-08 |
| HOOK1 | -1,81542 | 2,58E-11 |
| VWA1 | -1,81817 | 1,59E-06 |
| SMC1A | -1,81874 | 3,03E-13 |
| KLHL18 | -1,82297 | 2,93E-11 |
| LACC1 | -1,82389 | 0,000367 |
| PPP1R18 | -1,82544 | 1,96E-11 |
| MROH6 | -1,82813 | 1,85E-08 |
| SBDS | -1,82857 | 3,55E-14 |
| PRPS2 | -1,82862 | 1,42E-09 |
| MFSD2A | -1,83168 | 6,32E-06 |
| SLC7A11 | -1,83176 | 3,03E-11 |
| FAM3C | -1,83599 | 3,03E-12 |
| CYB5B | -1,8368 | 1,38E-10 |
| NCAPD3 | -1,83807 | 7,42E-10 |
| HDHD1 | -1,83831 | 8,60E-08 |
| CORO1A | -1,83921 | 3,52E-05 |
| PNP | -1,84142 | 2,45E-13 |
| FURIN | -1,84253 | 1,50E-12 |
| SLC39A14 | -1,84351 | 5,95E-06 |
| DNAJA4 | -1,84409 | 4,51E-09 |
| MIER1 | -1,8446 | 2,41E-13 |
| DOPEY1 | -1,84919 | 1,32E-06 |
| CTSC | -1,84932 | 2,05E-11 |
| NDRG1 | -1,84947 | 7,45E-06 |
| SLC7A8 | -1,85031 | 0,000136 |
| ADAM10 | -1,85129 | 1,70E-12 |

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| PVR | -1,85217 | 2,08E-06 |
| IMPA1 | -1,85257 | 4,93E-08 |
| FRAS1 | -1,85575 | 4,33E-12 |
| ARID3A | -1,85715 | 0,001013 |
| CPEB4 | -1,85755 | 0,000387 |
| PNPLA4 | -1,86256 | 4,08E-06 |
| IRF7 | -1,86305 | 0,000119 |
| ADAT2 | -1,86425 | 6,23E-05 |
| EFHD2 | -1,86625 | 4,90E-10 |
| UBR1 | -1,86718 | 2,58E-06 |
| QSOX2 | -1,869 | 8,35E-08 |
| KCNC4 | -1,86994 | 0,000125 |
| PANK2 | -1,87605 | 4,42E-10 |
| JAK1 | -1,87621 | 5,69E-12 |
| NR6A1 | -1,87776 | 3,27E-06 |
| SH2D3A | -1,88135 | 7,64E-07 |
| GALNT2 | -1,88222 | 6,42E-15 |
| MYO1E | -1,88271 | 1,96E-05 |
| GSR | -1,88363 | 1,76E-13 |
| WDR81 | -1,88568 | 1,08E-10 |
| DOCK9 | -1,88749 | 1,80E-11 |
| MAPKBP1 | -1,88868 | 6,22E-06 |
| ABHD3 | -1,88872 | 1,93E-05 |
| EIF2AK4 | -1,88893 | 1,89E-14 |
| FAM126B | -1,89656 | 3,75E-08 |
| RELT | -1,89748 | 1,88E-08 |
| RCBTB1 | -1,89914 | 4,19E-07 |
| ADCY9 | -1,90006 | 3,92E-08 |
| CLCN2 | -1,90064 | 0,000139 |
| TMEM55A | -1,90224 | 1,62E-06 |
| RPP25 | -1,90234 | 1,13E-11 |
| GFPT1 | -1,90847 | 4,33E-18 |
| NSUN5P2 | -1,91444 | 0,000728 |
| INPP5J | -1,9149 | 3,45E-05 |
| LPCAT4 | -1,91549 | 1,38E-05 |
| FZD9 | -1,91881 | 0,000982 |
| PRTFDC1 | -1,92004 | 1,83E-05 |
| AP1S3 | -1,92129 | 1,57E-08 |
| CYP4F11 | -1,92225 | 6,72E-05 |
| SDE2 | -1,92384 | 6,33E-06 |
| SYBU | -1,9305 | 9,69E-06 |
| SLC25A22 | -1,9315 | 6,99E-15 |
| MYO10 | -1,93559 | 2,33E-11 |
| LPIN2 | -1,93769 | 9,08E-11 |
| CDK12 | -1,93839 | 3,63E-15 |
| EOGT | -1,93862 | 1,53E-06 |
| LOC100506 | -1,9421 | 4,97E-05 |
| NUP43 | -1,94228 | 1,80E-11 |
| ABCB7 | -1,94343 | 3,40E-10 |
| NEK3 | -1,94439 | 1,35E-10 |

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| HES6 | -1,945 | 2,52E-06 |
| ABLM1 | -1,94599 | 6,07E-13 |
| TFDP1 | -1,94721 | 1,11E-18 |
| SLC25A12 | -1,95144 | 1,04E-07 |
| MORC4 | -1,95339 | 3,21E-13 |
| CD83 | -1,95657 | 4,93E-06 |
| TMEM181 | -1,95765 | 3,03E-09 |
| LGR4 | -1,9648 | 9,10E-07 |
| CHD9 | -1,96496 | 1,78E-11 |
| PDE12 | -1,96586 | 1,66E-15 |
| CRLF3 | -1,96736 | 1,63E-07 |
| MDN1 | -1,97038 | 4,06E-14 |
| GCLM | -1,97047 | 4,95E-07 |
| EHBP1 | -1,97647 | 3,41E-14 |
| ATAD5 | -1,97837 | 3,34E-07 |
| THRA | -1,97857 | 5,34E-06 |
| ARFGAP3 | -1,98199 | 1,63E-08 |
| FAM73A | -1,98483 | 2,78E-08 |
| KLHL15 | -1,98491 | 2,37E-06 |
| LASP1 | -1,98515 | 3,30E-08 |
| XPNPEP1 | -1,9866 | 4,61E-13 |
| GALE | -1,98706 | 6,65E-09 |
| OAT | -1,99199 | 4,66E-06 |
| NDFIP2 | -1,9927 | 7,54E-12 |
| TGDS | -1,99336 | 0,000516 |
| NIPAL3 | -1,99394 | 5,39E-06 |
| FABP5 | -1,99806 | 8,77E-18 |
| AKAP17A | -1,99866 | 2,28E-09 |
| MAP1B | -1,99942 | 3,07E-05 |
| MYCBP2 | -1,99952 | 4,10E-14 |
| LRIG1 | -2,00043 | 1,22E-11 |
| SYNJ1 | -2,0029 | 1,59E-06 |
| TRPM2 | -2,00379 | 5,73E-11 |
| TMSB4X | -2,00821 | 1,44E-13 |
| COL9A3 | -2,01185 | 2,27E-06 |
| BIK | -2,01573 | 2,06E-05 |
| ECHDC1 | -2,01854 | 6,88E-11 |
| OAF | -2,01925 | 7,04E-06 |
| TNS3 | -2,02068 | 5,98E-08 |
| GLYCTK | -2,02437 | 0,000368 |
| BMP2K | -2,02663 | 7,08E-14 |
| CD46 | -2,02721 | 1,39E-09 |
| DFFB | -2,02747 | 4,01E-06 |
| NRCAM | -2,02792 | 2,43E-08 |
| CPOX | -2,03953 | 2,33E-06 |
| PARP12 | -2,04172 | 0,000143 |
| NUP50-AS1 | -2,04186 | 1,05E-05 |
| NMI | -2,04512 | 4,34E-06 |
| AHI1 | -2,04698 | 7,70E-09 |
| ENDOD1 | -2,05186 | 2,75E-15 |

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| CDC14B | -2,05191 | 1,58E-10 |
| SPIN4 | -2,05266 | 6,17E-06 |
| SPRYD7 | -2,0577 | 4,95E-10 |
| MED14 | -2,0602 | 4,70E-19 |
| DLG4 | -2,06437 | 0,000166 |
| MICAL1 | -2,06484 | 9,38E-06 |
| TMX3 | -2,06688 | 1,94E-10 |
| ZNF589 | -2,06995 | 1,05E-06 |
| KRT23 | -2,07157 | 0,000239 |
| NFKB2 | -2,07262 | 2,88E-13 |
| COBL | -2,07435 | 6,97E-09 |
| DGKD | -2,08007 | 2,94E-12 |
| SQRDL | -2,08158 | 6,41E-05 |
| RAB11FIP1 | -2,0855 | 1,20E-18 |
| POLR3G | -2,09206 | 1,54E-07 |
| FBXO10 | -2,09354 | 6,83E-09 |
| POLM | -2,09806 | 1,48E-10 |
| NCOA7 | -2,09814 | 1,94E-13 |
| ATP6AP1L | -2,10173 | 0,000957 |
| PLEKHB1 | -2,10331 | 0,000137 |
| UBASH3B | -2,10484 | 0,000598 |
| CPNE7 | -2,10573 | 4,02E-05 |
| SUSD1 | -2,11439 | 2,30E-08 |
| PAOX | -2,11457 | 0,000961 |
| FAF1 | -2,11552 | 1,23E-08 |
| SH2D4A | -2,11716 | 1,46E-14 |
| RNF170 | -2,11993 | 4,66E-09 |
| PORCN | -2,12058 | 1,11E-05 |
| SEL1L3 | -2,12382 | 2,44E-13 |
| AHSA2 | -2,12502 | 0,000291 |
| KLF4 | -2,13097 | 5,11E-13 |
| CLIP2 | -2,13583 | 5,40E-13 |
| POMK | -2,13585 | 7,18E-06 |
| DCP1A | -2,13942 | 3,23E-11 |
| KLF3 | -2,14623 | 7,65E-12 |
| PLS1 | -2,15079 | 1,11E-14 |
| RAPGEF5 | -2,15175 | 0,00012 |
| PAM | -2,15278 | 5,55E-16 |
| FAHD2B | -2,15655 | 0,000329 |
| INSR | -2,15707 | 5,67E-09 |
| SH3RF1 | -2,159 | 1,17E-07 |
| CEP72 | -2,1594 | 9,36E-06 |
| ZAK | -2,15983 | 4,61E-18 |
| ADAM9 | -2,16733 | 2,39E-10 |
| ADAMTSL5 | -2,16745 | 1,21E-06 |
| MAFG | -2,16754 | 1,02E-17 |
| SMCO4 | -2,16904 | 0,000393 |
| TARBP1 | -2,17078 | 7,03E-10 |
| PAK1 | -2,17323 | 2,50E-09 |
| MICAL2 | -2,17589 | 4,38E-12 |

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| OPTN | -2,1786 | 0,000181 |
| TERT | -2,19099 | 0,00049 |
| PPFIBP2 | -2,19513 | 1,17E-14 |
| TXLNA | -2,19544 | 5,91E-16 |
| ABCB10 | -2,196 | 5,72E-12 |
| RELB | -2,20392 | 3,61E-07 |
| CDC25A | -2,20474 | 2,01E-15 |
| LINC01123 | -2,20877 | 3,14E-09 |
| CDCA7 | -2,21088 | 5,46E-07 |
| FNDC3A | -2,21369 | 9,79E-16 |
| ACO1 | -2,21797 | 1,04E-08 |
| CASP3 | -2,23035 | 1,37E-11 |
| RASL10B | -2,2364 | 4,59E-05 |
| MAPK8IP3 | -2,24472 | 0,000789 |
| DUSP7 | -2,24621 | 2,51E-07 |
| C15orf41 | -2,24689 | 7,47E-07 |
| COTL1 | -2,24864 | 1,84E-13 |
| SHPRH | -2,24972 | 2,46E-07 |
| KCNJ14 | -2,25007 | 1,36E-06 |
| HAS3 | -2,25263 | 1,04E-05 |
| CEP85 | -2,25474 | 5,61E-09 |
| YAP1 | -2,26039 | 5,63E-20 |
| STK31 | -2,26189 | 0,000201 |
| EXTL2 | -2,27259 | 2,77E-07 |
| PRR5L | -2,27534 | 0,000194 |
| LMO7 | -2,27608 | 1,56E-14 |
| TWISTNB | -2,27611 | 2,18E-19 |
| CALML4 | -2,28086 | 8,37E-13 |
| MFI2 | -2,28237 | 6,94E-15 |
| SRXN1 | -2,28489 | 7,88E-09 |
| EPHX1 | -2,28738 | 3,12E-07 |
| PERP | -2,29126 | 6,04E-11 |
| ARHGAP32 | -2,29718 | 1,71E-13 |
| ARPIN | -2,2982 | 3,75E-07 |
| TBC1D4 | -2,30026 | 1,54E-07 |
| PRKCE | -2,30401 | 4,98E-05 |
| GPR180 | -2,30447 | 5,78E-13 |
| TGFA | -2,30586 | 1,48E-07 |
| DCBLD1 | -2,31237 | 1,81E-09 |
| MIR22HG | -2,31262 | 8,05E-05 |
| CAPN10 | -2,31373 | 3,22E-08 |
| KCNK5 | -2,31572 | 2,12E-05 |
| PRNP | -2,32698 | 2,68E-14 |
| LINC01128 | -2,33319 | 1,37E-08 |
| SELM | -2,33832 | 1,70E-06 |
| KIAA1551 | -2,34497 | 2,85E-19 |
| ME2 | -2,35114 | 4,65E-20 |
| NDNF | -2,35528 | 9,75E-05 |
| SFXN3 | -2,35644 | 2,63E-10 |
| RASSF3 | -2,35924 | 9,42E-16 |

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| LAMA3 | -2,36601 | 6,83E-15 |
| HOOK3 | -2,37146 | 2,93E-13 |
| OTUB2 | -2,37327 | 2,26E-05 |
| SIPA1 | -2,37409 | 3,02E-08 |
| PAQR3 | -2,37617 | 6,43E-15 |
| CORO2A | -2,37801 | 4,36E-07 |
| LOC284023 | -2,38057 | 7,72E-08 |
| DSG2 | -2,38345 | 9,41E-26 |
| GANC | -2,38403 | 3,26E-10 |
| PPARA | -2,38765 | 5,00E-12 |
| PLCXD1 | -2,39594 | 4,84E-10 |
| SLCO4A1 | -2,40914 | 1,31E-10 |
| DMKN | -2,40968 | 6,20E-19 |
| ARHGAP26 | -2,40993 | 9,38E-06 |
| ALAS1 | -2,41326 | 5,93E-17 |
| LIME1 | -2,41386 | 0,000964 |
| RAMP1 | -2,41562 | 2,29E-06 |
| ALS2CL | -2,41901 | 0,000387 |
| NHSL1 | -2,42028 | 1,90E-12 |
| FAM101B | -2,42416 | 1,57E-08 |
| B4GALT6 | -2,42471 | 4,23E-09 |
| CNTLN | -2,43002 | 1,75E-09 |
| BACH1 | -2,43241 | 1,24E-16 |
| GHDC | -2,43479 | 3,26E-11 |
| SLC16A3 | -2,43686 | 6,11E-07 |
| SAMHD1 | -2,43908 | 3,28E-07 |
| LHX6 | -2,43928 | 3,66E-05 |
| UGDH | -2,44066 | 6,63E-18 |
| PCSK9 | -2,44079 | 0,000389 |
| DIAPH2 | -2,44113 | 3,55E-12 |
| TRIM2 | -2,44716 | 4,87E-17 |
| PHLDA1 | -2,4507 | 3,74E-08 |
| PPAP2C | -2,45194 | 1,91E-21 |
| CARD10 | -2,45342 | 5,03E-12 |
| RP2 | -2,45592 | 8,01E-10 |
| PRRG1 | -2,45655 | 1,10E-05 |
| FLVCR1 | -2,45854 | 5,68E-13 |
| ABHD2 | -2,46416 | 2,41E-15 |
| RILPL2 | -2,46517 | 2,98E-05 |
| SYNM | -2,47141 | 3,31E-07 |
| PEX6 | -2,47143 | 5,61E-07 |
| TNFRSF10A | -2,474 | 1,93E-13 |
| TMPRSS2 | -2,47429 | 7,83E-10 |
| SMIM3 | -2,47965 | 3,51E-16 |
| MYB | -2,49064 | 2,16E-13 |
| FXYD5 | -2,50201 | 1,34E-17 |
| ZNF292 | -2,50777 | 8,29E-25 |
| MUC3A | -2,5084 | 1,79E-08 |
| MOCOS | -2,51222 | 1,01E-09 |
| TFR2 | -2,52641 | 4,57E-12 |

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| LBR | -2,5278 | 1,30E-18 |
| AGMAT | -2,53504 | 6,98E-17 |
| KCNMB4 | -2,53507 | 1,08E-07 |
| LNP1 | -2,53738 | 0,000588 |
| TMC7 | -2,53789 | 2,75E-10 |
| RALGAPA2 | -2,54038 | 3,41E-22 |
| FBLIM1 | -2,54223 | 1,59E-11 |
| HSD17B12 | -2,54605 | 1,22E-26 |
| FAM89A | -2,55067 | 9,12E-06 |
| CBLC | -2,55128 | 8,60E-13 |
| B4GALT5 | -2,55295 | 1,18E-26 |
| KIAA1804 | -2,55744 | 1,36E-09 |
| UAP1L1 | -2,55954 | 5,07E-16 |
| C1orf106 | -2,56215 | 3,00E-09 |
| DTX4 | -2,56536 | 1,85E-17 |
| STS | -2,56735 | 1,06E-12 |
| GNAL | -2,57404 | 3,76E-05 |
| RDH10 | -2,5776 | 5,91E-13 |
| PRDM5 | -2,5867 | 7,31E-05 |
| ZIC5 | -2,5959 | 0,000469 |
| KLHL17 | -2,59688 | 1,36E-06 |
| INAFM2 | -2,59793 | 4,70E-10 |
| ARAP2 | -2,60017 | 8,27E-15 |
| IFIT5 | -2,60104 | 7,50E-08 |
| DDX60L | -2,6023 | 0,000205 |
| SH2D2A | -2,60416 | 2,00E-07 |
| MCF2L-AS1 | -2,60562 | 3,32E-05 |
| C1orf116 | -2,61591 | 3,99E-08 |
| ISG20 | -2,61639 | 1,29E-08 |
| SLC12A2 | -2,62026 | 6,44E-34 |
| UPP1 | -2,62081 | 3,01E-05 |
| RAB11FIP5 | -2,62337 | 4,78E-08 |
| HPDL | -2,63195 | 5,27E-20 |
| SLC12A7 | -2,63603 | 5,39E-25 |
| MB21D1 | -2,6371 | 4,12E-11 |
| SERAC1 | -2,64857 | 9,11E-13 |
| PIP5K1B | -2,65181 | 1,20E-07 |
| FLNB | -2,65217 | 5,75E-18 |
| HHEX | -2,6535 | 1,47E-05 |
| IGF2BP2 | -2,65524 | 6,03E-21 |
| FSTL3 | -2,65857 | 8,47E-12 |
| SNHG4 | -2,662 | 2,37E-16 |
| ARHGEF38 | -2,6621 | 2,82E-06 |
| ABHD6 | -2,66211 | 8,24E-10 |
| CEACAM5 | -2,66354 | 0,000695 |
| ECE1 | -2,68543 | 5,55E-24 |
| TAGLN | -2,68549 | 0,000458 |
| TBC1D8B | -2,6888 | 7,45E-06 |
| SSFA2 | -2,69382 | 3,84E-24 |
| DNAJC3 | -2,69915 | 1,00E-17 |

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| TAPBPL | -2,70159 | 0,000324 |
| GJB2 | -2,70723 | 3,81E-15 |
| ABCA7 | -2,71178 | 1,36E-12 |
| LIPH | -2,71386 | 0,000342 |
| VGF | -2,7178 | 1,98E-13 |
| RBMS2 | -2,7195 | 2,76E-13 |
| LOC171391 | -2,725 | 0,000358 |
| NEDD4L | -2,72543 | 7,62E-19 |
| GNPDA2 | -2,73327 | 6,04E-11 |
| CARNMT1 | -2,73519 | 2,04E-19 |
| ARNTL2 | -2,7422 | 6,50E-14 |
| KIAA1671 | -2,74377 | 2,68E-28 |
| S100A6 | -2,75583 | 1,17E-16 |
| SLC17A5 | -2,75846 | 8,93E-11 |
| MET | -2,76636 | 5,88E-39 |
| SLC6A8 | -2,76649 | 2,81E-12 |
| PLEKHA4 | -2,76714 | 0,000144 |
| HBEGF | -2,77097 | 2,81E-10 |
| ANO9 | -2,77389 | 6,72E-06 |
| PTK6 | -2,77471 | 1,01E-16 |
| SYK | -2,77668 | 5,49E-15 |
| IL4R | -2,77819 | 2,14E-10 |
| FGFRL1 | -2,79002 | 6,60E-17 |
| ALDH1A3 | -2,80187 | 5,52E-05 |
| RPLP0P2 | -2,80312 | 6,38E-05 |
| TNFSF9 | -2,80601 | 4,02E-05 |
| CTH | -2,80836 | 1,82E-10 |
| HYAL3 | -2,81269 | 1,14E-05 |
| LOC100288 | -2,81553 | 1,22E-09 |
| SLC12A4 | -2,82114 | 1,47E-05 |
| SERPINI1 | -2,82276 | 2,22E-08 |
| HNMT | -2,82416 | 0,00016 |
| DNAJC3-AS | -2,82417 | 0,00023 |
| DAGLA | -2,82748 | 4,09E-12 |
| TMC5 | -2,82918 | 9,30E-21 |
| SLC35G1 | -2,82969 | 2,00E-09 |
| TMEM106f | -2,82979 | 9,48E-29 |
| BAAT | -2,8439 | 0,000327 |
| NSMF | -2,84555 | 6,79E-28 |
| TREX1 | -2,84925 | 4,87E-12 |
| LBX2-AS1 | -2,85057 | 3,14E-06 |
| FRK | -2,85201 | 8,05E-05 |
| MXD1 | -2,86851 | 4,57E-19 |
| FN3K | -2,87077 | 6,17E-07 |
| CHIC1 | -2,8741 | 4,25E-10 |
| RBM26-AS1 | -2,88228 | 0,000482 |
| HLA-C | -2,88348 | 1,28E-07 |
| FBXO2 | -2,8921 | 1,23E-06 |
| CD27-AS1 | -2,90616 | 0,000773 |
| SOCS6 | -2,9083 | 4,48E-28 |

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| ERVK13-1 | -2,91553 | 1,44E-06 |
| HLA-F | -2,92272 | 4,01E-06 |
| CHRNA1 | -2,92299 | 7,85E-12 |
| TRIP10 | -2,92477 | 8,96E-18 |
| NMNAT3 | -2,93135 | 3,79E-07 |
| SPRY1 | -2,93324 | 7,08E-07 |
| B3GNT3 | -2,93606 | 2,26E-09 |
| PRKAR2A | -2,93628 | 7,62E-19 |
| TTC38 | -2,93752 | 5,73E-18 |
| EFNB1 | -2,93778 | 3,55E-24 |
| HIC2 | -2,94162 | 1,40E-16 |
| FAM135A | -2,94357 | 6,03E-14 |
| GPC1 | -2,94503 | 5,12E-12 |
| TMEM80 | -2,94886 | 7,31E-20 |
| EPHB2 | -2,95632 | 9,55E-20 |
| MIRLET7B | -2,95785 | 0,000384 |
| METTL7B | -2,96983 | 1,51E-14 |
| RAB20 | -2,97298 | 3,43E-09 |
| PM20D2 | -2,97351 | 2,04E-18 |
| NUPL2 | -2,9764 | 2,15E-09 |
| SLC2A1 | -2,97656 | 1,05E-14 |
| ANKMY2 | -2,98214 | 6,24E-22 |
| GRK5 | -2,98869 | 1,81E-09 |
| ZBTB47 | -2,99448 | 6,78E-06 |
| BTN3A3 | -2,99861 | 0,000934 |
| CENPV | -3,00098 | 2,53E-11 |
| GPR63 | -3,00725 | 6,52E-08 |
| PTPRG | -3,0181 | 1,36E-30 |
| ATP11A | -3,02183 | 2,65E-28 |
| DACH1 | -3,02648 | 6,43E-14 |
| POLR2J2 | -3,02871 | 0,001002 |
| PITX2 | -3,02972 | 7,00E-08 |
| TYMP | -3,03309 | 8,19E-10 |
| NAPRT | -3,03754 | 1,48E-16 |
| CHM | -3,04147 | 1,12E-11 |
| NKPD1 | -3,0418 | 0,000194 |
| C19orf66 | -3,05349 | 2,14E-05 |
| SH3BGR2 | -3,06048 | 1,18E-12 |
| S100A4 | -3,06163 | 4,27E-15 |
| STX3 | -3,07778 | 3,06E-22 |
| MGAT5 | -3,07865 | 7,39E-23 |
| PRSS22 | -3,08277 | 1,54E-12 |
| ANK2 | -3,08815 | 3,12E-07 |
| CLCN4 | -3,09099 | 1,36E-06 |
| CCDC82 | -3,10004 | 4,05E-11 |
| SH2B3 | -3,10477 | 8,01E-23 |
| MAPRE2 | -3,11059 | 7,11E-15 |
| GPAT3 | -3,11316 | 1,39E-11 |
| TRAF5 | -3,1168 | 2,55E-19 |
| TRPV1 | -3,11981 | 0,000358 |

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| TIAM1 | -3,12543 | 3,76E-21 |
| SH2D5 | -3,1273 | 3,79E-09 |
| SETDB2 | -3,12962 | 1,47E-18 |
| AHNAK2 | -3,13714 | 7,59E-23 |
| L3MBTL3 | -3,16094 | 9,58E-15 |
| ADGRE5 | -3,16871 | 3,29E-18 |
| PLEKHA2 | -3,17433 | 2,83E-19 |
| PPARG | -3,17515 | 1,49E-13 |
| WLS | -3,17675 | 1,89E-19 |
| NOTUM | -3,17869 | 1,40E-17 |
| SLC22A15 | -3,18037 | 0,000181 |
| FAM46A | -3,18457 | 8,75E-14 |
| ARHGEF10 | -3,18607 | 3,56E-18 |
| HNRNPU-A | -3,18717 | 1,44E-05 |
| MCF2L | -3,19017 | 1,00E-21 |
| PCDHGA10 | -3,19042 | 3,27E-09 |
| SNX7 | -3,19519 | 7,12E-13 |
| CA2 | -3,20364 | 0,000734 |
| KIF13B | -3,21511 | 7,16E-12 |
| DDAH1 | -3,22411 | 2,01E-19 |
| SERINC2 | -3,24938 | 1,62E-17 |
| RTTN | -3,27124 | 3,08E-18 |
| FAT1 | -3,28295 | 2,92E-24 |
| CLDN15 | -3,29096 | 2,39E-14 |
| EGLN3 | -3,29342 | 2,34E-14 |
| MYRFL | -3,31646 | 2,00E-05 |
| XK | -3,32454 | 1,86E-20 |
| LINC-PINT | -3,33162 | 6,81E-05 |
| CYP4F3 | -3,34755 | 0,00021 |
| PTPRE | -3,36931 | 6,50E-07 |
| LOC730102 | -3,37336 | 7,46E-07 |
| CAMK2D | -3,38234 | 3,53E-33 |
| LPCAT2 | -3,39085 | 2,78E-22 |
| GNAI1 | -3,39293 | 5,55E-13 |
| DNAJB4 | -3,39478 | 7,02E-11 |
| TNFAIP2 | -3,40044 | 0,000167 |
| SPRY2 | -3,40479 | 1,45E-15 |
| A4GALT | -3,40921 | 1,22E-09 |
| KBTBD11 | -3,41808 | 3,39E-15 |
| SASH1 | -3,41873 | 7,08E-14 |
| DPY19L2P2 | -3,42751 | 1,45E-06 |
| AREG | -3,43312 | 5,00E-18 |
| HOXC8 | -3,43524 | 0,000266 |
| CEMIP | -3,44049 | 9,97E-23 |
| TRMT11 | -3,46795 | 7,22E-14 |
| SOX15 | -3,47039 | 8,63E-05 |
| TMEM51-A | -3,47683 | 0,000335 |
| STEAP1 | -3,47921 | 2,26E-10 |
| TRNP1 | -3,4838 | 1,45E-20 |
| IL6R | -3,49058 | 1,18E-06 |

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| FHL2 | -3,492 | 1,17E-07 |
| TPPP | -3,49344 | 4,61E-15 |
| FERMT1 | -3,49851 | 9,98E-46 |
| ZNF469 | -3,51299 | 4,04E-06 |
| LINC01232 | -3,51393 | 3,33E-05 |
| TNNI3 | -3,5211 | 5,39E-12 |
| RIN2 | -3,52731 | 5,48E-15 |
| NLRP6 | -3,52958 | 0,000551 |
| GRIN2D | -3,54953 | 3,77E-18 |
| DPYSL3 | -3,54992 | 6,13E-08 |
| SIK1 | -3,55755 | 0,000243 |
| SH3RF2 | -3,55805 | 9,86E-12 |
| MAN1A1 | -3,56221 | 7,75E-39 |
| PLIN2 | -3,56441 | 8,03E-24 |
| SEPT10 | -3,57033 | 9,96E-16 |
| ELFN1 | -3,57638 | 1,45E-11 |
| ERVMER34 | -3,59651 | 1,45E-21 |
| CMPK2 | -3,60457 | 0,000178 |
| DLGAP1-AS | -3,60683 | 5,33E-08 |
| SHH | -3,60713 | 3,00E-18 |
| AATK | -3,61045 | 0,000102 |
| KBTBD8 | -3,61389 | 3,52E-10 |
| WDR90 | -3,61719 | 8,69E-09 |
| EVA1C | -3,62249 | 1,76E-12 |
| MX2 | -3,62689 | 1,15E-05 |
| PLEK2 | -3,62831 | 4,42E-40 |
| ULBP3 | -3,62972 | 2,69E-07 |
| ST6GALNA4 | -3,6353 | 1,37E-17 |
| MYO15B | -3,63952 | 3,26E-23 |
| PYGL | -3,64449 | 8,64E-07 |
| PSMB9 | -3,65302 | 1,17E-08 |
| FNIP2 | -3,65865 | 6,38E-13 |
| ACOT11 | -3,65914 | 3,01E-09 |
| C14orf159 | -3,65919 | 3,77E-17 |
| HDAC4 | -3,66935 | 1,62E-10 |
| SEMA3B | -3,6809 | 1,56E-19 |
| FRRS1 | -3,69361 | 1,68E-11 |
| PTGR1 | -3,71369 | 5,47E-24 |
| SORBS2 | -3,72124 | 8,87E-06 |
| PLA2G4A | -3,73021 | 0,000319 |
| ARHGAP23 | -3,73074 | 3,41E-12 |
| CPXM2 | -3,73583 | 9,06E-09 |
| CYP4V2 | -3,75116 | 1,73E-10 |
| CXorf57 | -3,75454 | 1,37E-12 |
| C16orf62 | -3,75624 | 6,72E-36 |
| LINC01315 | -3,76858 | 1,51E-05 |
| NTSR1 | -3,78552 | 0,00072 |
| EGF | -3,79049 | 0,000625 |
| KCNAB2 | -3,7985 | 1,98E-16 |
| STAMBPL1 | -3,80038 | 1,92E-11 |

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| SLC52A3 | -3,80153 | 9,30E-16 |
| PHLDA2 | -3,80508 | 1,48E-16 |
| TNFAIP3 | -3,8132 | 2,92E-14 |
| SP100 | -3,81376 | 5,76E-06 |
| CIB2 | -3,82094 | 1,75E-06 |
| EFNB2 | -3,82165 | 3,00E-47 |
| FAM131B | -3,82239 | 0,000909 |
| HTR1D | -3,82738 | 9,35E-12 |
| CREG2 | -3,82776 | 8,20E-05 |
| MAFF | -3,85776 | 0,000549 |
| BTN3A2 | -3,86376 | 9,20E-10 |
| GLS | -3,86476 | 6,65E-55 |
| HSD17B11 | -3,86643 | 3,01E-20 |
| SNAI1 | -3,895 | 7,52E-21 |
| CYBB | -3,89666 | 2,23E-06 |
| SOWAHC | -3,89807 | 2,89E-30 |
| LGALS3 | -3,91201 | 1,40E-23 |
| C3orf52 | -3,91218 | 2,07E-06 |
| PPM1K | -3,92464 | 2,67E-13 |
| C3orf80 | -3,92839 | 8,05E-06 |
| HERC5 | -3,93357 | 1,89E-06 |
| DCBLD2 | -3,93449 | 1,80E-46 |
| PTPRH | -3,93992 | 1,84E-06 |
| LRRC56 | -3,95787 | 3,56E-21 |
| ASPH | -3,96055 | 2,29E-41 |
| ATAD3B | -3,96073 | 9,66E-26 |
| ABCC2 | -3,97519 | 4,46E-13 |
| PTCH1 | -3,97899 | 8,41E-36 |
| PROCR | -3,98466 | 6,81E-09 |
| ADM | -3,99772 | 2,43E-08 |
| TYW1B | -3,99867 | 5,02E-11 |
| CMTM7 | -4,00069 | 7,87E-24 |
| BHLHA15 | -4,03507 | 2,46E-11 |
| CD68 | -4,03508 | 3,27E-14 |
| SERPINB5 | -4,04064 | 8,47E-09 |
| IGFBP3 | -4,04666 | 5,06E-13 |
| TGFBR2 | -4,05692 | 1,14E-40 |
| HOXA7 | -4,068 | 3,33E-07 |
| BDKRB2 | -4,06808 | 4,72E-06 |
| FCGRT | -4,08131 | 8,10E-10 |
| ANO7 | -4,09223 | 3,00E-09 |
| SLC17A9 | -4,09702 | 8,34E-09 |
| RHOU | -4,1008 | 1,33E-29 |
| UCHL1 | -4,10812 | 2,64E-08 |
| LRAT | -4,11476 | 5,43E-14 |
| PLBD1 | -4,12771 | 4,76E-31 |
| ZNF513 | -4,14351 | 2,63E-10 |
| FRMD5 | -4,15675 | 7,39E-34 |
| TNFRSF11B | -4,16245 | 4,93E-16 |
| PELI1 | -4,1654 | 2,57E-25 |

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| TCN2 | -4,16926 | 0,000697 |
| GJB3 | -4,18125 | 3,25E-15 |
| ETV4 | -4,18718 | 2,45E-08 |
| SH3TC2 | -4,19452 | 2,43E-08 |
| NELL2 | -4,1981 | 7,44E-24 |
| AKR1C2 | -4,20728 | 6,86E-15 |
| KHDRBS3 | -4,20998 | 3,98E-05 |
| ITGB8 | -4,21416 | 5,39E-05 |
| PLA2G16 | -4,22188 | 6,46E-21 |
| NES | -4,22548 | 5,90E-30 |
| FOXO1 | -4,23054 | 1,13E-26 |
| LIF | -4,23746 | 6,70E-12 |
| CREB3L1 | -4,24366 | 8,65E-08 |
| CDK6 | -4,26547 | 3,64E-18 |
| AIM1L | -4,26622 | 2,72E-27 |
| ZBTB20 | -4,27141 | 0,000192 |
| ANTXR2 | -4,27646 | 8,87E-06 |
| SEMA3A | -4,28951 | 1,72E-09 |
| SERPINE2 | -4,29707 | 2,54E-33 |
| MLLT11 | -4,30846 | 9,12E-25 |
| MAOA | -4,30853 | 3,59E-05 |
| HTATSF1P2 | -4,32492 | 7,34E-23 |
| SPON1 | -4,32649 | 0,000756 |
| PRKCA | -4,32964 | 4,32E-35 |
| PLTP | -4,33981 | 1,24E-26 |
| ECM1 | -4,34286 | 1,26E-11 |
| DSEL | -4,34877 | 1,37E-16 |
| TRIM47 | -4,36047 | 1,19E-39 |
| TUBAL3 | -4,3781 | 0,000333 |
| DACT1 | -4,37847 | 4,40E-07 |
| LRRK1 | -4,38512 | 1,74E-30 |
| ADORA2B | -4,38617 | 2,10E-38 |
| C10orf54 | -4,40503 | 8,51E-05 |
| LCN2 | -4,41976 | 1,34E-14 |
| PLLP | -4,42888 | 3,01E-12 |
| APOLD1 | -4,43194 | 6,64E-08 |
| ICAM1 | -4,43422 | 1,59E-21 |
| PARM1 | -4,44184 | 1,51E-19 |
| MBP | -4,44925 | 1,66E-38 |
| CAPN12 | -4,45557 | 2,30E-10 |
| IGFBP6 | -4,46789 | 2,59E-15 |
| TMC8 | -4,4808 | 8,98E-11 |
| STAT5A | -4,49078 | 3,62E-06 |
| PAK6 | -4,50039 | 1,14E-15 |
| FAM84A | -4,50473 | 9,96E-21 |
| MSN | -4,50734 | 5,17E-06 |
| SMPD3 | -4,52526 | 4,23E-12 |
| SATB1 | -4,53561 | 2,03E-05 |
| SLC16A7 | -4,54281 | 3,16E-12 |
| PLAUR | -4,55589 | 1,70E-17 |

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| NRP2 | -4,56573 | 2,37E-16 |
| DCHS1 | -4,61099 | 1,97E-05 |
| BCL2L15 | -4,61398 | 4,62E-20 |
| SLC22A18A | -4,61702 | 6,68E-05 |
| ILDR2 | -4,62169 | 5,37E-05 |
| LUCAT1 | -4,628 | 6,79E-11 |
| ST3GAL2 | -4,65051 | 1,16E-32 |
| GULP1 | -4,6698 | 1,83E-39 |
| LZTS3 | -4,70025 | 1,80E-25 |
| XKR6 | -4,71876 | 1,23E-05 |
| CCNI2 | -4,74969 | 1,83E-25 |
| NAP1L5 | -4,782 | 3,91E-05 |
| STRIP2 | -4,79645 | 1,93E-19 |
| DUSP6 | -4,8047 | 1,73E-08 |
| B3GNT9 | -4,80669 | 1,73E-15 |
| MACC1 | -4,81503 | 7,67E-24 |
| CNTD2 | -4,82047 | 2,36E-14 |
| KCNQ1 | -4,83565 | 2,97E-28 |
| CRAT | -4,84117 | 2,62E-23 |
| EPAS1 | -4,84175 | 6,89E-23 |
| HLA-A | -4,84323 | 5,43E-73 |
| BMP4 | -4,84937 | 7,57E-42 |
| F3 | -4,89197 | 2,54E-39 |
| LOC101925 | -4,90218 | 0,000625 |
| GOLGA8B | -4,92362 | 1,54E-08 |
| CRYBG3 | -4,93467 | 1,33E-25 |
| PRRT3-AS1 | -4,93718 | 0,000167 |
| TRIM38 | -4,93738 | 1,79E-05 |
| GSDMB | -4,95041 | 4,34E-13 |
| HPGD | -4,9755 | 2,50E-12 |
| HNF4G | -4,98367 | 3,73E-17 |
| PMP22 | -4,98834 | 4,11E-31 |
| DUSP4 | -4,99372 | 6,33E-05 |
| NCR3LG1 | -5,00797 | 8,20E-33 |
| GATA4 | -5,01107 | 1,17E-13 |
| ELFN1-AS1 | -5,01427 | 5,48E-10 |
| HLA-B | -5,02166 | 3,01E-26 |
| ANXA3 | -5,03106 | 1,58E-58 |
| HDAC9 | -5,0329 | 4,83E-08 |
| ANO1 | -5,03429 | 6,92E-07 |
| COL6A1 | -5,03609 | 7,07E-108 |
| BLACAT1 | -5,04202 | 9,10E-09 |
| EHF | -5,0495 | 1,50E-59 |
| MPP1 | -5,05083 | 2,96E-17 |
| FAM83F | -5,05092 | 4,49E-20 |
| PKDCC | -5,05832 | 4,14E-13 |
| CAPN2 | -5,06569 | 2,13E-33 |
| EPHA2 | -5,08436 | 2,77E-46 |
| IL20RA | -5,08595 | 3,30E-27 |
| FUT4 | -5,0991 | 6,50E-58 |

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| ANKRD22 | -5,1103 | 1,48E-05 |
| SLPI | -5,12056 | 1,00E-06 |
| EMP3 | -5,12469 | 1,03E-11 |
| C17orf51 | -5,13923 | 3,09E-34 |
| EEPD1 | -5,1466 | 1,06E-25 |
| MUC20 | -5,15736 | 9,13E-14 |
| EGFR | -5,16004 | 1,16E-61 |
| GCNT2 | -5,16398 | 0,00067 |
| LOC100130 | -5,16523 | 5,02E-20 |
| RASGRF2 | -5,16944 | 1,51E-14 |
| HAPLN3 | -5,17193 | 3,21E-06 |
| PLCB2 | -5,17228 | 0,000251 |
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| RIN1 | -5,23629 | 1,87E-37 |
| RAB32 | -5,25611 | 3,85E-32 |
| MYH15 | -5,25635 | 2,74E-08 |
| CADPS2 | -5,25985 | 7,81E-14 |
| TESC | -5,26122 | 5,04E-41 |
| KLK1 | -5,26152 | 1,39E-13 |
| B3GNT5 | -5,27091 | 1,48E-16 |
| ADAP1 | -5,2864 | 6,48E-66 |
| NOXO1 | -5,29837 | 1,67E-17 |
| KIAA0226L | -5,304 | 1,14E-16 |
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| MYEOV | -5,31788 | 1,63E-47 |
| CNTFR | -5,32283 | 3,41E-15 |
| ITGB6 | -5,32289 | 2,49E-06 |
| SOX6 | -5,33055 | 1,98E-05 |
| HOXB4 | -5,33213 | 1,60E-05 |
| SEC16B | -5,38382 | 0,000702 |
| EPB41L2 | -5,38394 | 6,68E-83 |
| ETV5 | -5,39707 | 2,48E-28 |
| DDN | -5,44679 | 5,13E-37 |
| LOC100125 | -5,45137 | 3,74E-08 |
| LYN | -5,45356 | 5,28E-36 |
| TRIM31 | -5,45558 | 2,10E-09 |
| IL22RA1 | -5,4567 | 4,84E-10 |
| MX1 | -5,46577 | 4,23E-18 |
| GAS6-AS1 | -5,47743 | 1,31E-10 |
| EMILIN2 | -5,48255 | 1,57E-29 |
| FAM222A-1 | -5,4891 | 2,34E-14 |
| TMEM173 | -5,50631 | 8,04E-08 |
| CALB2 | -5,5277 | 4,28E-31 |
| CSF1R | -5,54088 | 1,29E-05 |
| ATG9B | -5,54543 | 1,22E-11 |
| SPNS2 | -5,55258 | 5,53E-55 |
| SPRED1 | -5,55299 | 1,59E-44 |
| JAG1 | -5,55857 | 9,70E-96 |

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| TUBA4A | -5,56822 | 9,72E-26 |
| MTAP | -5,58537 | 3,41E-28 |
| CASP10 | -5,60949 | 1,16E-16 |
| PIK3AP1 | -5,62203 | 3,33E-23 |
| AOC1 | -5,63325 | 1,88E-08 |
| NAGS | -5,63633 | 2,52E-23 |
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| CD22 | -5,64131 | 4,99E-07 |
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| SPTBN5 | -5,67004 | 8,25E-14 |
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| FOSL1 | -5,74299 | 4,20E-47 |
| MSLN | -5,74469 | 2,13E-23 |
| TRIM29 | -5,76766 | 0,00016 |
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| HOXB9 | -5,81024 | 2,45E-05 |
| SNPH | -5,81837 | 9,78E-06 |
| PALD1 | -5,83864 | 2,40E-82 |
| GAL3ST2 | -5,85008 | 8,67E-09 |
| TM4SF1 | -5,85788 | 1,26E-72 |
| C6orf223 | -5,88348 | 2,48E-28 |
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| CHN2 | -5,90797 | 1,08E-09 |
| PEG10 | -5,91265 | 1,70E-06 |
| CEACAM6 | -5,9206 | 7,94E-24 |
| ULBP2 | -5,94199 | 5,07E-21 |
| WNT10A | -5,94592 | 3,80E-16 |
| ZBTB18 | -5,9664 | 1,15E-24 |
| COL17A1 | -5,98474 | 0,000807 |
| ME3 | -6,01091 | 3,98E-21 |
| ACOT2 | -6,0205 | 5,87E-18 |
| TGFBI | -6,04962 | 1,10E-26 |
| ANXA1 | -6,05079 | 2,24E-114 |
| ITGA6 | -6,06202 | 2,61E-103 |
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| TMEM150F | -6,0908 | 5,40E-08 |
| KRT6A | -6,22205 | 4,02E-05 |
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| NOS3 | -6,23221 | 4,55E-07 |
| LINC01133 | -6,25928 | 6,40E-07 |
| HAS2 | -6,27855 | 5,16E-10 |
| CASP4 | -6,29288 | 0,000474 |
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| MOB3B | -6,32513 | 2,80E-13 |
| DISP2 | -6,3281 | 1,49E-05 |

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| YOD1 | -6,33302 | 8,00E-44 |
| ROBO1 | -6,34619 | 1,18E-36 |
| MST1R | -6,34789 | 7,32E-44 |
| EPHA7 | -6,35563 | 3,20E-09 |
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| BIRC3 | -6,39938 | 1,98E-22 |
| DNM3 | -6,40486 | 2,33E-23 |
| COX6B2 | -6,45291 | 8,30E-06 |
| MYRF | -6,47265 | 2,07E-05 |
| FUT3 | -6,4895 | 3,06E-47 |
| ADRA2A | -6,52539 | 1,02E-22 |
| HOXB6 | -6,53411 | 4,48E-27 |
| GAS7 | -6,5418 | 3,46E-05 |
| SNORA52 | -6,54996 | 1,74E-05 |
| STEAP2 | -6,56205 | 2,41E-14 |
| PLBD1-AS1 | -6,5695 | 1,43E-08 |
| HMX3 | -6,57937 | 0,000947 |
| COL4A2 | -6,60131 | 1,36E-31 |
| ZC4H2 | -6,60212 | 1,41E-06 |
| AKR1C1 | -6,60835 | 3,27E-53 |
| APOL6 | -6,62744 | 1,30E-58 |
| BIN1 | -6,64859 | 3,74E-57 |
| PHLDB2 | -6,74097 | 3,15E-19 |
| PTPRB | -6,7496 | 1,49E-33 |
| TRABD2A | -6,76755 | 2,82E-05 |
| SYT8 | -6,79117 | 0,000417 |
| MID1 | -6,79592 | 7,97E-61 |
| NEK9 | -6,79651 | 9,63E-05 |
| INPP1 | -6,80721 | 2,07E-06 |
| EPSTI1 | -6,82305 | 3,85E-06 |
| TWIST1 | -6,86481 | 4,48E-09 |
| LINC01138 | -6,87492 | 3,45E-07 |
| ZNF717 | -6,8861 | 5,48E-07 |
| CA9 | -6,90869 | 4,43E-11 |
| TNS4 | -6,92837 | 6,62E-51 |
| C1QTNF1 | -6,95752 | 5,45E-17 |
| SPRY4 | -7,05008 | 2,08E-78 |
| TMEM74B | -7,08837 | 0,000144 |
| PEAR1 | -7,09024 | 0,000695 |
| LAMB3 | -7,09684 | 1,63E-06 |
| LGALS9 | -7,11575 | 7,20E-37 |
| TBX20 | -7,12324 | 4,44E-16 |
| LINC00673 | -7,131 | 5,78E-05 |
| SMIM24 | -7,13207 | 0,000116 |
| HOXB3 | -7,15201 | 2,17E-10 |
| ETV1 | -7,20569 | 8,59E-05 |
| RIMBP2 | -7,37683 | 4,92E-05 |
| LGR5 | -7,39201 | 9,42E-20 |
| AKR7A3 | -7,39698 | 6,81E-09 |
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| LANCL3 | -7,4005 | 0,000933 |
| IL32 | -7,41841 | 2,93E-08 |
| ZNF71 | -7,42002 | 6,49E-09 |
| TRIM15 | -7,42569 | 7,86E-37 |
| C14orf105 | -7,42861 | 0,00101 |
| ZNF502 | -7,43941 | 0,000865 |
| PCSK5 | -7,43979 | 1,65E-15 |
| PRDM1 | -7,45598 | 4,10E-09 |
| SSTR5 | -7,45939 | 0,000815 |
| HOXB-AS3 | -7,46681 | 0,000704 |
| LIPE | -7,46769 | 3,56E-09 |
| PAX6 | -7,47959 | 0,000894 |
| GRAMD2 | -7,48843 | 0,00091 |
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| DGKG | -7,50669 | 8,06E-09 |
| BHLHE41 | -7,50984 | 2,61E-05 |
| KCNH8 | -7,51664 | 9,16E-05 |
| HLA-H | -7,51773 | 7,03E-09 |
| PRAP1 | -7,59283 | 2,25E-43 |
| DUSP5P1 | -7,59975 | 0,000921 |
| ZNF577 | -7,62086 | 0,000601 |
| SLC2A12 | -7,62358 | 1,74E-05 |
| DSG3 | -7,6259 | 0,000549 |
| PIWIL4 | -7,65428 | 3,01E-05 |
| AKR1C3 | -7,65464 | 5,74E-05 |
| RRN3P1 | -7,65941 | 0,000391 |
| RUNX3 | -7,6619 | 1,13E-15 |
| TIMP4 | -7,67701 | 1,41E-05 |
| C1RL | -7,68396 | 6,42E-18 |
| CES4A | -7,68883 | 0,000284 |
| LINC00520 | -7,7067 | 0,000312 |
| SKAP1 | -7,72333 | 0,000247 |
| PLAU | -7,73348 | 0,000331 |
| PROC | -7,7576 | 0,000255 |
| PDCD1 | -7,75959 | 0,000213 |
| TM4SF5 | -7,7611 | 0,000219 |
| ZNF69 | -7,77462 | 0,000194 |
| EREG | -7,7809 | 2,36E-07 |
| NLRC5 | -7,79428 | 4,42E-70 |
| ANKLE1 | -7,8031 | 0,000435 |
| TMED6 | -7,81505 | 0,00028 |
| GALNT9 | -7,81601 | 0,000347 |
| TINAG | -7,82413 | 0,000189 |
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| PRDM13 | -7,86073 | 0,000132 |
| NTRK2 | -7,86273 | 0,000431 |
| ZNF583 | -7,86914 | 0,00014 |
| PTPRR | -7,8932 | 0,000117 |
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| SOX9 | -7,89385 | 7,70E-93 |

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| AKR1B10 | -7,89469 | 8,23E-12 |
| DKFZp434J | -7,91512 | 0,000106 |
| FAM27B | -7,91512 | 0,000106 |
| SLC44A4 | -7,91813 | 8,50E-19 |
| MGAT3 | -7,92066 | 1,08E-09 |
| RAET1L | -7,9248 | 4,32E-06 |
| MYOM2 | -7,94291 | 0,000113 |
| SLC2A9 | -7,94816 | 9,18E-05 |
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| MYO1A | -7,97008 | 9,78E-05 |
| BAIAP2L2 | -8,0161 | 5,90E-25 |
| SPNS3 | -8,01806 | 7,19E-05 |
| LRRC66 | -8,03065 | 6,81E-05 |
| ABHD12B | -8,03108 | 6,11E-05 |
| TPRXL | -8,03829 | 3,74E-22 |
| OSR1 | -8,03947 | 2,67E-06 |
| MALL | -8,05409 | 3,40E-06 |
| C2orf70 | -8,07787 | 5,50E-05 |
| CTAGE15 | -8,08593 | 5,23E-05 |
| KRT20 | -8,08645 | 1,66E-43 |
| DNAH12 | -8,08769 | 7,49E-05 |
| GREM1 | -8,09231 | 5,50E-05 |
| LINC01356 | -8,0999 | 4,42E-05 |
| LPAR1 | -8,11248 | 0,000101 |
| HCP5 | -8,11822 | 7,56E-38 |
| ARHGAP6 | -8,13256 | 7,00E-05 |
| MDFIC | -8,14911 | 2,49E-16 |
| C4BPB | -8,16514 | 4,48E-05 |
| LINC00857 | -8,18096 | 1,30E-11 |
| LCAL1 | -8,18998 | 3,07E-15 |
| CARD6 | -8,19575 | 2,79E-05 |
| TM4SF20 | -8,20019 | 3,15E-05 |
| RNF128 | -8,20648 | 5,08E-05 |
| KLHL3 | -8,21239 | 2,82E-05 |
| ACOT1 | -8,21637 | 1,26E-06 |
| SCG2 | -8,24584 | 3,92E-05 |
| RRAD | -8,2648 | 2,21E-05 |
| GJC2 | -8,27378 | 7,93E-12 |
| FAM27E3 | -8,27894 | 1,94E-05 |
| SOX1 | -8,283 | 2,87E-05 |
| EPHA1-AS1 | -8,28637 | 4,30E-05 |
| MT1A | -8,29999 | 2,36E-05 |
| LINC01268 | -8,3001 | 2,28E-05 |
| SLC7A7 | -8,31436 | 1,42E-17 |
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| LINC00526 | -8,3246 | 1,50E-05 |
| CYB5R2 | -8,32564 | 1,77E-05 |
| VGLL3 | -8,33349 | 2,36E-05 |
| ZNF773 | -8,33509 | 1,39E-05 |
| SLC9A3 | -8,35277 | 0,00013 |

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| SGCE | -8,3539 | 1,27E-05 |
| CSMD3 | -8,36754 | 1,26E-05 |
| SLC22A3 | -8,38377 | 3,33E-05 |
| MYL9 | -8,42429 | 1,14E-05 |
| HNF4A | -8,42684 | 1,41E-59 |
| SNHG18 | -8,42993 | 8,77E-06 |
| PLB1 | -8,43384 | 1,17E-05 |
| TNC | -8,44545 | 2,35E-44 |
| PRSS12 | -8,44853 | 2,78E-18 |
| GAL3ST1 | -8,45544 | 1,01E-05 |
| NPR2 | -8,46067 | 9,97E-07 |
| TMEM246 | -8,48032 | 7,21E-06 |
| NT5E | -8,50096 | 6,03E-06 |
| DLL3 | -8,50278 | 6,00E-06 |
| TM4SF4 | -8,5161 | 0,000459 |
| MT1G | -8,52433 | 6,78E-06 |
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| TLDC2 | -8,54012 | 6,59E-06 |
| LHX5 | -8,54255 | 5,61E-06 |
| GALNT8 | -8,546 | 6,09E-06 |
| GBP3 | -8,54916 | 4,68E-07 |
| AASS | -8,55362 | 4,63E-06 |
| A1CF | -8,55625 | 4,57E-06 |
| CHST13 | -8,56116 | 4,42E-06 |
| CREB3L3 | -8,57003 | 7,01E-06 |
| GUCY2C | -8,58368 | 5,78E-06 |
| SFTA2 | -8,58553 | 3,95E-06 |
| HBQ1 | -8,59293 | 4,64E-06 |
| CDA | -8,60471 | 3,89E-06 |
| TMBIM1 | -8,61297 | 2,13E-77 |
| BATF2 | -8,62272 | 2,78E-18 |
| KLK10 | -8,62367 | 3,27E-25 |
| AMN | -8,6242 | 2,55E-19 |
| LINC00431 | -8,63102 | 6,10E-06 |
| MMP7 | -8,67264 | 2,52E-06 |
| PDZK1IP1 | -8,69467 | 2,22E-06 |
| ZNF503-AS | -8,7122 | 2,12E-06 |
| ELAVL2 | -8,71846 | 2,05E-06 |
| ZNF518B | -8,72587 | 2,99E-06 |
| LINC01559 | -8,72751 | 5,59E-06 |
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| LRRN4 | -8,74397 | 3,35E-06 |
| CDHR5 | -8,7449 | 1,72E-06 |
| OSBPL3 | -8,79375 | 3,50E-68 |
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| TFCP2 | -8,8181 | 4,84E-05 |
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| LINC00668 | -8,84372 | 1,01E-06 |
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| KLK12 | -8,88587 | 8,36E-07 |
| LONRF3 | -8,88872 | 1,64E-14 |
| HOXB8 | -8,89412 | 8,40E-27 |
| VSNL1 | -8,90186 | 1,00E-13 |
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| DPP10 | -8,95143 | 9,51E-15 |
| CCL24 | -8,97766 | 7,38E-07 |
| EMP1 | -8,97885 | 7,07E-15 |
| ITGA1 | -8,97993 | 8,11E-08 |
| RASSF6 | -8,98142 | 1,63E-21 |
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| DIO3 | -8,99229 | 5,96E-23 |
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| ACSL5 | -9,01237 | 8,52E-82 |
| GPR35 | -9,04203 | 8,92E-41 |
| CXCL3 | -9,06779 | 7,46E-08 |
| SLCO2B1 | -9,06794 | 3,01E-07 |
| CDKN2A | -9,06871 | 5,38E-62 |
| C1RL-AS1 | -9,06938 | 2,74E-06 |
| PROM1 | -9,08231 | 4,42E-07 |
| NKX2-5 | -9,15232 | 3,15E-07 |
| HCG26 | -9,1557 | 2,16E-07 |
| C7orf31 | -9,15615 | 2,20E-07 |
| DMRTA2 | -9,19567 | 1,26E-08 |
| TRIM10 | -9,19981 | 1,64E-07 |
| GATA2-AS1 | -9,22479 | 1,07E-08 |
| PCDHA4 | -9,23838 | 1,52E-07 |
| CTS2 | -9,24178 | 3,78E-79 |
| GBGT1 | -9,24407 | 1,15E-07 |
| ALDH2 | -9,29847 | 3,92E-109 |
| CFTR | -9,3181 | 2,69E-07 |
| UGT1A1 | -9,32289 | 7,68E-08 |
| FAM155A | -9,32587 | 9,32E-08 |
| TNFRSF14 | -9,33669 | 3,48E-16 |
| SLC39A5 | -9,35148 | 1,07E-07 |
| DPP4 | -9,3749 | 6,14E-43 |
| DKK4 | -9,38465 | 5,95E-08 |
| DEPDC7 | -9,39259 | 5,08E-08 |
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| UGT8 | -9,43996 | 1,97E-06 |
| DSG4 | -9,44558 | 7,20E-08 |
| CXCL2 | -9,47846 | 1,89E-06 |
| MAP7D2 | -9,48274 | 2,86E-38 |
| TMEM200A | -9,48902 | 2,93E-08 |
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| NPM2 | -9,49977 | 3,92E-08 |
| C1orf61 | -9,57609 | 2,41E-08 |

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| MOGAT3 | -9,57611 | 1,83E-08 |
| GRIN2B | -9,59233 | 1,64E-08 |
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| CNN3 | -9,60202 | 2,17E-09 |
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| SULT4A1 | -9,77483 | 8,09E-09 |
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| ISL1 | -9,83262 | 4,22E-09 |
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| KCNE3 | -9,85194 | 6,59E-10 |
| CCND2 | -9,85526 | 2,41E-137 |
| AGPS | -9,86315 | 3,18E-57 |
| CALB1 | -9,94435 | 4,72E-10 |
| CD40 | -9,96295 | 2,12E-09 |
| SLC38A5 | -9,99038 | 7,96E-68 |
| LINC00941 | -9,99283 | 1,99E-09 |
| ONECUT3 | -10,0111 | 3,28E-09 |
| ATP10B | -10,0278 | 5,34E-28 |
| WBP5 | -10,0544 | 1,49E-09 |
| GOS2 | -10,0587 | 1,19E-09 |
| SOX8 | -10,0591 | 4,09E-27 |
| ETS1 | -10,0902 | 1,07E-09 |
| GDA | -10,0986 | 9,21E-10 |
| ADAMTSL2 | -10,1632 | 2,53E-09 |
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| FAM71E1 | -10,2324 | 8,36E-10 |
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| IRF8 | -10,2786 | 5,16E-10 |
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| TDRD12 | -10,4166 | 5,13E-21 |
| LOC100507 | -10,4253 | 1,93E-10 |
| TTC22 | -10,4288 | 1,40E-10 |
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| CDKN1C | -10,4823 | 1,95E-09 |
| C5orf42 | -10,4856 | 1,48E-10 |
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| REG3A | -10,5306 | 1,54E-09 |
| TCEAL8 | -10,5639 | 7,07E-11 |

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| GJB1 | -10,573 | 5,17E-10 |
| ZNF300 | -10,5732 | 1,32E-10 |
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| HOXB5 | -10,6276 | 4,46E-11 |
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| RAC2 | -10,7348 | 2,50E-11 |
| FRG1CP | -10,7431 | 2,30E-11 |
| SLC5A1 | -10,8114 | 1,98E-11 |
| NUDT16P1 | -10,8842 | 1,30E-11 |
| HRH1 | -10,8993 | 1,22E-11 |
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| MYH4 | -10,9294 | 1,23E-11 |
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| KLK6 | -11,0526 | 5,79E-45 |
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| CCAT1 | -11,1181 | 2,54E-12 |
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| MT1E | -11,3247 | 1,01E-12 |
| KCNJ2 | -11,3492 | 8,37E-13 |
| TNFSF15 | -11,3685 | 2,20E-12 |
| HMGA2 | -11,4013 | 1,34E-13 |
| PHGR1 | -11,4116 | 1,31E-12 |
| MDFI | -11,4126 | 4,49E-13 |
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| CA13 | -11,5508 | 1,36E-12 |
| KIRREL | -11,6004 | 1,61E-13 |
| SDHAF3 | -11,6316 | 2,34E-13 |
| USH1C | -11,7058 | 2,29E-14 |
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| C2CD2 | -11,8585 | 4,76E-14 |

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| DPP10-AS1 | -12,2617 | 3,16E-15 |
| FGFBP1 | -12,3204 | 3,23E-15 |
| MMP1 | -12,3263 | 3,30E-14 |
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| HEPH | -12,6905 | 2,66E-16 |
| SIGMAR1 | -12,7302 | 1,02E-31 |
| GCNT3 | -12,7503 | 1,53E-16 |
| EPS8L3 | -12,8443 | 8,14E-17 |
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| GPA33 | -13,1721 | 1,37E-17 |
| CES1 | -13,2664 | 1,30E-17 |
| TSPAN8 | -13,4141 | 2,35E-18 |
| TINAGL1 | -13,5457 | 1,28E-18 |
| DDC | -13,5966 | 9,30E-19 |
| IGF2BP3 | -13,6638 | 6,43E-19 |
| SAMD5 | -13,7191 | 3,96E-19 |
| GALNT5 | -13,7696 | 2,28E-19 |
| MUC17 | -13,7966 | 1,57E-18 |
| EMC10 | -13,8489 | 1,37E-19 |
| GPX1 | -14,2001 | 2,27E-20 |
| CLDN2 | -14,6936 | 5,15E-22 |
| CDH17 | -14,8429 | 1,94E-22 |
| XIST | -14,8789 | 6,68E-10 |
| VIL1 | -15,1111 | 2,81E-23 |
| MUC13 | -15,3276 | 6,28E-24 |
| FLNC | -16,1695 | 2,21E-26 |

HCT15

| Gene | log2FoldCh | FDR |
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| BMP7 | 16,08871 | 3,59E-26 |
| FREM2 | 15,46054 | 3,87E-24 |
| LDOC1 | 14,83828 | 6,13E-22 |
| TSPYL5 | 14,70998 | 7,20E-22 |
| FAM127B | 14,51422 | 2,69E-21 |
| C3orf14 | 14,31005 | 1,67E-20 |
| STC1 | 14,25015 | 2,78E-20 |
| EFEMP1 | 14,01727 | 8,73E-20 |
| PPP2R2C | 14,00795 | 7,87E-20 |
| ELOVL5 | 14,00236 | 7,89E-20 |
| ESR1 | 13,96691 | 1,24E-19 |
| FAM127A | 13,79486 | 2,13E-18 |
| BNIP3 | 13,67158 | 8,23E-19 |
| GFRA1 | 13,63107 | 3,08E-18 |
| OBSL1 | 13,6066 | 2,92E-18 |
| ANTXR1 | 13,54043 | 1,64E-18 |
| TFF1 | 13,47215 | 3,11E-18 |
| S1PR3 | 13,4291 | 4,38E-11 |
| DSCAM-AS1 | 13,41322 | 8,68E-11 |
| HSPB8 | 13,19107 | 4,78E-17 |
| H2AFJ | 13,16881 | 2,80E-17 |
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| MYEF2 | 13,03724 | 1,22E-16 |
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| ACSS3 | 12,86763 | 1,40E-17 |
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| BST2 | 12,77299 | 4,68E-08 |
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| SPDEF | 12,6842 | 1,65E-15 |
| ALDH3B2 | 12,68083 | 3,16E-15 |
| HS6ST2 | 12,67379 | 9,63E-16 |
| DYNC1I1 | 12,66238 | 4,13E-16 |
| COLEC12 | 12,61011 | 4,23E-15 |
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| EMB | 12,59489 | 6,32E-16 |
| KYNU | 12,48043 | 5,49E-15 |
| CBS | 12,46973 | 1,39E-15 |
| ANO6 | 12,45716 | 1,86E-15 |
| SPG20 | 12,44866 | 1,63E-15 |
| L1CAM | 12,40309 | 6,19E-15 |
| PCDH18 | 12,39491 | 1,93E-08 |
| B4GALNT4 | 12,38271 | 6,77E-15 |

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| PCDHA11 | 12,37883 | 3,92E-15 |
| ZNF22 | 12,30551 | 2,24E-14 |
| NRCAM | 12,29366 | 1,24E-14 |
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| DLX5 | 12,27423 | 5,50E-15 |
| LIN7A | 12,26351 | 8,47E-15 |
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| ADGRB1 | 12,15092 | 9,63E-15 |
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| FBXO17 | 12,1052 | 3,99E-14 |
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| ZNF829 | 12,0339 | 3,49E-14 |
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| DTX3 | 11,89689 | 4,42E-14 |
| AR | 11,85234 | 6,04E-14 |
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| GALNT14 | 11,82153 | 6,96E-14 |
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| MMP17 | 11,7645 | 9,78E-14 |
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| KRBA1 | 11,60867 | 2,90E-13 |
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| ASCL4 | 11,59737 | 3,03E-13 |
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| EFS | 11,47244 | 6,78E-13 |
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| RIMS4 | 11,28752 | 8,31E-12 |
| PGR | 11,27648 | 7,34E-11 |
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| SOX2 | 11,19864 | 2,88E-12 |
| RGMA | 11,1934 | 4,60E-12 |
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| FGF12 | 11,16081 | 6,10E-12 |
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| EXO5 | 10,74576 | 4,79E-11 |
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| RAB31 | 10,73773 | 1,55E-10 |
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| ZNF347 | 10,67226 | 9,73E-11 |
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| SHISA9 | 10,65819 | 1,09E-10 |
| EHD3 | 10,64886 | 1,32E-10 |
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| AARD | 10,61437 | 9,48E-11 |
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| HPDL | 10,58731 | 1,19E-10 |
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| CXCR4 | 10,53595 | 1,59E-10 |
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| LINC00925 | 10,39606 | 3,77E-10 |
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| ERBB4 | 10,38949 | 5,48E-10 |
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| ZBED9 | 10,37291 | 3,80E-10 |
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| ZNF732 | 10,32627 | 9,76E-10 |
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| IGFBP5 | 10,12845 | 1,65E-18 |
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| CHST8 | 10,10453 | 1,79E-09 |
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| BEND5 | 9,989825 | 4,50E-09 |
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| FAM3B | 9,767518 | 6,66E-10 |
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| DDX43 | 9,73766 | 1,90E-08 |
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| GPR27 | 9,731577 | 1,84E-08 |
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| ZDBF2 | 9,617959 | 5,92E-08 |
| ZNF879 | 9,602217 | 3,35E-08 |
| ZNF354C | 9,600252 | 3,77E-08 |
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| RAB34 | 9,569217 | 1,75E-23 |
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| TUB | 9,378697 | 1,14E-07 |
| THBD | 9,373821 | 1,45E-07 |
| SHISA2 | 9,336291 | 2,42E-07 |
| GSG1L | 9,334491 | 1,60E-07 |
| CRABP1 | 9,317725 | 4,98E-07 |
| PGM5 | 9,317352 | 2,32E-07 |
| ADAMTS9 | 9,313517 | 1,07E-06 |
| SLC22A17 | 9,312854 | 1,75E-07 |
| SPSB4 | 9,30596 | 3,77E-07 |
| GRIK3 | 9,279889 | 8,96E-07 |
| HOXC13-AS | 9,260037 | 2,95E-07 |
| TNFRSF18 | 9,255547 | 1,65E-06 |
| AMZ1 | 9,254918 | 4,48E-07 |
| RNF150 | 9,254693 | 2,62E-07 |
| RPRM | 9,249577 | 6,08E-07 |
| HTR2C | 9,242047 | 2,55E-07 |
| CACNA1H | 9,240967 | 1,19E-07 |
| TMEM163 | 9,237309 | 3,52E-07 |
| S100A9 | 9,228318 | 3,92E-05 |
| NHLRC1 | 9,216129 | 8,44E-07 |
| RADIL | 9,214822 | 1,04E-06 |
| C3orf67 | 9,209012 | 8,21E-07 |
| CNNM1 | 9,206388 | 2,97E-07 |
| PCDHA5 | 9,204132 | 3,15E-07 |

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| SLC12A5 | 9,191678 | 3,22E-07 |
| CALCR | 9,19097 | 4,50E-07 |
| KCNMB2-A | 9,190703 | 3,25E-07 |
| SNCAIP | 9,184104 | 3,36E-07 |
| PLEKHA8P1 | 9,173467 | 9,84E-07 |
| PLA2G3 | 9,170193 | 2,11E-06 |
| MPPED2 | 9,137487 | 1,57E-06 |
| ELOVL4 | 9,124756 | 1,16E-06 |
| PCDHB16 | 9,124317 | 1,16E-20 |
| TPTE | 9,123467 | 5,52E-07 |
| FBXO15 | 9,121688 | 4,82E-07 |
| LOC644915 | 9,112071 | 7,64E-07 |
| MGAT5B | 9,103718 | 8,15E-07 |
| ADAMTS19 | 9,098045 | 5,60E-07 |
| DSCAM | 9,091345 | 1,29E-06 |
| CIART | 9,077921 | 2,91E-23 |
| BEX4 | 9,076557 | 6,39E-07 |
| SLC25A21-1 | 9,074296 | 7,40E-06 |
| TENM1 | 9,071485 | 1,01E-06 |
| PRICKLE2-A | 9,066576 | 7,25E-07 |
| LOC339803 | 9,06613 | 1,48E-06 |
| HOMER2 | 9,061482 | 2,38E-12 |
| SEMA3D | 9,056499 | 2,16E-06 |
| LINC00664 | 9,051103 | 1,47E-06 |
| MB21D1 | 9,049926 | 7,96E-07 |
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| A1BG-AS1 | 9,045527 | 2,80E-08 |
| PCDHA13 | 9,030977 | 8,19E-07 |
| LINC00665 | 9,020751 | 1,11E-20 |
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| PRTG | 8,994931 | 9,73E-07 |
| MTMR7 | 8,994558 | 9,69E-07 |
| CEACAM1 | 8,952554 | 4,20E-08 |
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| MAGEE1 | 8,944729 | 1,49E-06 |
| LOC728735 | 8,943651 | 1,44E-06 |
| MAP10 | 8,930739 | 2,02E-06 |
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| FAM81B | 8,909213 | 2,02E-06 |
| ZIC4 | 8,884681 | 1,77E-06 |
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| SNAP25 | 8,840921 | 2,75E-06 |
| ANK1 | 8,839004 | 3,57E-05 |
| EPHA4 | 8,836724 | 4,75E-06 |
| ARMCX1 | 8,835459 | 4,15E-06 |
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| TMEM132F | 8,826407 | 0,00011 |
| SLFN11 | 8,800151 | 3,26E-06 |
| DOCK10 | 8,794527 | 4,82E-06 |

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| RAI2 | 8,794527 | 4,82E-06 |
| LOC728392 | 8,777575 | 7,90E-06 |
| TTC29 | 8,776723 | 3,24E-06 |
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| EGFL7 | 8,74991 | 9,64E-07 |
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| PVALB | 8,735846 | 1,01E-05 |
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| ZNF726 | 8,727807 | 1,13E-05 |
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| SNAR-E | 8,686466 | 1,16E-05 |
| GATA5 | 8,684125 | 5,72E-06 |
| TNNT1 | 8,672667 | 5,76E-13 |
| GJA1 | 8,669515 | 2,91E-05 |
| WIF1 | 8,668554 | 3,43E-05 |
| USP51 | 8,66771 | 9,14E-06 |
| PCDH9 | 8,667105 | 9,92E-06 |
| LRRK2 | 8,664269 | 7,90E-06 |
| IGFL1 | 8,661223 | 0,00018 |
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| GUCY1B3 | 8,640412 | 8,13E-06 |
| SLC6A14 | 8,637063 | 7,01E-06 |
| RET | 8,628736 | 1,09E-11 |
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| ZNF98 | 8,59805 | 1,57E-05 |
| F7 | 8,557288 | 3,80E-05 |
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| TARP | 8,53361 | 4,41E-05 |
| PCDHGA4 | 8,532653 | 1,37E-05 |
| MAPK4 | 8,511034 | 2,31E-06 |
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| PART1 | 8,484019 | 1,72E-05 |
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| FLT3 | 8,463026 | 1,62E-05 |
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| ACTG2 | 8,453803 | 3,66E-06 |
| WFDC2 | 8,438235 | 3,24E-05 |
| SPOCK1 | 8,417745 | 2,63E-05 |
| FOXI3 | 8,417631 | 2,21E-05 |
| POU6F2 | 8,407022 | 2,42E-05 |
| MYT1 | 8,405425 | 6,03E-07 |
| GRID1 | 8,40477 | 2,76E-05 |
| EDN1 | 8,388377 | 2,04E-15 |
| CDH18 | 8,379038 | 2,95E-05 |
| HIST1H3G | 8,376053 | 2,59E-05 |

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| GHR | 8,374908 | 2,54E-05 |
| DIRAS1 | 8,373828 | 3,34E-30 |
| EFNB3 | 8,370232 | 5,64E-12 |
| VIM-AS1 | 8,365007 | 3,01E-05 |
| MSRB3 | 8,363273 | 2,84E-05 |
| ZNF512B | 8,351877 | 8,11E-45 |
| OLFM1 | 8,347818 | 4,05E-27 |
| RNF180 | 8,335124 | 4,38E-05 |
| SLIT2 | 8,331474 | 3,08E-05 |
| ZNF345 | 8,329112 | 3,16E-05 |
| XKR7 | 8,315214 | 5,79E-05 |
| MAFB | 8,291527 | 2,40E-20 |
| FIRRE | 8,286017 | 2,47E-06 |
| RIBC2 | 8,282362 | 0,000168 |
| LPPR3 | 8,281734 | 0,000184 |
| PCDHGA5 | 8,279224 | 4,40E-05 |
| SPEG | 8,276772 | 4,15E-05 |
| TH | 8,270516 | 6,45E-05 |
| FBN2 | 8,265952 | 9,91E-11 |
| ADAMTSL3 | 8,264437 | 5,92E-05 |
| SNCB | 8,252471 | 0,000257 |
| XG | 8,240529 | 0,000477 |
| ICOS | 8,239214 | 5,37E-05 |
| ARL11 | 8,234025 | 5,34E-05 |
| LOC101927 | 8,233508 | 7,57E-05 |
| LOC440461 | 8,228883 | 0,000101 |
| EMCN | 8,219916 | 5,89E-05 |
| EWSAT1 | 8,216821 | 9,36E-05 |
| CBFA2T3 | 8,215246 | 2,92E-05 |
| ZNF423 | 8,214804 | 5,47E-05 |
| PCDHAC1 | 8,212788 | 0,000101 |
| GSC | 8,210957 | 0,000174 |
| KCNF1 | 8,207095 | 6,83E-05 |
| LINC00885 | 8,205069 | 0,000244 |
| ZNF93 | 8,203395 | 3,08E-05 |
| IGSF1 | 8,189363 | 0,000255 |
| BEX5 | 8,186029 | 0,000172 |
| NXPH3 | 8,179393 | 9,70E-05 |
| TP53INP1 | 8,177881 | 2,02E-24 |
| GPM6B | 8,166847 | 6,91E-05 |
| PCBP3 | 8,166465 | 4,16E-11 |
| KCNU1 | 8,16287 | 7,67E-05 |
| ZNF730 | 8,156274 | 2,14E-06 |
| CYP4F22 | 8,128845 | 0,000103 |
| CCSER1 | 8,128303 | 0,000102 |
| SGCG | 8,120034 | 0,000198 |
| ALOX12P2 | 8,117241 | 0,000271 |
| CALML5 | 8,116434 | 0,000139 |
| CPEB1 | 8,112287 | 0,000109 |
| RIMS2 | 8,112287 | 0,000109 |

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| GJB5 | 8,109574 | 0,000386 |
| NRK | 8,106751 | 0,000273 |
| PCDHB9 | 8,102737 | 4,88E-11 |
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| WASF3 | 8,086964 | 1,12E-20 |
| ZNF155 | 8,079296 | 0,000128 |
| SARDH | 8,070754 | 0,000245 |
| NDNF | 8,069411 | 0,000109 |
| CD36 | 8,068599 | 0,000204 |
| DRD1 | 8,063615 | 0,00064 |
| C8orf48 | 8,060014 | 0,000126 |
| SULF2 | 8,05757 | 2,51E-126 |
| CAPN9 | 8,04568 | 0,000149 |
| DEFB126 | 8,034688 | 0,000129 |
| LOC441666 | 8,027253 | 0,000156 |
| SNAR-G1 | 8,010961 | 0,000177 |
| PHF21B | 7,996037 | 0,000766 |
| PNMA6A | 7,992385 | 0,000203 |
| KDR | 7,990736 | 0,000174 |
| ZFP3 | 7,98958 | 7,19E-28 |
| B4GALNT1 | 7,969386 | 2,17E-20 |
| HOXC13 | 7,968536 | 1,53E-18 |
| LRP2 | 7,967447 | 5,32E-17 |
| FLRT3 | 7,957453 | 2,43E-63 |
| BLNK | 7,945738 | 5,12E-05 |
| NKILA | 7,945582 | 0,000195 |
| IBSP | 7,94481 | 0,000198 |
| RDH16 | 7,944641 | 3,35E-18 |
| PABPC4L | 7,938604 | 0,000256 |
| SLC5A5 | 7,927442 | 0,000409 |
| PARVB | 7,921669 | 4,77E-23 |
| PAPLN | 7,919696 | 0,000285 |
| IFI44L | 7,918364 | 6,51E-05 |
| KCNJ4 | 7,916388 | 0,000233 |
| LINC00494 | 7,910079 | 0,000225 |
| PMEPA1 | 7,909712 | 4,23E-53 |
| CEACAM5 | 7,909187 | 0,000461 |
| LRRIQ1 | 7,907705 | 0,000235 |
| DAAM2 | 7,890793 | 0,000246 |
| NAP1L2 | 7,888258 | 0,000434 |
| CA4 | 7,883551 | 0,000311 |
| ZNF790-AS | 7,877029 | 4,39E-10 |
| ZNF547 | 7,873679 | 0,000262 |
| EDIL3 | 7,873623 | 0,000692 |
| TIMP3 | 7,868399 | 7,09E-10 |
| VAV1 | 7,853819 | 8,16E-10 |
| ZNF304 | 7,846697 | 2,68E-30 |
| ALOX15 | 7,840508 | 1,73E-18 |
| PTPRG-AS1 | 7,839038 | 1,66E-14 |
| NDRG4 | 7,83144 | 1,31E-12 |

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| ZNF529-AS | 7,813502 | 0,000342 |
| BRINP2 | 7,809125 | 0,000589 |
| COL3A1 | 7,806554 | 0,000504 |
| GPC3 | 7,797252 | 0,000757 |
| PIK3C2G | 7,793659 | 0,000941 |
| C8orf46 | 7,790297 | 0,000394 |
| FAR2P1 | 7,786166 | 9,55E-09 |
| MB | 7,778151 | 1,14E-17 |
| PCDHB10 | 7,75852 | 1,18E-05 |
| ZNF793-AS | 7,754229 | 0,000443 |
| PCDHGB3 | 7,752468 | 0,000445 |
| ARHGDIB | 7,746177 | 0,000286 |
| C17orf51 | 7,721037 | 0,000672 |
| FILIP1L | 7,691498 | 0,000582 |
| LRFN5 | 7,690579 | 0,000579 |
| DPY19L2P1 | 7,6765 | 0,000742 |
| FHL1 | 7,672767 | 0,000668 |
| FNBP1 | 7,670933 | 4,39E-54 |
| PACRG | 7,66248 | 0,000677 |
| PLXNA4 | 7,652195 | 2,27E-15 |
| SOX11 | 7,650953 | 0,000739 |
| PDIA2 | 7,643364 | 0,000703 |
| KRT81 | 7,638751 | 1,38E-10 |
| MEIS1 | 7,635725 | 0,000854 |
| ST8SIA1 | 7,626879 | 0,000787 |
| C19orf81 | 7,619254 | 2,32E-05 |
| TNFRSF11B | 7,619164 | 0,000783 |
| FGF13 | 7,611388 | 0,001003 |
| DCLK1 | 7,606463 | 4,56E-40 |
| JPH3 | 7,605847 | 3,79E-09 |
| HAGLROS | 7,59848 | 0,000839 |
| PTPRQ | 7,596517 | 0,000855 |
| SLCO4C1 | 7,591592 | 0,000962 |
| PDZD4 | 7,583032 | 1,25E-12 |
| ABCC8 | 7,575503 | 0,000921 |
| LHX2 | 7,568875 | 3,48E-05 |
| GATA3 | 7,541784 | 7,07E-67 |
| KIF5C | 7,49482 | 4,58E-05 |
| SALL4 | 7,456777 | 2,38E-11 |
| AMOTL1 | 7,449595 | 8,61E-40 |
| CCL5 | 7,430154 | 6,93E-07 |
| MAP1B | 7,412889 | 1,54E-24 |
| PCDH19 | 7,411947 | 8,33E-05 |
| ZNF614 | 7,364365 | 3,09E-28 |
| MYLK | 7,3594 | 6,76E-05 |
| LOC10013C | 7,356492 | 7,43E-05 |
| FBXO27 | 7,353658 | 7,74E-34 |
| FCHO1 | 7,339099 | 5,90E-67 |
| CRLF1 | 7,327358 | 5,00E-08 |
| RGAG4 | 7,309785 | 8,19E-08 |

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| PCDHGB2 | 7,275853 | 0,000113 |
| DNAJA4 | 7,252774 | 9,99E-33 |
| SEMA3C | 7,243898 | 2,39E-132 |
| ATRNL1 | 7,176054 | 0,000143 |
| SLC25A21 | 7,172936 | 0,000148 |
| MARCH1 | 7,171825 | 2,55E-07 |
| UPK3B | 7,167938 | 0,000494 |
| RIMKLB | 7,164873 | 6,36E-34 |
| TUSC3 | 7,163633 | 1,24E-45 |
| AP4B1-AS1 | 7,151144 | 2,34E-20 |
| SPTSSB | 7,125687 | 5,26E-29 |
| CERS4 | 7,118084 | 3,55E-17 |
| PCDHB2 | 7,116907 | 4,92E-38 |
| TMEM37 | 7,109778 | 7,43E-26 |
| KCNMA1 | 7,106614 | 4,83E-07 |
| DNALI1 | 7,1043 | 0,000197 |
| ADAMTS19 | 7,091058 | 1,13E-47 |
| TBC1D9 | 7,084568 | 1,31E-90 |
| DHRS2 | 7,039216 | 6,60E-39 |
| HIST1H2AE | 7,032101 | 0,000765 |
| PRICKLE2 | 6,999566 | 1,31E-51 |
| KIAA1324 | 6,969253 | 4,80E-06 |
| CYP1A1 | 6,948864 | 8,81E-09 |
| DPYSL5 | 6,907482 | 2,56E-21 |
| PREX1 | 6,893009 | 4,86E-78 |
| APOA1 | 6,880846 | 0,000466 |
| ZNF467 | 6,864893 | 1,55E-45 |
| GATA3-AS1 | 6,864765 | 0,00052 |
| NUP210L | 6,8636 | 6,61E-25 |
| ZNF302 | 6,808967 | 6,23E-27 |
| MRI1 | 6,794372 | 1,68E-36 |
| WIPF1 | 6,754245 | 0,000702 |
| SH3GL3 | 6,751788 | 2,39E-06 |
| LDHD | 6,716967 | 3,84E-07 |
| GNAS-AS1 | 6,713782 | 0,000798 |
| CCL2 | 6,696965 | 1,08E-08 |
| CSTA | 6,696502 | 1,28E-09 |
| TDRD1 | 6,691593 | 1,05E-25 |
| SYT5 | 6,68305 | 0,00091 |
| TLX1NB | 6,67414 | 0,000962 |
| RASSF2 | 6,650467 | 2,17E-08 |
| FLT4 | 6,632761 | 1,82E-05 |
| RND2 | 6,627384 | 6,77E-18 |
| PTPRS | 6,553692 | 2,18E-50 |
| HBA1 | 6,546274 | 3,01E-07 |
| HSPA1A | 6,539755 | 6,22E-27 |
| FAM101B | 6,530443 | 8,54E-06 |
| CHST11 | 6,527232 | 3,35E-41 |
| PCSK1N | 6,523186 | 1,16E-37 |
| MDK | 6,500897 | 1,19E-62 |

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| ECHDC3 | 6,488805 | 1,38E-10 |
| CAMK2B | 6,478044 | 3,40E-12 |
| NFATC1 | 6,469721 | 5,12E-12 |
| SLC8A1 | 6,451777 | 6,15E-15 |
| IGF1 | 6,439017 | 9,44E-06 |
| OLFM2 | 6,429342 | 1,32E-23 |
| C2orf74 | 6,410526 | 6,73E-08 |
| RNF182 | 6,408051 | 6,47E-18 |
| PCED1B | 6,400561 | 2,98E-05 |
| VIM | 6,377832 | 2,83E-05 |
| UPK2 | 6,375548 | 2,93E-08 |
| HCN2 | 6,369543 | 1,61E-26 |
| BCL11B | 6,365305 | 3,26E-53 |
| BMP2 | 6,32244 | 6,73E-47 |
| TIGD7 | 6,319351 | 3,94E-05 |
| GNG13 | 6,316984 | 6,33E-07 |
| SHANK1 | 6,303675 | 2,87E-06 |
| SHC2 | 6,29574 | 9,38E-05 |
| TUBB4A | 6,294287 | 8,72E-09 |
| GREB1 | 6,264173 | 1,03E-75 |
| NODAL | 6,256146 | 0,000102 |
| WDR72 | 6,245963 | 3,43E-27 |
| CD24 | 6,234964 | 1,68E-79 |
| FGD1 | 6,229035 | 2,35E-23 |
| ETNK2 | 6,220881 | 2,28E-37 |
| KCNN4 | 6,211672 | 2,51E-10 |
| ST8SIA4 | 6,210086 | 1,98E-16 |
| RHOBTB1 | 6,181665 | 5,28E-129 |
| HOXC10 | 6,179927 | 1,55E-39 |
| HPN | 6,178262 | 3,70E-18 |
| ZNF610 | 6,173175 | 7,21E-05 |
| INPP4B | 6,157576 | 3,42E-40 |
| NELL2 | 6,15547 | 0,000168 |
| UCP2 | 6,144526 | 9,20E-100 |
| ZNF114 | 6,134301 | 2,40E-23 |
| PCAT6 | 6,130764 | 9,11E-05 |
| ZNF550 | 6,111569 | 4,20E-05 |
| A1BG | 6,109214 | 6,00E-10 |
| PCLO | 6,107469 | 4,67E-30 |
| LYPD3 | 6,100447 | 7,23E-16 |
| SLC22A31 | 6,066771 | 3,11E-07 |
| RPP25 | 6,056751 | 5,61E-37 |
| IGFBP3 | 6,027321 | 2,59E-07 |
| TRPS1 | 6,021314 | 4,87E-84 |
| PKIB | 6,019833 | 3,49E-56 |
| VSTM2L | 6,017575 | 0,000115 |
| RENB | 6,007876 | 0,00015 |
| PRAME | 5,999086 | 1,16E-12 |
| NPR3 | 5,998584 | 1,12E-23 |
| CALD1 | 5,987135 | 4,60E-09 |

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| FAM20C | 5,975162 | 5,27E-20 |
| LCP1 | 5,910377 | 1,10E-27 |
| ABCB6 | 5,90875 | 9,43E-54 |
| HTRA1 | 5,902424 | 5,78E-22 |
| C1orf233 | 5,900041 | 2,11E-55 |
| TBX2-AS1 | 5,897034 | 1,12E-11 |
| FAM69B | 5,888908 | 1,11E-12 |
| LINC00886 | 5,88871 | 8,81E-14 |
| IGSF5 | 5,850408 | 3,13E-07 |
| FGFR4 | 5,850092 | 4,03E-54 |
| PCDHGA1 | 5,820413 | 0,000259 |
| SIDT1 | 5,818504 | 1,08E-15 |
| COL9A2 | 5,811118 | 6,32E-14 |
| LINC01006 | 5,809716 | 8,94E-06 |
| FAM198B | 5,809324 | 1,39E-19 |
| KHDC1 | 5,756928 | 0,000906 |
| PALM | 5,717439 | 2,37E-19 |
| DLGAP3 | 5,713587 | 3,76E-15 |
| KIF1A | 5,695326 | 1,04E-46 |
| YBX2 | 5,673939 | 6,64E-50 |
| ITGA2B | 5,670269 | 1,05E-09 |
| IFI27 | 5,664103 | 2,01E-06 |
| ENTPD1 | 5,65227 | 5,82E-14 |
| JAM2 | 5,634845 | 9,83E-05 |
| TTC28 | 5,633596 | 8,77E-12 |
| CYP1B1 | 5,623458 | 2,10E-24 |
| LRIG1 | 5,613511 | 1,48E-10 |
| C14orf37 | 5,584641 | 2,82E-06 |
| MANSC4 | 5,543078 | 2,27E-05 |
| NRSN2 | 5,541817 | 4,08E-23 |
| TTN-AS1 | 5,539068 | 0,00099 |
| ARC | 5,535545 | 1,98E-07 |
| B3GALT4 | 5,522215 | 2,63E-05 |
| BCAS3 | 5,51217 | 1,55E-60 |
| NPAS3 | 5,486139 | 0,0005 |
| HHAT | 5,456927 | 7,72E-07 |
| COL18A1 | 5,4492 | 1,48E-58 |
| PLXDC2 | 5,435939 | 6,28E-33 |
| TMEM229E | 5,425635 | 1,09E-16 |
| FRMD6-AS1 | 5,414243 | 6,61E-07 |
| TEX19 | 5,40905 | 3,34E-08 |
| LINGO1 | 5,392236 | 1,40E-49 |
| KIAA1324L | 5,391856 | 5,38E-47 |
| P3H2 | 5,34857 | 2,28E-16 |
| ZBTB7C | 5,345057 | 4,74E-07 |
| CNIH2 | 5,33844 | 5,23E-19 |
| PROM2 | 5,323381 | 2,98E-28 |
| APCDD1 | 5,276923 | 1,87E-18 |
| KLHL13 | 5,259367 | 5,21E-09 |
| TNFAIP8L3 | 5,247228 | 1,10E-20 |

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| GPNMB | 5,240145 | 5,19E-25 |
| MCC | 5,234503 | 4,27E-08 |
| ATP6V0A4 | 5,212878 | 0,000677 |
| CYP24A1 | 5,153249 | 1,19E-07 |
| MAPK8IP1 | 5,148213 | 7,38E-23 |
| RINL | 5,147567 | 9,76E-09 |
| GNG7 | 5,143712 | 1,59E-08 |
| PLIN2 | 5,121788 | 4,88E-10 |
| TMEM150C | 5,120575 | 2,04E-16 |
| P2RY2 | 5,111378 | 9,19E-23 |
| ANKRD6 | 5,109146 | 6,17E-05 |
| CACNA2D1 | 5,09358 | 7,90E-16 |
| HES2 | 5,086522 | 1,93E-09 |
| WNT6 | 5,061169 | 1,15E-05 |
| RBMS1 | 5,053348 | 2,23E-38 |
| LYPD1 | 5,050464 | 5,55E-10 |
| DEF6 | 5,028628 | 4,49E-16 |
| FAM109B | 5,020481 | 3,04E-14 |
| MAP2K6 | 5,017535 | 1,41E-05 |
| CKB | 5,010472 | 6,71E-27 |
| FAM46C | 4,959239 | 1,28E-12 |
| OGDHL | 4,950264 | 6,12E-21 |
| SPATA17 | 4,946956 | 2,94E-11 |
| SIX1 | 4,916993 | 1,45E-24 |
| ABLIM3 | 4,909931 | 5,94E-05 |
| ECHDC2 | 4,896349 | 3,46E-11 |
| ARHGAP4 | 4,890123 | 1,04E-10 |
| ERG | 4,881965 | 2,55E-06 |
| HS6ST3 | 4,87939 | 0,000818 |
| RIPPLY3 | 4,875492 | 5,48E-05 |
| STON2 | 4,823918 | 1,13E-34 |
| C16orf45 | 4,811901 | 2,12E-05 |
| OAS2 | 4,81111 | 0,000316 |
| PCDHGA6 | 4,807086 | 0,000694 |
| BMF | 4,806099 | 9,05E-07 |
| CELF5 | 4,802362 | 2,76E-07 |
| RGS14 | 4,791011 | 3,46E-18 |
| HIST1H2BH | 4,774529 | 0,000228 |
| SLCO3A1 | 4,772043 | 8,41E-09 |
| KRT17 | 4,768338 | 1,22E-06 |
| SUSD2 | 4,750213 | 2,31E-09 |
| HLA-DQB1 | 4,744778 | 2,55E-07 |
| SOCS1 | 4,744096 | 3,04E-12 |
| RGS17 | 4,736385 | 0,000332 |
| ZNF433 | 4,732872 | 4,27E-09 |
| EEF1A2 | 4,695411 | 2,03E-05 |
| RUNDC3A | 4,674135 | 0,000168 |
| C2CD4C | 4,665505 | 0,000831 |
| HMCN1 | 4,660331 | 0,000213 |
| NEB | 4,659666 | 2,85E-33 |

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| OLFML3 | 4,658768 | 0,000124 |
| TCEA3 | 4,656823 | 1,43E-35 |
| LOXL1-AS1 | 4,653322 | 2,19E-05 |
| KRT86 | 4,645182 | 0,000124 |
| CACNG4 | 4,641652 | 5,18E-34 |
| TSPEAR | 4,612706 | 7,76E-08 |
| SEMA6A | 4,603548 | 1,92E-13 |
| TP53TG1 | 4,603482 | 7,15E-23 |
| ABCG1 | 4,601026 | 8,80E-08 |
| CMTM3 | 4,594483 | 1,58E-08 |
| CHRM1 | 4,591863 | 1,10E-09 |
| LOX | 4,577035 | 0,000127 |
| GLUD2 | 4,576987 | 1,17E-15 |
| ST3GAL1 | 4,572296 | 7,87E-20 |
| FOXA2 | 4,568752 | 0,000115 |
| ZNF461 | 4,553474 | 7,78E-08 |
| HOXD12 | 4,552545 | 0,00071 |
| RCN3 | 4,544247 | 4,46E-05 |
| MUC1 | 4,541145 | 4,01E-15 |
| LONRF2 | 4,515429 | 7,15E-21 |
| SERHL2 | 4,502201 | 0,000314 |
| CDYL2 | 4,494359 | 2,30E-13 |
| LOC728554 | 4,488191 | 1,62E-21 |
| FBP1 | 4,479201 | 3,89E-62 |
| SEC31A | 4,461775 | 1,15E-45 |
| AK7 | 4,449337 | 5,37E-34 |
| ISYNA1 | 4,448357 | 6,17E-27 |
| FSTL4 | 4,405357 | 1,49E-06 |
| CTXN1 | 4,391017 | 2,50E-57 |
| TINCR | 4,389555 | 1,93E-11 |
| DDAH2 | 4,383248 | 1,42E-31 |
| ARHGEF10 | 4,382559 | 1,67E-10 |
| ZNF701 | 4,359647 | 2,36E-21 |
| USP32 | 4,354479 | 1,79E-34 |
| FXD3 | 4,342717 | 1,55E-11 |
| PFDN4 | 4,341927 | 1,88E-62 |
| AEBP1 | 4,331768 | 1,53E-05 |
| LMO2 | 4,319251 | 0,000739 |
| S100P | 4,310627 | 0,000365 |
| KCNJ3 | 4,306773 | 2,44E-07 |
| TUBA1A | 4,28584 | 6,16E-51 |
| STMND1 | 4,277598 | 2,89E-05 |
| SERPINI1 | 4,275834 | 2,13E-06 |
| HOTAIR | 4,272042 | 4,45E-05 |
| MEX3B | 4,264261 | 2,74E-37 |
| ZNF385A | 4,252423 | 2,37E-54 |
| REPS2 | 4,247116 | 7,19E-07 |
| COL6A1 | 4,235951 | 3,69E-09 |
| CEL | 4,220445 | 1,28E-05 |
| NOTCH3 | 4,208004 | 1,53E-57 |

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| HCN4 | 4,154597 | 2,09E-07 |
| TFAP2C | 4,151628 | 2,15E-44 |
| SOX4 | 4,131974 | 1,98E-54 |
| PADI2 | 4,119553 | 2,93E-06 |
| IGSF9 | 4,117282 | 2,13E-52 |
| RN7SK | 4,108843 | 2,47E-05 |
| LOC101926 | 4,103044 | 0,000852 |
| KLHDC8B | 4,072817 | 1,17E-06 |
| NFE2 | 4,072811 | 3,81E-11 |
| ATOH8 | 4,058612 | 2,51E-09 |
| FEZ1 | 4,045256 | 1,28E-05 |
| PCDHB14 | 4,036226 | 2,02E-13 |
| PLCB1 | 4,03491 | 2,46E-17 |
| STARD13 | 4,018847 | 7,35E-14 |
| KCNH3 | 4,013305 | 0,000237 |
| FRMPD1 | 4,011254 | 2,91E-05 |
| SMAD6 | 4,005844 | 7,10E-14 |
| IGSF10 | 4,003827 | 0,000241 |
| RASD1 | 4,002678 | 0,00027 |
| SLC30A3 | 3,988291 | 2,14E-05 |
| MEX3A | 3,974337 | 2,65E-62 |
| PGM2L1 | 3,960737 | 1,24E-29 |
| DNAAF3 | 3,955156 | 1,80E-19 |
| SOCS3 | 3,950272 | 1,12E-08 |
| AMOT | 3,947028 | 3,69E-26 |
| TMEM254- | 3,913301 | 6,33E-05 |
| PBX1 | 3,879096 | 2,25E-07 |
| PLEKHO1 | 3,877206 | 1,08E-12 |
| PLXNB3 | 3,876029 | 1,26E-14 |
| GRHL3 | 3,84583 | 1,46E-18 |
| FRMD6 | 3,843759 | 1,00E-28 |
| SHF | 3,843294 | 4,08E-09 |
| HOXC11 | 3,828864 | 3,96E-10 |
| MGLL | 3,812111 | 1,11E-08 |
| FAM171A2 | 3,808234 | 1,59E-21 |
| RAB30 | 3,774609 | 6,30E-20 |
| NREP | 3,763561 | 6,96E-19 |
| RASSF10 | 3,755065 | 1,12E-05 |
| GTF2I | 3,754515 | 5,33E-49 |
| AMIGO2 | 3,744839 | 1,27E-07 |
| ZMIZ1 | 3,719394 | 1,17E-38 |
| FGFR3 | 3,71562 | 7,15E-18 |
| AKR1E2 | 3,70362 | 2,90E-06 |
| BOLA1 | 3,700583 | 5,98E-22 |
| DLX4 | 3,695904 | 5,99E-05 |
| MSH6 | 3,685478 | 1,03E-38 |
| HECW2 | 3,67324 | 2,00E-10 |
| CNPY4 | 3,668934 | 2,61E-12 |
| DBN1 | 3,668313 | 8,29E-61 |
| KDM5B | 3,661349 | 4,90E-31 |

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| MAML3 | 3,654701 | 1,01E-07 |
| DMKN | 3,649759 | 5,78E-09 |
| BAMBI | 3,639699 | 2,47E-36 |
| LHX1 | 3,629231 | 2,73E-05 |
| ALDOC | 3,626278 | 3,60E-13 |
| NCOA3 | 3,623819 | 3,65E-41 |
| PDE4A | 3,608944 | 2,13E-08 |
| CCNG2 | 3,6038 | 2,86E-12 |
| HSD17B14 | 3,597977 | 0,000129 |
| ASPHD1 | 3,59734 | 1,92E-09 |
| SAMD11 | 3,588226 | 3,54E-07 |
| PPM1D | 3,57981 | 7,70E-43 |
| GADD45G | 3,575317 | 5,52E-05 |
| NRXN3 | 3,565532 | 7,42E-06 |
| ZNF836 | 3,564832 | 7,75E-09 |
| SCIN | 3,551562 | 0,000742 |
| HR | 3,550387 | 8,57E-18 |
| FN1 | 3,546392 | 0,000278 |
| RASGEF1A | 3,545901 | 1,81E-06 |
| HSPA2 | 3,538783 | 1,96E-07 |
| LGALS1 | 3,498965 | 2,55E-13 |
| SERTAD4 | 3,494699 | 2,62E-14 |
| PSMD6 | 3,487285 | 1,17E-46 |
| TBX2 | 3,482634 | 1,71E-14 |
| CCDC83 | 3,479458 | 0,000355 |
| FAM227B | 3,475075 | 1,93E-07 |
| SIAH2 | 3,470894 | 2,20E-29 |
| SEMA4A | 3,469472 | 1,04E-18 |
| PTCHD2 | 3,467411 | 0,000549 |
| SLC9A3R2 | 3,464996 | 4,71E-32 |
| LTBP2 | 3,458579 | 0,000288 |
| SEZ6L2 | 3,4559 | 2,67E-18 |
| CRABP2 | 3,448691 | 1,24E-14 |
| LFNG | 3,445389 | 1,83E-12 |
| CERCAM | 3,410795 | 2,07E-15 |
| NPW | 3,408886 | 0,00029 |
| PTP4A3 | 3,403682 | 1,25E-10 |
| ESRP1 | 3,40324 | 4,31E-11 |
| TMEM121 | 3,389567 | 2,79E-06 |
| WNT11 | 3,377137 | 3,33E-05 |
| RTN1 | 3,376443 | 0,000681 |
| FAM72B | 3,374941 | 3,37E-09 |
| STARD10 | 3,37054 | 6,40E-19 |
| TNS1 | 3,346603 | 5,26E-08 |
| CYP2J2 | 3,344374 | 3,58E-09 |
| APOE | 3,329936 | 2,30E-06 |
| RCOR2 | 3,328888 | 1,36E-09 |
| GSTA4 | 3,323097 | 5,63E-12 |
| ASAH2 | 3,320009 | 1,18E-12 |
| ZFYVE28 | 3,319145 | 4,39E-10 |

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| BRIP1 | 3,312826 | 1,10E-38 |
| CACNB3 | 3,306518 | 2,31E-32 |
| ATP8B2 | 3,296884 | 1,40E-10 |
| NANOS1 | 3,296503 | 6,46E-18 |
| PBXIP1 | 3,264187 | 1,25E-07 |
| CCDC71L | 3,256252 | 1,35E-12 |
| MUC3A | 3,25475 | 0,000441 |
| SCAMP5 | 3,253648 | 2,32E-10 |
| PCDHB13 | 3,251279 | 8,95E-10 |
| CCDC170 | 3,244558 | 2,82E-07 |
| ZNF704 | 3,241048 | 1,03E-18 |
| MEIS3P1 | 3,229736 | 9,08E-09 |
| NR3C1 | 3,227149 | 5,17E-31 |
| NKAIN1 | 3,226665 | 8,30E-16 |
| PRSS23 | 3,220837 | 6,41E-18 |
| SYNE4 | 3,205183 | 6,26E-25 |
| PLCH1 | 3,203041 | 2,80E-22 |
| DAB2IP | 3,198741 | 4,76E-17 |
| APPBP2 | 3,198527 | 4,62E-32 |
| PCAT7 | 3,19382 | 0,00056 |
| GATS | 3,178096 | 9,69E-10 |
| FUT8-AS1 | 3,173703 | 0,000206 |
| ARHGEF19 | 3,171564 | 5,06E-13 |
| GLUL | 3,164777 | 2,70E-48 |
| KRT8 | 3,160935 | 5,20E-20 |
| TET1 | 3,152902 | 6,77E-07 |
| MECOM | 3,139919 | 2,17E-10 |
| C15orf65 | 3,13038 | 2,17E-05 |
| DYRK1B | 3,128045 | 4,41E-21 |
| SESN3 | 3,121744 | 0,000966 |
| AHR | 3,121385 | 2,40E-28 |
| RUNDC3A- | 3,120855 | 5,74E-05 |
| TMPRSS13 | 3,11984 | 1,59E-10 |
| ADAMTS7 | 3,111694 | 8,85E-06 |
| ZNF561-AS | 3,108101 | 6,32E-05 |
| KCNC3 | 3,094988 | 2,04E-17 |
| PITPNC1 | 3,091805 | 2,34E-30 |
| CPE | 3,08921 | 6,45E-05 |
| SYT17 | 3,079496 | 7,51E-12 |
| LEPR | 3,0787 | 0,000419 |
| PRRT3 | 3,07029 | 1,31E-05 |
| SLC9A2 | 3,067826 | 1,21E-24 |
| TRIM37 | 3,067492 | 9,83E-35 |
| MXD4 | 3,067295 | 1,83E-12 |
| SLC22A23 | 3,066029 | 1,03E-27 |
| ODAM | 3,04524 | 4,34E-08 |
| RASGRF1 | 3,040461 | 1,01E-14 |
| KRBA2 | 3,027438 | 4,11E-05 |
| ACTL8 | 3,016977 | 0,000302 |
| FGD3 | 2,995601 | 2,85E-06 |

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| ENKD1 | 2,988601 | 0,000571 |
| PRMT6 | 2,974717 | 1,61E-36 |
| C1QTNF9B | 2,973895 | 1,48E-08 |
| LINC01116 | 2,970236 | 2,12E-05 |
| FAM102B | 2,969715 | 3,48E-27 |
| C7orf13 | 2,967974 | 1,82E-10 |
| HEATR6 | 2,963007 | 3,25E-32 |
| SLC29A4 | 2,962819 | 3,35E-17 |
| MSRB2 | 2,962748 | 3,68E-16 |
| FAM46B | 2,961937 | 1,80E-05 |
| HIST1H2BD | 2,938742 | 7,90E-07 |
| TUBB2B | 2,93684 | 1,08E-08 |
| SRGAP2C | 2,93017 | 8,17E-05 |
| PHLDB3 | 2,911173 | 3,23E-07 |
| KRT7 | 2,905324 | 7,20E-05 |
| GSTZ1 | 2,902976 | 1,64E-19 |
| LRRC75B | 2,902641 | 4,05E-09 |
| NEURL1B | 2,890767 | 9,38E-07 |
| COL1A1 | 2,886645 | 1,04E-07 |
| RNF122 | 2,884444 | 6,01E-10 |
| ADSSL1 | 2,880815 | 0,000631 |
| MEPCE | 2,872996 | 1,05E-33 |
| TGFB3L | 2,87132 | 0,000122 |
| DDB2 | 2,867714 | 7,79E-12 |
| MCTP1 | 2,865381 | 2,62E-07 |
| TRIQK | 2,858281 | 6,27E-08 |
| POLD4 | 2,854896 | 2,17E-06 |
| METRN | 2,845581 | 8,15E-20 |
| LINC01521 | 2,833603 | 1,02E-06 |
| ZNF217 | 2,831973 | 1,18E-20 |
| C15orf40 | 2,823084 | 4,25E-11 |
| ZNF253 | 2,819718 | 1,67E-13 |
| ZNF185 | 2,813847 | 1,08E-07 |
| IFI6 | 2,809785 | 8,81E-05 |
| MLPH | 2,808749 | 3,70E-14 |
| SLC43A2 | 2,807535 | 2,42E-16 |
| ZNRF1 | 2,804153 | 3,41E-22 |
| LHX4 | 2,802788 | 7,20E-17 |
| LAGE3 | 2,802747 | 1,76E-21 |
| GGT1 | 2,801005 | 4,41E-13 |
| TUBD1 | 2,795148 | 1,93E-12 |
| IDH2 | 2,788991 | 6,50E-26 |
| SEMA3F | 2,783946 | 1,60E-09 |
| TEAD2 | 2,783527 | 4,94E-14 |
| CASC10 | 2,782826 | 9,19E-05 |
| LOC100233 | 2,782714 | 5,09E-06 |
| CBLB | 2,782369 | 1,81E-15 |
| ZNF137P | 2,777477 | 0,000168 |
| TUBB3 | 2,774882 | 1,59E-27 |
| TFAP2A | 2,773967 | 9,20E-24 |

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| IGFLR1 | 2,772741 | 6,09E-07 |
| LTBP1 | 2,76104 | 2,43E-18 |
| CPS1 | 2,760692 | 9,23E-06 |
| CREB3L4 | 2,759025 | 1,47E-17 |
| MAML2 | 2,750403 | 0,000198 |
| RAB26 | 2,749224 | 0,000194 |
| SLC6A8 | 2,747768 | 8,41E-09 |
| PIK3R3 | 2,747598 | 1,04E-13 |
| GTF2IP1 | 2,744989 | 3,06E-09 |
| BCAS2 | 2,736996 | 4,17E-28 |
| ZNF841 | 2,735691 | 1,51E-10 |
| CKMT1A | 2,734473 | 1,65E-13 |
| GATSL3 | 2,732449 | 0,00024 |
| MAPK11 | 2,729275 | 1,29E-06 |
| MYLIP | 2,728572 | 3,48E-10 |
| RAB3D | 2,727404 | 3,13E-14 |
| EFR3B | 2,721988 | 5,26E-08 |
| BRSK1 | 2,721709 | 7,42E-05 |
| CABYR | 2,705934 | 5,15E-05 |
| TNFRSF19 | 2,705738 | 1,22E-15 |
| NHP2 | 2,70191 | 1,08E-22 |
| KCNIP3 | 2,700377 | 0,000205 |
| PDGFA | 2,694711 | 4,05E-05 |
| FZD2 | 2,686632 | 4,86E-09 |
| KLF7 | 2,685271 | 2,55E-09 |
| CTSO | 2,681382 | 0,000901 |
| FAM213A | 2,677698 | 1,55E-14 |
| SP6 | 2,675557 | 2,73E-11 |
| RPS27L | 2,675198 | 3,26E-06 |
| PRR36 | 2,673963 | 3,34E-25 |
| ITPKB | 2,673589 | 4,93E-12 |
| LAPTM4B | 2,673011 | 5,17E-32 |
| ZNF75A | 2,666803 | 6,00E-06 |
| RBBP8NL | 2,660834 | 1,01E-10 |
| MOSPD3 | 2,658567 | 1,53E-10 |
| TMEM183F | 2,657206 | 2,79E-09 |
| SLC27A5 | 2,655741 | 2,33E-13 |
| AHNAK2 | 2,654458 | 1,31E-06 |
| DTWD1 | 2,653744 | 3,79E-14 |
| PXN-AS1 | 2,644129 | 7,14E-08 |
| ZNF268 | 2,6282 | 1,05E-09 |
| APLP1 | 2,619917 | 1,86E-05 |
| HBP1 | 2,616732 | 1,09E-08 |
| DNLZ | 2,61035 | 5,58E-11 |
| ADAM11 | 2,601448 | 4,23E-05 |
| COX6C | 2,600954 | 1,98E-15 |
| CCDC92 | 2,582561 | 4,87E-07 |
| MRPS21 | 2,578293 | 6,02E-26 |
| KREMEN2 | 2,575645 | 6,82E-06 |
| GTF2IRD2B | 2,574951 | 5,03E-09 |

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| C6orf52 | 2,566656 | 0,000886 |
| RAP2B | 2,564386 | 4,18E-10 |
| KCTD1 | 2,561208 | 1,65E-12 |
| ZNF429 | 2,560384 | 1,36E-06 |
| RPS6KB1 | 2,547195 | 8,47E-27 |
| SHANK2 | 2,535575 | 1,53E-09 |
| KRT18 | 2,533286 | 1,79E-10 |
| ZBTB42 | 2,531107 | 2,70E-14 |
| FAM214A | 2,51575 | 7,95E-06 |
| ADRA2C | 2,515029 | 6,12E-07 |
| FZD1 | 2,514159 | 4,40E-10 |
| VGf | 2,510396 | 2,04E-08 |
| CSDE1 | 2,507477 | 3,42E-22 |
| C9orf3 | 2,505908 | 1,69E-11 |
| SH3BGR | 2,503648 | 3,77E-05 |
| HARS2 | 2,491896 | 1,57E-13 |
| DAAM1 | 2,486114 | 5,63E-17 |
| N4BP3 | 2,48438 | 7,43E-09 |
| ZNF480 | 2,483982 | 5,51E-16 |
| TRAPPC6A | 2,48269 | 2,41E-07 |
| PACSIN3 | 2,475254 | 4,26E-21 |
| SBK1 | 2,474692 | 2,09E-21 |
| TNIK | 2,469378 | 1,24E-06 |
| ATP9A | 2,461277 | 3,91E-17 |
| RHOB | 2,457521 | 6,73E-18 |
| NES | 2,457435 | 9,14E-08 |
| PHLDA3 | 2,456692 | 1,57E-05 |
| FLJ23867 | 2,456412 | 2,46E-09 |
| CROT | 2,443204 | 0,000108 |
| FAM222A | 2,441327 | 5,78E-14 |
| LRRC24 | 2,439169 | 0,000709 |
| PNRC1 | 2,430847 | 5,81E-09 |
| ZNF432 | 2,425041 | 3,47E-06 |
| LOC148705 | 2,423091 | 0,000257 |
| TNKS2 | 2,422716 | 4,99E-15 |
| GPRIN1 | 2,422197 | 2,88E-18 |
| PVRL4 | 2,421639 | 7,23E-07 |
| FRAT2 | 2,416655 | 2,59E-05 |
| ERV3-1 | 2,404414 | 1,04E-06 |
| S100A13 | 2,403234 | 3,60E-15 |
| SYNE2 | 2,397411 | 1,13E-09 |
| MNX1-AS1 | 2,386837 | 5,52E-06 |
| ARSG | 2,376597 | 4,34E-07 |
| SELENBP1 | 2,374701 | 3,54E-13 |
| ZFP14 | 2,37148 | 6,56E-07 |
| THOC7 | 2,367109 | 2,05E-23 |
| FRMD4A | 2,365184 | 1,80E-06 |
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| PKP1 | 2,355715 | 0,0004 |

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| MNS1 | 2,351588 | 1,06E-06 |
| CASKIN1 | 2,350682 | 3,95E-07 |
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| IRX3 | 2,339271 | 9,27E-15 |
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| BCL6 | 2,334624 | 1,93E-09 |
| SPPL2A | 2,324294 | 1,12E-19 |
| RNF223 | 2,324268 | 1,54E-05 |
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| TBCK | 2,318156 | 1,02E-10 |
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| NME4 | 2,304597 | 4,54E-21 |
| KRT80 | 2,303699 | 2,60E-12 |
| RAC3 | 2,303222 | 1,08E-07 |
| WWTR1 | 2,301692 | 5,70E-13 |
| RGL1 | 2,30125 | 5,65E-05 |
| ARID5B | 2,297072 | 8,95E-15 |
| ALKBH2 | 2,291298 | 3,03E-13 |
| DHTKD1 | 2,290889 | 1,12E-14 |
| EML1 | 2,282271 | 2,16E-13 |
| LOC100125 | 2,275918 | 6,32E-06 |
| TAGLN2 | 2,270945 | 3,46E-18 |
| RASA3 | 2,268366 | 0,000118 |
| PRMT2 | 2,267834 | 2,36E-07 |
| SOS2 | 2,264486 | 2,29E-08 |
| F12 | 2,261407 | 1,06E-16 |
| WNT7B | 2,257137 | 3,97E-06 |
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| NINL | 2,24891 | 4,44E-09 |
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| TMEM168 | 2,211732 | 1,53E-14 |
| RAD51C | 2,197182 | 3,13E-20 |
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| EFCAB11 | 2,181371 | 1,60E-08 |
| S100A11 | 2,177321 | 5,67E-09 |
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| ZNF444 | 2,136005 | 1,83E-12 |
| ROGDI | 2,13581 | 1,38E-09 |
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| NBPF15 | 2,122796 | 3,13E-09 |
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| MAFG-AS1 | 2,106106 | 9,45E-05 |
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| TP53I11 | 2,101767 | 1,02E-05 |
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| PMVK | 2,096245 | 3,78E-09 |
| VTI1B | 2,09518 | 1,24E-12 |
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| KRT19 | 2,080534 | 1,04E-07 |
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| CRISPLD2 | 2,070953 | 3,33E-05 |
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| TRIP6 | 2,067017 | 3,20E-13 |
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| GLMP | 2,059114 | 2,35E-05 |
| PPP2R3A | 2,057513 | 8,18E-08 |

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| ABCA12 | 2,056278 | 1,85E-05 |
| TDRKH | 2,055866 | 4,13E-07 |
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| CADM1 | 2,051976 | 1,08E-08 |
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| SARS2 | 2,046481 | 1,93E-12 |
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| COQ2 | 2,036807 | 5,89E-10 |
| FAM89B | 2,035774 | 2,82E-13 |
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| RNF115 | 2,032703 | 1,41E-15 |
| MAST1 | 2,031765 | 0,00051 |
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| TMEM205 | 2,027776 | 2,47E-08 |
| SLC38A6 | 2,027433 | 0,000537 |
| OSR2 | 2,025339 | 0,000224 |
| ENDOV | 2,021541 | 1,66E-08 |
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| NUDT1 | 2,017222 | 1,14E-08 |
| DBNDD1 | 2,014362 | 2,13E-07 |
| HKR1 | 2,013952 | 7,92E-06 |
| ECH1 | 2,012774 | 1,70E-10 |
| LOC101927 | 2,011551 | 0,00019 |
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| SLC9A3R1 | 2,00879 | 6,37E-10 |
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| RMDN1 | 2,007334 | 9,61E-12 |
| DSP | 2,005925 | 2,80E-16 |
| GNAS | 2,005916 | 2,66E-18 |
| PVRL1 | 1,99673 | 3,68E-07 |
| SP5 | 1,995568 | 2,73E-09 |
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| IGF1R | 1,987256 | 7,23E-14 |
| FBXW9 | 1,981539 | 1,30E-08 |
| IQCH-AS1 | 1,976484 | 1,48E-06 |
| LRBA | 1,973738 | 3,91E-10 |
| ARL4A | 1,970245 | 9,17E-13 |
| FIS1 | 1,970241 | 5,42E-12 |
| ACOX3 | 1,965444 | 8,36E-08 |
| THSD4 | 1,963101 | 6,91E-05 |
| ENY2 | 1,961198 | 5,38E-11 |
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| BCL2L1 | 1,953534 | 1,01E-09 |
| DNMT3B | 1,952832 | 7,25E-08 |
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| DNMT3A | 1,950203 | 4,31E-13 |

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| SIPA1L2 | 1,949488 | 2,45E-08 |
| PACS1 | 1,948342 | 1,52E-09 |
| CTNNA1 | 1,944404 | 9,23E-13 |
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| PTMS | 1,939811 | 3,35E-06 |
| KCNJ8 | 1,93809 | 7,07E-10 |
| TMOD3 | 1,93042 | 2,42E-16 |
| SWI5 | 1,930162 | 6,18E-09 |
| ICAM3 | 1,928823 | 1,44E-05 |
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| SMTN | 1,918715 | 1,79E-08 |
| ZNF362 | 1,91581 | 0,000295 |
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| CYB561 | 1,913291 | 5,69E-17 |
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| NDUFB9 | 1,911369 | 3,16E-10 |
| ZNF45 | 1,907926 | 8,07E-05 |
| TBC1D7 | 1,904742 | 5,50E-08 |
| NRSN2-AS1 | 1,90197 | 0,000172 |
| TRAPPC2L | 1,90124 | 1,28E-12 |
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| CINP | 1,895453 | 7,81E-07 |
| RMND5B | 1,893666 | 1,44E-12 |
| RABIF | 1,890572 | 4,23E-08 |
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| CD44 | 1,883597 | 7,04E-09 |
| FRG1BP | 1,882252 | 0,000126 |
| CDH3 | 1,882009 | 5,08E-16 |
| TET2 | 1,881772 | 2,40E-11 |
| RNF44 | 1,879093 | 9,07E-12 |
| EPHB4 | 1,878455 | 1,92E-11 |
| RAB1B | 1,875401 | 1,48E-07 |
| ATMIN | 1,873042 | 6,19E-15 |
| TRMT2B | 1,872815 | 7,49E-09 |
| SOX13 | 1,868772 | 2,16E-05 |
| SRGAP2 | 1,867643 | 4,08E-13 |
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| TPD52L1 | 1,866376 | 9,31E-07 |
| CCDC90B | 1,866257 | 5,03E-09 |
| KANSL1L | 1,86337 | 1,70E-05 |
| ZMAT2 | 1,861309 | 3,61E-13 |
| CLU | 1,860595 | 3,97E-06 |
| NBPF3 | 1,8582 | 0,000286 |
| MGMT | 1,856061 | 9,75E-07 |
| PCOLCE | 1,855709 | 0,000867 |
| AP4E1 | 1,853515 | 2,65E-09 |
| SNRPE | 1,852026 | 4,73E-15 |
| ICK | 1,847171 | 1,17E-10 |

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| NRAS | 1,844342 | 5,50E-10 |
| MYL12A | 1,840874 | 8,75E-14 |
| CCDC167 | 1,839764 | 3,56E-05 |
| TAOK3 | 1,839699 | 1,75E-09 |
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| TRIB1 | 1,837122 | 6,18E-08 |
| ZKSCAN1 | 1,830122 | 1,44E-07 |
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| ZSCAN16 | 1,825506 | 2,87E-05 |
| VPS72 | 1,824846 | 4,77E-07 |
| SMKR1 | 1,824638 | 0,000181 |
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| APRT | 1,813793 | 4,09E-15 |
| SH3BP5 | 1,804929 | 6,10E-12 |
| CPLX1 | 1,802996 | 0,000162 |
| MTCH1 | 1,801262 | 3,47E-13 |
| NELFCD | 1,800225 | 9,31E-10 |
| ACOT13 | 1,798676 | 7,91E-08 |
| ATP6V0E2 | 1,79801 | 1,17E-06 |
| TM7SF2 | 1,797482 | 0,00024 |
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| DECR1 | 1,796917 | 5,26E-09 |
| PDE4DIP | 1,796274 | 1,50E-06 |
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| ZFP1 | 1,792998 | 3,23E-07 |
| ZNF713 | 1,790172 | 0,000171 |
| STRADB | 1,788542 | 1,12E-06 |
| DTD1 | 1,787222 | 1,25E-09 |
| FLYWCH2 | 1,787064 | 1,10E-07 |
| PVT1 | 1,785883 | 7,39E-06 |
| TAF11 | 1,782188 | 4,18E-09 |
| NMB | 1,781585 | 0,000632 |
| ATXN7L3B | 1,7778 | 1,24E-12 |
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| HSPB1 | 1,77105 | 8,61E-06 |
| TMED3 | 1,768335 | 2,79E-10 |
| SLC25A13 | 1,76752 | 2,20E-05 |
| PAK4 | 1,767322 | 1,04E-10 |
| SYAP1 | 1,764188 | 9,51E-11 |
| ARMCX6 | 1,763829 | 1,58E-07 |
| MARCKSL1 | 1,763008 | 1,59E-07 |
| ZNF14 | 1,761375 | 0,00016 |
| SSNA1 | 1,756858 | 1,14E-08 |
| KITLG | 1,755231 | 3,03E-09 |
| PRUNE | 1,751543 | 1,68E-10 |
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| DUS4L | 1,747943 | 2,06E-07 |
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| ANKRD50 | 1,741919 | 2,24E-09 |

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| ULK1 | 1,731917 | 5,96E-10 |
| ZNF3 | 1,730934 | 5,62E-10 |
| SIRT5 | 1,729687 | 1,14E-07 |
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| NSMCE2 | 1,727129 | 7,57E-07 |
| GALK1 | 1,727076 | 6,31E-07 |
| ALG8 | 1,726595 | 5,26E-06 |
| HILPDA | 1,725214 | 3,60E-05 |
| ZNF252P | 1,723638 | 2,32E-06 |
| SKIL | 1,720442 | 1,96E-06 |
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| RP9 | 1,715468 | 3,64E-05 |
| ZNF688 | 1,714818 | 8,07E-05 |
| ZNHIT1 | 1,711899 | 1,87E-05 |
| ZMYND8 | 1,711583 | 8,58E-12 |
| NUDT3 | 1,711059 | 7,12E-06 |
| PLCG1 | 1,701562 | 2,43E-07 |
| STMN3 | 1,695797 | 7,34E-06 |
| AUTS2 | 1,69509 | 1,16E-06 |
| FAM3A | 1,693207 | 6,84E-09 |
| ALKBH4 | 1,693076 | 1,21E-08 |
| SAP130 | 1,692883 | 1,46E-12 |
| EPN3 | 1,692016 | 0,001005 |
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| RASA1 | 1,687862 | 2,19E-07 |
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| LEO1 | 1,684209 | 3,93E-12 |
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| FOXP1 | 1,68414 | 9,56E-08 |
| SSR2 | 1,683082 | 1,81E-09 |
| LYSMD1 | 1,680265 | 4,04E-06 |
| TC2N | 1,679785 | 1,10E-05 |
| C14orf80 | 1,679031 | 1,17E-08 |
| ZNF83 | 1,677902 | 2,96E-06 |
| SLC7A5 | 1,67754 | 2,48E-09 |
| LAMTOR4 | 1,672706 | 2,26E-10 |
| RAB15 | 1,671831 | 1,69E-08 |
| LINC01184 | 1,671599 | 0,000736 |
| RSU1 | 1,667938 | 4,19E-09 |
| CMC2 | 1,665218 | 6,02E-08 |
| TSPAN17 | 1,656475 | 1,23E-08 |
| PPIC | 1,655154 | 2,67E-08 |
| OAZ2 | 1,653797 | 1,11E-07 |
| LY6E | 1,65279 | 2,76E-06 |
| CFDP1 | 1,652138 | 1,17E-09 |
| CALHM2 | 1,65192 | 0,000722 |
| SAYSD1 | 1,65137 | 1,26E-08 |
| CHD6 | 1,649441 | 1,14E-11 |

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| CACFD1 | 1,648334 | 0,000992 |
| ELMO3 | 1,64724 | 2,52E-06 |
| ERGIC1 | 1,646394 | 1,47E-08 |
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| JUP | 1,646069 | 8,99E-05 |
| DZIP3 | 1,646068 | 3,85E-05 |
| ATXN7L1 | 1,64537 | 6,21E-05 |
| SEPW1 | 1,642209 | 2,96E-06 |
| PFN2 | 1,640737 | 1,32E-09 |
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| ZFP30 | 1,637171 | 0,000573 |
| STOM | 1,637096 | 3,19E-06 |
| CORO1B | 1,634126 | 2,71E-05 |
| COA3 | 1,63393 | 1,63E-05 |
| ACBD7 | 1,631314 | 0,000143 |
| PSMD4 | 1,629802 | 7,99E-13 |
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| ADCK1 | 1,626092 | 4,32E-05 |
| HPS1 | 1,624647 | 9,70E-09 |
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| TMBIM4 | 1,620017 | 1,61E-07 |
| ZNF138 | 1,615362 | 0,000102 |
| ZNF808 | 1,610017 | 0,000678 |
| SERPINB6 | 1,608198 | 1,63E-10 |
| TJP3 | 1,607084 | 0,000594 |
| TMEM132A | 1,605105 | 3,07E-05 |
| SHFM1 | 1,603245 | 1,30E-10 |
| AP4M1 | 1,603197 | 2,57E-06 |
| CETN2 | 1,601569 | 5,70E-07 |
| IQCK | 1,600595 | 2,94E-05 |
| C7orf50 | 1,599733 | 2,30E-07 |
| SLC25A23 | 1,595741 | 7,22E-05 |
| ZNF212 | 1,595411 | 6,09E-06 |
| DLGAP5 | 1,594849 | 2,09E-10 |
| RNF130 | 1,594734 | 8,64E-07 |
| RGL2 | 1,594456 | 3,99E-08 |
| SNAPC5 | 1,593746 | 4,27E-06 |
| ATP5G2 | 1,592682 | 7,07E-09 |
| VIPAS39 | 1,591401 | 1,34E-07 |
| SEMA4C | 1,58843 | 9,79E-07 |
| HMG20B | 1,58813 | 1,51E-11 |
| UBL3 | 1,586849 | 1,55E-06 |
| NUCKS1 | 1,586718 | 1,28E-10 |
| LINC00674 | 1,586662 | 1,31E-07 |
| MMAB | 1,582781 | 2,43E-05 |
| KBTBD7 | 1,580852 | 0,000145 |
| PSD4 | 1,580091 | 0,00014 |
| NDUFAF6 | 1,579547 | 5,52E-07 |

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| S100A10 | 1,578931 | 1,65E-09 |
| THOC6 | 1,573561 | 7,56E-05 |
| NDST1 | 1,572874 | 6,29E-08 |
| AP5S1 | 1,572587 | 4,28E-05 |
| LAMTOR2 | 1,572064 | 6,94E-08 |
| HDDC3 | 1,571566 | 0,000335 |
| AGAP2 | 1,571229 | 0,000265 |
| KARS | 1,567462 | 5,14E-10 |
| GNB2 | 1,560267 | 3,29E-10 |
| ARPC1A | 1,559848 | 1,11E-08 |
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| CGN | 1,555884 | 8,13E-06 |
| ENSA | 1,555873 | 3,60E-11 |
| BOD1 | 1,554741 | 4,11E-06 |
| TRIM33 | 1,55451 | 3,94E-09 |
| ZDHC12 | 1,554084 | 1,26E-06 |
| PARD6B | 1,55392 | 7,55E-07 |
| ATP5J2 | 1,553045 | 8,80E-06 |
| IRX5 | 1,552275 | 8,65E-07 |
| SMARCD2 | 1,551821 | 2,33E-10 |
| GSTK1 | 1,551699 | 5,46E-06 |
| C20orf27 | 1,548047 | 1,73E-09 |
| SOX12 | 1,545968 | 6,35E-10 |
| XXYL1 | 1,545358 | 9,81E-08 |
| ARF5 | 1,544873 | 4,40E-11 |
| TMEM65 | 1,544523 | 1,24E-05 |
| PCYOX1L | 1,543677 | 0,000235 |
| FRS2 | 1,543117 | 3,21E-05 |
| SERPINH1 | 1,540437 | 1,28E-08 |
| ARMC10 | 1,535981 | 9,15E-09 |
| DHX40 | 1,535341 | 1,96E-08 |
| GATSL2 | 1,534871 | 2,73E-05 |
| MIS18BP1 | 1,533675 | 0,000109 |
| PMF1 | 1,53324 | 0,000445 |
| PRDM4 | 1,532467 | 8,28E-11 |
| CCDC85B | 1,532187 | 6,29E-08 |
| MRPS11 | 1,530392 | 6,50E-06 |
| TSC22D1 | 1,529458 | 4,33E-05 |
| SH2B2 | 1,528365 | 0,000179 |
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| MYO5C | 1,52727 | 1,11E-07 |
| TPBG | 1,525621 | 4,46E-09 |
| DHFRL1 | 1,522798 | 0,000542 |
| CAMK2N2 | 1,521959 | 0,000471 |
| POGZ | 1,52126 | 2,10E-05 |
| BANF1 | 1,520673 | 5,36E-08 |
| DARS2 | 1,520461 | 3,64E-09 |
| TRAK2 | 1,520369 | 1,36E-09 |
| PRKAG1 | 1,518826 | 2,71E-06 |
| TGIF2 | 1,513994 | 6,96E-05 |

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| NUDT4 | 1,513296 | 1,25E-06 |
| DYNLL2 | 1,512896 | 6,56E-10 |
| DDX41 | 1,512372 | 8,34E-10 |
| CDC42SE1 | 1,510759 | 1,85E-08 |
| SLC39A11 | 1,508769 | 0,000581 |
| ALDH6A1 | 1,506708 | 6,50E-06 |
| ZDHHC4 | 1,505008 | 8,22E-08 |
| FOXA1 | 1,503545 | 8,81E-06 |
| PIAS3 | 1,503231 | 6,60E-05 |
| STRA13 | 1,502125 | 6,16E-09 |
| ROMO1 | 1,501414 | 4,07E-08 |
| MTIF3 | 1,499693 | 1,58E-05 |
| ARPC5 | 1,498993 | 2,85E-07 |
| CYB5R4 | 1,498339 | 0,000367 |
| KIF20A | 1,496801 | 1,48E-07 |
| NPDC1 | 1,496212 | 4,69E-09 |
| MYL12B | 1,495802 | 2,96E-10 |
| TEAD3 | 1,495619 | 4,87E-06 |
| ZNF184 | 1,495085 | 8,42E-06 |
| AP1S1 | 1,494236 | 0,000232 |
| TMEM14C | 1,49352 | 2,42E-07 |
| PLEKHH1 | 1,493398 | 1,05E-05 |
| FTSJ3 | 1,492916 | 6,03E-07 |
| AP2M1 | 1,489768 | 2,72E-07 |
| CDK2AP1 | 1,488986 | 3,57E-06 |
| EPHB3 | 1,488797 | 0,000511 |
| C11orf73 | 1,488326 | 1,87E-06 |
| LEF1 | 1,487925 | 3,06E-05 |
| ZNF687 | 1,486911 | 1,21E-06 |
| SLC37A4 | 1,485137 | 2,18E-08 |
| KIF3C | 1,483792 | 5,16E-05 |
| FAM220A | 1,480749 | 1,87E-05 |
| FAH | 1,479959 | 3,73E-07 |
| USP8 | 1,478667 | 2,48E-09 |
| CFL1 | 1,47562 | 5,61E-10 |
| DHODH | 1,47429 | 9,43E-05 |
| CABLES2 | 1,473742 | 5,39E-06 |
| ALDH7A1 | 1,47281 | 6,70E-05 |
| EBAG9 | 1,471962 | 0,00069 |
| BRMS1 | 1,471396 | 4,35E-07 |
| ZP3 | 1,470608 | 5,48E-05 |
| TMEM14B | 1,466997 | 5,95E-06 |
| RPA3 | 1,465328 | 5,86E-05 |
| EFNA3 | 1,465323 | 9,91E-05 |
| RNF208 | 1,465078 | 0,000445 |
| TMEM19 | 1,464553 | 3,48E-05 |
| FUNDC2 | 1,463222 | 2,32E-07 |
| MCTS2P | 1,462279 | 0,000263 |
| GCNT1 | 1,459077 | 6,76E-05 |
| SSH3 | 1,458788 | 1,04E-05 |

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| KLHDC2 | 1,457662 | 0,000119 |
| CHCHD5 | 1,456325 | 3,62E-06 |
| DPAGT1 | 1,45618 | 1,79E-07 |
| IGFBP2 | 1,455861 | 1,56E-05 |
| RALBP1 | 1,455718 | 5,09E-06 |
| HIPK1 | 1,452752 | 8,34E-09 |
| C19orf43 | 1,450269 | 1,74E-10 |
| OPN3 | 1,449698 | 0,00063 |
| VMP1 | 1,448862 | 1,39E-07 |
| CHMP1B | 1,44855 | 1,29E-06 |
| WDR83 | 1,448217 | 7,67E-05 |
| ZNF783 | 1,447238 | 0,000192 |
| PSMC2 | 1,446198 | 2,31E-09 |
| ATG10 | 1,44546 | 0,000393 |
| IFI30 | 1,445103 | 0,000972 |
| ZFHX3 | 1,44415 | 1,04E-07 |
| GLCE | 1,443857 | 1,58E-06 |
| S100A16 | 1,437603 | 0,000649 |
| NSUN5 | 1,436811 | 1,89E-07 |
| POLR2K | 1,435845 | 7,47E-05 |
| WDYHV1 | 1,434975 | 0,00034 |
| NDUFS6 | 1,434618 | 2,80E-08 |
| CBLL1 | 1,434316 | 1,90E-06 |
| ARPC1B | 1,433311 | 5,64E-05 |
| C14orf2 | 1,432212 | 3,23E-07 |
| MRPS25 | 1,427624 | 6,21E-06 |
| MED20 | 1,426984 | 1,91E-05 |
| TACO1 | 1,424266 | 7,43E-09 |
| BCL2L11 | 1,421284 | 2,31E-05 |
| GTF3C1 | 1,419382 | 0,000172 |
| MRPL11 | 1,417368 | 1,51E-08 |
| GABPB1 | 1,417232 | 5,21E-05 |
| CLTB | 1,416306 | 0,000121 |
| CENPBD1 | 1,41406 | 9,70E-05 |
| RPL26L1 | 1,412569 | 2,26E-06 |
| RNASEH2A | 1,411899 | 4,17E-08 |
| DST | 1,409972 | 1,67E-05 |
| IFT43 | 1,409263 | 0,000696 |
| GADD45GII | 1,406851 | 0,000135 |
| BMPR2 | 1,405259 | 2,16E-05 |
| CASP6 | 1,404595 | 5,27E-05 |
| RUSC1 | 1,402595 | 1,75E-05 |
| GCSH | 1,402429 | 1,86E-05 |
| APH1A | 1,402396 | 1,28E-08 |
| GDE1 | 1,401497 | 5,63E-07 |
| PTTG1IP | 1,400315 | 1,41E-07 |
| MAN2B1 | 1,399451 | 3,00E-06 |
| PRELID1 | 1,398 | 1,35E-08 |
| COX4I1 | 1,397132 | 6,50E-10 |
| LAMTOR1 | 1,396515 | 1,65E-06 |

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| TTC37 | 1,395108 | 1,40E-07 |
| NDUFV3 | 1,394474 | 6,06E-08 |
| NIT2 | 1,393886 | 2,70E-05 |
| BUD31 | 1,393354 | 8,50E-07 |
| DHX38 | 1,390368 | 3,11E-08 |
| SRD5A3 | 1,389638 | 0,000396 |
| VKORC1 | 1,386069 | 4,50E-05 |
| NCK2 | 1,38535 | 1,73E-07 |
| TDP1 | 1,385165 | 5,09E-06 |
| TRIAP1 | 1,385114 | 2,46E-05 |
| JARID2 | 1,384885 | 1,81E-05 |
| ABHD16A | 1,384027 | 1,23E-06 |
| SKAP2 | 1,381881 | 0,000132 |
| FAM53B | 1,379555 | 3,86E-08 |
| ASNA1 | 1,379471 | 6,35E-08 |
| DSTN | 1,379283 | 1,99E-05 |
| JTB | 1,37885 | 3,34E-08 |
| DGKZ | 1,378243 | 3,30E-07 |
| AIF1L | 1,376792 | 0,000184 |
| POLR3GL | 1,376176 | 9,83E-05 |
| RTFDC1 | 1,374814 | 6,51E-07 |
| MBTD1 | 1,373782 | 0,000537 |
| RNF5 | 1,372982 | 3,93E-05 |
| ACVR1 | 1,372388 | 0,000879 |
| ADI1 | 1,370919 | 3,14E-06 |
| ZSWIM7 | 1,370191 | 0,000245 |
| RPS3 | 1,36878 | 1,60E-06 |
| AKT1 | 1,367573 | 1,97E-05 |
| NKD1 | 1,366446 | 2,13E-05 |
| DHPS | 1,365302 | 1,29E-06 |
| GIN52 | 1,365284 | 6,56E-07 |
| SELT | 1,364909 | 1,24E-05 |
| TANC2 | 1,360954 | 0,00018 |
| TRPM7 | 1,360692 | 2,20E-08 |
| DGCR6L | 1,360529 | 0,000122 |
| SLC35B2 | 1,36049 | 1,92E-05 |
| AIMP2 | 1,359893 | 1,10E-07 |
| ATAD2B | 1,359441 | 0,000695 |
| RPL13 | 1,359132 | 9,31E-06 |
| RFWD2 | 1,358824 | 2,02E-05 |
| SIKE1 | 1,354744 | 1,01E-07 |
| PACS2 | 1,352482 | 1,98E-06 |
| GPATCH2 | 1,352078 | 4,66E-06 |
| TTLL5 | 1,349355 | 5,60E-07 |
| COIL | 1,348032 | 0,000611 |
| LNX2 | 1,347407 | 2,30E-07 |
| RHPN1 | 1,346807 | 0,00035 |
| UQCR10 | 1,344894 | 1,63E-05 |
| PRR11 | 1,344288 | 8,98E-08 |
| NGFRAP1 | 1,344239 | 2,76E-08 |

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| NIPSNAP1 | 1,344148 | 5,96E-07 |
| H2AFY2 | 1,343632 | 7,99E-05 |
| GRK6 | 1,342062 | 3,23E-08 |
| PDCD10 | 1,341621 | 2,11E-06 |
| ZNF277 | 1,341428 | 1,94E-05 |
| ZNF254 | 1,340404 | 0,000787 |
| COX5B | 1,339662 | 1,37E-08 |
| NT5DC2 | 1,339046 | 4,12E-05 |
| SETDB1 | 1,338272 | 1,60E-06 |
| APOA1BP | 1,337954 | 1,66E-06 |
| MEST | 1,335147 | 0,000113 |
| BRK1 | 1,334614 | 4,19E-07 |
| ZNF260 | 1,334612 | 0,000406 |
| ZFYVE21 | 1,333625 | 1,46E-05 |
| AURKA | 1,333085 | 3,56E-06 |
| CYTH2 | 1,332201 | 1,69E-06 |
| ZNF84 | 1,331238 | 0,000996 |
| BLVRA | 1,3311 | 3,07E-05 |
| POLR2I | 1,330165 | 4,08E-07 |
| PIGG | 1,327631 | 3,33E-05 |
| COPS6 | 1,327035 | 2,19E-07 |
| EXOC1 | 1,3246 | 2,90E-05 |
| RALGAPA1 | 1,324586 | 1,21E-05 |
| FMR1 | 1,321168 | 0,000196 |
| SPTLC2 | 1,320757 | 2,64E-06 |
| SNX27 | 1,319485 | 5,82E-06 |
| OST4 | 1,319435 | 5,75E-07 |
| MDH2 | 1,319073 | 1,90E-06 |
| NGRN | 1,317234 | 5,30E-06 |
| FARSA | 1,316821 | 1,54E-05 |
| MESDC2 | 1,316708 | 2,79E-05 |
| PAN2 | 1,315214 | 0,000773 |
| SIVA1 | 1,313283 | 1,64E-05 |
| WRB | 1,310531 | 7,95E-05 |
| H3F3B | 1,310114 | 6,72E-08 |
| HIGD2A | 1,307718 | 5,95E-08 |
| ZNF766 | 1,306582 | 9,63E-05 |
| ESD | 1,30632 | 3,69E-07 |
| SETMAR | 1,305597 | 9,91E-05 |
| C2orf68 | 1,305094 | 2,86E-06 |
| HSBP1 | 1,304965 | 1,02E-05 |
| MYBL2 | 1,302929 | 2,26E-07 |
| VPS28 | 1,302163 | 6,01E-05 |
| CNPY3 | 1,298069 | 1,45E-05 |
| C1orf43 | 1,297412 | 1,23E-05 |
| WBSCR16 | 1,296791 | 2,47E-07 |
| MAP3K11 | 1,296594 | 0,000433 |
| ATP6V0E1 | 1,29556 | 0,00098 |
| AHCY | 1,295296 | 1,15E-05 |
| MRPL9 | 1,293491 | 0,000123 |

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| MPND | 1,290693 | 0,000291 |
| MED21 | 1,286018 | 7,07E-05 |
| RNF181 | 1,284658 | 7,10E-06 |
| AARS | 1,284502 | 0,000167 |
| LCMT1 | 1,282021 | 7,80E-06 |
| COG4 | 1,277985 | 0,000254 |
| SRPK2 | 1,277903 | 2,50E-06 |
| CENPB | 1,277733 | 2,04E-07 |
| C5orf30 | 1,274516 | 1,27E-05 |
| THAP11 | 1,273865 | 0,000246 |
| GSE1 | 1,272802 | 7,22E-08 |
| UBAC1 | 1,272376 | 0,000258 |
| SPATA33 | 1,271571 | 0,000123 |
| ADAT1 | 1,270524 | 2,74E-05 |
| BCAP31 | 1,27044 | 7,22E-06 |
| GRN | 1,26936 | 0,000576 |
| EMC3 | 1,267426 | 0,000182 |
| HMGN1 | 1,264795 | 2,57E-07 |
| PHKG2 | 1,263413 | 1,20E-05 |
| COX14 | 1,262372 | 0,000328 |
| ATL3 | 1,26112 | 0,000599 |
| EIF4EBP2 | 1,260735 | 0,000177 |
| LAMA5 | 1,260208 | 8,25E-06 |
| RGS12 | 1,260175 | 0,000396 |
| ZMYM2 | 1,260086 | 1,36E-06 |
| TIMM22 | 1,257512 | 3,16E-05 |
| CRTC2 | 1,256069 | 0,000137 |
| RPP40 | 1,255635 | 0,000287 |
| CMAS | 1,255568 | 0,000914 |
| C7orf26 | 1,254996 | 4,52E-06 |
| BACE2 | 1,254208 | 0,000134 |
| RSBN1 | 1,252278 | 5,53E-05 |
| TMEM251 | 1,252257 | 8,42E-05 |
| ARF3 | 1,250908 | 1,61E-06 |
| ANAPC15 | 1,249364 | 1,23E-05 |
| MRPL24 | 1,248046 | 2,07E-05 |
| LAMC1 | 1,24658 | 1,98E-06 |
| CELSR2 | 1,244061 | 0,000108 |
| MLYCD | 1,24341 | 0,000746 |
| MTA2 | 1,243198 | 9,90E-08 |
| ZBTB22 | 1,241316 | 0,000296 |
| LARS | 1,238296 | 9,27E-07 |
| ORAI2 | 1,23723 | 0,000349 |
| RPS19 | 1,236402 | 3,79E-05 |
| MIF-AS1 | 1,236058 | 0,00068 |
| NDUFB10 | 1,235767 | 4,15E-06 |
| SAMM50 | 1,235704 | 3,35E-05 |
| NDUFB5 | 1,232291 | 0,000223 |
| DPP3 | 1,2298 | 4,87E-05 |
| INTS8 | 1,22836 | 0,00021 |

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| COA5 | 1,227784 | 0,000822 |
| TMEM258 | 1,227226 | 0,000118 |
| OS9 | 1,226403 | 6,95E-05 |
| PSMC5 | 1,225546 | 1,19E-05 |
| SCFD1 | 1,22424 | 8,82E-06 |
| VPS25 | 1,223984 | 1,73E-05 |
| MRPL43 | 1,222613 | 0,000224 |
| GRB14 | 1,222008 | 0,000627 |
| NCBP2 | 1,221931 | 2,09E-05 |
| SMURF1 | 1,221565 | 4,05E-06 |
| MAF1 | 1,220407 | 3,18E-05 |
| LMAN2 | 1,219491 | 2,00E-06 |
| TMEM179f | 1,219289 | 0,000213 |
| ZNF786 | 1,216019 | 7,34E-05 |
| CALM1 | 1,215794 | 5,09E-05 |
| ZNF219 | 1,215723 | 0,00014 |
| OTUD7B | 1,215561 | 7,67E-06 |
| SPTBN2 | 1,215306 | 0,000183 |
| TOMM6 | 1,215075 | 3,95E-06 |
| RBBP9 | 1,213898 | 9,91E-05 |
| LPAR2 | 1,21355 | 1,35E-05 |
| NTPCR | 1,213198 | 0,000974 |
| SRA1 | 1,212915 | 0,000277 |
| XPOT | 1,21009 | 0,00051 |
| HDGF | 1,209846 | 4,35E-07 |
| ZKSCAN5 | 1,209579 | 5,41E-05 |
| COX7C | 1,208263 | 5,34E-07 |
| ZSWIM6 | 1,205826 | 0,000591 |
| ACTB | 1,205266 | 0,000721 |
| TARBP2 | 1,204911 | 1,67E-05 |
| NUBP2 | 1,204729 | 3,97E-06 |
| C8orf82 | 1,204075 | 0,000153 |
| DBI | 1,201064 | 3,79E-06 |
| TXNDC9 | 1,200953 | 7,22E-05 |
| NOTCH1 | 1,200526 | 0,000506 |
| RNF7 | 1,200464 | 2,84E-05 |
| GLRX5 | 1,20009 | 5,51E-05 |
| DECR2 | 1,199137 | 0,000246 |
| C17orf62 | 1,1989 | 9,27E-06 |
| UBE2T | 1,196232 | 3,63E-05 |
| PKP3 | 1,194493 | 0,000179 |
| NPC1 | 1,19418 | 0,000103 |
| SNAPIN | 1,194143 | 0,00014 |
| IKBKG | 1,193949 | 0,000462 |
| TK1 | 1,193755 | 2,47E-06 |
| RPL30 | 1,193488 | 0,000441 |
| RALGDS | 1,192964 | 5,59E-05 |
| DLD | 1,192833 | 0,000307 |
| SPG21 | 1,191417 | 6,43E-06 |
| AP4B1 | 1,189196 | 0,000149 |

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| MTSS1L | 1,188545 | 0,000489 |
| OTUB1 | 1,186435 | 4,39E-06 |
| TTC9 | 1,185091 | 0,00012 |
| RNMTL1 | 1,184387 | 0,000274 |
| SLC25A43 | 1,184275 | 8,40E-05 |
| NRBP1 | 1,184218 | 0,00018 |
| DERL1 | 1,182861 | 0,00029 |
| ETFA | 1,182622 | 0,000248 |
| AGAP2-AS1 | 1,18212 | 0,00079 |
| SART1 | 1,182043 | 2,09E-06 |
| PSMD7 | 1,180327 | 5,66E-07 |
| FAHD1 | 1,176774 | 0,000677 |
| PBX2 | 1,174574 | 3,14E-05 |
| ENDOG | 1,17257 | 0,000368 |
| CYC1 | 1,172103 | 3,40E-06 |
| ECSIT | 1,171856 | 1,84E-05 |
| TAF6 | 1,16885 | 9,38E-06 |
| ARPP19 | 1,168735 | 1,25E-06 |
| PSMB4 | 1,168592 | 9,40E-06 |
| ABHD12 | 1,168127 | 3,75E-05 |
| MCM7 | 1,168112 | 1,96E-05 |
| EEF1G | 1,167794 | 3,18E-06 |
| POLE4 | 1,16727 | 0,000758 |
| CKAP5 | 1,166864 | 3,81E-05 |
| ATP5H | 1,166786 | 1,59E-05 |
| ZNF398 | 1,16614 | 7,22E-06 |
| RSRC1 | 1,164172 | 0,000112 |
| PRDX2 | 1,163858 | 1,18E-05 |
| CD47 | 1,163344 | 0,0001 |
| TMEM9 | 1,161836 | 5,21E-05 |
| TRIM26 | 1,161092 | 2,50E-05 |
| YIF1A | 1,159888 | 2,16E-05 |
| ATP5B | 1,157275 | 7,50E-06 |
| SMG7 | 1,154996 | 1,41E-06 |
| PAFAH1B3 | 1,154149 | 1,76E-05 |
| MFSD3 | 1,153696 | 6,63E-05 |
| SNRPF | 1,153479 | 0,000273 |
| CDC25B | 1,151957 | 0,000461 |
| MZT2B | 1,150337 | 0,000207 |
| KMT2E | 1,14956 | 5,89E-05 |
| FLOT2 | 1,148721 | 9,53E-05 |
| RPRD2 | 1,147184 | 5,90E-05 |
| CDK5 | 1,146184 | 0,000277 |
| SEC11A | 1,144002 | 1,15E-06 |
| MEA1 | 1,142537 | 5,54E-06 |
| ESYT2 | 1,140929 | 4,47E-06 |
| PAAF1 | 1,139943 | 9,14E-05 |
| COX6A1 | 1,138598 | 1,89E-06 |
| UBTD2 | 1,137363 | 7,74E-05 |
| MREG | 1,137184 | 0,000246 |

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| SLC44A2 | 1,134676 | 0,00036 |
| RUFY1 | 1,133205 | 0,000161 |
| TMEM131 | 1,131929 | 4,40E-05 |
| WDR60 | 1,130749 | 0,000812 |
| SOGA1 | 1,130435 | 0,000132 |
| MAZ | 1,126788 | 1,63E-05 |
| PDAP1 | 1,126235 | 9,84E-06 |
| SERP1 | 1,120583 | 5,12E-06 |
| G6PC3 | 1,118029 | 0,000104 |
| UQCRB | 1,116818 | 0,000114 |
| MIDN | 1,114656 | 0,000241 |
| ZMYND11 | 1,11253 | 0,000169 |
| NDUFB2 | 1,111588 | 2,50E-05 |
| METTL9 | 1,110599 | 9,18E-06 |
| NSD1 | 1,110145 | 0,000189 |
| TCEB2 | 1,106284 | 0,000114 |
| TMED10 | 1,104108 | 2,90E-05 |
| EPB41L5 | 1,103659 | 7,67E-05 |
| RPS14 | 1,103346 | 6,41E-05 |
| KIF14 | 1,102437 | 0,000371 |
| RPS17 | 1,101195 | 0,000305 |
| PPP1R14B | 1,100621 | 4,13E-06 |
| EHMT2 | 1,099958 | 0,000885 |
| TRAF4 | 1,099753 | 9,59E-05 |
| EPN1 | 1,099571 | 0,000453 |
| RPL32 | 1,098999 | 0,000254 |
| BCL7C | 1,097857 | 8,13E-05 |
| P2RX4 | 1,095654 | 0,000532 |
| ANKIB1 | 1,094538 | 0,000123 |
| SNRPC | 1,094029 | 5,92E-05 |
| TPX2 | 1,093119 | 2,37E-05 |
| SUV420H1 | 1,089888 | 0,000221 |
| ZC3H3 | 1,083688 | 0,000381 |
| NDUFS8 | 1,082541 | 7,72E-05 |
| PLEKHF2 | 1,082523 | 0,000161 |
| CST3 | 1,081429 | 0,000439 |
| CDKN3 | 1,081273 | 0,000177 |
| IMPA2 | 1,081061 | 0,000272 |
| COX6B1 | 1,080597 | 8,83E-05 |
| TCF25 | 1,078536 | 1,34E-05 |
| CENPE | 1,078197 | 0,000355 |
| UBQLN4 | 1,07586 | 4,38E-05 |
| PIGT | 1,074556 | 0,000152 |
| PFDN5 | 1,072165 | 4,23E-05 |
| IMPDH1 | 1,071832 | 0,000928 |
| RNF13 | 1,071703 | 0,000406 |
| MPDU1 | 1,071301 | 0,00017 |
| RNF139 | 1,070091 | 7,37E-05 |
| CERS2 | 1,069505 | 1,89E-05 |
| RARA | 1,069378 | 0,000857 |

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| ATRAID | 1,067573 | 0,000454 |
| GPAA1 | 1,067319 | 0,00027 |
| STX6 | 1,0664 | 5,05E-05 |
| CDYL | 1,065245 | 0,000141 |
| LLPH | 1,0639 | 2,72E-05 |
| TMEM141 | 1,060288 | 0,000111 |
| MRPS12 | 1,058865 | 0,000149 |
| NDUFB4 | 1,057686 | 8,99E-05 |
| ALDH3A2 | 1,053649 | 2,02E-05 |
| LOC90784 | 1,05364 | 0,000672 |
| PHLPP1 | 1,053546 | 0,000147 |
| NUCB1 | 1,052177 | 0,000185 |
| LRRC45 | 1,043062 | 0,000309 |
| ATP5A1 | 1,041263 | 4,26E-05 |
| GCC1 | 1,041257 | 0,000249 |
| CUL9 | 1,040863 | 0,000781 |
| RAB3IP | 1,039244 | 4,72E-05 |
| AP2S1 | 1,039215 | 0,000137 |
| FAM195A | 1,03706 | 0,000262 |
| TOP1MT | 1,036653 | 0,000728 |
| ECHS1 | 1,03432 | 6,51E-05 |
| IDH3G | 1,033441 | 9,09E-05 |
| SYPL1 | 1,032682 | 0,000293 |
| GLTSCR2 | 1,028248 | 5,64E-05 |
| RFC2 | 1,027588 | 3,19E-05 |
| TDG | 1,027117 | 0,000706 |
| PEX11B | 1,026548 | 0,000923 |
| ZNRF3 | 1,024904 | 2,90E-05 |
| DNPH1 | 1,024556 | 7,45E-05 |
| VPS52 | 1,024554 | 0,000268 |
| ADNP | 1,022612 | 0,000169 |
| CNOT2 | 1,021947 | 0,000142 |
| GON4L | 1,021654 | 0,000177 |
| OSTC | 1,020862 | 0,000677 |
| METTL2A | 1,020858 | 0,00072 |
| ANAPC11 | 1,017775 | 0,001005 |
| TPGS2 | 1,017709 | 0,000306 |
| ZFP62 | 1,017476 | 0,000486 |
| ARNT | 1,016907 | 0,00029 |
| C6orf47 | 1,016459 | 0,000741 |
| CYBA | 1,012695 | 0,000393 |
| CENPN | 1,010042 | 9,59E-05 |
| PAK2 | 1,006591 | 0,000125 |
| KRIT1 | 1,001478 | 0,000489 |
| MAPKAP1 | 0,996664 | 0,000702 |
| SLC25A39 | 0,996058 | 2,90E-05 |
| NCAPG2 | 0,995039 | 0,001007 |
| RPS15A | 0,992017 | 0,000601 |
| TUBGCP2 | 0,991597 | 0,000174 |
| BCAP29 | 0,984462 | 0,00081 |

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| CDK2AP2 | 0,984389 | 0,000416 |
| ZC3H18 | 0,980808 | 0,000242 |
| UBL7 | 0,978634 | 0,000988 |
| ATP5I | 0,97659 | 8,26E-05 |
| LMNB1 | 0,975967 | 0,000546 |
| MRPL21 | 0,974143 | 0,000667 |
| CCZ1B | 0,970773 | 0,000676 |
| PIGX | 0,966721 | 0,000775 |
| NDUFB7 | 0,96622 | 0,000102 |
| PPP2R5E | 0,965265 | 0,000203 |
| CHCHD3 | 0,964102 | 0,000137 |
| NSDHL | 0,960821 | 0,000742 |
| PRR13 | 0,95815 | 0,00033 |
| YWHAZ | 0,956842 | 0,000452 |
| SPATS2 | 0,95621 | 0,000495 |
| FBR5 | 0,955855 | 8,41E-05 |
| TRIM28 | 0,954391 | 5,64E-05 |
| GGCT | 0,952785 | 0,000174 |
| EIF3E | 0,952113 | 0,000667 |
| KRTCAP2 | 0,951387 | 0,00048 |
| RPL8 | 0,951011 | 0,000273 |
| PPP1CA | 0,950711 | 6,44E-05 |
| HNRNPAB | 0,94831 | 0,00017 |
| ARMT1 | 0,947934 | 0,000976 |
| EIF3H | 0,938998 | 0,000115 |
| PI4KB | 0,937409 | 0,00055 |
| HMBS | 0,933403 | 0,000639 |
| ILVBL | 0,932742 | 0,000216 |
| KIAA1429 | 0,932644 | 0,00077 |
| NBN | 0,93235 | 0,000144 |
| SGPL1 | 0,926557 | 0,000485 |
| CPNE3 | 0,926097 | 0,000495 |
| DYM | 0,920241 | 0,000462 |
| MAP4K4 | 0,915212 | 0,000845 |
| IMP4 | 0,91127 | 0,000896 |
| RAB5A | 0,910386 | 0,000596 |
| GPX4 | 0,908832 | 0,000242 |
| ATP5C1 | 0,906909 | 0,000768 |
| MRPS34 | 0,906637 | 0,00052 |
| MAPKAPK2 | 0,894728 | 0,000495 |
| ACAA2 | 0,894079 | 0,000566 |
| RALY | 0,890634 | 0,000742 |
| PABPC1 | 0,883962 | 0,000106 |
| BPTF | 0,876065 | 0,000534 |
| TOP1 | 0,872743 | 0,00031 |
| GNB2L1 | 0,866841 | 0,00031 |
| C14orf166 | 0,861927 | 0,000749 |
| UQCRCQ | 0,859634 | 0,000676 |
| PSMC1 | 0,854815 | 0,000484 |
| ITPK1 | 0,842833 | 0,000645 |

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| KIAA1191 | 0,841258 | 0,000929 |
| CHMP4B | 0,816357 | 0,000935 |
| CSNK2A1 | -0,83341 | 0,00078 |
| SLC20A1 | -0,85711 | 0,001001 |
| DNTTIP2 | -0,86263 | 0,000908 |
| UBR4 | -0,86574 | 0,000767 |
| THOP1 | -0,86635 | 0,000599 |
| TIMM13 | -0,87576 | 0,000871 |
| PBRM1 | -0,87803 | 0,000468 |
| NAP1L4 | -0,87975 | 0,000369 |
| MFN2 | -0,88066 | 0,000355 |
| ITCH | -0,88232 | 0,000882 |
| CLIP1 | -0,88714 | 0,000571 |
| EML4 | -0,89213 | 0,000717 |
| ODC1 | -0,90438 | 0,000263 |
| MAPK1 | -0,91361 | 0,000604 |
| MAP4 | -0,923 | 0,000167 |
| STK25 | -0,92328 | 0,000412 |
| RNF220 | -0,93016 | 0,000438 |
| ZNF106 | -0,93039 | 0,000376 |
| ATP6V1B2 | -0,93504 | 0,000564 |
| GIGYF2 | -0,9373 | 0,000218 |
| PHIP | -0,94081 | 0,000449 |
| AK2 | -0,94168 | 0,000252 |
| KAT6A | -0,94466 | 0,000754 |
| CLSTN1 | -0,94482 | 0,000494 |
| PUM1 | -0,94566 | 0,00035 |
| SUN1 | -0,9501 | 0,000511 |
| POLRMT | -0,95017 | 0,000954 |
| SETX | -0,95276 | 0,00057 |
| SBDS | -0,95284 | 0,000445 |
| QSOX1 | -0,95314 | 0,000407 |
| NISCH | -0,95431 | 0,000625 |
| CCT8 | -0,95698 | 0,000236 |
| ARHGEF12 | -0,95791 | 0,000494 |
| RBM6 | -0,95838 | 0,000619 |
| PITPNB | -0,95869 | 0,000339 |
| SENPA6 | -0,96176 | 0,000972 |
| APPL1 | -0,966 | 0,000639 |
| OGFR | -0,96666 | 0,00091 |
| ERLIN2 | -0,96682 | 0,000432 |
| CYFIP1 | -0,96805 | 0,000905 |
| VPS37B | -0,9684 | 0,000746 |
| TXNDC12 | -0,97032 | 0,000627 |
| CNOT1 | -0,97038 | 3,78E-05 |
| THRAP3 | -0,97142 | 0,000171 |
| PRKDC | -0,97204 | 0,000444 |
| FAM3C | -0,97368 | 0,000418 |
| CEP104 | -0,97675 | 0,000777 |
| SEPN1 | -0,97707 | 0,0007 |

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| ZYX | -0,97726 | 0,000711 |
| NCL | -0,97928 | 3,04E-05 |
| WDFY1 | -0,98486 | 0,000543 |
| PCNA | -0,98715 | 0,000262 |
| TRABD | -0,99053 | 0,000431 |
| ABLIM1 | -0,99112 | 0,000237 |
| RLIM | -0,99294 | 0,00032 |
| ALS2 | -0,99403 | 0,000581 |
| MARCKS | -1,00485 | 0,000694 |
| GIN54 | -1,00522 | 0,000706 |
| URB1 | -1,00528 | 0,000588 |
| MTHFD1L | -1,00661 | 0,000819 |
| EXOSC10 | -1,00674 | 0,000747 |
| PRKD3 | -1,00915 | 0,000409 |
| TOMM34 | -1,01015 | 0,000293 |
| ACBD3 | -1,01059 | 0,000203 |
| TTLL12 | -1,01245 | 0,000438 |
| TMEM2 | -1,01299 | 0,000695 |
| ETNK1 | -1,01569 | 0,000563 |
| TPCN1 | -1,01679 | 0,001007 |
| NOLC1 | -1,02 | 0,000235 |
| OGFOD1 | -1,02132 | 9,49E-05 |
| WASF2 | -1,02351 | 0,000115 |
| USP48 | -1,0245 | 0,000988 |
| TMED5 | -1,02452 | 0,0009 |
| TMEM259 | -1,02469 | 7,51E-05 |
| CTDSPL | -1,02526 | 0,000231 |
| NDUFA10 | -1,02644 | 0,000108 |
| CUL5 | -1,02828 | 0,000543 |
| NUDT21 | -1,03083 | 9,40E-05 |
| GCH1 | -1,03305 | 0,000696 |
| GMDS | -1,03384 | 0,000714 |
| AGPAT5 | -1,03469 | 0,0006 |
| P4HA1 | -1,03604 | 0,000236 |
| GOSR1 | -1,03779 | 0,000625 |
| LRRC41 | -1,04221 | 5,97E-05 |
| IBTK | -1,04457 | 0,000218 |
| COPS2 | -1,04552 | 0,000149 |
| CDK12 | -1,04683 | 0,000742 |
| NHLRC2 | -1,048 | 0,001003 |
| LMAN1 | -1,04998 | 0,000258 |
| UBE3A | -1,05133 | 2,16E-05 |
| BLMH | -1,05191 | 0,000954 |
| NDC1 | -1,05418 | 0,000724 |
| TEAD1 | -1,05479 | 8,97E-05 |
| RFC1 | -1,05646 | 4,50E-05 |
| SLC25A6 | -1,05919 | 0,0001 |
| ZFAND5 | -1,05982 | 7,54E-05 |
| DHX30 | -1,06169 | 0,000112 |
| SLC46A1 | -1,06448 | 0,00084 |

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| GPX8 | -1,065 | 0,00096 |
| AGAP1 | -1,06623 | 0,000741 |
| SHROOM3 | -1,06967 | 8,86E-05 |
| TUBGCP3 | -1,0718 | 0,000425 |
| TMC6 | -1,07323 | 0,000603 |
| SRSF11 | -1,07492 | 9,04E-05 |
| FNIP1 | -1,07559 | 0,000204 |
| APBB2 | -1,08022 | 0,000461 |
| CC2D1B | -1,08036 | 0,000206 |
| NECAP1 | -1,08493 | 0,000182 |
| TCF20 | -1,08631 | 2,24E-05 |
| GTF2H1 | -1,08653 | 4,92E-05 |
| ZNF335 | -1,08748 | 0,000488 |
| YRDC | -1,08806 | 0,000866 |
| PLEKHA5 | -1,08983 | 0,000871 |
| KHNYN | -1,09002 | 0,000764 |
| PHF3 | -1,09155 | 0,000135 |
| SIK3 | -1,09249 | 9,89E-05 |
| LRPPRC | -1,09332 | 3,25E-06 |
| PLP2 | -1,09425 | 4,38E-05 |
| MTF1 | -1,09532 | 0,000172 |
| SHMT1 | -1,0968 | 0,000387 |
| CLEC16A | -1,097 | 0,000131 |
| ATM | -1,09834 | 0,000648 |
| RIF1 | -1,10291 | 0,000296 |
| SBNO2 | -1,10345 | 0,000138 |
| GTF2H3 | -1,10604 | 0,000609 |
| TICAM1 | -1,10671 | 0,000745 |
| AP2B1 | -1,11322 | 6,32E-06 |
| EIF3J | -1,11342 | 2,71E-05 |
| ARHGAP27 | -1,11408 | 0,00044 |
| TRAPPC11 | -1,11627 | 0,000112 |
| VPRBP | -1,11768 | 3,52E-05 |
| GNA11 | -1,11789 | 1,66E-05 |
| MAST3 | -1,11923 | 0,000546 |
| ZYG11B | -1,12217 | 0,0005 |
| EBLN3 | -1,12354 | 7,79E-05 |
| RNF138 | -1,12528 | 0,000121 |
| ARFGEF1 | -1,12574 | 8,75E-05 |
| NUP133 | -1,12623 | 0,00046 |
| CKAP4 | -1,12653 | 4,54E-06 |
| PHF13 | -1,12705 | 0,000216 |
| CWC25 | -1,12807 | 0,000533 |
| CELSR1 | -1,13278 | 0,000226 |
| PRPS1 | -1,13306 | 0,000343 |
| EYA3 | -1,13363 | 0,000495 |
| USP9X | -1,13393 | 0,000479 |
| MARVELD1 | -1,13508 | 0,00041 |
| SERTAD2 | -1,1373 | 0,00021 |
| ORC1 | -1,13757 | 0,000383 |

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| ARHGEF18 | -1,13812 | 4,62E-05 |
| ELK1 | -1,1384 | 0,000132 |
| USP1 | -1,1393 | 0,000603 |
| ENTPD4 | -1,14001 | 0,000735 |
| USP25 | -1,14291 | 0,000368 |
| MTERF4 | -1,14421 | 0,000511 |
| TMEM123 | -1,14531 | 5,16E-06 |
| TBC1D20 | -1,14585 | 0,000182 |
| LDHA | -1,14682 | 0,000591 |
| LPGAT1 | -1,14967 | 9,74E-05 |
| UBR3 | -1,15015 | 0,000263 |
| C17orf96 | -1,15186 | 7,88E-05 |
| BAP1 | -1,15465 | 1,87E-05 |
| ESCO2 | -1,15587 | 0,000255 |
| EIF3M | -1,15672 | 1,70E-06 |
| MFAP1 | -1,15688 | 0,000239 |
| SMC1A | -1,15763 | 1,79E-05 |
| HIGD1A | -1,1599 | 0,000103 |
| HBS1L | -1,16111 | 0,000581 |
| PTAR1 | -1,16158 | 0,000787 |
| NF1 | -1,16298 | 0,000327 |
| DOCK9 | -1,1644 | 0,000796 |
| RHPN2 | -1,16519 | 0,00092 |
| BAG4 | -1,16607 | 7,26E-05 |
| MANEAL | -1,16614 | 1,53E-05 |
| NVL | -1,16692 | 0,000119 |
| FOXK1 | -1,16705 | 0,000181 |
| KIAA1468 | -1,16818 | 0,000328 |
| INTS10 | -1,16914 | 0,00019 |
| BBS7 | -1,16986 | 0,000428 |
| UFL1 | -1,17144 | 0,000375 |
| RCC1 | -1,17325 | 9,65E-06 |
| BTAF1 | -1,17471 | 0,000101 |
| TRIOBP | -1,17522 | 0,000445 |
| CAB39 | -1,17526 | 7,50E-06 |
| TFDP1 | -1,17697 | 1,27E-06 |
| CHAF1A | -1,17829 | 0,000482 |
| PPP1R26 | -1,18049 | 0,0002 |
| QRSL1 | -1,18076 | 6,32E-05 |
| MPP6 | -1,18141 | 0,000578 |
| LYRM7 | -1,18144 | 0,000136 |
| CBL | -1,18292 | 3,94E-05 |
| LSR | -1,1836 | 0,00071 |
| ASXL2 | -1,18374 | 0,00011 |
| CORO1C | -1,18402 | 4,35E-05 |
| BOK | -1,18597 | 0,000271 |
| COLGALT1 | -1,18616 | 9,02E-05 |
| FUCA2 | -1,18728 | 0,000292 |
| FAM83G | -1,18939 | 2,43E-05 |
| U2SURP | -1,19012 | 3,06E-06 |

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| RBFOX2 | -1,19052 | 7,76E-06 |
| C6orf132 | -1,19261 | 1,86E-05 |
| COPRS | -1,19326 | 0,000236 |
| ROCK2 | -1,19332 | 2,00E-06 |
| FLNB | -1,19398 | 6,84E-05 |
| C1orf198 | -1,19436 | 0,000525 |
| CD99 | -1,19484 | 7,50E-06 |
| ACSL1 | -1,19611 | 0,000123 |
| CYTH3 | -1,19707 | 0,000262 |
| CD164 | -1,19958 | 1,16E-05 |
| LRRC42 | -1,19978 | 1,48E-05 |
| AIDA | -1,20067 | 0,000283 |
| TTL | -1,20221 | 9,24E-05 |
| CEP97 | -1,2032 | 0,000573 |
| HACD2 | -1,20517 | 0,000883 |
| PIDD1 | -1,20582 | 0,000346 |
| EPRS | -1,20626 | 1,40E-07 |
| SCARA3 | -1,20688 | 0,000825 |
| TCEB3 | -1,20775 | 7,69E-05 |
| SEPT2 | -1,20941 | 1,19E-06 |
| WDR36 | -1,20996 | 0,000118 |
| LRRC40 | -1,21165 | 0,000494 |
| TRMU | -1,21294 | 0,00028 |
| CSNK2A2 | -1,21354 | 5,16E-06 |
| TRMT6 | -1,21537 | 4,72E-05 |
| STIM1 | -1,21605 | 3,19E-05 |
| DDX52 | -1,21667 | 5,42E-05 |
| USP40 | -1,21742 | 0,000116 |
| RER1 | -1,21988 | 1,86E-06 |
| CDC6 | -1,22287 | 0,000131 |
| EIF4G3 | -1,22509 | 3,77E-07 |
| CCDC186 | -1,22656 | 0,000537 |
| SH3D19 | -1,22658 | 2,38E-05 |
| DCAKD | -1,22859 | 1,63E-05 |
| CBWD1 | -1,22912 | 0,000629 |
| BAZ2A | -1,23089 | 3,48E-05 |
| TAF1 | -1,23099 | 0,000229 |
| HIATL1 | -1,23351 | 9,01E-06 |
| AKR1A1 | -1,23369 | 2,67E-06 |
| XPNPEP1 | -1,23512 | 0,000102 |
| ARMC9 | -1,23528 | 0,000209 |
| QSER1 | -1,23606 | 6,40E-07 |
| KCTD9 | -1,23629 | 2,14E-05 |
| UPF3A | -1,23743 | 5,67E-05 |
| NIPA1 | -1,24377 | 5,64E-05 |
| FRG1 | -1,2452 | 0,000555 |
| CCDC93 | -1,24598 | 8,17E-05 |
| SYMPK | -1,24691 | 1,75E-07 |
| KLF16 | -1,24695 | 0,00056 |
| EMC3-AS1 | -1,24897 | 0,000174 |

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| AMD1 | -1,24941 | 0,000175 |
| GALNT7 | -1,24989 | 0,00099 |
| FBXO30 | -1,25307 | 0,000453 |
| KDELC2 | -1,25367 | 0,000256 |
| DSCR3 | -1,25462 | 4,86E-05 |
| SRSF4 | -1,25503 | 9,02E-06 |
| PKN2 | -1,25541 | 7,41E-05 |
| RHOBTB3 | -1,25602 | 4,24E-05 |
| DOCK7 | -1,25744 | 1,86E-05 |
| CASK | -1,25796 | 5,70E-05 |
| EPB41 | -1,26195 | 6,20E-05 |
| WRN | -1,26267 | 0,00074 |
| KPNA6 | -1,26274 | 0,00014 |
| SPTBN1 | -1,26419 | 3,78E-08 |
| USP28 | -1,26547 | 0,000116 |
| TNFAIP8L1 | -1,266 | 0,000378 |
| DIS3 | -1,26653 | 1,60E-05 |
| NOL6 | -1,26665 | 0,000651 |
| NUP50 | -1,26881 | 7,46E-05 |
| AHNAK | -1,26908 | 7,88E-05 |
| C9orf40 | -1,26969 | 0,000256 |
| SLC6A6 | -1,26984 | 0,001003 |
| SLC35F2 | -1,27013 | 0,000282 |
| ago-03 | -1,27072 | 0,000858 |
| TNKS | -1,27239 | 0,000785 |
| APP | -1,27266 | 6,30E-08 |
| PRMT3 | -1,27449 | 0,000115 |
| ADAM10 | -1,27493 | 1,12E-05 |
| HIP1 | -1,27547 | 5,59E-07 |
| IPO7 | -1,27872 | 6,86E-08 |
| EPS15 | -1,27875 | 8,84E-06 |
| HAUS6 | -1,27935 | 1,79E-05 |
| MAPKAPK3 | -1,27995 | 0,000106 |
| PISD | -1,28001 | 9,29E-06 |
| LARS2 | -1,28019 | 6,16E-05 |
| MIEF1 | -1,28027 | 8,14E-07 |
| SOAT1 | -1,28034 | 0,000426 |
| PPTC7 | -1,2829 | 1,60E-05 |
| CASP8 | -1,28628 | 2,31E-05 |
| MTR | -1,28703 | 0,000438 |
| ACADM | -1,28784 | 1,15E-05 |
| PTPN3 | -1,28819 | 0,000175 |
| DFFA | -1,29026 | 2,84E-05 |
| RMDN3 | -1,29082 | 0,000899 |
| ITGAV | -1,29202 | 1,76E-05 |
| C12orf4 | -1,29237 | 0,000489 |
| PYCR2 | -1,29405 | 0,000809 |
| MT01 | -1,29431 | 2,03E-05 |
| DDX10 | -1,29484 | 5,24E-06 |
| ERI1 | -1,29595 | 1,55E-05 |

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| CDC42EP2 | -1,29992 | 0,000733 |
| LONP2 | -1,3002 | 3,10E-07 |
| HIAT1 | -1,30071 | 6,49E-05 |
| PROSC | -1,30234 | 3,76E-06 |
| MROH6 | -1,30476 | 0,000806 |
| CNOT6L | -1,3059 | 3,12E-05 |
| CCDC109B | -1,30602 | 0,000996 |
| DVL1 | -1,30634 | 9,55E-06 |
| SH3PXD2B | -1,30716 | 0,000351 |
| INPP5F | -1,30831 | 0,000201 |
| LZTR1 | -1,30876 | 2,98E-05 |
| KIAA0040 | -1,30972 | 5,65E-05 |
| PDIA3 | -1,31122 | 1,32E-07 |
| OSGEP | -1,31152 | 0,000162 |
| TPP1 | -1,31358 | 2,69E-05 |
| SPAG9 | -1,31358 | 0,000102 |
| TRAF3 | -1,31417 | 2,03E-06 |
| STK4 | -1,31469 | 7,96E-07 |
| FAM111A | -1,32034 | 0,00073 |
| MAK16 | -1,32245 | 0,000211 |
| PAPD5 | -1,32422 | 1,05E-05 |
| MLLT6 | -1,32435 | 1,91E-08 |
| ARFGAP3 | -1,32465 | 0,000265 |
| NOCT | -1,32481 | 6,17E-05 |
| ZNF770 | -1,32518 | 0,000482 |
| SGK223 | -1,32556 | 0,00051 |
| NDFIP2 | -1,32939 | 8,92E-06 |
| PLS1 | -1,33135 | 0,000118 |
| SLC35D1 | -1,33487 | 0,000219 |
| CHAF1B | -1,33678 | 2,62E-05 |
| REXO2 | -1,33698 | 0,00089 |
| FDFT1 | -1,33892 | 4,38E-05 |
| JOSD1 | -1,3394 | 2,17E-07 |
| RBM26 | -1,33951 | 1,24E-05 |
| RPUSD4 | -1,34124 | 1,62E-05 |
| MFHAS1 | -1,34204 | 9,45E-08 |
| LAMA3 | -1,34219 | 0,000592 |
| ATP11B | -1,34365 | 4,57E-07 |
| TRAK1 | -1,34452 | 2,30E-06 |
| CEP57 | -1,34461 | 0,00035 |
| ZNF37A | -1,34509 | 1,38E-05 |
| ALAS1 | -1,34596 | 3,33E-05 |
| SEPT11 | -1,34703 | 1,58E-08 |
| BAG2 | -1,34785 | 2,91E-05 |
| MCM8 | -1,34851 | 8,35E-05 |
| TOLLIP | -1,34923 | 0,000708 |
| PTPRU | -1,3494 | 1,39E-05 |
| SRRM1 | -1,3498 | 2,22E-06 |
| NOC3L | -1,35069 | 0,000292 |
| TWISTNB | -1,35219 | 3,12E-06 |

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| DESI2 | -1,35323 | 1,51E-06 |
| BIRC2 | -1,35569 | 0,000264 |
| DCAF12 | -1,35657 | 9,18E-08 |
| VAMP2 | -1,36111 | 1,55E-05 |
| KLHL5 | -1,36134 | 3,19E-05 |
| PIM3 | -1,36311 | 6,31E-05 |
| CLN8 | -1,36422 | 9,29E-06 |
| PIIP5K1 | -1,36493 | 2,19E-06 |
| GSR | -1,36529 | 7,99E-06 |
| UBA5 | -1,36544 | 4,31E-05 |
| FOXO3 | -1,36623 | 0,000651 |
| RPS6KA1 | -1,36665 | 0,000291 |
| EDEM1 | -1,36713 | 8,55E-06 |
| ANKZF1 | -1,36846 | 0,000375 |
| MGAT5 | -1,36869 | 6,16E-06 |
| ATXN2 | -1,36873 | 1,01E-06 |
| SPOP | -1,36908 | 5,37E-06 |
| P4HA2 | -1,3695 | 0,000174 |
| PGM2 | -1,37267 | 0,000249 |
| KLHL18 | -1,37486 | 0,000706 |
| BROX | -1,37549 | 2,95E-07 |
| ERO1A | -1,37974 | 0,000257 |
| ZMYM6 | -1,37981 | 0,000177 |
| PKD2 | -1,37992 | 6,76E-05 |
| POLM | -1,38174 | 0,00016 |
| MCFD2 | -1,38191 | 3,65E-07 |
| EHD2 | -1,38517 | 0,000146 |
| CCSAP | -1,38626 | 0,000188 |
| YIPF6 | -1,3864 | 2,97E-07 |
| SLC35A3 | -1,38908 | 8,39E-06 |
| SSH2 | -1,39063 | 5,73E-05 |
| SACM1L | -1,39187 | 1,58E-06 |
| ZC3H7B | -1,3939 | 3,98E-08 |
| DR1 | -1,394 | 1,09E-07 |
| NSRP1 | -1,39488 | 1,59E-05 |
| RANGRF | -1,39563 | 0,000135 |
| UTP14C | -1,39701 | 7,85E-05 |
| STX3 | -1,39831 | 4,01E-05 |
| DSG2 | -1,39855 | 1,08E-08 |
| NEMP1 | -1,40028 | 5,23E-06 |
| PBK | -1,40311 | 8,40E-05 |
| MIA3 | -1,40318 | 9,98E-08 |
| NMNAT1 | -1,40763 | 0,000693 |
| ILKAP | -1,40867 | 8,97E-05 |
| COASY | -1,40869 | 3,63E-08 |
| RAB29 | -1,41345 | 8,79E-05 |
| NXN | -1,41493 | 2,48E-06 |
| KIF1B | -1,41593 | 4,64E-05 |
| HERC2 | -1,41886 | 5,09E-07 |
| TNPO1 | -1,4212 | 3,03E-09 |

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| SLBP | -1,42286 | 2,01E-06 |
| KREMEN1 | -1,42363 | 2,18E-07 |
| GALNT2 | -1,42698 | 1,18E-05 |
| AGFG2 | -1,42866 | 0,000453 |
| H6PD | -1,42968 | 8,44E-05 |
| AGTPBP1 | -1,42995 | 3,91E-06 |
| MSI2 | -1,43011 | 3,85E-06 |
| REL | -1,43304 | 2,23E-06 |
| TBX3 | -1,43409 | 2,36E-07 |
| PNP | -1,43675 | 4,16E-06 |
| DTX3L | -1,44032 | 0,000318 |
| CMTM4 | -1,4414 | 3,59E-09 |
| NFIA | -1,44178 | 3,88E-06 |
| ACBD5 | -1,44398 | 8,38E-06 |
| TMEM181 | -1,44651 | 1,02E-06 |
| DPYSL2 | -1,44682 | 0,000775 |
| BBX | -1,44831 | 1,60E-06 |
| MKNK2 | -1,44862 | 1,03E-06 |
| MORC3 | -1,44997 | 4,54E-05 |
| SCRN1 | -1,45249 | 2,06E-08 |
| HMGA1 | -1,45325 | 1,14E-06 |
| STK39 | -1,454 | 0,000656 |
| RAD54L2 | -1,45414 | 5,86E-05 |
| TARBP1 | -1,4545 | 0,000407 |
| SZT2 | -1,45456 | 0,000355 |
| TACC1 | -1,45653 | 1,18E-07 |
| CYB5RL | -1,45666 | 0,000423 |
| SORBS3 | -1,45684 | 1,47E-06 |
| PACSIN2 | -1,4574 | 5,01E-07 |
| PRICKLE3 | -1,46473 | 2,28E-05 |
| ABCD3 | -1,46655 | 3,56E-07 |
| MED8 | -1,46946 | 0,000118 |
| COTL1 | -1,46968 | 1,53E-07 |
| METTLL17 | -1,47 | 0,000376 |
| CHD9 | -1,4716 | 1,88E-05 |
| API5 | -1,47192 | 1,33E-07 |
| OTUD3 | -1,47252 | 3,03E-05 |
| WDR81 | -1,47327 | 2,96E-05 |
| B3GALNT2 | -1,47486 | 2,87E-07 |
| RAB3GAP2 | -1,47514 | 3,80E-08 |
| QSOX2 | -1,4766 | 3,64E-05 |
| PQLC1 | -1,47747 | 3,21E-06 |
| SYNJ2 | -1,48132 | 1,47E-05 |
| PGM3 | -1,48214 | 2,12E-05 |
| DNAJC24 | -1,4822 | 0,000833 |
| DOPEY1 | -1,48222 | 0,000338 |
| DDX21 | -1,48226 | 2,59E-07 |
| LOC100506 | -1,48471 | 0,000204 |
| LMF2 | -1,48656 | 2,97E-06 |
| RTCA | -1,4881 | 2,95E-07 |

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| SH3RF1 | -1,48818 | 0,000877 |
| BMP2K | -1,4891 | 3,10E-05 |
| SFMBT1 | -1,49115 | 9,36E-05 |
| FOXN2 | -1,49216 | 3,83E-05 |
| USP16 | -1,49262 | 1,19E-08 |
| RRAS2 | -1,49307 | 9,48E-06 |
| P3H1 | -1,49411 | 1,20E-05 |
| TFB1M | -1,49464 | 0,000652 |
| PDE12 | -1,49468 | 2,00E-08 |
| TYMS | -1,49672 | 1,50E-09 |
| CCBL2 | -1,50003 | 2,80E-07 |
| YARS | -1,50083 | 5,64E-06 |
| TTC17 | -1,50374 | 5,21E-09 |
| WDR13 | -1,50837 | 0,000135 |
| CDC14B | -1,50923 | 0,000119 |
| STX2 | -1,50966 | 0,000246 |
| CTNNAL1 | -1,51114 | 0,000208 |
| POLQ | -1,51266 | 0,000456 |
| PDZD8 | -1,51276 | 4,37E-10 |
| MORN1 | -1,51344 | 9,94E-05 |
| ENO2 | -1,5141 | 0,00026 |
| HMHA1 | -1,51852 | 3,06E-06 |
| RHOBTB2 | -1,51907 | 6,66E-05 |
| PHF8 | -1,51907 | 4,54E-06 |
| MELK | -1,52082 | 2,05E-09 |
| IPO5 | -1,52148 | 1,71E-08 |
| CDC25A | -1,52399 | 1,58E-05 |
| DNAJC16 | -1,52407 | 2,03E-06 |
| PIBF1 | -1,52407 | 0,000954 |
| PRKAR2A | -1,52449 | 3,91E-05 |
| RDX | -1,52652 | 1,40E-07 |
| NT5DC3 | -1,52829 | 3,12E-05 |
| NPAT | -1,52927 | 2,60E-06 |
| MYO1B | -1,52968 | 5,46E-06 |
| ACD | -1,52981 | 1,89E-07 |
| GPC4 | -1,53098 | 2,96E-05 |
| MCOLN1 | -1,53506 | 2,08E-05 |
| DGKQ | -1,53839 | 7,22E-05 |
| HLCS | -1,53841 | 0,000646 |
| S100A6 | -1,53848 | 0,000626 |
| AHCTF1 | -1,53966 | 2,33E-06 |
| OSBP | -1,54299 | 1,13E-09 |
| GTPBP1 | -1,54314 | 2,04E-07 |
| GART | -1,54367 | 1,48E-08 |
| ZNF37BP | -1,54547 | 5,81E-05 |
| CRLF3 | -1,54561 | 0,000531 |
| SARM1 | -1,54849 | 0,000223 |
| GLIS2 | -1,54984 | 6,80E-05 |
| TOE1 | -1,5506 | 8,64E-05 |
| ACACA | -1,55111 | 1,24E-09 |

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| DESI1 | -1,55685 | 4,52E-10 |
| PKP2 | -1,55801 | 8,82E-05 |
| OTUD4 | -1,55845 | 2,56E-07 |
| MYCBP2 | -1,56031 | 5,02E-07 |
| KANK1 | -1,56103 | 1,54E-06 |
| POMZP3 | -1,56775 | 1,81E-05 |
| NKTR | -1,56787 | 1,39E-07 |
| TGFB1 | -1,56821 | 2,35E-08 |
| TGFBR2 | -1,56853 | 5,59E-05 |
| MGAT4A | -1,57053 | 0,000101 |
| WRAP73 | -1,57288 | 0,000239 |
| MAP3K10 | -1,57354 | 3,26E-06 |
| RPAP2 | -1,57553 | 5,93E-07 |
| LRP6 | -1,57754 | 1,28E-07 |
| SLC4A3 | -1,57875 | 0,0006 |
| PCNXL2 | -1,57994 | 1,68E-06 |
| TMEM201 | -1,5801 | 5,00E-08 |
| LCOR | -1,58294 | 6,34E-08 |
| C1orf216 | -1,58303 | 4,86E-07 |
| NUP43 | -1,58312 | 1,75E-06 |
| COBL | -1,58319 | 4,28E-06 |
| TCF12 | -1,5836 | 1,10E-05 |
| MYSM1 | -1,58435 | 7,25E-05 |
| HDAC6 | -1,58454 | 6,31E-07 |
| RRM2 | -1,58497 | 9,92E-08 |
| CARS2 | -1,58632 | 2,00E-05 |
| GAL | -1,58838 | 1,21E-07 |
| CBFB | -1,58868 | 7,98E-09 |
| SSX2IP | -1,58955 | 2,81E-08 |
| ARIH2 | -1,59134 | 3,98E-09 |
| TIFA | -1,59154 | 0,000621 |
| TJP1 | -1,59173 | 9,03E-07 |
| ZNF324 | -1,59369 | 2,57E-05 |
| ATF4 | -1,59569 | 1,32E-05 |
| LENG8 | -1,59976 | 2,96E-05 |
| ASRGL1 | -1,60255 | 0,0001 |
| ANKH | -1,60303 | 6,22E-07 |
| PDP1 | -1,60309 | 8,80E-06 |
| CFAP97 | -1,60311 | 2,29E-06 |
| DONSON | -1,60474 | 1,07E-05 |
| PIK3C3 | -1,60492 | 7,77E-07 |
| DHRS11 | -1,60533 | 9,47E-05 |
| PARVA | -1,6054 | 2,45E-06 |
| ACAT1 | -1,6062 | 4,93E-05 |
| FYCO1 | -1,61121 | 9,36E-06 |
| BEND7 | -1,61204 | 0,000906 |
| SYNJ1 | -1,61237 | 0,000232 |
| CLDND1 | -1,61275 | 7,34E-05 |
| STAT3 | -1,61909 | 1,97E-05 |
| PVR | -1,62101 | 0,000229 |

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| FAM213B | -1,62399 | 5,94E-08 |
| JAK1 | -1,62435 | 6,10E-09 |
| KATNB1 | -1,62822 | 7,78E-09 |
| LRRFIP1 | -1,62866 | 8,77E-12 |
| PAQR3 | -1,62926 | 0,000109 |
| MALT1 | -1,63131 | 1,14E-07 |
| LRRC14 | -1,6314 | 2,62E-08 |
| ADCY3 | -1,63469 | 8,07E-09 |
| TMEM51 | -1,6353 | 1,04E-07 |
| SPRED2 | -1,63745 | 1,66E-10 |
| PITPNM2 | -1,64008 | 0,000155 |
| SWAP70 | -1,64072 | 5,23E-07 |
| C16orf70 | -1,64128 | 2,88E-06 |
| CAPRIN2 | -1,6442 | 0,000416 |
| AKAP17A | -1,64539 | 5,64E-06 |
| HSPA13 | -1,64559 | 0,000327 |
| SKI | -1,64811 | 2,52E-10 |
| NFKBIE | -1,64905 | 4,88E-07 |
| CRELD1 | -1,6496 | 0,000314 |
| LGALS1 | -1,65117 | 7,89E-07 |
| PINK1-AS | -1,65232 | 0,000134 |
| B4GALT6 | -1,65243 | 0,000452 |
| RELT | -1,65442 | 1,62E-05 |
| ZSCAN12P1 | -1,65604 | 1,54E-05 |
| ETHE1 | -1,65872 | 8,79E-05 |
| TLN2 | -1,65892 | 7,12E-05 |
| PHF19 | -1,66372 | 2,62E-10 |
| SLC9A7 | -1,66648 | 0,0003 |
| EPHA10 | -1,6665 | 0,000906 |
| MT2A | -1,66714 | 6,26E-09 |
| DFFB | -1,66894 | 0,000809 |
| SUZ12 | -1,67063 | 1,93E-12 |
| CSPP1 | -1,6707 | 2,31E-06 |
| TMCO3 | -1,67087 | 1,80E-05 |
| JAG2 | -1,67118 | 5,93E-07 |
| PNKD | -1,67125 | 4,55E-08 |
| PNPLA6 | -1,67435 | 0,000171 |
| MTMR10 | -1,67464 | 7,21E-06 |
| RUSC2 | -1,67474 | 0,000819 |
| TYW3 | -1,67588 | 5,00E-08 |
| MIER1 | -1,68038 | 6,12E-10 |
| PARP10 | -1,68134 | 0,000549 |
| LPIN1 | -1,6827 | 0,000332 |
| BICD1 | -1,68859 | 2,39E-05 |
| FAR1 | -1,68911 | 5,37E-11 |
| EHD4 | -1,68912 | 6,66E-08 |
| CD46 | -1,68925 | 7,51E-09 |
| MYO10 | -1,68949 | 2,05E-09 |
| WDR76 | -1,68988 | 9,73E-07 |
| MAN1A1 | -1,69125 | 6,16E-08 |

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| OGT | -1,6922 | 1,15E-05 |
| GNL3 | -1,69465 | 2,82E-07 |
| INF2 | -1,69789 | 8,65E-10 |
| ABCB7 | -1,70262 | 1,11E-06 |
| IGFBP4 | -1,70808 | 3,42E-05 |
| ARHGAP29 | -1,71072 | 4,01E-05 |
| CD59 | -1,71208 | 1,27E-05 |
| HEATR1 | -1,7178 | 9,64E-10 |
| MARC2 | -1,71969 | 0,000155 |
| AMIGO3 | -1,72227 | 0,000254 |
| TMEM63A | -1,72787 | 3,29E-07 |
| SLC16A1 | -1,72846 | 4,01E-11 |
| CALCOCO2 | -1,73219 | 0,000894 |
| OSBPL5 | -1,73238 | 1,58E-06 |
| CROCCP2 | -1,73267 | 0,000564 |
| NMI | -1,73368 | 0,000427 |
| ING5 | -1,73396 | 4,31E-05 |
| TAP2 | -1,73418 | 3,08E-07 |
| DENND5A | -1,7352 | 1,28E-06 |
| SAMD8 | -1,73674 | 2,08E-08 |
| CAMK1D | -1,73697 | 1,08E-05 |
| SLC12A2 | -1,74052 | 1,83E-12 |
| SRXN1 | -1,74355 | 0,000225 |
| C10orf12 | -1,74458 | 8,90E-07 |
| KDM4C | -1,74797 | 3,59E-08 |
| KLHL21 | -1,74834 | 9,80E-10 |
| AHI1 | -1,7507 | 2,56E-05 |
| MZF1 | -1,7522 | 1,56E-05 |
| RDH10 | -1,75366 | 9,01E-05 |
| ZDHHC23 | -1,75571 | 2,18E-05 |
| KSR2 | -1,75635 | 7,91E-05 |
| GLB1L2 | -1,75793 | 1,97E-08 |
| FAM8A1 | -1,75834 | 7,24E-09 |
| PRSS22 | -1,75941 | 0,000406 |
| POLR3G | -1,75989 | 0,00071 |
| ARNT2 | -1,76192 | 9,37E-06 |
| NAB1 | -1,76381 | 8,76E-07 |
| RNF170 | -1,76554 | 1,22E-05 |
| RAB11FIP1 | -1,76652 | 1,80E-11 |
| MICAL1 | -1,76767 | 0,000265 |
| FNDC3A | -1,76805 | 3,36E-12 |
| PTER | -1,77503 | 9,32E-07 |
| TMEM41B | -1,77804 | 1,09E-07 |
| TRPM2 | -1,78221 | 5,07E-08 |
| ST5 | -1,78602 | 5,67E-05 |
| BIK | -1,78635 | 0,000475 |
| ENPP4 | -1,78846 | 8,89E-06 |
| SDCBP | -1,79257 | 2,69E-05 |
| CASP3 | -1,79358 | 4,18E-06 |
| PODXL | -1,80007 | 6,17E-10 |

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| GANC | -1,80053 | 9,62E-05 |
| SLC25A25 | -1,80414 | 7,35E-05 |
| BTN2A1 | -1,80523 | 0,000302 |
| HOXB7 | -1,80736 | 8,62E-06 |
| FHL3 | -1,81084 | 8,21E-08 |
| SNX30 | -1,81252 | 1,85E-07 |
| SLC41A2 | -1,81303 | 6,11E-07 |
| MFSD12 | -1,81425 | 7,01E-09 |
| TXNRD1 | -1,81757 | 7,15E-07 |
| NHSL1 | -1,81934 | 0,000492 |
| ZAK | -1,82216 | 2,19E-11 |
| FUT11 | -1,82291 | 0,000327 |
| CDCA7 | -1,83032 | 8,79E-05 |
| TOX2 | -1,83044 | 7,66E-05 |
| PSIP1 | -1,83113 | 2,51E-06 |
| RAVER2 | -1,83359 | 7,90E-07 |
| ZIC2 | -1,83802 | 3,46E-05 |
| PARP8 | -1,83895 | 0,000226 |
| OSBP2 | -1,83976 | 1,76E-08 |
| RRAGD | -1,84433 | 3,47E-05 |
| SDE2 | -1,8458 | 3,84E-05 |
| PARP12 | -1,8473 | 0,000186 |
| SLC18B1 | -1,84755 | 2,61E-07 |
| SEMA4F | -1,84767 | 0,000857 |
| DNAJC3 | -1,84841 | 6,21E-08 |
| UBALD2 | -1,85041 | 0,000818 |
| PTRF | -1,85236 | 4,30E-11 |
| NOL9 | -1,85263 | 2,24E-07 |
| FNTA | -1,85479 | 1,09E-11 |
| PPARGC1B | -1,85501 | 1,70E-05 |
| YAP1 | -1,85507 | 4,29E-12 |
| SCMH1 | -1,8588 | 0,000421 |
| UGGT2 | -1,8596 | 4,63E-07 |
| FKBP14 | -1,86041 | 4,54E-06 |
| FBXO41 | -1,86203 | 2,52E-10 |
| FGFRL1 | -1,86259 | 6,86E-15 |
| SETDB2 | -1,86534 | 5,94E-05 |
| LIN7C | -1,86784 | 2,69E-08 |
| CCNO | -1,86849 | 0,000336 |
| DOK3 | -1,87049 | 1,02E-05 |
| DEGS1 | -1,8712 | 4,26E-08 |
| HK2 | -1,87557 | 4,00E-06 |
| TNFRSF10A | -1,87828 | 3,44E-06 |
| DENND4C | -1,88039 | 8,58E-12 |
| PDP2 | -1,88087 | 2,99E-07 |
| STARD4 | -1,8857 | 1,20E-07 |
| MICAL2 | -1,88587 | 2,47E-07 |
| CASC4 | -1,88768 | 1,31E-13 |
| ADCK3 | -1,88811 | 7,63E-07 |
| PERP | -1,88849 | 1,63E-07 |

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| LGALS8 | -1,88862 | 6,84E-08 |
| SDCCAG8 | -1,88981 | 1,46E-06 |
| ZNF462 | -1,89238 | 1,06E-08 |
| FABP5 | -1,89292 | 6,62E-07 |
| GPR137B | -1,89409 | 6,92E-06 |
| EOGT | -1,89673 | 7,13E-05 |
| ELL2 | -1,89703 | 4,86E-06 |
| EIF2AK4 | -1,90306 | 7,27E-10 |
| IRF1 | -1,90394 | 1,47E-05 |
| DCP1A | -1,90524 | 3,48E-08 |
| SLC5A3 | -1,90886 | 2,01E-11 |
| RPH3AL | -1,90995 | 9,23E-06 |
| RABGGTB | -1,91079 | 1,81E-12 |
| CBARP | -1,9144 | 1,81E-05 |
| SLC12A8 | -1,91897 | 1,89E-06 |
| ALDH1B1 | -1,92259 | 1,24E-13 |
| ABHD3 | -1,92895 | 3,99E-07 |
| TCIRG1 | -1,93014 | 3,83E-10 |
| SIM2 | -1,93472 | 1,02E-05 |
| TGFA | -1,9383 | 2,75E-05 |
| STXBP1 | -1,93976 | 4,37E-11 |
| MAFG | -1,94174 | 5,36E-10 |
| SH2D4A | -1,94292 | 6,16E-12 |
| HSPA12A | -1,94604 | 1,00E-05 |
| TUBGCP6 | -1,94614 | 5,57E-08 |
| SHROOM1 | -1,94699 | 9,56E-09 |
| KLF3 | -1,94761 | 9,72E-08 |
| C15orf41 | -1,95844 | 0,000235 |
| MAPK8IP3 | -1,96135 | 0,000768 |
| SQRDL | -1,96165 | 0,000323 |
| CCDC113 | -1,96389 | 3,89E-08 |
| EXTL2 | -1,96503 | 1,87E-06 |
| SNX9 | -1,96509 | 1,87E-12 |
| NCAPD3 | -1,9655 | 2,63E-10 |
| CBLC | -1,966 | 3,79E-06 |
| CAMK1 | -1,96648 | 2,26E-05 |
| XRRA1 | -1,96722 | 1,87E-09 |
| APBA3 | -1,96768 | 3,52E-10 |
| FARP2 | -1,96799 | 3,65E-07 |
| PHKA1 | -1,96849 | 4,18E-08 |
| CLTCL1 | -1,97156 | 9,59E-05 |
| SOCS2 | -1,97185 | 0,000563 |
| SMC5 | -1,97293 | 2,15E-12 |
| PIM2 | -1,97365 | 2,80E-08 |
| ELK3 | -1,97376 | 0,000316 |
| TPP2 | -1,97498 | 1,93E-10 |
| ATP11A | -1,97693 | 1,37E-10 |
| APOBEC3F | -1,97881 | 0,000295 |
| UGDH | -1,98116 | 1,11E-06 |
| MFSD2A | -1,98248 | 3,25E-10 |

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| ZNF319 | -1,98401 | 0,000638 |
| OBSCN | -1,98473 | 3,55E-05 |
| IFFO2 | -1,98538 | 1,36E-05 |
| POMK | -1,98688 | 6,47E-05 |
| PTCH1 | -1,98697 | 7,25E-06 |
| SERPINB1 | -1,98713 | 4,30E-09 |
| LRP8 | -1,98771 | 1,50E-07 |
| ENDOD1 | -1,9892 | 5,82E-13 |
| VCL | -1,99353 | 1,05E-07 |
| B4GALT5 | -1,99658 | 1,60E-14 |
| TXLNA | -2,00077 | 9,06E-13 |
| PATL1 | -2,00089 | 3,99E-14 |
| ANO9 | -2,00171 | 1,70E-06 |
| SOCS6 | -2,00205 | 2,23E-11 |
| TFR2 | -2,00549 | 6,98E-05 |
| NEDD4L | -2,00839 | 8,00E-10 |
| SATB2 | -2,01806 | 2,13E-11 |
| SERINC2 | -2,01866 | 2,60E-07 |
| EIF4A2 | -2,02365 | 1,65E-07 |
| ADCY7 | -2,02437 | 1,19E-08 |
| TIMP2 | -2,02544 | 1,88E-09 |
| TGDS | -2,02626 | 0,000136 |
| MFGE8 | -2,02635 | 1,11E-09 |
| ST6GALNA4 | -2,02664 | 4,50E-10 |
| KPNA5 | -2,02726 | 0,000316 |
| LINC00641 | -2,02816 | 0,000199 |
| ZNF57 | -2,02941 | 4,19E-07 |
| DOCK1 | -2,02963 | 6,64E-10 |
| MYO1E | -2,03357 | 1,60E-05 |
| ICA1L | -2,03412 | 0,000135 |
| CAMKK1 | -2,03883 | 3,33E-06 |
| ADRBK2 | -2,04007 | 1,45E-13 |
| FLVCR1 | -2,04705 | 1,37E-08 |
| OXCT1 | -2,04927 | 3,95E-12 |
| LPCAT2 | -2,05493 | 2,59E-06 |
| MAPKBP1 | -2,05686 | 1,11E-06 |
| RNPEPL1 | -2,05722 | 1,50E-12 |
| ECHDC1 | -2,05887 | 8,93E-11 |
| CSRNP1 | -2,06135 | 6,69E-08 |
| INPP5J | -2,06397 | 6,67E-05 |
| TMX3 | -2,0655 | 8,04E-11 |
| SPIN4 | -2,07781 | 1,04E-06 |
| GAS6 | -2,07809 | 4,53E-09 |
| MOB3C | -2,08185 | 0,000461 |
| GJA3 | -2,08458 | 2,42E-09 |
| TP73 | -2,08858 | 0,000321 |
| RPS6KA2 | -2,08977 | 0,000764 |
| LTN1 | -2,09048 | 3,95E-08 |
| LPIN2 | -2,09317 | 9,38E-12 |
| BACH1 | -2,09682 | 6,21E-11 |

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| EPDR1 | -2,09963 | 3,14E-08 |
| GATA6 | -2,10082 | 1,06E-06 |
| SH3BGRL2 | -2,10474 | 3,41E-05 |
| SMCO4 | -2,1076 | 0,00068 |
| PMAIP1 | -2,10797 | 0,000106 |
| EPHX1 | -2,11047 | 3,79E-10 |
| GPR180 | -2,11047 | 1,71E-10 |
| STK17B | -2,11562 | 1,24E-10 |
| CAV2 | -2,11975 | 7,75E-06 |
| GFPT1 | -2,12101 | 1,08E-06 |
| CARNMT1 | -2,12299 | 5,52E-07 |
| CDKL1 | -2,12388 | 0,000254 |
| KLF9 | -2,13118 | 0,000177 |
| ITGA2 | -2,13166 | 1,41E-08 |
| PSAT1 | -2,1337 | 2,26E-05 |
| ZMYM6NB | -2,13439 | 5,24E-05 |
| CDC42BPA | -2,13712 | 9,01E-09 |
| SNHG3 | -2,13846 | 2,00E-09 |
| PAK1 | -2,14182 | 1,97E-08 |
| EFHD2 | -2,14375 | 3,14E-14 |
| TNS3 | -2,14578 | 1,42E-08 |
| HSD17B6 | -2,14699 | 0,000402 |
| SEL1L3 | -2,15059 | 1,16E-12 |
| PANK4 | -2,15332 | 6,10E-12 |
| SLC25A37 | -2,15529 | 1,49E-09 |
| SLC30A7 | -2,16006 | 4,99E-12 |
| ASIC1 | -2,16053 | 3,90E-05 |
| PDDC1 | -2,16718 | 1,26E-13 |
| SLC25A12 | -2,16763 | 6,64E-08 |
| C4orf32 | -2,17408 | 3,65E-07 |
| LDLRAP1 | -2,17505 | 1,06E-07 |
| EVI5 | -2,17531 | 2,78E-08 |
| CPD | -2,17749 | 2,51E-18 |
| PPARA | -2,17949 | 5,85E-09 |
| LOC90768 | -2,18088 | 2,43E-05 |
| PTPN14 | -2,18113 | 2,75E-14 |
| RPS6KA5 | -2,18596 | 5,73E-08 |
| FAM89A | -2,18733 | 0,000623 |
| HERPUD1 | -2,18739 | 0,00049 |
| DGKD | -2,19175 | 3,60E-14 |
| KLHL15 | -2,19404 | 9,12E-08 |
| SORL1 | -2,19908 | 1,95E-13 |
| MACC1 | -2,20028 | 0,000233 |
| KCNQ4 | -2,2007 | 0,000982 |
| GRB10 | -2,20273 | 0,000822 |
| DIXDC1 | -2,20464 | 3,18E-06 |
| PRTFDC1 | -2,20524 | 1,15E-07 |
| CHM | -2,20803 | 7,92E-06 |
| CCDC82 | -2,21088 | 3,78E-05 |
| HYI | -2,21899 | 1,42E-05 |

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| TIAM1 | -2,2227 | 9,65E-09 |
| SORBS1 | -2,22431 | 5,09E-07 |
| HSD17B12 | -2,22452 | 6,63E-20 |
| TTBK2 | -2,22531 | 2,11E-05 |
| SBF2 | -2,22742 | 4,25E-06 |
| PLEK2 | -2,23215 | 5,77E-08 |
| DUSP7 | -2,23644 | 4,36E-05 |
| GHDC | -2,23753 | 1,31E-09 |
| FYN | -2,24886 | 3,26E-05 |
| RIN3 | -2,24894 | 1,23E-07 |
| CAPN10 | -2,25213 | 1,65E-08 |
| SAMHD1 | -2,25383 | 7,51E-06 |
| SLC35G1 | -2,25477 | 0,00021 |
| FAF1 | -2,25649 | 4,92E-09 |
| ABCB10 | -2,25891 | 4,35E-09 |
| SH2D3A | -2,26073 | 1,15E-08 |
| CTH | -2,26097 | 1,23E-05 |
| ATAD5 | -2,26456 | 2,03E-07 |
| SOD2 | -2,26528 | 1,13E-12 |
| FAM92A1 | -2,26532 | 6,99E-05 |
| PTPRG | -2,26543 | 3,14E-15 |
| KCTD17 | -2,26572 | 2,57E-07 |
| GATA2 | -2,2686 | 1,07E-05 |
| BCL2L2 | -2,27085 | 2,39E-12 |
| ABCC4 | -2,27281 | 7,33E-13 |
| CARD10 | -2,27441 | 6,77E-10 |
| CXCL16 | -2,27927 | 3,06E-16 |
| SNAI1 | -2,28002 | 7,51E-05 |
| CORO1A | -2,28066 | 1,12E-05 |
| NUPL2 | -2,28253 | 1,84E-05 |
| BMP8B | -2,28714 | 7,99E-07 |
| DAGLA | -2,28765 | 1,11E-06 |
| ITGA3 | -2,29112 | 1,00E-20 |
| IFNGR2 | -2,29663 | 7,02E-12 |
| OAT | -2,2987 | 1,14E-06 |
| SFXN3 | -2,30222 | 1,50E-07 |
| KLHL17 | -2,30256 | 8,64E-06 |
| HOOK1 | -2,30447 | 2,37E-18 |
| DUSP2 | -2,30859 | 1,06E-06 |
| ADGRG6 | -2,31599 | 5,32E-15 |
| DGKE | -2,31772 | 4,39E-11 |
| ANKMY2 | -2,32385 | 4,69E-12 |
| RAB20 | -2,3259 | 4,55E-05 |
| SLC43A1 | -2,32594 | 5,79E-05 |
| MXRA7 | -2,32785 | 7,57E-10 |
| RCBTB1 | -2,33039 | 6,15E-16 |
| CDK6 | -2,3347 | 3,91E-05 |
| FAM160A1 | -2,33951 | 2,88E-07 |
| MRC2 | -2,34043 | 0,000258 |
| IFNGR1 | -2,3445 | 1,48E-09 |

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| SPRY1 | -2,34492 | 0,00053 |
| DCBLD1 | -2,35436 | 4,09E-10 |
| GALT | -2,3612 | 0,000396 |
| SNX25 | -2,36325 | 7,66E-12 |
| SMIM3 | -2,36874 | 4,63E-12 |
| ZFP36 | -2,369 | 3,62E-09 |
| BRWD3 | -2,36931 | 2,73E-07 |
| POU6F1 | -2,36943 | 0,00014 |
| CDPF1 | -2,37138 | 1,89E-07 |
| RASSF3 | -2,37473 | 9,23E-13 |
| DOCK5 | -2,38088 | 7,54E-15 |
| SSFA2 | -2,39261 | 9,80E-17 |
| IL27RA | -2,40028 | 7,09E-16 |
| SCCPDH | -2,403 | 5,64E-15 |
| KIF13B | -2,40374 | 4,90E-06 |
| ME2 | -2,40414 | 5,44E-17 |
| SH3BP4 | -2,40591 | 3,70E-18 |
| TUBB2A | -2,4063 | 4,75E-07 |
| TBC1D8B | -2,41703 | 0,000304 |
| SLC16A14 | -2,4194 | 7,21E-08 |
| LCA5 | -2,42774 | 9,41E-05 |
| GPAT3 | -2,43031 | 3,45E-06 |
| GLS | -2,43293 | 6,18E-20 |
| WWC2 | -2,43578 | 1,23E-18 |
| ITPKA | -2,4373 | 1,17E-06 |
| FURIN | -2,43915 | 3,84E-15 |
| DDAH1 | -2,44468 | 1,62E-09 |
| IL6ST | -2,445 | 6,06E-20 |
| TNFRSF10B | -2,44568 | 8,21E-08 |
| ESAM | -2,44629 | 0,000129 |
| RAPGEFL1 | -2,44815 | 7,79E-07 |
| BTG3 | -2,44883 | 2,15E-07 |
| TUBE1 | -2,44947 | 3,32E-06 |
| SPNS2 | -2,44999 | 0,000162 |
| TUBA8 | -2,45068 | 6,00E-06 |
| RASGRP1 | -2,45978 | 0,000334 |
| TRMT11 | -2,46015 | 3,62E-06 |
| PTGR1 | -2,46358 | 4,19E-09 |
| LIX1L | -2,46457 | 0,000465 |
| SHROOM2 | -2,46898 | 7,10E-10 |
| FUT1 | -2,47071 | 0,000171 |
| KLHL29 | -2,47291 | 4,50E-06 |
| ADCY9 | -2,4779 | 1,15E-13 |
| NCOA7 | -2,47867 | 2,62E-10 |
| METTTL7B | -2,47926 | 6,01E-09 |
| SLC1A3 | -2,48221 | 8,35E-05 |
| SLC8B1 | -2,48358 | 2,39E-12 |
| GSDMD | -2,48867 | 1,37E-06 |
| TNRC6C-AS | -2,49004 | 0,000358 |
| HLA-C | -2,49288 | 6,60E-06 |

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| ADAM9 | -2,49602 | 7,93E-27 |
| NKX3-1 | -2,49694 | 4,16E-08 |
| LBX2-AS1 | -2,5025 | 0,000316 |
| PLEKHG1 | -2,50708 | 0,000783 |
| ACSL4 | -2,50783 | 4,54E-14 |
| KBTBD11 | -2,50783 | 2,87E-07 |
| HPSE | -2,51161 | 9,18E-07 |
| UNC13D | -2,51212 | 0,000246 |
| PRNP | -2,51245 | 3,36E-11 |
| SNORA73A | -2,51625 | 0,000397 |
| APOBEC3B | -2,518 | 9,23E-13 |
| CPOX | -2,52658 | 8,38E-08 |
| ARAP2 | -2,53172 | 2,33E-11 |
| SLCO4A1 | -2,53193 | 1,77E-10 |
| MAMDC4 | -2,53587 | 0,000318 |
| HLA-F | -2,53955 | 4,99E-05 |
| DIAPH2 | -2,53985 | 1,14E-14 |
| MICB | -2,54665 | 2,35E-07 |
| ADAP2 | -2,54869 | 1,51E-06 |
| SERPINB8 | -2,55944 | 5,51E-05 |
| CHIC1 | -2,56434 | 9,33E-07 |
| FOXD1 | -2,57167 | 0,000325 |
| HSD17B1 | -2,57774 | 2,95E-10 |
| CAMK2D | -2,57982 | 4,45E-13 |
| KIAA1804 | -2,58011 | 7,44E-09 |
| LBR | -2,58012 | 5,65E-17 |
| RTN4RL2 | -2,58313 | 0,000913 |
| SLC52A3 | -2,58445 | 1,25E-05 |
| SLC39A14 | -2,58486 | 1,12E-09 |
| KCNK5 | -2,58536 | 2,66E-06 |
| DCBLD2 | -2,5872 | 1,48E-07 |
| GPC1 | -2,59115 | 9,26E-22 |
| NIPAL3 | -2,59295 | 7,80E-11 |
| VPS13C | -2,60397 | 4,68E-17 |
| ZBTB47 | -2,60437 | 0,000351 |
| MCF2L | -2,60447 | 8,53E-10 |
| MCF2L-AS1 | -2,60522 | 0,000454 |
| PRPS2 | -2,60582 | 1,69E-19 |
| GK | -2,60889 | 1,05E-09 |
| CIRBP-AS1 | -2,61801 | 0,000406 |
| ADGRE5 | -2,62016 | 9,68E-12 |
| MYB | -2,63801 | 2,50E-10 |
| IFIT5 | -2,63849 | 1,73E-08 |
| PAQR5 | -2,64026 | 7,78E-17 |
| MTCL1 | -2,64044 | 1,19E-08 |
| CYP27B1 | -2,64878 | 0,00054 |
| MLXIPL | -2,65227 | 0,00019 |
| REEP2 | -2,65397 | 2,25E-09 |
| NFKBIA | -2,66128 | 2,49E-14 |
| AIM1L | -2,66692 | 0,000105 |

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| GNPDA2 | -2,66966 | 1,30E-08 |
| ZNF589 | -2,67172 | 6,60E-15 |
| SGMS2 | -2,67581 | 4,89E-09 |
| IFNLR1 | -2,6764 | 3,37E-09 |
| RTTN | -2,68151 | 1,90E-10 |
| CCDC3 | -2,68749 | 1,19E-06 |
| ABHD6 | -2,68842 | 2,36E-09 |
| COCH | -2,69262 | 9,09E-07 |
| MX1 | -2,69422 | 7,40E-06 |
| ACOT11 | -2,69824 | 0,000254 |
| LRRC75A | -2,70716 | 3,82E-05 |
| HDAC4 | -2,71021 | 3,33E-05 |
| TK2 | -2,71341 | 2,05E-09 |
| CNTLN | -2,71473 | 8,47E-11 |
| GJB2 | -2,71995 | 1,60E-14 |
| LOC284023 | -2,72979 | 1,70E-06 |
| ATP8A1 | -2,73419 | 5,00E-07 |
| SCNN1A | -2,73479 | 0,00014 |
| SOWAHC | -2,7375 | 8,25E-12 |
| OPTN | -2,73816 | 1,60E-06 |
| HBEGF | -2,74703 | 0,000175 |
| FHOD3 | -2,75206 | 0,000673 |
| SLC25A22 | -2,75922 | 1,05E-17 |
| SEMA3B | -2,76265 | 1,05E-09 |
| PM20D2 | -2,77115 | 4,65E-15 |
| FOXO1 | -2,77709 | 1,89E-07 |
| TAPBPL | -2,77882 | 0,000186 |
| RAB11FIP5 | -2,78445 | 1,19E-08 |
| NFKBID | -2,79229 | 0,000137 |
| ITPRIPL2 | -2,79484 | 6,20E-26 |
| C1orf106 | -2,79535 | 2,88E-11 |
| SGTB | -2,79858 | 2,41E-10 |
| PLCXD1 | -2,79953 | 5,55E-12 |
| FRAS1 | -2,8084 | 1,85E-28 |
| RAPGEF5 | -2,82033 | 9,32E-09 |
| PRRG4 | -2,82049 | 2,80E-08 |
| CENPV | -2,82147 | 3,19E-09 |
| SPRY2 | -2,83317 | 1,97E-09 |
| ARPIN | -2,83718 | 6,19E-10 |
| SNX10 | -2,83828 | 4,95E-14 |
| SUSD1 | -2,8423 | 4,06E-15 |
| TRAF5 | -2,84581 | 1,47E-17 |
| HOOK3 | -2,84585 | 1,79E-20 |
| DNMBP | -2,84869 | 2,68E-17 |
| C11orf54 | -2,858 | 1,38E-14 |
| TMEM56 | -2,859 | 6,17E-14 |
| CD27-AS1 | -2,86318 | 0,000674 |
| NDRG1 | -2,86498 | 2,99E-12 |
| NMNAT3 | -2,87135 | 6,50E-06 |
| KBTBD8 | -2,87302 | 2,31E-05 |

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| MOCOS | -2,87379 | 1,35E-10 |
| NUAK2 | -2,87514 | 2,83E-11 |
| ECE1 | -2,87558 | 3,78E-25 |
| CHST3 | -2,87728 | 5,33E-05 |
| KLF12 | -2,8832 | 2,18E-13 |
| GOLM1 | -2,88622 | 4,84E-30 |
| ZC3H12A | -2,89681 | 6,16E-13 |
| PHLDA2 | -2,9009 | 2,12E-09 |
| DUSP28 | -2,90127 | 0,000711 |
| ANK2 | -2,92312 | 0,000164 |
| TGFBR3 | -2,92655 | 7,77E-05 |
| FERMT1 | -2,92751 | 5,43E-24 |
| SLC16A9 | -2,93583 | 2,40E-14 |
| NFKB1 | -2,93841 | 4,93E-16 |
| CRIM1 | -2,94964 | 5,18E-12 |
| DNHD1 | -2,95237 | 1,77E-05 |
| DSE | -2,95707 | 4,27E-09 |
| WBSCR27 | -2,96198 | 8,20E-06 |
| INSR | -2,97487 | 9,52E-19 |
| RAMP1 | -2,97538 | 9,24E-10 |
| TRIP10 | -2,97855 | 7,41E-16 |
| PLIN4 | -2,99543 | 0,000273 |
| ADGRF4 | -2,99625 | 0,000495 |
| LGALS3BP | -2,9996 | 2,24E-06 |
| CRACR2A | -3,00054 | 4,45E-05 |
| CDC42EP3 | -3,00092 | 6,65E-19 |
| HHEX | -3,00454 | 3,64E-06 |
| ATF7IP2 | -3,01029 | 8,79E-05 |
| ZNF264 | -3,02699 | 1,65E-09 |
| OAF | -3,03024 | 1,16E-13 |
| MMP24 | -3,03267 | 9,94E-05 |
| LIPH | -3,03669 | 1,84E-05 |
| ALDH3B1 | -3,05807 | 1,74E-06 |
| TBC1D4 | -3,06411 | 1,20E-11 |
| MORC4 | -3,06665 | 1,31E-36 |
| PROCR | -3,0723 | 0,000126 |
| FXYD5 | -3,07312 | 6,42E-27 |
| C19orf66 | -3,07955 | 1,48E-06 |
| ATHL1 | -3,0809 | 1,28E-09 |
| CD83 | -3,08332 | 1,17E-10 |
| GLS2 | -3,09017 | 5,17E-28 |
| STEAP1 | -3,09439 | 1,31E-05 |
| NFAT5 | -3,09756 | 1,09E-20 |
| LYST | -3,10057 | 1,94E-10 |
| FAM169A | -3,11048 | 8,84E-10 |
| FNIP2 | -3,1165 | 2,00E-08 |
| ITGA5 | -3,11731 | 6,75E-18 |
| SLC17A5 | -3,11816 | 2,31E-16 |
| PLEKHA2 | -3,12516 | 1,37E-16 |
| FAM63B | -3,13138 | 1,41E-11 |

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| IGF2BP2 | -3,13908 | 5,26E-21 |
| HSH2D | -3,14921 | 9,86E-06 |
| F2RL1 | -3,14979 | 2,08E-18 |
| NFKB2 | -3,15197 | 1,31E-32 |
| PLAGL1 | -3,18716 | 8,27E-18 |
| PMP22 | -3,20023 | 2,01E-07 |
| ADM | -3,21282 | 0,000602 |
| RHEBL1 | -3,21288 | 2,73E-05 |
| FAM171A1 | -3,22029 | 2,03E-20 |
| ATP2A1 | -3,22257 | 0,000617 |
| TIMP1 | -3,22288 | 9,44E-09 |
| PGM1 | -3,22685 | 7,20E-22 |
| XK | -3,22715 | 2,69E-18 |
| SLC9A5 | -3,22719 | 7,01E-05 |
| IRF5 | -3,24035 | 8,84E-17 |
| IL18 | -3,25941 | 0,000154 |
| HERC5 | -3,27179 | 0,0005 |
| IL15RA | -3,29544 | 4,92E-13 |
| CBX7 | -3,29778 | 2,25E-07 |
| EHF | -3,29991 | 1,22E-15 |
| HPGD | -3,3043 | 0,000968 |
| GULP1 | -3,30507 | 3,19E-14 |
| TAGLN | -3,3057 | 3,66E-06 |
| BMP4 | -3,30753 | 4,84E-18 |
| PLK3 | -3,31056 | 1,47E-12 |
| VWDE | -3,31341 | 1,62E-06 |
| ADAP1 | -3,32313 | 4,92E-24 |
| HNRNPU-A | -3,32897 | 1,37E-08 |
| PLBD1 | -3,33387 | 8,59E-17 |
| CLIP2 | -3,33892 | 3,21E-38 |
| TRAF1 | -3,34324 | 1,18E-07 |
| APC2 | -3,34343 | 6,15E-08 |
| MAPRE2 | -3,34568 | 6,92E-17 |
| HSD17B11 | -3,35045 | 1,65E-13 |
| SNX7 | -3,35258 | 1,31E-13 |
| ANXA1 | -3,35367 | 1,80E-11 |
| RILPL2 | -3,35943 | 1,95E-10 |
| CCDC68 | -3,35951 | 4,76E-05 |
| ACO1 | -3,36008 | 4,67E-21 |
| ALOXE3 | -3,37134 | 1,09E-13 |
| SLC12A4 | -3,37478 | 9,32E-08 |
| TFCP2L1 | -3,37772 | 0,000322 |
| PARM1 | -3,38181 | 2,04E-08 |
| FAHD2B | -3,3833 | 1,16E-14 |
| ADORA2B | -3,39249 | 2,43E-15 |
| B3GNT9 | -3,39573 | 8,77E-06 |
| FAM149A | -3,40064 | 0,000948 |
| RBMS2 | -3,40324 | 3,49E-20 |
| LGALS3 | -3,41367 | 3,94E-19 |
| TMEM51-A | -3,41378 | 0,000446 |

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| CNTD2 | -3,41483 | 7,66E-05 |
| SASH1 | -3,42686 | 4,41E-13 |
| BCL2L15 | -3,42965 | 2,34E-06 |
| CCDC69 | -3,43733 | 8,99E-12 |
| FAM135A | -3,45014 | 4,66E-21 |
| PDE2A | -3,45442 | 0,000175 |
| WNT5B | -3,45532 | 8,06E-08 |
| ZNF814 | -3,47568 | 3,23E-08 |
| SERAC1 | -3,49262 | 2,38E-21 |
| ARNTL2 | -3,49858 | 2,48E-24 |
| SLC22A15 | -3,50259 | 1,07E-05 |
| TSPAN1 | -3,51577 | 3,54E-06 |
| ASPH | -3,51648 | 2,42E-23 |
| TMEM221 | -3,52256 | 0,000154 |
| UPP1 | -3,52501 | 3,16E-08 |
| GPR63 | -3,53582 | 1,15E-10 |
| SDC4 | -3,53921 | 4,77E-15 |
| FN3K | -3,55129 | 5,85E-10 |
| SRPX | -3,55196 | 2,41E-07 |
| RPS6KA6 | -3,5536 | 2,24E-09 |
| ULBP3 | -3,55976 | 4,09E-07 |
| LRRC8C | -3,56105 | 3,26E-15 |
| FBXO2 | -3,56567 | 2,22E-13 |
| IER3 | -3,57213 | 2,61E-16 |
| SP100 | -3,57286 | 2,59E-05 |
| DPY19L2P2 | -3,57774 | 2,17E-07 |
| SLC30A4 | -3,58284 | 0,000177 |
| C16orf62 | -3,58832 | 5,11E-31 |
| DDN | -3,6028 | 4,33E-06 |
| IZUMO1 | -3,62035 | 1,18E-12 |
| KLK1 | -3,62895 | 0,000304 |
| ALDH3A1 | -3,63151 | 1,63E-06 |
| SCNN1D | -3,63319 | 4,12E-09 |
| MCIDAS | -3,6497 | 3,54E-06 |
| C3 | -3,66677 | 0,000474 |
| CHRNA1 | -3,66762 | 2,05E-12 |
| NAPRT | -3,67062 | 5,34E-24 |
| C9orf72 | -3,68903 | 1,54E-06 |
| SLC16A2 | -3,70363 | 9,58E-09 |
| HOXA11 | -3,71052 | 1,26E-07 |
| ANXA3 | -3,71222 | 1,16E-20 |
| PLCE1 | -3,71761 | 5,38E-05 |
| TYW1B | -3,72304 | 3,57E-08 |
| ATAD3B | -3,72631 | 2,40E-17 |
| SPATA3-AS | -3,72823 | 5,49E-05 |
| ITGA6 | -3,75076 | 6,42E-27 |
| PSMB9 | -3,76306 | 1,24E-07 |
| HERC2P3 | -3,77126 | 1,11E-06 |
| ZNF702P | -3,77318 | 2,05E-11 |
| JAG1 | -3,77797 | 1,52E-40 |

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| WLS | -3,78813 | 8,44E-27 |
| STARD9 | -3,79887 | 6,99E-09 |
| LIMCH1 | -3,79925 | 2,10E-11 |
| CPVL | -3,80077 | 2,05E-07 |
| BHLHA15 | -3,80353 | 3,52E-08 |
| ERRFI1 | -3,81226 | 1,16E-12 |
| FUT4 | -3,81387 | 5,05E-19 |
| IL4R | -3,81622 | 3,15E-21 |
| HLA-B | -3,83615 | 1,91E-12 |
| CEACAM19 | -3,8399 | 8,91E-10 |
| RELB | -3,84976 | 3,62E-20 |
| RASGRF2 | -3,85115 | 2,36E-05 |
| RNF207 | -3,85203 | 1,19E-11 |
| PXK | -3,8564 | 2,26E-10 |
| DPYSL3 | -3,85694 | 3,20E-15 |
| FRMD5 | -3,85803 | 9,43E-23 |
| FAM124A | -3,86999 | 9,67E-05 |
| MAP3K8 | -3,87189 | 1,33E-12 |
| ST3GAL2 | -3,87221 | 1,12E-15 |
| NYAP1 | -3,8749 | 1,01E-06 |
| LINC01315 | -3,89466 | 5,21E-06 |
| TRPV1 | -3,90082 | 7,73E-10 |
| ST6GALNA4 | -3,908 | 4,70E-22 |
| PRKCA | -3,90984 | 8,95E-22 |
| FER1L4 | -3,92856 | 3,74E-09 |
| FAM13A | -3,94867 | 1,21E-16 |
| TRIM47 | -3,94969 | 3,96E-30 |
| SERPINE2 | -3,95866 | 2,04E-17 |
| EPHX4 | -3,97181 | 7,37E-09 |
| SPTBN5 | -3,97793 | 0,000144 |
| SOX7 | -3,98097 | 7,77E-07 |
| CADPS2 | -3,9857 | 6,19E-06 |
| EML5 | -3,99709 | 9,87E-12 |
| AKAP12 | -4,00625 | 1,54E-21 |
| APOLD1 | -4,00773 | 2,16E-05 |
| CD74 | -4,01019 | 7,40E-07 |
| KCNQ1 | -4,03685 | 1,64E-06 |
| AKAP7 | -4,04986 | 5,60E-09 |
| JAZF1 | -4,05751 | 7,14E-08 |
| MBP | -4,05842 | 2,21E-28 |
| TNS4 | -4,06794 | 1,93E-07 |
| SEPT10 | -4,08229 | 2,50E-19 |
| WDR90 | -4,09486 | 1,27E-29 |
| FAM222A-1 | -4,11737 | 7,40E-05 |
| CMTM7 | -4,12574 | 2,50E-26 |
| TGFB111 | -4,13731 | 2,55E-05 |
| SH2B3 | -4,14482 | 5,04E-48 |
| STX11 | -4,14625 | 2,17E-05 |
| LRRK1 | -4,15127 | 2,81E-24 |
| HES7 | -4,15211 | 8,23E-14 |

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| IL20RA | -4,15677 | 2,16E-14 |
| FUT3 | -4,15867 | 7,49E-09 |
| GABARAPL | -4,17218 | 6,39E-09 |
| IGFL2 | -4,17539 | 7,01E-12 |
| RGL3 | -4,17665 | 1,52E-06 |
| C3orf52 | -4,17721 | 2,72E-07 |
| C3orf18 | -4,18737 | 9,49E-08 |
| F3 | -4,22096 | 4,52E-24 |
| PLA2G16 | -4,2254 | 7,92E-18 |
| FAT1 | -4,23718 | 2,04E-40 |
| CYP4V2 | -4,24917 | 3,61E-11 |
| HLA-A | -4,25773 | 2,38E-43 |
| ARHGAP23 | -4,27516 | 1,13E-16 |
| UBASH3B | -4,27805 | 1,09E-24 |
| FAM83F | -4,32035 | 1,02E-12 |
| EPHA2 | -4,32446 | 2,40E-28 |
| PPM1K | -4,33079 | 8,47E-15 |
| QPCT | -4,33256 | 1,18E-26 |
| BDKRB2 | -4,3335 | 8,84E-07 |
| ANKRD29 | -4,34766 | 3,89E-10 |
| FHL2 | -4,3606 | 1,47E-12 |
| B3GNT5 | -4,37197 | 1,19E-09 |
| NRP2 | -4,3783 | 1,20E-12 |
| PDE8B | -4,37917 | 6,76E-06 |
| IGFL4 | -4,41236 | 0,000447 |
| SH3RF2 | -4,41276 | 2,40E-20 |
| VWA5B2 | -4,41858 | 0,000445 |
| VWA2 | -4,4226 | 1,56E-13 |
| ZNF513 | -4,4409 | 2,03E-12 |
| HOXA7 | -4,4542 | 4,19E-09 |
| SEC31B | -4,50459 | 0,000396 |
| RASIP1 | -4,52925 | 5,50E-10 |
| ANKRD33B | -4,55089 | 1,08E-07 |
| SERPINE1 | -4,56709 | 7,27E-07 |
| LINC00673 | -4,57462 | 5,69E-06 |
| PLAUR | -4,57582 | 1,55E-14 |
| TESC | -4,58217 | 1,07E-39 |
| SPRED1 | -4,60164 | 3,31E-24 |
| NR4A3 | -4,61093 | 2,25E-10 |
| STAMBPL1 | -4,63879 | 4,88E-19 |
| KHDRBS3 | -4,64457 | 2,65E-06 |
| PELI1 | -4,64988 | 1,04E-30 |
| C14orf159 | -4,65358 | 8,60E-31 |
| SLC1A1 | -4,65977 | 4,15E-15 |
| SNORD30 | -4,66946 | 0,000857 |
| MYH15 | -4,67273 | 3,09E-05 |
| NOD2 | -4,68202 | 2,26E-08 |
| ARHGAP40 | -4,71015 | 5,66E-05 |
| XDH | -4,71497 | 0,000457 |
| ULBP2 | -4,71536 | 2,33E-10 |

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| HOXC8 | -4,73061 | 3,96E-11 |
| CNTNAP1 | -4,74536 | 4,29E-38 |
| IL22RA1 | -4,77275 | 2,93E-06 |
| MCOLN2 | -4,78203 | 2,69E-18 |
| AMPD3 | -4,78806 | 5,67E-32 |
| LOC10013C | -4,79081 | 2,62E-15 |
| EVA1C | -4,84 | 5,85E-26 |
| LAMC2 | -4,8471 | 2,35E-32 |
| CAPN2 | -4,8514 | 2,99E-26 |
| HOXA13 | -4,87311 | 1,35E-05 |
| PDE10A | -4,89094 | 0,000138 |
| HOXD11 | -4,89873 | 1,23E-07 |
| PITX2 | -4,94484 | 2,43E-31 |
| TUBA4A | -4,95151 | 1,90E-19 |
| GJB3 | -4,975 | 8,55E-18 |
| SGPP2 | -4,98018 | 2,86E-32 |
| ARHGEF40 | -4,986 | 1,00E-16 |
| DUSP6 | -4,99319 | 5,00E-08 |
| KIFC3 | -5,00167 | 5,15E-18 |
| KLF15 | -5,01642 | 1,59E-14 |
| PDCL3P4 | -5,02593 | 8,19E-06 |
| GNB3 | -5,05157 | 0,000155 |
| TOR4A | -5,05999 | 4,03E-58 |
| SLC45A1 | -5,06775 | 0,000512 |
| EGFR | -5,07421 | 4,57E-53 |
| PLAC8 | -5,09172 | 2,89E-05 |
| CORO2B | -5,09953 | 1,15E-10 |
| TRANK1 | -5,11314 | 3,16E-08 |
| SERPINB9 | -5,11534 | 1,61E-33 |
| HCP5 | -5,12198 | 2,17E-07 |
| HNF4G | -5,13741 | 1,45E-20 |
| GNAL | -5,16116 | 6,80E-45 |
| PNMA2 | -5,18261 | 2,70E-18 |
| MID1 | -5,18538 | 1,06E-21 |
| GFI1 | -5,21092 | 2,86E-12 |
| MAFF | -5,21393 | 7,51E-09 |
| CD274 | -5,22275 | 1,30E-05 |
| LIF | -5,2846 | 6,19E-18 |
| TNFAIP3 | -5,29813 | 1,72E-40 |
| STK32A | -5,32547 | 0,000194 |
| TNNC1 | -5,32597 | 6,04E-11 |
| FOSL1 | -5,33083 | 2,72E-38 |
| RIN1 | -5,35273 | 1,89E-37 |
| TMEM98 | -5,36971 | 5,50E-36 |
| DAPK1 | -5,37567 | 3,70E-10 |
| SCG5 | -5,38662 | 1,43E-05 |
| PIK3AP1 | -5,40227 | 3,63E-19 |
| KIF7 | -5,4074 | 0,000259 |
| SATB1 | -5,43115 | 8,27E-10 |
| NCR3LG1 | -5,43222 | 8,97E-43 |

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| FAM184A | -5,43231 | 1,67E-06 |
| NPHS1 | -5,44178 | 3,04E-14 |
| NAP1L5 | -5,47704 | 1,12E-07 |
| PROS1 | -5,48901 | 5,21E-20 |
| CA2 | -5,49616 | 4,63E-16 |
| HOXB13 | -5,51505 | 1,57E-15 |
| SLC2A3 | -5,51639 | 1,59E-17 |
| LAT2 | -5,53163 | 8,06E-08 |
| PLEKHA4 | -5,55802 | 3,56E-27 |
| PCSK5 | -5,55836 | 1,20E-05 |
| MPP1 | -5,58069 | 8,72E-21 |
| SRMS | -5,59012 | 1,99E-09 |
| ILDR2 | -5,59481 | 4,80E-09 |
| YOD1 | -5,60098 | 7,23E-24 |
| CRYBG3 | -5,63652 | 6,12E-37 |
| EPB41L2 | -5,63705 | 1,52E-79 |
| MEIS2 | -5,67206 | 8,08E-09 |
| PLCL2 | -5,67506 | 5,64E-08 |
| ETV4 | -5,67571 | 4,24E-18 |
| TPM2 | -5,6791 | 4,34E-27 |
| CR2 | -5,68404 | 1,14E-27 |
| ACOT2 | -5,69552 | 3,74E-14 |
| MTAP | -5,71326 | 5,08E-26 |
| SH3RF3 | -5,7168 | 3,69E-11 |
| PRRT3-AS1 | -5,74534 | 2,56E-07 |
| MOB3B | -5,75927 | 3,56E-09 |
| TLE6 | -5,76722 | 0,000455 |
| GSTM2 | -5,77807 | 0,000197 |
| ME3 | -5,78285 | 1,11E-17 |
| CX3CL1 | -5,7859 | 2,49E-10 |
| SGSM1 | -5,8132 | 3,57E-09 |
| LYN | -5,84898 | 4,00E-40 |
| CRAT | -5,85987 | 1,91E-25 |
| APOL6 | -5,8817 | 3,44E-37 |
| EMP1 | -5,89723 | 0,000791 |
| CASP10 | -5,90242 | 2,40E-20 |
| ANKRD22 | -5,90689 | 1,25E-09 |
| CLMP | -5,91883 | 3,41E-07 |
| DPP4 | -5,92046 | 2,51E-11 |
| AMN | -5,92084 | 1,22E-05 |
| GAL3ST2 | -5,9316 | 3,53E-09 |
| C6orf223 | -5,93908 | 9,47E-13 |
| BZRAP1 | -5,95224 | 3,54E-09 |
| EPAS1 | -5,95409 | 1,16E-25 |
| ETV7 | -5,965 | 1,51E-17 |
| MST1R | -5,97141 | 9,81E-49 |
| ELFN1-AS1 | -5,9836 | 1,31E-17 |
| SPRY4 | -6,0046 | 1,58E-43 |
| RASSF6 | -6,01148 | 3,00E-06 |
| TLR2 | -6,03156 | 1,66E-10 |

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| SNPH | -6,03297 | 3,40E-06 |
| CSF1 | -6,06801 | 3,79E-61 |
| SOX8 | -6,09434 | 2,94E-06 |
| NFKBIZ | -6,09456 | 1,12E-31 |
| RGS11 | -6,10403 | 7,48E-05 |
| ERAP2 | -6,11696 | 5,29E-36 |
| NPIPA5 | -6,17999 | 1,52E-09 |
| UCA1 | -6,18489 | 0,000283 |
| ARSJ | -6,18637 | 1,20E-06 |
| HOXB6 | -6,20374 | 2,40E-22 |
| ZBTB18 | -6,22223 | 8,23E-28 |
| DGKG | -6,22389 | 3,40E-05 |
| PAK6 | -6,23015 | 2,88E-39 |
| PPP1R14C | -6,26818 | 1,04E-09 |
| INPP1 | -6,27813 | 5,94E-19 |
| HOXD10 | -6,29922 | 2,25E-05 |
| NLRC5 | -6,3077 | 5,40E-29 |
| SPTB | -6,31074 | 7,60E-25 |
| ZC3H12C | -6,33273 | 7,30E-41 |
| TRIM38 | -6,35262 | 3,26E-13 |
| HOXB4 | -6,41528 | 8,38E-11 |
| TRABD2A | -6,4191 | 1,21E-17 |
| CACNB4 | -6,41992 | 2,45E-22 |
| KLK10 | -6,42881 | 6,64E-09 |
| ARMCX4 | -6,54363 | 1,14E-10 |
| HOXB9 | -6,56804 | 1,91E-06 |
| GLI2 | -6,60472 | 1,03E-11 |
| TMEM173 | -6,63724 | 1,72E-15 |
| PALD1 | -6,64418 | 1,25E-110 |
| COL4A2 | -6,65634 | 1,02E-28 |
| FAM65B | -6,68324 | 0,000753 |
| HNF4A | -6,68926 | 1,25E-29 |
| MCTP2 | -6,71872 | 7,47E-20 |
| RNF217 | -6,74076 | 3,63E-09 |
| ERO1B | -6,77837 | 8,73E-24 |
| ACY3 | -6,79439 | 0,000821 |
| OSBPL3 | -6,795 | 1,00E-30 |
| ZDHHC2 | -6,79659 | 3,40E-46 |
| STAT5A | -6,82889 | 2,68E-05 |
| ZNF71 | -6,88119 | 5,29E-07 |
| BIN1 | -6,89757 | 6,66E-76 |
| LCN2 | -6,92761 | 2,66E-07 |
| BIRC3 | -6,93893 | 1,59E-30 |
| TMEM200E | -6,94078 | 9,30E-18 |
| LINC01138 | -7,02913 | 1,67E-07 |
| PEAR1 | -7,15015 | 0,000138 |
| RAET1L | -7,17447 | 0,00013 |
| C1QTNF1 | -7,21212 | 1,91E-16 |
| ZNF426 | -7,24091 | 1,69E-16 |
| APOBEC3C | -7,24194 | 3,06E-23 |

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| USP32P1 | -7,27813 | 8,32E-05 |
| TLE4 | -7,2969 | 9,55E-05 |
| ETV5 | -7,32036 | 3,07E-53 |
| CD14 | -7,37847 | 1,19E-08 |
| JSRP1 | -7,3902 | 0,000119 |
| TNC | -7,40136 | 8,65E-05 |
| ZC4H2 | -7,42415 | 4,80E-09 |
| TFCP2 | -7,42555 | 0,000816 |
| ZNF717 | -7,45689 | 9,75E-09 |
| ALDH1L1 | -7,56361 | 1,59E-25 |
| LINC00857 | -7,5881 | 3,00E-09 |
| CTGLF12P | -7,59247 | 0,000563 |
| EPHA1-AS1 | -7,606 | 0,00052 |
| ZNF69 | -7,60861 | 0,00053 |
| CARD6 | -7,6145 | 0,000502 |
| TMEM200A | -7,61538 | 0,000785 |
| C2orf70 | -7,61614 | 0,000489 |
| NEK9 | -7,6174 | 1,47E-05 |
| IL32 | -7,62591 | 1,11E-08 |
| ERICH5 | -7,64403 | 3,28E-17 |
| DPYD | -7,72141 | 0,000349 |
| ONECUT3 | -7,72414 | 0,000353 |
| BTBD19 | -7,72546 | 1,32E-05 |
| NPR2 | -7,74339 | 2,22E-05 |
| OSR1 | -7,74425 | 1,24E-05 |
| DEPDC7 | -7,76641 | 0,000258 |
| FOXQ1 | -7,78447 | 1,33E-19 |
| GRIN2B | -7,78938 | 0,000273 |
| TNFRSF14 | -7,79536 | 3,70E-10 |
| FBLN7 | -7,81248 | 0,000461 |
| HS3ST1 | -7,82129 | 9,19E-06 |
| SLC38A8 | -7,86371 | 0,000421 |
| LOC389602 | -7,88205 | 0,000154 |
| TRIM15 | -7,89495 | 1,23E-35 |
| CA9 | -7,90636 | 6,00E-19 |
| LIPE | -7,92448 | 1,75E-10 |
| PVRL3 | -7,9329 | 0,000129 |
| ICAM1 | -7,93354 | 8,98E-49 |
| KCNE3 | -7,98363 | 5,11E-06 |
| HOXD-AS2 | -7,99688 | 9,19E-05 |
| ADAM21 | -8,01326 | 0,000101 |
| CTS2 | -8,01832 | 4,61E-55 |
| RARRES1 | -8,01874 | 0,00015 |
| CD6 | -8,03076 | 0,000138 |
| BHLHE41 | -8,04984 | 5,00E-06 |
| ITGAX | -8,08215 | 0,000107 |
| ACSL5 | -8,08725 | 2,33E-53 |
| C8orf31 | -8,1095 | 5,49E-05 |
| MIR31HG | -8,11873 | 5,33E-05 |
| PDZK1IP1 | -8,12724 | 5,52E-05 |

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| ALDH2 | -8,13648 | 6,50E-74 |
| MUC13 | -8,15354 | 4,97E-05 |
| HLA-H | -8,16899 | 1,55E-11 |
| LYPD5 | -8,17355 | 3,18E-06 |
| PTPRD | -8,19554 | 3,82E-05 |
| HRCT1 | -8,20227 | 3,87E-05 |
| TLR6 | -8,20556 | 3,62E-05 |
| SBSPON | -8,21177 | 5,34E-05 |
| WNT16 | -8,23852 | 5,06E-05 |
| UGT8 | -8,24737 | 4,94E-05 |
| FGFBP1 | -8,26869 | 2,50E-05 |
| FEZF1-AS1 | -8,27696 | 2,41E-05 |
| MDFIC | -8,28892 | 1,01E-16 |
| CES4A | -8,30432 | 2,11E-05 |
| LINC01152 | -8,30545 | 6,47E-05 |
| WIPF3 | -8,31139 | 3,55E-20 |
| CSF2RA | -8,31714 | 6,24E-05 |
| EBI3 | -8,32174 | 7,48E-05 |
| SOX9 | -8,33228 | 1,25E-80 |
| GPR35 | -8,34304 | 6,31E-31 |
| NEURL3 | -8,34779 | 3,97E-05 |
| NPR1 | -8,35184 | 2,85E-11 |
| CDHR5 | -8,37315 | 0,000113 |
| HOXB8 | -8,37974 | 1,14E-21 |
| P3H3 | -8,38897 | 2,84E-06 |
| C1RL | -8,41005 | 1,36E-20 |
| LINC00899 | -8,43489 | 1,40E-05 |
| GBP3 | -8,48357 | 4,61E-07 |
| PHLDB2 | -8,49304 | 9,71E-38 |
| TMBIM1 | -8,52309 | 3,13E-69 |
| ICAM4 | -8,52957 | 8,52E-06 |
| TLDC2 | -8,53159 | 6,75E-06 |
| DUSP5P1 | -8,54734 | 7,87E-06 |
| ZNF280A | -8,54888 | 7,61E-06 |
| CCL26 | -8,57952 | 8,48E-06 |
| ZFP57 | -8,58487 | 1,26E-23 |
| CDH12 | -8,59284 | 5,41E-06 |
| ZC3H12B | -8,62411 | 4,20E-06 |
| RARRES2 | -8,63341 | 8,19E-06 |
| ADAMTSL2 | -8,63781 | 9,04E-06 |
| ZNF559 | -8,69511 | 5,00E-06 |
| LONRF3 | -8,6963 | 2,35E-13 |
| ZNF470 | -8,73891 | 2,96E-06 |
| ZNF649 | -8,74064 | 2,29E-06 |
| EVX1 | -8,75056 | 9,99E-06 |
| STEAP2 | -8,75167 | 5,01E-06 |
| RRN3P1 | -8,77623 | 1,94E-06 |
| LTB | -8,78645 | 7,26E-13 |
| VSNL1 | -8,82621 | 5,09E-14 |
| C4BPB | -8,83303 | 4,78E-06 |

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| SLC7A7 | -8,83462 | 3,03E-20 |
| CSF2 | -8,842 | 3,30E-06 |
| TLR3 | -8,85649 | 1,25E-06 |
| CST7 | -8,87556 | 1,25E-06 |
| GIPR | -8,88083 | 1,08E-06 |
| AKT3 | -8,89928 | 1,07E-06 |
| LRRN4 | -8,91101 | 5,58E-06 |
| KLK6 | -8,91989 | 6,99E-25 |
| LOC72997C | -8,97149 | 7,01E-07 |
| TMEM220 | -8,98193 | 1,34E-06 |
| LAMA1 | -9,01195 | 5,34E-07 |
| ADGRG5 | -9,04198 | 4,53E-07 |
| HOXD13 | -9,04472 | 7,45E-07 |
| ZNF175 | -9,06723 | 3,99E-07 |
| SERP2 | -9,06891 | 4,22E-07 |
| TIMP4 | -9,07039 | 7,85E-07 |
| PAX6 | -9,0772 | 3,75E-07 |
| DMRTA2 | -9,10424 | 2,53E-08 |
| CDH17 | -9,12607 | 2,19E-06 |
| SLC6A20 | -9,12668 | 3,13E-07 |
| LOC10192E | -9,13019 | 1,12E-06 |
| C11orf45 | -9,14255 | 2,97E-07 |
| HOXB3 | -9,15027 | 4,18E-22 |
| NOS2 | -9,15848 | 1,93E-08 |
| NRN1 | -9,17241 | 2,78E-07 |
| PRKCQ-AS1 | -9,17257 | 2,35E-07 |
| FGF2 | -9,18857 | 7,64E-29 |
| PSMB8 | -9,19339 | 4,86E-27 |
| C7orf31 | -9,20478 | 2,55E-07 |
| GATA2-AS1 | -9,21726 | 1,85E-08 |
| LRRC34 | -9,22335 | 2,14E-07 |
| TNFSF12 | -9,22502 | 1,69E-07 |
| DLX6 | -9,22845 | 4,83E-07 |
| LINC00941 | -9,28622 | 1,22E-07 |
| SH3GL2 | -9,29798 | 3,22E-08 |
| HOXB-AS3 | -9,32047 | 5,86E-07 |
| ABCB1 | -9,38316 | 2,59E-86 |
| CCL28 | -9,38556 | 7,85E-08 |
| FAM27E3 | -9,40992 | 1,78E-07 |
| CELF2 | -9,42568 | 5,61E-08 |
| DMD | -9,43736 | 5,36E-08 |
| C1RL-AS1 | -9,44296 | 5,16E-08 |
| ICAM2 | -9,45128 | 5,92E-09 |
| HOTTIP | -9,49677 | 3,92E-08 |
| CADPS | -9,51276 | 1,25E-14 |
| TMSB4Y | -9,52524 | 3,51E-08 |
| TMEM52B | -9,52644 | 2,84E-07 |
| PRKCQ | -9,56007 | 4,46E-08 |
| LOC11511C | -9,581 | 4,57E-08 |
| FRG1CP | -9,62767 | 1,79E-08 |

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| MAP1LC3A | -9,68045 | 1,36E-08 |
| GSDMA | -9,71269 | 3,89E-07 |
| AGPS | -9,77338 | 1,50E-54 |
| BCL11A | -9,81767 | 6,57E-09 |
| CCAT1 | -9,86901 | 9,09E-09 |
| KLK7 | -9,90803 | 2,75E-08 |
| HOXD9 | -9,91462 | 3,64E-09 |
| LINC01224 | -9,93851 | 3,27E-09 |
| PRKY | -10,0719 | 2,90E-09 |
| TTY15 | -10,0812 | 1,41E-09 |
| ABO | -10,0842 | 1,47E-09 |
| NUDT16P1 | -10,1288 | 1,35E-09 |
| DPEP1 | -10,1403 | 7,38E-18 |
| RAB38 | -10,156 | 9,52E-10 |
| CA13 | -10,2112 | 6,86E-10 |
| ETS1 | -10,2174 | 2,20E-09 |
| FAM71E1 | -10,2175 | 8,35E-10 |
| HOXA9 | -10,2491 | 5,52E-10 |
| ARHGAP31 | -10,2607 | 9,02E-11 |
| TRIM10 | -10,2821 | 4,76E-10 |
| PLAT | -10,3271 | 7,50E-10 |
| EREG | -10,3476 | 1,00E-13 |
| LDHB | -10,3483 | 0,000573 |
| ARSE | -10,365 | 2,83E-10 |
| GPRIN2 | -10,4004 | 2,73E-10 |
| MT1A | -10,4332 | 1,28E-09 |
| GSTP1 | -10,4442 | 6,66E-122 |
| FOXA3 | -10,4469 | 1,96E-10 |
| PDX1 | -10,4553 | 1,84E-10 |
| HRH1 | -10,5017 | 2,88E-10 |
| HMGA2 | -10,523 | 7,97E-11 |
| UTY | -10,6317 | 6,54E-11 |
| ZNF215 | -10,6922 | 4,44E-11 |
| TNFRSF1B | -10,694 | 4,31E-11 |
| NT5E | -10,7104 | 1,73E-10 |
| GJB6 | -10,7497 | 3,86E-11 |
| EPS8L3 | -10,8307 | 3,08E-11 |
| TRIM58 | -10,8347 | 1,11E-10 |
| ZC3HAV1L | -10,857 | 2,42E-11 |
| HOXB5 | -10,8728 | 1,56E-11 |
| CYB5R2 | -10,893 | 1,67E-11 |
| ZNF280B | -10,9092 | 1,34E-11 |
| SDHAF3 | -10,989 | 8,76E-12 |
| ZFY | -11,0521 | 9,53E-12 |
| CCL20 | -11,0895 | 7,84E-05 |
| GDA | -11,1007 | 2,87E-11 |
| TNFSF15 | -11,1344 | 1,81E-05 |
| SAMD5 | -11,167 | 3,56E-12 |
| RAC2 | -11,1725 | 7,02E-12 |
| KCNJ5 | -11,2668 | 4,84E-11 |

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| HOXA10-A' | -11,402 | 6,95E-13 |
| AASS | -11,4903 | 5,85E-13 |
| TNFRSF9 | -11,5652 | 2,73E-13 |
| HOXA10 | -11,6178 | 1,99E-13 |
| TNFRSF10C | -11,6206 | 2,45E-13 |
| TXLNGY | -11,6929 | 1,25E-13 |
| PRSS3 | -11,7796 | 7,37E-14 |
| ZNF320 | -11,8209 | 5,82E-14 |
| FUT2 | -11,8411 | 7,23E-14 |
| PLAU | -11,8602 | 1,06E-13 |
| TCEAL8 | -11,8624 | 4,63E-14 |
| CXCL3 | -11,8737 | 1,58E-12 |
| TINAGL1 | -11,8843 | 6,94E-14 |
| GSPT2 | -11,8991 | 3,93E-14 |
| KDM5D | -11,9224 | 7,64E-14 |
| ZNF518B | -11,9282 | 3,13E-14 |
| C5orf42 | -11,9633 | 2,63E-14 |
| CYBRD1 | -12,0441 | 2,02E-14 |
| HNF1B | -12,0528 | 1,64E-14 |
| KIRREL | -12,0532 | 1,67E-14 |
| EIF1AY | -12,0881 | 1,41E-14 |
| USP9Y | -12,0882 | 1,20E-14 |
| SLCO1B3 | -12,1433 | 1,29E-14 |
| WBP5 | -12,2765 | 4,12E-15 |
| GALNT5 | -12,2822 | 1,17E-05 |
| VIL1 | -12,4378 | 2,88E-15 |
| TMEM246 | -12,5519 | 8,80E-16 |
| GNE | -12,5863 | 1,26E-15 |
| NLRP2 | -12,6137 | 1,02E-15 |
| CXCL1 | -12,6815 | 3,94E-09 |
| SIGMAR1 | -12,7846 | 5,91E-32 |
| C16orf96 | -12,8441 | 1,28E-16 |
| C2CD2 | -12,857 | 1,75E-16 |
| ZCCHC11 | -12,949 | 7,98E-17 |
| IGF2BP3 | -13,1502 | 1,78E-17 |
| CXCL2 | -13,4363 | 4,70E-08 |
| GPX1 | -13,5091 | 3,40E-18 |
| CXCL5 | -13,5715 | 1,25E-18 |
| CNN3 | -13,5781 | 6,12E-19 |
| DDX3Y | -13,7174 | 1,60E-18 |
| MT1E | -13,8595 | 3,61E-19 |
| EMC10 | -14,1193 | 5,21E-20 |
| CLDN2 | -14,4213 | 6,32E-21 |
| OLR1 | -15,9408 | 4,61E-25 |
| AFAP1-AS1 | -17,1271 | 1,52E-29 |

HCT116

| Gene | log2FoldCh | FDR |
|----------|------------|-----------|
| AKAP12 | -8,45032 | 7,69E-144 |
| TPM2 | -9,35571 | 5,80E-124 |
| GSTP1 | -10,5241 | 8,57E-113 |
| RHOBTB1 | 7,331974 | 2,17E-110 |
| ANXA1 | -6,75054 | 3,35E-110 |
| SOX9 | -8,57732 | 7,28E-99 |
| SPRY4 | -8,17914 | 3,72E-88 |
| SERPINE2 | -6,38873 | 4,65E-74 |
| EPB41L2 | -5,46721 | 8,57E-70 |
| PALD1 | -6,18134 | 1,15E-68 |
| FOXA1 | 5,410203 | 3,25E-67 |
| HOMER2 | 7,621033 | 1,07E-66 |
| RBP1 | -9,25166 | 2,88E-66 |
| CTS2 | -8,88751 | 4,24E-64 |
| COL12A1 | -8,26702 | 8,61E-63 |
| ETV5 | -8,04297 | 3,99E-61 |
| STC1 | 6,744312 | 1,43E-60 |
| BIN1 | -6,70767 | 4,02E-60 |
| ACSL5 | -9,20434 | 5,76E-60 |
| TMBIM1 | -8,33587 | 3,00E-59 |
| EGFR | -5,66357 | 1,56E-58 |
| TENM3 | 7,060486 | 1,96E-58 |
| MAGEB2 | -9,56922 | 2,98E-58 |
| ADAM19 | -6,30449 | 1,37E-57 |
| VCAN | -9,05153 | 1,60E-57 |
| PRSS23 | 6,220383 | 7,12E-57 |
| ZNF703 | 4,814344 | 5,70E-56 |
| PHLDB2 | -10,4676 | 4,85E-55 |
| MEX3A | 4,343738 | 5,35E-54 |
| NPW | -4,9696 | 2,25E-53 |
| FLRT3 | 6,528264 | 2,60E-53 |
| OSBPL3 | -8,41833 | 2,44E-51 |
| ANO1 | -10,3897 | 3,99E-51 |
| FAM101B | -4,93268 | 4,93E-50 |
| IGF2BP2 | -4,58798 | 5,19E-50 |
| PRMT6 | 4,246137 | 6,08E-50 |
| AGPS | -9,61246 | 6,21E-50 |
| MID1 | -6,88042 | 9,15E-50 |
| PIK3R3 | 6,533346 | 6,09E-49 |
| SLC38A5 | -9,098 | 1,99E-48 |
| YBX2 | 7,825385 | 4,99E-48 |
| CD109 | -5,70311 | 4,82E-47 |
| CD24 | 5,901124 | 1,71E-46 |
| CMTM7 | -5,36566 | 2,22E-46 |
| RIN1 | -6,09716 | 2,33E-46 |
| MYEOV | -5,90676 | 6,06E-46 |
| STAP2 | 7,046507 | 2,29E-45 |
| BMP7 | 3,831037 | 1,07E-44 |

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| FRMD5 | -5,08709 | 3,49E-44 |
| LYN | -6,11729 | 5,69E-44 |
| ITGA5 | -5,3316 | 8,49E-44 |
| ARHGAP29 | -4,90908 | 1,64E-43 |
| SULF2 | 4,924137 | 1,68E-43 |
| FAM213A | 5,481121 | 4,44E-43 |
| JAG1 | -5,02959 | 6,61E-43 |
| CRIP1 | -5,91774 | 1,18E-42 |
| EPAS1 | -6,84569 | 1,55E-42 |
| BAMBI | 4,043334 | 3,76E-42 |
| TNFRSF19 | 5,473121 | 4,71E-42 |
| MSX1 | -5,20373 | 5,84E-42 |
| SLC9A2 | 5,374113 | 9,99E-42 |
| ALDH2 | -7,36833 | 2,01E-41 |
| UNC13A | -6,58406 | 1,92E-40 |
| TOR4A | -5,11299 | 7,05E-40 |
| FBXO2 | -5,76396 | 2,07E-39 |
| PDP1 | -4,86571 | 3,56E-39 |
| EMP3 | -7,70822 | 8,15E-39 |
| SERPINB9 | -5,60564 | 9,30E-39 |
| GATA3 | 5,742156 | 1,49E-38 |
| SYTL3 | -5,68415 | 2,22E-38 |
| BCAS3 | 4,68029 | 2,56E-38 |
| KLK6 | -11,4496 | 4,87E-38 |
| ASPH | -4,40935 | 1,10E-37 |
| PSMD6 | 3,616195 | 3,79E-37 |
| UCP2 | 4,821463 | 9,50E-37 |
| CKB | -3,86434 | 1,09E-36 |
| NCOA3 | 3,78466 | 1,29E-36 |
| PODXL2 | 4,333654 | 1,39E-36 |
| TUSC3 | 6,17928 | 9,53E-36 |
| ADORA2B | -5,23019 | 1,13E-35 |
| NDRG1 | -6,12467 | 2,84E-35 |
| TFAP2C | 4,486281 | 9,05E-35 |
| MTAP | -6,5787 | 1,01E-34 |
| TACSTD2 | 6,268508 | 1,31E-34 |
| MCC | -4,30489 | 1,69E-34 |
| HAS3 | -5,53911 | 3,35E-34 |
| SPRED1 | -5,34821 | 5,66E-34 |
| AKR1B1 | -8,7481 | 5,81E-34 |
| EPHA2 | -5,43957 | 9,43E-34 |
| PAK6 | -5,95892 | 9,76E-34 |
| CDKN2A | -7,7481 | 1,99E-33 |
| RUNX3 | -10,0062 | 3,46E-33 |
| ADM | -7,65462 | 3,58E-33 |
| ZDHHC2 | -6,24466 | 6,45E-33 |
| CAV2 | -4,54411 | 7,63E-33 |
| CDC42EP3 | -4,2604 | 1,42E-32 |
| PROM2 | 6,191901 | 2,08E-32 |
| CLDND1 | -3,53515 | 2,43E-32 |

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| ZBTB20 | -7,52767 | 5,32E-32 |
| GNAI1 | -5,68202 | 1,18E-31 |
| TRIM47 | -4,29893 | 1,30E-31 |
| FOSL1 | -6,65976 | 1,70E-31 |
| F3 | -5,33092 | 2,22E-31 |
| DPYSL3 | -4,94325 | 6,53E-31 |
| DCBLD2 | -4,48482 | 1,06E-30 |
| ANXA3 | -4,68788 | 1,24E-30 |
| ZNF217 | 3,508752 | 2,54E-30 |
| BRIP1 | 3,341347 | 2,74E-30 |
| ITGA6 | -3,73236 | 2,86E-30 |
| SELM | -4,05125 | 3,94E-30 |
| M1AP | -7,66513 | 5,14E-30 |
| ACAA2 | 3,495835 | 8,19E-30 |
| GJC1 | -9,54859 | 1,23E-29 |
| IRX5 | 5,037391 | 1,31E-29 |
| SH2B3 | -3,7852 | 1,70E-29 |
| WIPF3 | -9,50611 | 3,64E-29 |
| NXN | -3,35205 | 4,22E-29 |
| IGSF9 | 3,729142 | 5,25E-29 |
| NOTCH3 | 3,436623 | 5,97E-29 |
| IGFBP5 | 7,008357 | 6,75E-29 |
| LIX1L | -4,80686 | 9,19E-29 |
| SIGMAR1 | -12,2412 | 1,70E-28 |
| DMKN | -3,34494 | 2,49E-28 |
| CA2 | -6,16229 | 2,66E-28 |
| GREB1 | 3,683955 | 2,69E-28 |
| CAV1 | -5,09871 | 3,47E-28 |
| SH3PXD2A | -4,75922 | 5,47E-28 |
| SSFA2 | -4,16056 | 5,47E-28 |
| DCLK1 | 5,201957 | 6,13E-28 |
| LINC01234 | -7,1141 | 7,43E-28 |
| MUC1 | 6,63167 | 7,45E-28 |
| GULP1 | -4,37101 | 7,66E-28 |
| SRPX | -5,35103 | 7,66E-28 |
| DNMBP | -3,74975 | 8,99E-28 |
| LCP1 | 6,574197 | 9,02E-28 |
| TRIM24 | 3,243025 | 9,46E-28 |
| RLTPR | -3,82787 | 9,68E-28 |
| KCNQ2 | -6,04813 | 9,89E-28 |
| CAPN2 | -5,34617 | 1,13E-27 |
| APPBP2 | 2,972044 | 1,13E-27 |
| CD44 | -3,29639 | 1,32E-27 |
| LHX4 | 4,882162 | 1,37E-27 |
| SIPA1 | -3,8601 | 1,67E-27 |
| ROR2 | -7,35609 | 2,10E-27 |
| APOBEC3C | -8,27721 | 5,23E-27 |
| ZNF264 | -4,48603 | 5,25E-27 |
| RASEF | 6,676843 | 6,68E-27 |
| SPATC1L | 5,778134 | 7,44E-27 |

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| FAM50B | 6,034679 | 7,44E-27 |
| BCL11B | 4,528967 | 7,85E-27 |
| SPDEF | 10,11223 | 1,69E-26 |
| SEMA3C | 3,089919 | 1,91E-26 |
| CUEDC1 | -3,40695 | 2,49E-26 |
| ZC3H12C | -5,57831 | 2,52E-26 |
| C9orf64 | 8,309194 | 6,13E-26 |
| HTR7 | -6,25137 | 6,92E-26 |
| FAT1 | -3,74159 | 1,01E-25 |
| PFDN4 | 3,240912 | 1,40E-25 |
| APCDD1 | 16,04617 | 1,44E-25 |
| RAB34 | 8,292254 | 1,53E-25 |
| MEX3B | 3,942088 | 1,62E-25 |
| CLIP4 | -8,4354 | 2,65E-25 |
| PHF14 | 3,652511 | 2,73E-25 |
| RBBP8NL | 6,590617 | 3,06E-25 |
| RTN4RL2 | -5,34788 | 3,18E-25 |
| NEB | 6,694938 | 3,31E-25 |
| TNFAIP2 | -6,12292 | 3,51E-25 |
| AXL | -9,80586 | 4,23E-25 |
| FHL2 | -6,28147 | 4,47E-25 |
| FGF9 | -8,33075 | 5,48E-25 |
| HOXC10 | 3,740864 | 9,04E-25 |
| NAGS | -6,16814 | 9,72E-25 |
| TFF1 | 11,92 | 9,72E-25 |
| MAPRE2 | -3,92627 | 1,00E-24 |
| DSE | -3,87408 | 2,44E-24 |
| ACSS3 | 11,35095 | 3,06E-24 |
| FRMD4A | 6,238785 | 3,37E-24 |
| IGFBP4 | 8,291469 | 3,40E-24 |
| ECE1 | -3,317 | 4,10E-24 |
| SEPT10 | -4,83452 | 4,82E-24 |
| GLUL | 2,64768 | 6,94E-24 |
| HSD3B7 | 3,927364 | 7,12E-24 |
| PARM1 | -4,97611 | 8,53E-24 |
| DHRS3 | -4,21217 | 1,57E-23 |
| ZNF595 | 4,431709 | 2,01E-23 |
| TIAM1 | -3,81902 | 2,08E-23 |
| TNS4 | -5,3542 | 2,15E-23 |
| HUNK | 7,685096 | 2,93E-23 |
| TUBA1A | 2,942995 | 3,26E-23 |
| ELK3 | -4,09242 | 3,30E-23 |
| SLC1A2 | 7,876029 | 4,46E-23 |
| LAMC2 | -5,75916 | 5,84E-23 |
| UBASH3B | -4,5867 | 7,76E-23 |
| F2RL1 | -4,0449 | 8,06E-23 |
| FABP5 | -2,71787 | 8,06E-23 |
| CPOX | -4,8823 | 8,58E-23 |
| ESR1 | 10,98328 | 8,64E-23 |
| P3H3 | -8,06862 | 1,05E-22 |

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| POF1B | 7,50362 | 1,13E-22 |
| TRPS1 | 15,07716 | 1,20E-22 |
| ANKRD33B | -6,87811 | 1,51E-22 |
| PMP22 | -5,2859 | 1,75E-22 |
| SOCS6 | -3,09343 | 1,75E-22 |
| AP1S3 | -3,59409 | 1,88E-22 |
| NANOS1 | 4,492214 | 2,57E-22 |
| HOXB8 | -9,05429 | 2,89E-22 |
| RTBDN | -7,0152 | 3,09E-22 |
| KYNU | 8,170548 | 3,12E-22 |
| TMEM98 | -5,00143 | 3,40E-22 |
| ABCA3 | 4,046015 | 3,45E-22 |
| SLC17A9 | -5,3538 | 3,45E-22 |
| FREM2 | 14,91066 | 3,60E-22 |
| COL6A1 | -2,78864 | 3,60E-22 |
| SLC25A13 | 3,248782 | 3,75E-22 |
| ZMYM2 | 2,884059 | 4,14E-22 |
| EVA1C | -4,59498 | 4,32E-22 |
| COL6A2 | -3,83169 | 5,09E-22 |
| P2RY2 | 3,745829 | 5,09E-22 |
| ZNF254 | 3,760248 | 5,27E-22 |
| TBC1D9 | 3,201633 | 5,27E-22 |
| B4GALT5 | -3,09881 | 6,92E-22 |
| S100A4 | -4,05627 | 7,22E-22 |
| IGFBP6 | -5,69255 | 7,73E-22 |
| FBLN1 | -7,73845 | 8,66E-22 |
| BCAR3 | -3,54884 | 9,87E-22 |
| CLDN3 | 3,728433 | 1,06E-21 |
| EHD2 | -2,95619 | 1,07E-21 |
| NRCAM | 6,497223 | 1,08E-21 |
| DYNC1I1 | 9,098525 | 1,14E-21 |
| SNAI1 | -4,07438 | 1,37E-21 |
| CYP1B1 | 5,478553 | 1,46E-21 |
| FLNC | -14,6957 | 1,86E-21 |
| GOLM1 | -2,76429 | 1,87E-21 |
| MXRA7 | -3,50541 | 1,93E-21 |
| AK7 | 4,346185 | 2,41E-21 |
| TEAD2 | 3,349325 | 2,61E-21 |
| RIMKLB | 6,37893 | 3,24E-21 |
| CIART | 8,242678 | 3,28E-21 |
| DLX3 | 9,325012 | 4,07E-21 |
| GPAT2 | -6,88297 | 4,07E-21 |
| IGF1R | 3,351238 | 4,26E-21 |
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| PVRL4 | 4,594132 | 4,62E-21 |
| ICAM5 | -4,84813 | 4,97E-21 |
| BDNF | -5,77926 | 5,15E-21 |
| ETV4 | -6,17122 | 5,47E-21 |
| GLI2 | -7,89506 | 5,62E-21 |
| LEF1 | 14,6186 | 6,30E-21 |

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| PCSK1N | 8,174622 | 6,44E-21 |
| PRSS12 | -9,14011 | 7,68E-21 |
| ZFH3 | 2,851719 | 8,55E-21 |
| QPR1 | 8,483407 | 9,64E-21 |
| IDH2 | 3,267473 | 1,15E-20 |
| COBLL1 | 3,628121 | 1,26E-20 |
| CILP2 | -4,19472 | 1,37E-20 |
| SUMO3 | 2,88134 | 1,57E-20 |
| MT1E | -14,508 | 1,95E-20 |
| SPPL2A | 2,769484 | 1,98E-20 |
| GJB3 | -5,86145 | 2,19E-20 |
| KLK8 | -8,43645 | 2,19E-20 |
| GPC1 | -3,0429 | 2,29E-20 |
| TGFA | -3,89576 | 2,40E-20 |
| MAOB | -4,62463 | 2,40E-20 |
| SMIM22 | 7,192785 | 3,60E-20 |
| COTL1 | -2,75869 | 3,63E-20 |
| IRX3 | 5,668276 | 3,86E-20 |
| LDOC1 | 14,28976 | 4,02E-20 |
| EHF | -3,75755 | 4,31E-20 |
| GRHL3 | 5,886222 | 4,50E-20 |
| STON2 | 3,350853 | 4,69E-20 |
| TSPYL5 | 14,16023 | 4,86E-20 |
| FOXC1 | -2,81584 | 4,97E-20 |
| TRIP10 | -3,40648 | 7,18E-20 |
| KCNH3 | -3,6523 | 7,24E-20 |
| GTSF1 | -14,1016 | 7,62E-20 |
| MBP | -3,79233 | 8,03E-20 |
| EMC10 | -14,0465 | 1,20E-19 |
| CRIP2 | 3,145782 | 1,81E-19 |
| PREX1 | 2,92929 | 1,82E-19 |
| LIN7A | 4,133451 | 1,94E-19 |
| CGREF1 | 3,509714 | 2,11E-19 |
| SCN5A | -4,41451 | 2,14E-19 |
| KIAA1324 | 5,382971 | 2,14E-19 |
| MEPCE | 2,482219 | 2,58E-19 |
| SLC16A3 | -4,37455 | 2,93E-19 |
| CHST6 | -6,31134 | 3,08E-19 |
| FBP1 | 13,27354 | 3,38E-19 |
| SIRPA | -3,47082 | 3,88E-19 |
| AMPD3 | -4,48464 | 4,18E-19 |
| LARGE | 4,796048 | 4,60E-19 |
| C15orf59 | 5,189806 | 4,91E-19 |
| C14orf159 | -4,06448 | 4,98E-19 |
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| ZNF467 | 3,240069 | 6,98E-19 |
| ZNF518B | -13,7419 | 9,48E-19 |
| C3orf14 | 13,76133 | 9,85E-19 |
| MAFB | 5,233475 | 1,01E-18 |
| ARHGAP23 | -4,49515 | 1,20E-18 |

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| TMPRSS13 | 5,777784 | 1,29E-18 |
| SOX4 | 3,200378 | 1,32E-18 |
| USP32 | 3,509597 | 1,33E-18 |
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| OR51B5 | -13,6653 | 1,50E-18 |
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| STAT5B | 3,413752 | 1,63E-18 |
| KIFC3 | -5,30279 | 1,69E-18 |
| HSPB8 | 4,135698 | 1,90E-18 |
| WLS | -3,48852 | 1,98E-18 |
| NT5E | -13,7789 | 2,30E-18 |
| PRKCA | -3,91116 | 2,34E-18 |
| RAC2 | -13,5908 | 2,45E-18 |
| MRVI1 | -7,88213 | 3,06E-18 |
| PPP1R14C | -8,25426 | 3,26E-18 |
| INHBB | 4,700124 | 3,30E-18 |
| DDN | -4,71762 | 3,36E-18 |
| PLEK2 | -3,46651 | 3,64E-18 |
| RDH16 | 5,662736 | 3,67E-18 |
| TINAGL1 | -13,5917 | 4,30E-18 |
| LIF | -4,78528 | 4,63E-18 |
| EFEMP1 | 13,46721 | 4,80E-18 |
| FXYD5 | -3,15823 | 5,21E-18 |
| IER3 | -4,70574 | 5,21E-18 |
| ST6GALNA4 | -3,83227 | 6,41E-18 |
| CRYBG3 | -4,6326 | 6,84E-18 |
| FAM46A | -3,77148 | 7,03E-18 |
| CXorf57 | -4,39055 | 8,01E-18 |
| GRIN2D | -3,6416 | 8,38E-18 |
| CLIP2 | -2,69686 | 8,79E-18 |
| PDE9A | -3,44449 | 1,02E-17 |
| MST1R | -4,87635 | 1,16E-17 |
| CIB2 | -4,78597 | 1,31E-17 |
| SLC27A3 | 3,195433 | 1,32E-17 |
| MATK | 13,28504 | 1,48E-17 |
| HLA-A | -3,32619 | 1,58E-17 |
| PRPS2 | -2,7138 | 1,64E-17 |
| TNFAIP8L3 | 5,278145 | 1,74E-17 |
| TGM2 | -5,53891 | 1,74E-17 |
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| ACSL4 | -2,82367 | 1,91E-17 |
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| CAMK2D | -3,50962 | 2,62E-17 |
| SLC6A17 | -9,98437 | 3,02E-17 |
| SPTBN2 | 2,941214 | 3,67E-17 |
| TRIM37 | 2,596188 | 3,86E-17 |
| ITGA3 | -3,32722 | 4,18E-17 |
| CNN3 | -12,9824 | 4,59E-17 |

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| SYTL2 | 3,153903 | 5,98E-17 |
| PROCR | -5,39794 | 7,16E-17 |
| KLK7 | -13,2395 | 7,90E-17 |
| NPR3 | 4,820671 | 7,90E-17 |
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| TMEM30B | 13,02118 | 8,31E-17 |
| PLAU | -13,4944 | 9,57E-17 |
| HOXB13 | -5,69096 | 9,88E-17 |
| NCOR1 | 2,344956 | 1,10E-16 |
| DYRK1B | 3,400556 | 1,14E-16 |
| C1RL | -7,8612 | 1,21E-16 |
| FRMD6 | 2,905162 | 1,31E-16 |
| GFRA1 | 13,08007 | 1,32E-16 |
| MSLN | -5,96806 | 1,38E-16 |
| PLK3 | -3,55629 | 1,39E-16 |
| TUBB4A | -3,51218 | 1,58E-16 |
| TNNI3 | -4,16007 | 1,59E-16 |
| HLA-B | -4,31868 | 1,59E-16 |
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| KRBA1 | 7,23295 | 1,70E-16 |
| CARD10 | -3,1236 | 1,73E-16 |
| LRRC8C | -3,77083 | 1,96E-16 |
| PROM1 | -12,8746 | 1,96E-16 |
| C10orf54 | -6,5773 | 2,06E-16 |
| CBR1 | 12,91963 | 2,06E-16 |
| SSH1 | -2,5055 | 2,11E-16 |
| GSTM3 | 13,22374 | 2,12E-16 |
| ZNF260 | 12,85028 | 2,25E-16 |
| ELFN1-AS1 | -6,07198 | 2,44E-16 |
| ABHD10 | -2,62265 | 3,78E-16 |
| ZCCHC11 | -12,7687 | 3,79E-16 |
| PRSS3 | -12,835 | 3,94E-16 |
| FAM171A1 | -3,18801 | 4,06E-16 |
| ARMC4 | -5,64916 | 4,11E-16 |
| CACNA1D | 4,483648 | 4,15E-16 |
| EVL | 2,785415 | 4,24E-16 |
| TRIM7 | -4,32342 | 4,30E-16 |
| SMAP1 | 3,248835 | 4,51E-16 |
| PRR36 | 3,060541 | 4,54E-16 |
| ACKR3 | 12,70119 | 4,82E-16 |
| CADM1 | 9,344468 | 4,88E-16 |
| TMEM200/ | -12,846 | 4,96E-16 |
| GEM | -6,26572 | 5,01E-16 |
| C14orf169 | 3,279582 | 5,36E-16 |
| KRT8 | 3,118281 | 5,40E-16 |
| PRKAR1B | 2,444534 | 5,62E-16 |
| SEMA6B | -2,53476 | 6,18E-16 |
| SELENBP1 | 12,69385 | 6,26E-16 |
| VWA5B2 | -6,33753 | 6,61E-16 |
| DSC3 | -9,41681 | 7,20E-16 |

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| CYP26B1 | -5,45396 | 7,35E-16 |
| MICB | -3,71402 | 7,53E-16 |
| HSPA12A | -3,35999 | 7,81E-16 |
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| PKIB | 3,610183 | 9,16E-16 |
| TNFRSF10C | -13,1344 | 9,16E-16 |
| PLA2G16 | -4,02256 | 9,18E-16 |
| ELFN2 | -4,51182 | 9,28E-16 |
| FSTL1 | -5,29289 | 9,60E-16 |
| NLRP2 | -12,954 | 1,02E-15 |
| CREB3L4 | 3,698574 | 1,09E-15 |
| PTPRO | 7,045422 | 1,09E-15 |
| MYL9 | -12,6756 | 1,19E-15 |
| GRIP1 | 6,701999 | 1,24E-15 |
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| PLAUR | -4,83844 | 1,43E-15 |
| FAM127C | 12,52595 | 1,44E-15 |
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| NFIB | 2,656282 | 1,62E-15 |
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| KCNJ8 | 12,47773 | 2,05E-15 |
| PCDHA6 | 12,45601 | 2,16E-15 |
| ZNF43 | 12,44169 | 2,18E-15 |
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| ZNF469 | -4,88129 | 2,44E-15 |
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| VAV3 | 12,42828 | 2,64E-15 |
| ADAMTS14 | -6,96468 | 2,64E-15 |
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| ERV3-1 | 3,507525 | 3,14E-15 |
| TCEAL8 | -12,4197 | 3,27E-15 |
| KIAA1462 | -4,18793 | 3,43E-15 |
| ADGRB1 | 3,443055 | 3,47E-15 |
| CPNE7 | -2,57274 | 3,49E-15 |
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| SNPH | -8,1019 | 3,80E-15 |
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| PRLR | 12,34846 | 4,72E-15 |
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| ISOC2 | 2,510002 | 5,57E-15 |

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| PALLD | -2,91373 | 5,87E-15 |
| ACO1 | -3,17517 | 6,23E-15 |
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| GFY | -7,89173 | 6,35E-15 |
| WBP5 | -12,2961 | 6,45E-15 |
| SP5 | 3,074371 | 7,63E-15 |
| MSH3 | 3,196722 | 7,77E-15 |
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| FAM63A | 4,384289 | 8,48E-15 |
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| PRR15L | 12,31181 | 1,01E-14 |
| POLR3G | -2,75556 | 1,06E-14 |
| CPA4 | -8,69509 | 1,25E-14 |
| RBP7 | -12,1827 | 1,30E-14 |
| KIRREL | -12,3786 | 1,32E-14 |
| INPP1 | -5,94156 | 1,62E-14 |
| MCTP2 | -6,30175 | 1,68E-14 |
| TRAPPC6A | 3,265039 | 1,76E-14 |
| HHEX | -3,85866 | 1,79E-14 |
| PVRL3 | -12,1741 | 1,89E-14 |
| NUCKS1 | 2,120856 | 1,98E-14 |
| CSDE1 | 2,445982 | 2,05E-14 |
| KIF1A | 12,0737 | 2,14E-14 |
| TRNP1 | -3,31737 | 2,16E-14 |
| FHL1 | -4,02923 | 2,20E-14 |
| MUC3A | -3,64263 | 2,35E-14 |
| FERMT1 | -2,70224 | 2,46E-14 |
| TRIM72 | -12,1187 | 2,50E-14 |
| ULBP3 | -4,59439 | 2,53E-14 |
| ERBB3 | 2,369775 | 3,09E-14 |
| MBNL3 | 2,648909 | 3,16E-14 |
| MDFI | -12,1579 | 3,32E-14 |
| C2CD2 | -12,2496 | 3,33E-14 |
| LRP2 | 7,50025 | 3,53E-14 |
| GALNT18 | -2,65325 | 3,59E-14 |
| PIK3AP1 | -5,1199 | 3,60E-14 |
| TMEM200E | -6,68841 | 3,68E-14 |
| TTYH2 | -2,91889 | 3,77E-14 |
| LRAT | -4,91374 | 3,98E-14 |
| RMND5B | 2,285385 | 4,07E-14 |
| HOXA10-AS | -12,0262 | 4,21E-14 |
| MSRB2 | 2,969371 | 4,25E-14 |
| WDR83OS | 2,227787 | 4,30E-14 |
| DCDC2 | 7,239014 | 4,32E-14 |
| ALG1L | 6,186678 | 4,33E-14 |
| CBS | 11,92037 | 4,83E-14 |
| HIPK1 | 2,201096 | 4,84E-14 |
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| SERTAD4 | 9,044891 | 5,43E-14 |
| LRRK1 | -3,67665 | 5,47E-14 |

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| SLC45A1 | -8,06192 | 5,54E-14 |
| SPG20 | 11,8994 | 5,56E-14 |
| ERRFI1 | -5,19042 | 6,02E-14 |
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| PHLDA2 | -4,10805 | 6,26E-14 |
| S100A6 | -2,83843 | 6,29E-14 |
| ADGRF1 | -12,3252 | 6,29E-14 |
| SOWAHC | -3,71083 | 6,36E-14 |
| TP53TG1 | 11,94973 | 6,41E-14 |
| DOC2B | -8,907 | 7,09E-14 |
| HOXB6 | -5,53873 | 7,09E-14 |
| DOCK3 | -5,41609 | 7,15E-14 |
| SNX10 | -3,17045 | 7,49E-14 |
| FAM3B | 7,665279 | 7,57E-14 |
| TBX2 | 8,840533 | 8,02E-14 |
| EMILIN2 | -4,64078 | 8,30E-14 |
| ALDH3B2 | 12,13349 | 8,72E-14 |
| ZBED2 | -12,0249 | 9,03E-14 |
| BCAS2 | 2,28844 | 9,11E-14 |
| RTTN | -3,32017 | 9,75E-14 |
| KLHL29 | -3,80573 | 9,78E-14 |
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| BST2 | 6,310001 | 1,12E-13 |
| CNIH2 | 4,979673 | 1,21E-13 |
| PCDHA11 | 11,83027 | 1,21E-13 |
| PCDHB2 | 11,81061 | 1,23E-13 |
| CKMT1B | 2,805494 | 1,24E-13 |
| KLK10 | -7,66732 | 1,24E-13 |
| AUTS2 | 11,75618 | 1,24E-13 |
| EFNB3 | 5,627112 | 1,27E-13 |
| MUM1L1 | -5,11802 | 1,33E-13 |
| RPL39L | 11,73601 | 1,37E-13 |
| HS3ST1 | -11,6202 | 1,39E-13 |
| GDA | -11,8855 | 1,41E-13 |
| PCDHB13 | 7,618172 | 1,44E-13 |
| CCDC170 | 9,226247 | 1,46E-13 |
| PSMG3-AS1 | 5,032644 | 1,49E-13 |
| HAPLN3 | -6,78316 | 1,55E-13 |
| ZBTB42 | 2,723898 | 1,56E-13 |
| LINC01315 | -5,17136 | 1,56E-13 |
| TARS2 | 2,609954 | 1,57E-13 |
| FOXP1 | 3,161842 | 1,61E-13 |
| RUNX2 | 2,895352 | 1,64E-13 |
| ATXN7L3B | 2,081571 | 1,66E-13 |
| TRIB1 | -2,34417 | 1,67E-13 |
| DLX5 | 11,72409 | 1,67E-13 |
| DUOX1 | -7,77472 | 1,85E-13 |
| ZFHX4 | -11,9107 | 1,85E-13 |

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| LPAR1 | -11,7622 | 1,85E-13 |
| MALT1 | -2,46409 | 1,87E-13 |
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| IMPA1 | -2,53365 | 1,98E-13 |
| PCSK5 | -7,22714 | 2,06E-13 |
| PCDHGC3 | 8,727161 | 2,10E-13 |
| NREP | 3,299718 | 2,15E-13 |
| C16orf45 | -3,81084 | 2,18E-13 |
| ZNF140 | 11,67392 | 2,26E-13 |
| TMEM59L | -5,18766 | 2,34E-13 |
| IL4R | -3,29361 | 2,44E-13 |
| PCDHB3 | 11,68853 | 2,44E-13 |
| ARL4D | -3,24151 | 2,45E-13 |
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| SORT1 | 2,529101 | 2,50E-13 |
| OLFM1 | 3,487212 | 2,51E-13 |
| ULBP2 | -5,49527 | 2,53E-13 |
| S1PR3 | 11,44113 | 3,06E-13 |
| SOX8 | -7,81824 | 3,18E-13 |
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| KLC3 | -2,92264 | 3,38E-13 |
| VSNL1 | -9,67338 | 3,44E-13 |
| TCEA3 | 2,704578 | 3,51E-13 |
| HEATR6 | 2,259131 | 3,58E-13 |
| ADCY1 | 11,60285 | 3,61E-13 |
| SDHAF3 | -11,7736 | 3,77E-13 |
| C9orf152 | 11,69427 | 3,91E-13 |
| ETS1 | -12,1133 | 3,96E-13 |
| PMAIP1 | -3,3779 | 4,08E-13 |
| ZNF280B | -11,6047 | 4,38E-13 |
| CORO2A | -3,27404 | 4,43E-13 |
| DUSP4 | -4,98526 | 4,44E-13 |
| ZFP69B | 5,898499 | 4,49E-13 |
| PYCARD | 11,64076 | 4,50E-13 |
| SPEG | -3,40417 | 4,55E-13 |
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| DGKA | -4,19874 | 4,70E-13 |
| RPS4Y1 | -11,5708 | 4,79E-13 |
| KREMEN2 | 2,609274 | 4,80E-13 |
| NFKB2 | -3,33954 | 4,99E-13 |
| ARHGAP4 | -2,93435 | 5,00E-13 |
| PLXDC2 | 11,54161 | 5,03E-13 |
| MCM3AP-/- | 3,888322 | 5,54E-13 |
| PCDHB16 | 11,60451 | 5,59E-13 |
| CALD1 | -3,94791 | 5,66E-13 |
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| PGM2L1 | 2,677797 | 6,02E-13 |
| TMEM25 | -11,5337 | 6,05E-13 |

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| NAALADL2 | 5,764304 | 6,29E-13 |
| CD40 | -11,6323 | 6,38E-13 |
| YOD1 | -5,00543 | 7,17E-13 |
| BIRC3 | -5,68434 | 7,39E-13 |
| STK39 | -2,92103 | 8,20E-13 |
| CAPG | -2,27119 | 8,24E-13 |
| ECHS1 | 2,128151 | 8,45E-13 |
| ZNF320 | -11,4746 | 8,45E-13 |
| RAB38 | -11,6169 | 8,53E-13 |
| TRIML2 | -5,67261 | 8,53E-13 |
| TMEM45A | -4,89253 | 8,55E-13 |
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| ZNF829 | 11,48325 | 9,10E-13 |
| IL18 | -5,14539 | 9,35E-13 |
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| C1orf56 | 5,448495 | 9,74E-13 |
| ARTN | -3,43226 | 9,81E-13 |
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| STEAP1 | -3,97064 | 1,09E-12 |
| RIMS4 | 7,742497 | 1,18E-12 |
| MDFIC | -7,60464 | 1,19E-12 |
| HOXB4 | -7,17326 | 1,21E-12 |
| WNT5A | 11,46682 | 1,23E-12 |
| DTX3 | 11,34728 | 1,23E-12 |
| PCDHB8 | 11,36375 | 1,23E-12 |
| EFNB2 | -3,01028 | 1,23E-12 |
| MPP1 | -5,06117 | 1,32E-12 |
| CNTNAP1 | -3,53213 | 1,34E-12 |
| NUP210L | 8,532645 | 1,36E-12 |
| TMEM45B | 11,32477 | 1,39E-12 |
| PCDH18 | 11,84248 | 1,40E-12 |
| BMP2 | 10,72257 | 1,41E-12 |
| CPNE8 | -11,4644 | 1,41E-12 |
| CYB561 | 1,941339 | 1,43E-12 |
| CPS1 | -2,53059 | 1,48E-12 |
| GGT6 | 11,07097 | 1,48E-12 |
| SCG2 | -11,3923 | 1,48E-12 |
| ZMIZ1 | 2,366659 | 1,55E-12 |
| SEMA4A | 11,31692 | 1,56E-12 |
| GLIPR2 | -3,19006 | 1,57E-12 |
| AR | 11,3025 | 1,62E-12 |
| GPNMB | 5,079953 | 1,72E-12 |
| DTNA | 3,14926 | 1,72E-12 |
| ZIC1 | 11,42183 | 1,76E-12 |
| CHFR | 11,29398 | 1,80E-12 |
| SIAH2 | 2,838498 | 1,81E-12 |
| ARHGAP22 | -5,89348 | 1,85E-12 |
| PPARG | -3,28104 | 1,86E-12 |
| GUCY1A2 | 11,29109 | 1,87E-12 |
| CAP2 | 2,908784 | 1,90E-12 |

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| ENDOD1 | -2,22301 | 2,11E-12 |
| C17orf51 | -3,86885 | 2,16E-12 |
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| NCAM2 | 11,36713 | 2,54E-12 |
| GLUD2 | 4,370908 | 2,55E-12 |
| NRXN2 | 3,941501 | 2,60E-12 |
| ST3GAL2 | -3,73564 | 2,62E-12 |
| SALL2 | 11,21685 | 2,62E-12 |
| FAM222A- l | -5,39949 | 2,93E-12 |
| HOOK2 | 2,144808 | 2,95E-12 |
| ICA1 | 2,7244 | 2,97E-12 |
| TRIM15 | -5,74125 | 3,00E-12 |
| GRAMD1B | -11,527 | 3,05E-12 |
| GNE | -11,3374 | 3,06E-12 |
| KITLG | -2,74975 | 3,14E-12 |
| GNPDA2 | -3,07857 | 3,15E-12 |
| DLG4 | -3,73568 | 3,16E-12 |
| SLC25A22 | -2,32116 | 3,20E-12 |
| ZNF836 | 11,22624 | 3,28E-12 |
| PRNP | -2,92357 | 3,31E-12 |
| ZNF569 | 11,27038 | 3,33E-12 |
| EFHD1 | 4,834432 | 3,33E-12 |
| ZNF429 | 11,17207 | 3,44E-12 |
| CHN1 | 3,285688 | 3,46E-12 |
| ST6GAL1 | -3,88869 | 3,65E-12 |
| CRISPLD1 | 11,40441 | 3,73E-12 |
| EREG | -10,5891 | 3,80E-12 |
| SLC1A1 | -4,48019 | 3,83E-12 |
| RHBDF1 | 2,586804 | 3,84E-12 |
| ZNF681 | 11,13803 | 3,96E-12 |
| YAP1 | -2,18588 | 4,16E-12 |
| TFAP2A | 2,022446 | 4,20E-12 |
| WNT16 | -11,6391 | 4,20E-12 |
| STAMBPL1 | -4,69643 | 4,30E-12 |
| OR51B4 | -11,3375 | 4,30E-12 |
| SLC10A4 | -8,41543 | 4,30E-12 |
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| CABYR | 7,77318 | 4,67E-12 |
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| PPM1D | 2,764958 | 4,78E-12 |
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| ELOVL2 | 5,984108 | 5,02E-12 |
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| FKBP11 | 3,672787 | 5,52E-12 |
| KCNJ12 | -11,2463 | 5,52E-12 |
| PCP4 | 11,09588 | 5,69E-12 |
| TSPAN18 | -10,9152 | 5,97E-12 |
| RAPGEF5 | -3,47953 | 5,98E-12 |
| ADAM9 | -2,24415 | 6,36E-12 |

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| PTRF | -2,18849 | 6,42E-12 |
| PGM1 | -2,56053 | 6,49E-12 |
| CHD3 | 2,884938 | 6,54E-12 |
| DLC1 | 11,08037 | 6,64E-12 |
| PTPRM | -11,1105 | 6,92E-12 |
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| PDZD4 | 5,617185 | 7,23E-12 |
| ASCL4 | 11,04836 | 7,36E-12 |
| PKP1 | 5,01429 | 7,68E-12 |
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| HBEGF | -4,44605 | 8,11E-12 |
| KDM5B | 2,450383 | 8,22E-12 |
| CNTNAP3B | -6,95317 | 8,35E-12 |
| TCEAL1 | 11,08384 | 8,39E-12 |
| DEF6 | -2,35262 | 8,59E-12 |
| TUBA4A | -4,03402 | 8,61E-12 |
| OSBP2 | -2,35646 | 8,70E-12 |
| KCTD1 | 2,617638 | 8,70E-12 |
| C5 | 5,168708 | 8,85E-12 |
| HSD17B11 | -3,34304 | 8,89E-12 |
| TRIM33 | 2,014988 | 8,98E-12 |
| MAP9 | 11,05136 | 9,23E-12 |
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| FAM3A | 2,287626 | 9,29E-12 |
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| SH3RF2 | -4,49985 | 1,03E-11 |
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| ARHGDIG | 10,95255 | 1,16E-11 |
| ABCB1 | -5,4807 | 1,25E-11 |
| NRAS | 2,220258 | 1,25E-11 |
| SYN2 | -11,0478 | 1,28E-11 |
| RNF115 | 2,030407 | 1,32E-11 |
| OSMR | -2,97279 | 1,32E-11 |
| RASSF3 | -2,29011 | 1,33E-11 |
| FGF2 | -7,44999 | 1,34E-11 |
| CFD | -2,59558 | 1,36E-11 |
| CYTH2 | 2,043909 | 1,36E-11 |
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| FAM83F | -4,19593 | 1,40E-11 |
| HOXB7 | -2,41256 | 1,41E-11 |
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| TDRD1 | 10,9041 | 1,50E-11 |
| TUG1 | 2,067018 | 1,50E-11 |
| CCDC3 | -3,22255 | 1,51E-11 |
| EFS | 10,92228 | 1,52E-11 |
| PTP4A1 | -1,86041 | 1,54E-11 |
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| ZP3 | 2,690277 | 1,61E-11 |
| HMGA1 | -2,37136 | 1,67E-11 |
| EFR3B | 3,541953 | 1,76E-11 |

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| CRMP1 | 10,91431 | 1,80E-11 |
| ZNF718 | 10,87713 | 1,80E-11 |
| ITGB1 | -1,95023 | 1,81E-11 |
| ZNF215 | -11,175 | 1,82E-11 |
| ATP6V0E2 | 2,550738 | 1,82E-11 |
| PLEKHO1 | 3,115719 | 1,87E-11 |
| IL27RA | -2,4254 | 1,93E-11 |
| C16orf62 | -2,53191 | 1,96E-11 |
| ELL2 | -3,07486 | 2,01E-11 |
| FGFR2 | -2,64953 | 2,16E-11 |
| MEST | 2,213713 | 2,20E-11 |
| LDHA | -1,88176 | 2,23E-11 |
| CNPY4 | 3,793862 | 2,29E-11 |
| C2orf15 | 3,155564 | 2,32E-11 |
| CORO2B | -5,44413 | 2,33E-11 |
| ZKSCAN1 | 1,946109 | 2,37E-11 |
| HOXC11 | 5,559583 | 2,46E-11 |
| DOCK11 | 5,342834 | 2,51E-11 |
| HIST2H2BE | 3,957239 | 2,53E-11 |
| TSPEAR | 7,246436 | 2,56E-11 |
| RPS6KB1 | 2,270086 | 2,57E-11 |
| PAQR5 | -2,66229 | 2,62E-11 |
| SAMD5 | -10,8657 | 2,83E-11 |
| GUCY1A3 | 10,80245 | 2,90E-11 |
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| ZNF385B | -4,03924 | 3,21E-11 |
| SPATA17 | 3,203401 | 3,33E-11 |
| TDRD5 | 7,220216 | 3,44E-11 |
| FLJ10038 | 2,784476 | 3,59E-11 |
| CRAT | -3,59059 | 3,62E-11 |
| KCNK15 | 10,76651 | 3,76E-11 |
| DGKG | -8,21844 | 4,23E-11 |
| MDK | 1,878741 | 4,39E-11 |
| RGL3 | -5,19019 | 4,42E-11 |
| C5AR2 | 8,267219 | 4,47E-11 |
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| SEPN1 | -1,8717 | 4,67E-11 |
| C1QTNF9B | 4,072267 | 4,89E-11 |
| APH1A | 1,867201 | 4,93E-11 |
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| ANXA9 | 3,99016 | 5,03E-11 |
| TRIM9 | -5,57122 | 5,26E-11 |
| GTF2IRD2B | 3,039445 | 5,26E-11 |
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| THNSL2 | 10,7595 | 5,54E-11 |
| NOS3 | -4,75212 | 5,67E-11 |
| PLAGL1 | -3,1507 | 5,85E-11 |
| LINC00665 | 10,04574 | 5,96E-11 |
| FOXA3 | -10,7404 | 6,07E-11 |
| ZNF793 | 10,66373 | 6,08E-11 |

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| FAM174B | 10,26047 | 6,09E-11 |
| ZFP3 | 10,03441 | 6,13E-11 |
| GPC4 | -2,41442 | 6,25E-11 |
| CYB5R2 | -10,7272 | 6,61E-11 |
| NOD2 | -4,74765 | 6,65E-11 |
| STK33 | -10,9046 | 6,75E-11 |
| FRG1CP | -10,7184 | 6,76E-11 |
| HCG11 | 10,65442 | 7,18E-11 |
| GLI3 | 10,67472 | 7,20E-11 |
| RRAS | -3,51107 | 7,29E-11 |
| CYBRD1 | -10,6994 | 7,73E-11 |
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| TSPAN5 | -2,99294 | 8,18E-11 |
| DPP4 | -6,17432 | 8,24E-11 |
| MAP2K6 | 5,378467 | 8,31E-11 |
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| TCEAL4 | 2,23975 | 1,04E-10 |
| AMOT | 2,432876 | 1,09E-10 |
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| FGF12 | 10,61243 | 1,19E-10 |
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| ITPKA | -3,45364 | 1,34E-10 |
| NFAT5 | -2,40535 | 1,40E-10 |
| SYK | 2,381224 | 1,44E-10 |
| RERG | 5,562196 | 1,46E-10 |
| CHRM1 | 5,629867 | 1,52E-10 |
| HRH1 | -10,8233 | 1,53E-10 |
| FXD3 | 4,177195 | 1,53E-10 |
| FIS1 | 2,051355 | 1,53E-10 |
| FAM109B | 6,105245 | 1,54E-10 |
| ENPP1 | -4,1837 | 1,57E-10 |
| CACNA2D1 | 4,149972 | 1,60E-10 |
| PDE4A | -2,64381 | 1,62E-10 |
| LINC00941 | -10,9454 | 1,63E-10 |
| MCOLN2 | -4,04906 | 1,67E-10 |
| HOXA9 | -10,6713 | 1,68E-10 |
| ONECUT3 | -10,5921 | 1,69E-10 |
| SEC14L4 | -10,6095 | 1,72E-10 |
| FZD1 | 2,297711 | 1,75E-10 |
| TXNIP | 13,33574 | 1,82E-10 |
| RUSC2 | -2,85179 | 1,84E-10 |
| NETO2 | 2,188264 | 1,86E-10 |

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| PCDHB14 | 9,853789 | 1,87E-10 |
| ZNF606 | 10,53965 | 1,96E-10 |
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| CEACAM21 | 7,922992 | 2,09E-10 |
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| SPTB | -5,142 | 2,13E-10 |
| PER1 | -2,41182 | 2,17E-10 |
| FAM131C | -3,13684 | 2,21E-10 |
| PLXNA4 | 10,51262 | 2,27E-10 |
| TBX18 | -10,5103 | 2,30E-10 |
| ANKMY2 | -2,37594 | 2,36E-10 |
| C7orf50 | 2,046165 | 2,38E-10 |
| RORA | 9,776096 | 2,44E-10 |
| ABLIM3 | -3,25261 | 2,65E-10 |
| ZNF433 | 10,39398 | 2,70E-10 |
| SGCE | -10,4788 | 2,72E-10 |
| ANKH | -2,18062 | 2,74E-10 |
| ZNF513 | -4,36109 | 2,84E-10 |
| PTPRG-AS1 | 5,598335 | 2,88E-10 |
| SORBS3 | -1,89944 | 2,95E-10 |
| MIR100HG | -10,0955 | 3,07E-10 |
| MYRIP | 4,309292 | 3,08E-10 |
| TCEAL3 | 9,781142 | 3,12E-10 |
| CAMK2B | 5,118112 | 3,21E-10 |
| ZC4H2 | -7,87346 | 3,30E-10 |
| RNASEH2A | 1,991426 | 3,35E-10 |
| DLGAP3 | 5,835799 | 3,55E-10 |
| SCCPDH | 10,3586 | 3,56E-10 |
| TOX2 | -3,00156 | 3,58E-10 |
| FAM110C | -4,12397 | 3,59E-10 |
| FAHD2B | -3,22365 | 3,81E-10 |
| ODAM | 10,32209 | 3,92E-10 |
| PLCG1 | 2,323092 | 3,93E-10 |
| CDA | -10,5569 | 4,03E-10 |
| TGIF2 | 2,426455 | 4,26E-10 |
| ZMYND8 | 2,001815 | 4,29E-10 |
| EXO5 | 3,85125 | 4,40E-10 |
| PPP4R4 | -5,22528 | 4,40E-10 |
| SULT2B1 | 3,222378 | 4,51E-10 |
| EMP2 | 2,394297 | 4,53E-10 |
| ABCA7 | -2,22935 | 4,53E-10 |
| TIMP1 | -3,9747 | 4,54E-10 |
| C3orf52 | -4,93347 | 4,54E-10 |
| SDC2 | 9,662444 | 4,59E-10 |
| FAM53B | 2,224632 | 4,75E-10 |
| CACNA2D2 | -3,4203 | 4,96E-10 |
| HOXB3 | -7,1358 | 5,01E-10 |
| AGMAT | 10,3097 | 5,09E-10 |

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| ABHD6 | -2,92235 | 5,14E-10 |
| KMT2C | 1,916468 | 5,15E-10 |
| GAS6 | -2,46423 | 5,16E-10 |
| MB | 4,820228 | 5,20E-10 |
| KRT222 | -10,5566 | 5,22E-10 |
| LINC00857 | -7,87 | 5,25E-10 |
| CDC42BPA | -2,15169 | 5,34E-10 |
| OAF | -2,6213 | 5,37E-10 |
| SGSM1 | -6,06804 | 5,46E-10 |
| EFNA5 | 3,590871 | 5,46E-10 |
| VWDE | -4,06291 | 5,46E-10 |
| HEYL | -3,08809 | 5,50E-10 |
| AHR | 1,809939 | 5,63E-10 |
| SEC14L2 | -3,12474 | 5,76E-10 |
| TMEM173 | -6,05575 | 5,76E-10 |
| XBP1 | 2,856248 | 5,85E-10 |
| GSTM4 | 2,057406 | 5,99E-10 |
| PCDH7 | -2,52368 | 6,17E-10 |
| ARNTL2 | -2,6031 | 6,22E-10 |
| RDX | -1,98493 | 6,32E-10 |
| GRHL2 | 2,304149 | 6,34E-10 |
| P3H1 | -2,12499 | 6,48E-10 |
| LETM2 | -4,50214 | 6,82E-10 |
| PBXIP1 | 4,062461 | 7,02E-10 |
| C3orf18 | -4,65949 | 7,09E-10 |
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| CASC4 | -1,84239 | 7,20E-10 |
| DSCAM-AS | 12,86646 | 7,23E-10 |
| CROT | 10,47678 | 7,30E-10 |
| SERTAD2 | -2,09234 | 7,41E-10 |
| CSAG3 | -10,3762 | 7,74E-10 |
| CDC42SE1 | 1,893085 | 7,76E-10 |
| SFXN3 | -2,52453 | 7,96E-10 |
| TCN1 | -10,3158 | 8,12E-10 |
| AKR1C2 | 5,229524 | 8,12E-10 |
| CXCL16 | -2,01544 | 8,23E-10 |
| PPDPF | 2,06442 | 8,23E-10 |
| SH3RF1 | -2,70766 | 8,23E-10 |
| SLC8A1 | 10,18213 | 8,38E-10 |
| MESP1 | -6,33205 | 8,44E-10 |
| AIF1L | 1,880397 | 8,44E-10 |
| GDF15 | -3,53707 | 8,73E-10 |
| PGR | 10,72354 | 8,94E-10 |
| HTR1D | -3,93408 | 9,09E-10 |
| ANKIB1 | 1,849523 | 9,09E-10 |
| TRIOBP | -2,4532 | 9,26E-10 |
| PCDHA10 | 10,19271 | 9,37E-10 |
| RBMS2 | -2,7487 | 9,46E-10 |
| TWF2 | -1,88005 | 9,71E-10 |
| EDN1 | 4,679466 | 9,96E-10 |

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| ZNF420 | 10,18213 | 1,04E-09 |
| MANSC1 | 9,598229 | 1,04E-09 |
| SYNE1 | -4,44583 | 1,05E-09 |
| ENSA | 1,939353 | 1,07E-09 |
| BTG3 | -3,01966 | 1,09E-09 |
| ITPRIPL1 | -9,92222 | 1,09E-09 |
| WDR72 | 2,399273 | 1,09E-09 |
| SNX9 | -1,91127 | 1,10E-09 |
| ZFPM2-AS1 | -10,2552 | 1,11E-09 |
| MEIS2 | -5,90482 | 1,12E-09 |
| NR1D1 | -2,39084 | 1,18E-09 |
| AP4E1 | 2,117218 | 1,18E-09 |
| ITPRIPL2 | -2,38329 | 1,18E-09 |
| POLE4 | 2,293708 | 1,18E-09 |
| ALOX15 | 9,914015 | 1,20E-09 |
| TRIP6 | 1,784935 | 1,20E-09 |
| LINC00839 | -10,327 | 1,21E-09 |
| FRAT2 | 3,705513 | 1,22E-09 |
| CDIP1 | -10,2092 | 1,27E-09 |
| ZNF783 | 2,562534 | 1,30E-09 |
| GALNT16 | 10,25475 | 1,32E-09 |
| CCDC92 | 2,854919 | 1,34E-09 |
| MFI2 | -2,56038 | 1,36E-09 |
| STARD13 | 2,646804 | 1,46E-09 |
| HOXB5 | -10,2536 | 1,46E-09 |
| RIN3 | -2,65944 | 1,48E-09 |
| ZNF362 | 2,599538 | 1,55E-09 |
| STXBP6 | 6,178001 | 1,55E-09 |
| SPRED2 | -1,80989 | 1,56E-09 |
| TTC9 | 2,592793 | 1,58E-09 |
| AARD | 10,06503 | 1,62E-09 |
| ZNF117 | 2,807851 | 1,62E-09 |
| SH2D5 | -3,40676 | 1,64E-09 |
| EZR | -2,026 | 1,65E-09 |
| WSCD1 | 10,08866 | 1,65E-09 |
| RAD51C | 1,814054 | 1,67E-09 |
| NR4A2 | -3,12812 | 1,68E-09 |
| SHISA9 | 10,10757 | 1,73E-09 |
| VTI1B | 2,018681 | 1,78E-09 |
| C7orf13 | 3,811607 | 1,79E-09 |
| ZNF287 | 10,03735 | 1,86E-09 |
| ZNF570 | 10,04642 | 1,86E-09 |
| TSHZ3 | 10,4942 | 1,88E-09 |
| P2RY6 | 8,627831 | 1,90E-09 |
| ERBB4 | 6,180831 | 1,96E-09 |
| GADD45G | 4,633238 | 1,97E-09 |
| HPDL | 10,03728 | 1,98E-09 |
| TDG | 1,744736 | 1,99E-09 |
| GUSBP1 | 5,011143 | 2,02E-09 |
| ZNF256 | 10,02653 | 2,02E-09 |

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| VLDLR | 10,4626 | 2,04E-09 |
| NKAIN1 | 3,162889 | 2,05E-09 |
| EHD3 | 10,10059 | 2,05E-09 |
| ZNF688 | 3,280347 | 2,06E-09 |
| INPP5F | -2,04873 | 2,09E-09 |
| PPAP2C | -1,8989 | 2,17E-09 |
| BLVRA | 2,100931 | 2,20E-09 |
| SASH1 | -3,19627 | 2,20E-09 |
| ASPHD2 | -2,91914 | 2,22E-09 |
| FOXRED2 | 2,011704 | 2,25E-09 |
| ADGRL2 | 6,678928 | 2,29E-09 |
| HNF1B | -10,1716 | 2,29E-09 |
| PCDHA12 | 10,05006 | 2,30E-09 |
| ERI1 | -1,85543 | 2,33E-09 |
| KHDRBS3 | -5,43735 | 2,36E-09 |
| DAB2 | -5,11286 | 2,36E-09 |
| TMEM180 | -2,27574 | 2,37E-09 |
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| ITPKB | 2,659777 | 2,44E-09 |
| PLEKHF2 | 2,113913 | 2,44E-09 |
| PRDM4 | 1,894095 | 2,51E-09 |
| DEPDC7 | -10,0856 | 2,56E-09 |
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| C2orf68 | 2,25322 | 2,58E-09 |
| PLCB3 | -1,85191 | 2,58E-09 |
| FAM71E1 | -10,0851 | 2,58E-09 |
| TMEM229E | 3,881488 | 2,60E-09 |
| MAP4K2 | -2,18615 | 2,62E-09 |
| PRDX2 | 1,791747 | 2,65E-09 |
| GNAS | 1,643304 | 2,69E-09 |
| PCSK6 | 2,73556 | 2,72E-09 |
| NSUN7 | 9,971846 | 2,75E-09 |
| LINC00460 | -10,1672 | 2,77E-09 |
| GJB2 | -2,93443 | 2,88E-09 |
| MAZ | 1,736031 | 2,88E-09 |
| ETHE1 | -2,57736 | 2,90E-09 |
| MYLIP | 2,813805 | 2,90E-09 |
| SRPX2 | -10,1111 | 2,93E-09 |
| USH1C | -9,65535 | 2,97E-09 |
| FAM179B | 3,257734 | 3,05E-09 |
| DEGS2 | 4,932816 | 3,08E-09 |
| AP4M1 | 2,203673 | 3,11E-09 |
| ZNF514 | 2,619152 | 3,11E-09 |
| ZNF682 | 9,942601 | 3,17E-09 |
| SLC12A4 | -3,7301 | 3,30E-09 |
| GRK5 | -3,20683 | 3,31E-09 |
| ZNF841 | 9,260573 | 3,32E-09 |
| TLR6 | -10,035 | 3,40E-09 |
| PNMA1 | 2,13076 | 3,43E-09 |
| A1BG-AS1 | 9,941424 | 3,45E-09 |

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| GOLGA8B | -4,00872 | 3,45E-09 |
| GNAL | -3,22038 | 3,54E-09 |
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| PLA2G7 | -10,037 | 3,63E-09 |
| PAQR3 | -2,13648 | 3,74E-09 |
| MYOM3 | -10,2031 | 3,79E-09 |
| TYSND1 | 2,027593 | 3,84E-09 |
| ALDH6A1 | 2,261391 | 3,95E-09 |
| LYPD1 | 6,716244 | 3,97E-09 |
| TFF3 | 9,93152 | 4,03E-09 |
| DDX60L | -2,98527 | 4,18E-09 |
| MAN1A1 | -2,27309 | 4,18E-09 |
| ITM2C | -2,38583 | 4,30E-09 |
| SETMAR | 2,228544 | 4,30E-09 |
| SOX2 | 9,224737 | 4,34E-09 |
| TDRKH | 2,947813 | 4,45E-09 |
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| C18orf63 | 9,924395 | 4,45E-09 |
| STXBP1 | -1,97841 | 4,47E-09 |
| RASL11B | 9,221306 | 4,54E-09 |
| RAB11FIP5 | -3,00058 | 4,61E-09 |
| NCKAP5 | 5,526153 | 4,71E-09 |
| GRAMD2 | -10,0555 | 4,84E-09 |
| TNFSF9 | -3,81411 | 4,87E-09 |
| GALC | 9,956345 | 4,98E-09 |
| CPD | -1,94309 | 5,00E-09 |
| HSD17B12 | -1,75029 | 5,04E-09 |
| NMNAT2 | 9,886784 | 5,15E-09 |
| FAM214A | 3,940034 | 5,19E-09 |
| SHROOM2 | -2,44359 | 5,19E-09 |
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| CHPT1 | 2,382204 | 5,33E-09 |
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| ETV1 | -9,51568 | 5,56E-09 |
| SMIM3 | -2,26626 | 5,60E-09 |
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| TMEM56 | -2,72315 | 6,03E-09 |
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| SSTR5 | -9,92169 | 6,49E-09 |
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| TMEM151 | -3,93421 | 6,69E-09 |
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| ALAS1 | -1,91799 | 7,15E-09 |

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| LAMA2 | -4,1632 | 7,36E-09 |
| SLC24A3 | 9,779913 | 7,64E-09 |
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| TLE3 | 1,633884 | 9,08E-09 |
| HPN | 9,114277 | 9,21E-09 |
| CGN | 2,08862 | 9,23E-09 |
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| ZNF747 | 2,644983 | 9,43E-09 |
| ACOX2 | -6,94886 | 9,86E-09 |
| FKBP10 | 1,781273 | 9,91E-09 |
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| SLC6A8 | -2,47343 | 9,99E-09 |
| CPVL | -4,14445 | 1,02E-08 |
| RDH10 | -2,79265 | 1,02E-08 |
| FUT8 | 1,975949 | 1,02E-08 |
| CCAT1 | -9,97463 | 1,03E-08 |
| PAM | -2,06329 | 1,03E-08 |
| PLEKHA2 | -2,55742 | 1,06E-08 |
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| TRPM7 | 2,312427 | 1,10E-08 |
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| TTC30B | 4,551786 | 1,14E-08 |
| GSTA4 | 4,104191 | 1,14E-08 |
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| EXOC4 | 1,892986 | 1,18E-08 |
| C21orf33 | 2,00481 | 1,19E-08 |
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| ACOT11 | -3,73568 | 1,21E-08 |
| SNX7 | -3,19604 | 1,23E-08 |
| AP4B1 | 2,163967 | 1,24E-08 |
| TNFSF12 | -9,80701 | 1,25E-08 |
| C1orf233 | 2,740595 | 1,27E-08 |
| FAM89A | -3,36446 | 1,27E-08 |
| SLAIN1 | 9,752107 | 1,28E-08 |

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| DGKD | -2,05299 | 1,29E-08 |
| ZNF732 | 9,775242 | 1,31E-08 |
| C12orf56 | 9,686908 | 1,32E-08 |
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| CENPB | 1,82637 | 1,35E-08 |
| EPHA6 | 9,674417 | 1,36E-08 |
| SERINC2 | -2,6526 | 1,44E-08 |
| RASGRP2 | -4,37511 | 1,44E-08 |
| RABGGTB | -1,76775 | 1,44E-08 |
| MAGEH1 | 9,717176 | 1,45E-08 |
| CAMK4 | -4,09892 | 1,48E-08 |
| SPESP1 | 9,043149 | 1,51E-08 |
| RNF157 | 4,518528 | 1,51E-08 |
| TPBG | 1,78918 | 1,52E-08 |
| ARL14EPL | -10,0916 | 1,56E-08 |
| PHAX | 1,667411 | 1,56E-08 |
| SYT12 | 3,200889 | 1,57E-08 |
| SLC26A4-A' | 9,647384 | 1,58E-08 |
| BATF | 9,749078 | 1,58E-08 |
| MAFG | -1,8236 | 1,58E-08 |
| CD274 | -6,77598 | 1,59E-08 |
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| JPH3 | 6,439798 | 1,63E-08 |
| RGS10 | -1,81359 | 1,64E-08 |
| ZNF486 | 7,302662 | 1,64E-08 |
| EFNA4 | 1,984843 | 1,66E-08 |
| ASCL1 | 9,739251 | 1,68E-08 |
| CYP2J2 | 3,341183 | 1,72E-08 |
| CXCL12 | 9,645271 | 1,72E-08 |
| ANKRD18B | 9,650536 | 1,72E-08 |
| ADGRE5 | -2,3827 | 1,75E-08 |
| DDX3Y | -9,79609 | 1,75E-08 |
| SEL1L3 | -1,89135 | 1,75E-08 |
| TRMT2B | 2,140339 | 1,75E-08 |
| TRHDE | -9,93298 | 1,92E-08 |
| CHST10 | 9,101843 | 1,93E-08 |
| NMU | -2,25717 | 1,97E-08 |
| DCBLD1 | -2,38764 | 1,98E-08 |
| ASRGL1 | -2,30575 | 1,99E-08 |
| FUT4 | -2,87907 | 2,01E-08 |
| GAS7 | -7,47853 | 2,05E-08 |
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| DECR2 | 2,091113 | 2,27E-08 |
| RNF141 | -2,35303 | 2,27E-08 |
| ANKRD19P | -9,79436 | 2,27E-08 |
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| NEDD4L | -2,19001 | 2,34E-08 |

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| MYO5C | 1,87486 | 2,37E-08 |
| TSPAN13 | 2,046396 | 2,38E-08 |
| CHST8 | 9,555086 | 2,55E-08 |
| LINC00052 | 9,925515 | 2,59E-08 |
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| ZNF175 | -9,6982 | 2,66E-08 |
| CECR2 | -3,91673 | 2,72E-08 |
| PLCL2 | -5,91234 | 2,77E-08 |
| ELOVL3 | -6,58948 | 2,77E-08 |
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| SDK1 | 7,223527 | 3,23E-08 |
| EPN3 | 2,67355 | 3,33E-08 |
| BCAR1 | 2,253433 | 3,34E-08 |
| CHGA | 8,803906 | 3,39E-08 |
| ME2 | -1,73458 | 3,39E-08 |
| MSN | -9,63986 | 3,44E-08 |
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| ADI1 | 2,141894 | 3,48E-08 |
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| ADAP1 | -2,17598 | 3,60E-08 |
| KSR1 | -2,74078 | 3,72E-08 |
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| HKR1 | 2,24124 | 3,83E-08 |
| RGL2 | 1,935081 | 3,90E-08 |
| ZNF529 | 9,477409 | 3,91E-08 |
| CRACR2B | 2,833831 | 4,07E-08 |
| CACNB4 | -4,77269 | 4,08E-08 |
| CLN6 | 1,727275 | 4,10E-08 |
| DAAM1 | 2,301614 | 4,12E-08 |
| ZNF738 | 2,345098 | 4,12E-08 |
| HKDC1 | -7,31257 | 4,29E-08 |
| SYT13 | -4,87105 | 4,30E-08 |
| ACSS1 | 9,525366 | 4,31E-08 |
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| PLK2 | -2,45119 | 4,34E-08 |
| EDNRA | -9,59826 | 4,40E-08 |

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| NOVA1 | 9,512227 | 4,44E-08 |
| TBCK | 1,936815 | 4,49E-08 |
| LRRC75B | 3,103118 | 4,51E-08 |
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| ECHDC1 | -1,96399 | 4,83E-08 |
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| ERVMER34 | -2,52862 | 4,91E-08 |
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| DDX10 | -1,69015 | 5,08E-08 |
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| TMX3 | -1,95153 | 5,29E-08 |
| METTL9 | 1,708945 | 5,31E-08 |
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| ZNF85 | 3,03658 | 5,43E-08 |
| NPM2 | -9,5451 | 5,45E-08 |
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| ZNF480 | 1,960362 | 5,49E-08 |
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| RAB37 | -9,63633 | 5,70E-08 |
| ADGRG5 | -9,54377 | 5,71E-08 |
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| SCARB2 | 1,717776 | 5,75E-08 |
| A1BG | 5,288871 | 5,77E-08 |
| BEND5 | 9,441253 | 5,82E-08 |
| BACH1 | -2,12541 | 5,98E-08 |
| MALRD1 | 9,524656 | 6,03E-08 |
| CBLB | 2,239312 | 6,03E-08 |
| DNER | -6,62186 | 6,14E-08 |
| HOOK3 | -1,98628 | 6,18E-08 |
| ARMCX6 | 2,024245 | 6,20E-08 |
| ZMYND11 | 1,946272 | 6,22E-08 |
| PRSS8 | 1,913119 | 6,34E-08 |
| RFTN1 | -3,27317 | 6,37E-08 |
| MRPS25 | 1,743917 | 6,52E-08 |
| SH2D4A | -1,873 | 6,74E-08 |
| KIAA1549 | 2,032946 | 6,80E-08 |
| DISP2 | -7,25807 | 6,93E-08 |
| AMN1 | -2,5042 | 7,03E-08 |
| ANXA2 | -1,48404 | 7,13E-08 |
| EFHD2 | -1,83665 | 7,16E-08 |
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| RBPMS2 | -2,34354 | 7,36E-08 |
| FAM195A | 1,754915 | 7,41E-08 |
| CTSF | 9,406006 | 7,42E-08 |
| NUDT16P1 | -9,50787 | 7,50E-08 |

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| PCDHB6 | 9,391271 | 7,52E-08 |
| LUCAT1 | -5,503 | 7,52E-08 |
| SDC4 | -2,95833 | 7,55E-08 |
| CCT8 | -1,46849 | 7,56E-08 |
| ASS1 | 2,957946 | 7,56E-08 |
| TTC28 | 4,016185 | 7,61E-08 |
| CADPS2 | -4,51254 | 7,61E-08 |
| FAM124A | -4,60249 | 7,73E-08 |
| LIN7C | -1,97813 | 7,89E-08 |
| TMEM183 | 1,653863 | 7,90E-08 |
| ZNF347 | 8,699581 | 8,01E-08 |
| HECW1 | -9,4763 | 8,03E-08 |
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| ITFG3 | 2,099152 | 8,11E-08 |
| KCNQ1 | -3,79296 | 8,16E-08 |
| OSBPL5 | -1,97249 | 8,18E-08 |
| WWOX | 2,059285 | 8,22E-08 |
| SLC22A23 | 1,63803 | 8,26E-08 |
| RAB30 | 2,281207 | 8,33E-08 |
| CECR7 | -7,24748 | 8,33E-08 |
| GSTZ1 | 2,141121 | 8,39E-08 |
| YIF1A | 1,762522 | 8,45E-08 |
| TBX2-AS1 | 7,109945 | 8,56E-08 |
| ATP8B3 | -4,81593 | 8,63E-08 |
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| NF1 | 1,965234 | 9,03E-08 |
| PRICKLE2 | 10,51538 | 9,06E-08 |
| MEIS3P1 | 8,661691 | 9,07E-08 |
| JAK1 | -1,7092 | 9,13E-08 |
| CHRM3 | 9,315749 | 9,25E-08 |
| SLC25A24 | 1,681187 | 9,38E-08 |
| CCL2 | 9,538318 | 9,62E-08 |
| ARPP19 | 1,538054 | 9,63E-08 |
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| HLA-C | -3,12473 | 9,73E-08 |
| ZNF710 | 1,873154 | 9,76E-08 |
| PTPRE | -3,65169 | 9,79E-08 |
| XPNPEP1 | -1,77098 | 9,86E-08 |
| NYAP1 | -4,17569 | 9,86E-08 |
| GLT8D2 | -9,50065 | 1,01E-07 |
| PIK3CD | -3,41553 | 1,01E-07 |
| SH3BP5 | 1,714315 | 1,04E-07 |
| NLRC5 | -4,13293 | 1,05E-07 |
| OR51B2 | -9,4242 | 1,06E-07 |
| C19orf43 | 1,456915 | 1,06E-07 |
| SIDT1 | 8,610801 | 1,07E-07 |

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| TEX15 | 9,284698 | 1,08E-07 |
| CASP6 | 1,926381 | 1,09E-07 |
| TNFSF13 | 5,758712 | 1,09E-07 |
| TNFRSF10B | -2,61686 | 1,10E-07 |
| CKMT1A | 2,355711 | 1,10E-07 |
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| PAX6 | -9,45952 | 1,11E-07 |
| UNC5A | -2,71415 | 1,11E-07 |
| NYNRIN | 6,260787 | 1,11E-07 |
| SLC39A14 | -2,34903 | 1,12E-07 |
| TMC8 | -4,19618 | 1,12E-07 |
| ALDH5A1 | 2,111923 | 1,13E-07 |
| LINC01004 | 3,927868 | 1,15E-07 |
| GTF3A | 1,733543 | 1,15E-07 |
| PSD4 | 2,149147 | 1,16E-07 |
| APRT | 1,665382 | 1,17E-07 |
| PCDHB9 | 8,566209 | 1,18E-07 |
| GRIN2B | -9,73315 | 1,19E-07 |
| PLCH1 | 1,835688 | 1,19E-07 |
| SLITRK4 | 9,311774 | 1,19E-07 |
| FRAS1 | -1,84247 | 1,21E-07 |
| SAMD3 | -9,39986 | 1,22E-07 |
| HSPB1 | 1,741955 | 1,24E-07 |
| RUNX1 | -1,89485 | 1,27E-07 |
| HLA-DRA | -9,56206 | 1,28E-07 |
| FOXO3 | -2,12285 | 1,32E-07 |
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| LINC01116 | 9,235918 | 1,41E-07 |
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| DARS2 | 1,668677 | 1,42E-07 |
| ADAT1 | 1,69774 | 1,45E-07 |
| ZNF568 | 9,43699 | 1,47E-07 |
| PCDHGB5 | 9,2236 | 1,49E-07 |
| RMI2 | 2,188479 | 1,50E-07 |
| RNLS | 8,523526 | 1,51E-07 |
| C5orf42 | -9,36039 | 1,51E-07 |
| AASS | -9,38713 | 1,51E-07 |
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| WDR17 | 9,217789 | 1,55E-07 |
| ADAMTSL5 | -2,47271 | 1,56E-07 |
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| SLC38A2 | -2,00339 | 1,61E-07 |
| LINC01128 | -2,39993 | 1,61E-07 |
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| MKRN3 | -9,40991 | 1,65E-07 |
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| AKAP9 | 1,927959 | 1,66E-07 |
| LYSMD1 | 2,272687 | 1,66E-07 |
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| AGPAT4 | -3,49739 | 1,82E-07 |
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| NFIL3 | -3,63209 | 1,86E-07 |
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| RTN4RL1 | 2,50351 | 1,91E-07 |
| TBC1D8B | -3,11373 | 1,92E-07 |
| GABPB1 | 2,100995 | 1,92E-07 |
| SULT4A1 | -9,33294 | 1,94E-07 |
| TIPARP | -1,77041 | 1,94E-07 |
| MORC4 | -1,63007 | 1,96E-07 |
| SCARA3 | -2,0367 | 1,97E-07 |
| BMP4 | -3,07711 | 1,99E-07 |
| NUDT4 | 1,822538 | 2,01E-07 |
| TMPRSS2 | 9,233351 | 2,07E-07 |
| COL9A3 | -2,26361 | 2,08E-07 |
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| NHSL1 | -1,88585 | 3,48E-06 |
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| AEBP1 | 8,651378 | 3,96E-06 |
| MRAS | -2,05583 | 3,97E-06 |
| MCCC1 | 1,776943 | 3,97E-06 |
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| RAC3 | -1,66158 | 3,98E-06 |
| ARFGAP2 | 1,438499 | 4,00E-06 |
| GBAP1 | 2,487141 | 4,05E-06 |
| PDZD7 | -3,58458 | 4,15E-06 |
| TJP3 | 2,283568 | 4,26E-06 |
| FHDC1 | 2,673241 | 4,36E-06 |
| ITFG2 | 2,3151 | 4,38E-06 |
| SLC38A6 | 3,108874 | 4,49E-06 |
| H2AFJ | 2,340529 | 4,51E-06 |
| FBXO31 | 1,411238 | 4,65E-06 |
| TUBE1 | -2,38096 | 4,69E-06 |
| ASAH2 | 3,057955 | 4,70E-06 |
| CBX5 | 2,197094 | 4,71E-06 |
| STUB1 | 1,388227 | 4,75E-06 |
| LPCAT4 | -2,21232 | 4,76E-06 |
| SLC44A2 | 1,385557 | 4,83E-06 |
| TPTE | 8,573038 | 4,83E-06 |
| PGBD5 | 5,649867 | 4,85E-06 |
| TCF7L1 | -1,93949 | 4,88E-06 |
| HBA1 | 5,48991 | 4,93E-06 |
| CHUK | -1,57485 | 5,00E-06 |
| C17orf58 | -2,01668 | 5,00E-06 |

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| ADAMTS19 | 8,54891 | 5,00E-06 |
| MTCL1 | -2,04216 | 5,03E-06 |
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| PI4KB | 1,499853 | 5,08E-06 |
| COMMD7 | 1,641913 | 5,09E-06 |
| PYCR1 | 1,635283 | 5,17E-06 |
| ZNF32 | 1,871537 | 5,21E-06 |
| CABLES1 | 1,992999 | 5,21E-06 |
| OAS1 | 6,233914 | 5,39E-06 |
| HOXD8 | -3,6337 | 5,44E-06 |
| FGFBP1 | -8,81414 | 5,44E-06 |
| ALKBH4 | 1,702681 | 5,54E-06 |
| PXK | -2,8654 | 5,55E-06 |
| RASSF8 | 2,033504 | 5,60E-06 |
| ZNF10 | 8,52212 | 5,60E-06 |
| CASC9 | 2,861135 | 5,67E-06 |
| NOCT | -1,76166 | 5,67E-06 |
| MAN2B1 | 1,521365 | 5,73E-06 |
| PLXNB3 | 2,225389 | 5,74E-06 |
| SMAD6 | 2,823018 | 5,77E-06 |
| LRRC37A3 | 2,692554 | 5,79E-06 |
| CD8A | 3,701627 | 5,81E-06 |
| LRRN1 | 6,557419 | 5,81E-06 |
| LMBRD2 | 3,333561 | 5,85E-06 |
| TAF6 | 1,374451 | 5,94E-06 |
| ZBTB18 | -4,17612 | 6,04E-06 |
| CENPV | -2,55815 | 6,16E-06 |
| CBARP | -2,26687 | 6,17E-06 |
| RCBTB1 | -1,66115 | 6,25E-06 |
| PRICKLE2-A | 8,516266 | 6,25E-06 |
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| NHLRC1 | 8,664189 | 6,27E-06 |
| LINC01132 | 8,735969 | 6,30E-06 |
| GRIK3 | 8,727538 | 6,34E-06 |
| LRCH4 | 1,442354 | 6,54E-06 |
| ATAD3B | -2,27975 | 6,57E-06 |
| BMP1 | -1,60122 | 6,68E-06 |
| ARHGAP26 | -2,75068 | 6,70E-06 |
| RRAS2 | -1,673 | 6,73E-06 |
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| SARM1 | 3,675925 | 6,81E-06 |
| FITM2 | 2,03763 | 6,81E-06 |
| MB21D1 | 8,501188 | 6,82E-06 |
| BANK1 | -8,00947 | 6,94E-06 |
| PORCN | -2,30748 | 6,96E-06 |
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| DYNC2H1 | 2,298876 | 6,98E-06 |
| KCNN2 | 8,477195 | 7,06E-06 |
| NEK11 | 2,836691 | 7,08E-06 |
| PCDHA13 | 8,48192 | 7,08E-06 |

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| ADAMTS9 | 8,767127 | 7,18E-06 |
| GATA2 | -2,3761 | 7,29E-06 |
| TMEM74B | -8,01986 | 7,40E-06 |
| SRPK2 | 1,492042 | 7,42E-06 |
| APP | -1,26073 | 7,43E-06 |
| SNORD25 | -3,55195 | 7,50E-06 |
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| NSDHL | 1,435904 | 7,67E-06 |
| SNAI2 | -8,8722 | 7,75E-06 |
| IFT22 | 1,771363 | 7,85E-06 |
| PCSK9 | -2,79942 | 7,90E-06 |
| ATXN1L | 1,558516 | 7,91E-06 |
| FRS2 | 1,870783 | 7,95E-06 |
| RILPL2 | -2,73865 | 8,01E-06 |
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| FGFRL1 | -1,42863 | 8,12E-06 |
| PRTG | 8,445683 | 8,33E-06 |
| NDST1 | 1,904488 | 8,46E-06 |
| IFNLR1 | -2,3979 | 8,47E-06 |
| TMEM206 | -2,1491 | 8,49E-06 |
| MYBL2 | 1,271319 | 8,58E-06 |
| ELOVL4 | 8,577448 | 8,63E-06 |
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| COX5B | 1,272279 | 8,70E-06 |
| SLC18B1 | -1,8234 | 8,71E-06 |
| DNAJC24 | -1,95621 | 8,75E-06 |
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| SIKE1 | 1,335795 | 8,87E-06 |
| PIM2 | -1,75776 | 8,92E-06 |
| PMVK | 1,834344 | 9,04E-06 |
| RHOB | 1,507428 | 9,04E-06 |
| PDX1 | -8,60277 | 9,10E-06 |
| CBX7 | -3,14221 | 9,15E-06 |
| ECH1 | 1,501929 | 9,16E-06 |
| F2R | -1,72413 | 9,16E-06 |
| MTA2 | 1,252611 | 9,29E-06 |
| ZNF212 | 1,855906 | 9,29E-06 |
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| RIT1 | 2,310416 | 9,40E-06 |
| CCDC83 | 8,479962 | 9,46E-06 |
| MICAL1 | -2,15841 | 9,56E-06 |
| WISP2 | 9,043356 | 9,56E-06 |
| DSCAM | 8,543961 | 9,62E-06 |
| SP100 | -3,77314 | 9,71E-06 |
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| LINC01138 | -6,55047 | 9,95E-06 |
| IL15RA | -2,83076 | 1,00E-05 |

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| SSR2 | 1,468823 | 1,00E-05 |
| SH3YL1 | 1,591226 | 1,01E-05 |
| MRPL41 | 1,388165 | 1,02E-05 |
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| ELFN1 | -3,32746 | 1,02E-05 |
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| COA3 | 1,864689 | 1,04E-05 |
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| EPHB4 | 1,610479 | 1,07E-05 |
| DACH1 | 8,390247 | 1,08E-05 |
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| AP1S1 | 2,023872 | 1,09E-05 |
| COL5A1 | 7,73084 | 1,09E-05 |
| MCCC2 | 1,509625 | 1,10E-05 |
| AMIGO1 | 7,585775 | 1,11E-05 |
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| AREG | -5,38531 | 1,12E-05 |
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| ROBO3 | -2,85107 | 1,14E-05 |
| EXTL3 | -1,57311 | 1,14E-05 |
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| MEGF11 | -5,44611 | 1,15E-05 |
| C2orf88 | -7,86852 | 1,15E-05 |
| IRAK1 | 1,290983 | 1,15E-05 |
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| FNTA | -1,49621 | 1,18E-05 |
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| SMARCA4 | 1,575913 | 1,19E-05 |
| ZNF107 | 1,64141 | 1,19E-05 |
| FAM63B | -2,7185 | 1,20E-05 |
| WRAP73 | -1,96632 | 1,20E-05 |
| FOXD1 | -3,37404 | 1,20E-05 |
| MT2A | -2,50931 | 1,20E-05 |
| PLA2G4A | -4,32246 | 1,21E-05 |
| DUSP16 | 1,641096 | 1,21E-05 |
| FKBP1B | -3,22683 | 1,22E-05 |
| HLA-H | -6,49322 | 1,22E-05 |
| FMO5 | 8,363107 | 1,24E-05 |
| LRRFIP1 | -1,27487 | 1,24E-05 |
| CSRNP1 | -2,7327 | 1,25E-05 |
| PRDM16 | -3,02287 | 1,28E-05 |
| CDK6 | -3,07552 | 1,28E-05 |
| FXD1 | -5,42851 | 1,30E-05 |
| EFNA2 | -2,17101 | 1,31E-05 |

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| SLC39A1 | 1,788782 | 1,33E-05 |
| CRLF1 | -2,26578 | 1,34E-05 |
| PLA2G3 | 8,623793 | 1,34E-05 |
| STMN3 | -1,42731 | 1,35E-05 |
| LTK | -7,83331 | 1,35E-05 |
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| UPK1A-AS1 | -6,62941 | 1,37E-05 |
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| S100P | 5,771672 | 1,37E-05 |
| SEPHS1 | 1,483667 | 1,37E-05 |
| CYP4F11 | -2,2902 | 1,38E-05 |
| C1RL-AS1 | -8,53559 | 1,39E-05 |
| MT1X | -2,28556 | 1,40E-05 |
| BLACAT1 | -4,35168 | 1,40E-05 |
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| ZIC4 | 8,335446 | 1,42E-05 |
| LOC90768 | 8,355633 | 1,42E-05 |
| NPR2 | -7,99235 | 1,43E-05 |
| NUMA1 | 1,251075 | 1,43E-05 |
| TRIM56 | 1,72109 | 1,45E-05 |
| PRDM1 | -6,48424 | 1,46E-05 |
| STAT4 | -6,69513 | 1,46E-05 |
| EFR3A | -1,71022 | 1,47E-05 |
| NIPSNAP3A | 2,318927 | 1,48E-05 |
| NAB1 | -1,88504 | 1,48E-05 |
| TLR3 | -8,59153 | 1,48E-05 |
| SRGAP2D | -2,35094 | 1,49E-05 |
| MICAL2 | -1,94599 | 1,49E-05 |
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| PDZRN3 | 8,32228 | 1,51E-05 |
| MYL12B | 1,279992 | 1,51E-05 |
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| MAP10 | 8,379677 | 1,52E-05 |
| ARSD | 1,989769 | 1,52E-05 |
| STEAP2 | -8,3324 | 1,53E-05 |
| PQLC1 | -1,4845 | 1,53E-05 |
| RPP40 | 1,624519 | 1,54E-05 |
| WDR83 | 1,669967 | 1,55E-05 |
| BMP8B | -2,20983 | 1,56E-05 |
| PCLO | 2,272117 | 1,56E-05 |
| ROGDI | 1,947309 | 1,57E-05 |
| CRYM | -7,9214 | 1,57E-05 |
| RHOV | 2,206321 | 1,57E-05 |
| SNRNP48 | -1,36988 | 1,58E-05 |
| ANKDD1A | -4,42063 | 1,60E-05 |

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| MPP5 | 1,474774 | 1,62E-05 |
| HNRNPAB | 1,20613 | 1,62E-05 |
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| HMGN1 | 1,245043 | 1,65E-05 |
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| RRAGD | -2,04482 | 1,73E-05 |
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| SH2D3A | -1,89923 | 1,75E-05 |
| VPS72 | 1,676568 | 1,77E-05 |
| ATP5G2 | 1,274874 | 1,78E-05 |
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| CDON | -2,46998 | 1,81E-05 |
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| KLHL15 | -2,03968 | 1,85E-05 |
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| GLRX | -3,79997 | 1,88E-05 |
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| SETDB1 | 1,607248 | 1,92E-05 |
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| QPCT | 8,344938 | 1,97E-05 |
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| DNM3 | -4,37019 | 2,03E-05 |
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| GSR | -1,51095 | 2,09E-05 |
| RPL17 | 1,576593 | 2,10E-05 |
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| ABHD16A | 1,441088 | 2,11E-05 |
| MLYCD | 1,815852 | 2,13E-05 |
| EEPD1 | -3,13046 | 2,13E-05 |
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| COL4A4 | -3,22265 | 2,14E-05 |
| ZNF701 | 1,853952 | 2,15E-05 |
| HIP1R | -1,34167 | 2,15E-05 |
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| RECQL4 | -1,47208 | 2,17E-05 |
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| ATG16L1 | -1,40178 | 2,19E-05 |
| RASL10B | 8,260485 | 2,22E-05 |
| TNFRSF10C | -8,47286 | 2,23E-05 |

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| JAZF1 | -3,71489 | 2,27E-05 |
| LYNX1 | -8,42598 | 2,28E-05 |
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| TNPO2 | 1,735335 | 2,28E-05 |
| CDCA3 | 1,469299 | 2,31E-05 |
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| TMOD1 | -2,82903 | 2,33E-05 |
| GADD45A | -2,50411 | 2,33E-05 |
| SAP130 | 1,261294 | 2,35E-05 |
| HIPK2 | -1,76703 | 2,35E-05 |
| DVL1 | -1,38883 | 2,36E-05 |
| FES | -2,39117 | 2,36E-05 |
| KRTAP3-1 | 4,625566 | 2,36E-05 |
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| SMARCD3 | -1,81647 | 2,41E-05 |
| SLFN11 | 8,251655 | 2,41E-05 |
| BATF3 | -7,94342 | 2,43E-05 |
| PIK3C2B | 1,504952 | 2,44E-05 |
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| TTC29 | 8,227696 | 2,45E-05 |
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| APOBEC3F | -2,32845 | 2,48E-05 |
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| DIS3 | -1,35342 | 2,50E-05 |
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| FLOT2 | 1,902127 | 2,54E-05 |
| MIER1 | -1,42405 | 2,56E-05 |
| TXNDC9 | 1,617286 | 2,59E-05 |
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| TERF2 | -1,81242 | 2,59E-05 |
| DSG2 | -1,31517 | 2,59E-05 |
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| PYCR2 | -1,76508 | 2,60E-05 |
| TMEM183F | 2,07472 | 2,60E-05 |
| B3GALT4 | 5,246618 | 2,61E-05 |
| INHA | 8,934155 | 2,62E-05 |
| MEF2C | -2,51648 | 2,63E-05 |
| PRKCI | 1,296766 | 2,64E-05 |
| MRPL28 | 1,486248 | 2,65E-05 |
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| TAMM41 | 1,545064 | 2,68E-05 |

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| KLF3 | -1,62176 | 2,69E-05 |
| CDH1 | 1,803905 | 2,70E-05 |
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| ABCB4 | 8,427931 | 2,80E-05 |
| ARMCX1 | 8,287873 | 2,81E-05 |
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| CASZ1 | 2,045663 | 2,85E-05 |
| RAI14 | -1,49119 | 2,86E-05 |
| VPS52 | 1,24686 | 2,87E-05 |
| RASSF10 | 7,431332 | 2,88E-05 |
| TMEM170F | 2,868578 | 2,89E-05 |
| EIF2AK4 | -1,70419 | 2,89E-05 |
| ZKSCAN5 | 1,426027 | 2,90E-05 |
| ZCWPW1 | 2,644004 | 2,91E-05 |
| UBL3 | 1,561985 | 2,92E-05 |
| LGALS3BP | -2,7812 | 2,93E-05 |
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| TRAPPC2L | 1,289844 | 2,96E-05 |
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| TMEM168 | 1,439124 | 3,00E-05 |
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| RPRM | 5,322835 | 3,09E-05 |
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| USP16 | -1,35054 | 3,13E-05 |
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| FCGR1A | 7,60662 | 3,17E-05 |
| BEX2 | -2,5006 | 3,18E-05 |
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| RAI2 | 8,24684 | 3,24E-05 |
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| RAB27A | 2,042766 | 3,26E-05 |
| RYR1 | -4,84391 | 3,26E-05 |
| ADAM21 | -8,44711 | 3,32E-05 |
| SNRPE | 1,251715 | 3,34E-05 |
| ABCC4 | -1,63847 | 3,38E-05 |
| RNF126 | -1,51337 | 3,38E-05 |
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| FBXW9 | 1,651992 | 3,40E-05 |
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| TBC1D7 | 1,750189 | 3,41E-05 |
| BHMG1 | -6,48116 | 3,44E-05 |
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| TPPP | -2,45894 | 3,48E-05 |
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| ZNF563 | 8,139161 | 3,61E-05 |
| AP3B2 | 4,1582 | 3,61E-05 |
| LLPH-AS1 | 8,138617 | 3,62E-05 |
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| RARA-AS1 | -8,79029 | 3,70E-05 |
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| LINC01604 | -2,77886 | 3,82E-05 |
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| WBSCR16 | 1,27295 | 4,00E-05 |
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| GATA5 | 8,133711 | 4,03E-05 |
| MTG1 | 1,800333 | 4,05E-05 |
| ABCA12 | 2,375515 | 4,05E-05 |
| RBM47 | 1,552048 | 4,05E-05 |
| STARD8 | -2,61521 | 4,08E-05 |
| ZNRF1 | 1,258661 | 4,08E-05 |
| PSMA1 | -1,2306 | 4,09E-05 |
| C9orf72 | -3,45692 | 4,13E-05 |
| NIPA1 | -1,35756 | 4,16E-05 |
| WASF3 | 2,345619 | 4,20E-05 |
| RFWD2 | 1,287583 | 4,22E-05 |
| KIF5A | -3,2283 | 4,25E-05 |
| BCYRN1 | 1,286497 | 4,29E-05 |
| FAH | 1,50828 | 4,31E-05 |
| ZNF610 | 8,10402 | 4,33E-05 |
| LIPH | -3,21673 | 4,35E-05 |
| ZNF577 | -8,28258 | 4,39E-05 |
| ABCG4 | -4,67872 | 4,40E-05 |
| PHLDA1 | -2,40259 | 4,40E-05 |
| HTRA1 | 8,225693 | 4,40E-05 |
| MTRF1L | -1,42816 | 4,42E-05 |
| BAG4 | -1,36775 | 4,42E-05 |
| NRP1 | 1,976479 | 4,43E-05 |
| PVR | -1,88715 | 4,44E-05 |
| LOC100128 | 8,094733 | 4,46E-05 |
| ABHD3 | -1,79293 | 4,52E-05 |
| S1PR2 | -1,74047 | 4,52E-05 |
| RIPPLY3 | 8,101789 | 4,53E-05 |
| SDCBP | -1,60978 | 4,55E-05 |
| C17orf97 | 2,23137 | 4,56E-05 |
| MPZ | -4,80687 | 4,58E-05 |
| CYB5A | 1,607658 | 4,60E-05 |
| SMG7 | 1,152245 | 4,63E-05 |
| SCAMP5 | 2,102751 | 4,64E-05 |
| PSAT1 | -2,23387 | 4,66E-05 |

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| GATS | 2,940858 | 4,70E-05 |
| PRKCE | -2,47592 | 4,74E-05 |
| RAB13 | 1,439478 | 4,77E-05 |
| PGF | -3,39538 | 4,78E-05 |
| CHORDC1 | -1,87752 | 4,80E-05 |
| LPPR4 | -8,29102 | 4,80E-05 |
| TSPAN7 | -8,26893 | 4,81E-05 |
| RHBDL3 | -3,22355 | 4,82E-05 |
| ANKRD22 | -5,25539 | 4,82E-05 |
| SLC6A14 | 8,088205 | 4,84E-05 |
| FAF1 | -1,81853 | 4,84E-05 |
| ARID4A | 1,892755 | 4,93E-05 |
| RASA3 | -1,62142 | 4,95E-05 |
| CNTNAP3P | -8,30356 | 5,01E-05 |
| FLCN | 1,438878 | 5,04E-05 |
| LOC10013C | -3,98417 | 5,06E-05 |
| CACNA1G | -8,27772 | 5,06E-05 |
| MROH6 | -1,52152 | 5,08E-05 |
| DDA1 | -1,30586 | 5,15E-05 |
| BTN3A2 | -3,12258 | 5,16E-05 |
| EMC1 | -1,18358 | 5,17E-05 |
| F10 | -8,2479 | 5,18E-05 |
| SPG21 | 1,217641 | 5,19E-05 |
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| THEMIS2 | -2,77676 | 5,27E-05 |
| LPAR2 | 1,3085 | 5,30E-05 |
| THEM6 | 1,529811 | 5,30E-05 |
| HDHD2 | 1,682381 | 5,35E-05 |
| DBI | 1,188065 | 5,36E-05 |
| MYO10 | -1,28324 | 5,37E-05 |
| CST6 | -8,28635 | 5,38E-05 |
| GUCY1B3 | 8,092151 | 5,38E-05 |
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| ASB8 | 1,791802 | 5,46E-05 |
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| CETN2 | 1,495013 | 5,62E-05 |
| TRIM45 | 2,853589 | 5,64E-05 |
| CITED1 | -4,07503 | 5,69E-05 |
| RHOF | -1,40081 | 5,73E-05 |
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| SLC16A1 | -1,28021 | 5,78E-05 |
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| ARHGEF40 | -2,94532 | 5,84E-05 |
| KCNQ5 | 8,15685 | 5,86E-05 |

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| PCDHB10 | 5,527581 | 5,94E-05 |
| BMPR2 | 1,629598 | 5,95E-05 |
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| CYP4V2 | -2,96516 | 5,99E-05 |
| EIF1AY | -8,21588 | 6,02E-05 |
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| ZNF786 | 1,467551 | 6,04E-05 |
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| AKT2 | 1,322302 | 6,12E-05 |
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| SH3GL3 | 4,305255 | 6,12E-05 |
| SH3BP1 | -1,83681 | 6,14E-05 |
| LINC00649 | 8,027765 | 6,14E-05 |
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| CCDC149 | 1,854708 | 6,15E-05 |
| EPG5 | 1,975417 | 6,16E-05 |
| BCCIP | -1,18315 | 6,18E-05 |
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| FAHD1 | 1,262798 | 6,22E-05 |
| MYH7B | 5,384963 | 6,22E-05 |
| TGDS | -2,19869 | 6,22E-05 |
| B4GAT1 | 2,232005 | 6,25E-05 |
| BAG2 | -1,60608 | 6,26E-05 |
| TPD52L1 | 1,680552 | 6,26E-05 |
| AP5Z1 | 1,402835 | 6,28E-05 |
| ZDHHC9 | 1,424303 | 6,33E-05 |
| LOX | 8,032231 | 6,34E-05 |
| HIST1H2BH | 8,0307 | 6,34E-05 |
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| EDC3 | 1,375323 | 6,39E-05 |
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| RHOT2 | 1,227298 | 6,50E-05 |
| ZNF726 | 8,175617 | 6,51E-05 |
| BGN | 9,666876 | 6,51E-05 |
| ABCA1 | -8,19556 | 6,55E-05 |
| CSPP1 | -1,89347 | 6,57E-05 |
| ABCB6 | 1,555614 | 6,57E-05 |
| AKIRIN1 | -1,2308 | 6,57E-05 |
| GSDMB | -3,40653 | 6,65E-05 |
| ARAP2 | -1,84395 | 6,66E-05 |
| KLF15 | -3,31359 | 6,72E-05 |
| MPDU1 | 1,351502 | 6,74E-05 |
| MORC3 | -1,58068 | 6,76E-05 |
| SIM2 | -1,99577 | 6,77E-05 |
| LAMA4 | -8,1844 | 6,79E-05 |
| MRPL10 | -1,22176 | 6,79E-05 |
| PLCE1 | -3,72203 | 6,80E-05 |

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| GPRC5B | -3,04532 | 6,82E-05 |
| B4GALNT3 | -2,43497 | 6,86E-05 |
| EGLN3 | -2,09379 | 6,87E-05 |
| TM7SF2 | 1,990882 | 6,91E-05 |
| BMP2K | -1,41711 | 6,93E-05 |
| FAM117B | 1,66532 | 6,96E-05 |
| LRRC61 | 1,820497 | 7,04E-05 |
| CHML | 1,493304 | 7,07E-05 |
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| DES12 | -1,26048 | 7,08E-05 |
| JOSD1 | -1,49735 | 7,10E-05 |
| IQCH-AS1 | 1,883409 | 7,15E-05 |
| LOC100506 | -4,96249 | 7,18E-05 |
| PDE4B | -6,0886 | 7,21E-05 |
| ATP6AP1L | -2,60687 | 7,21E-05 |
| SPNS1 | 1,410491 | 7,25E-05 |
| IFI30 | 1,603275 | 7,26E-05 |
| TNNT1 | 1,176975 | 7,26E-05 |
| BHLHE40 | -2,08858 | 7,26E-05 |
| SHFM1 | 1,176263 | 7,28E-05 |
| CAMK2N1 | -1,93411 | 7,37E-05 |
| KCNQ1OT1 | 3,300937 | 7,37E-05 |
| XPOT | 1,361868 | 7,40E-05 |
| NEURL1B | 1,775043 | 7,47E-05 |
| GNA11 | -1,21329 | 7,56E-05 |
| CYP39A1 | -6,05525 | 7,66E-05 |
| PEX10 | 1,351023 | 7,70E-05 |
| GDI2 | 1,178064 | 7,73E-05 |
| SLC22A11 | 8,192066 | 7,77E-05 |
| ABCD3 | -1,5865 | 7,95E-05 |
| MS4A15 | -8,24867 | 7,95E-05 |
| DNAJB4 | -2,77754 | 8,01E-05 |
| CASP4 | -4,12262 | 8,02E-05 |
| EFHC1 | 2,373475 | 8,04E-05 |
| NIPSNAP1 | 1,317142 | 8,07E-05 |
| LAMTOR2 | 1,298321 | 8,09E-05 |
| TMEM51 | -1,61842 | 8,09E-05 |
| KLHDC9 | 4,895662 | 8,21E-05 |
| RNF128 | -8,00744 | 8,24E-05 |
| KLHL17 | -2,06664 | 8,29E-05 |
| TRIP11 | 1,273608 | 8,29E-05 |
| CFAP74 | -8,31747 | 8,41E-05 |
| ITPR2 | 1,781885 | 8,43E-05 |
| DNAJC16 | -1,6117 | 8,51E-05 |
| DSTYK | 1,818693 | 8,63E-05 |
| KBTBD8 | -2,85729 | 8,67E-05 |
| ZIC2 | -1,85022 | 8,71E-05 |
| NSD1 | 1,701283 | 8,78E-05 |
| RELL1 | -1,63134 | 8,79E-05 |
| ZNF646 | 1,31497 | 8,85E-05 |

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| RHBDD1 | -1,67052 | 8,87E-05 |
| RRAD | -8,2414 | 8,93E-05 |
| CDC14B | -1,79826 | 8,98E-05 |
| SLC27A1 | -2,10504 | 9,00E-05 |
| LEMD2 | 1,363421 | 9,00E-05 |
| TIGD6 | 1,919054 | 9,01E-05 |
| DLEU2 | -2,63755 | 9,02E-05 |
| RNPEPL1 | -1,45037 | 9,05E-05 |
| SH3TC2 | -3,59309 | 9,09E-05 |
| ZNF98 | 8,046301 | 9,13E-05 |
| CAP1 | -1,24732 | 9,19E-05 |
| RRN3P1 | -8,14287 | 9,32E-05 |
| FBXL16 | -1,61416 | 9,35E-05 |
| ZAK | -1,26705 | 9,60E-05 |
| NIPAL2 | 1,961704 | 9,71E-05 |
| CBWD5 | -1,3339 | 9,74E-05 |
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| PAK2 | 1,196554 | 9,74E-05 |
| WRB | 1,486874 | 9,76E-05 |
| TMEM63C | -2,7071 | 9,82E-05 |
| GALNT5 | -12,2885 | 9,82E-05 |
| DMXL2 | 1,482909 | 9,94E-05 |
| HDDC3 | 1,490304 | 9,94E-05 |
| SEPT2 | -1,15972 | 9,95E-05 |
| NUPL1 | -1,40956 | 0,0001 |
| APOE | 2,920654 | 0,000101 |
| NIT2 | 1,337467 | 0,000101 |
| TMPO-AS1 | 2,008284 | 0,000102 |
| CTTNBP2 | -4,29791 | 0,000102 |
| ZMAT2 | 1,222559 | 0,000103 |
| ULK1 | 1,738511 | 0,000104 |
| ZFP1 | 1,396072 | 0,000104 |
| VAMP8 | 2,021231 | 0,000104 |
| NFE2 | 2,521933 | 0,000104 |
| ADAMTS16 | -8,23002 | 0,000104 |
| MED20 | 1,488322 | 0,000104 |
| ALOXE3 | -2,76291 | 0,000105 |
| PRPS1 | -1,31073 | 0,000105 |
| LOC100996 | 3,053108 | 0,000105 |
| GPR68 | 7,922437 | 0,000105 |
| CTNNAL1 | -1,57283 | 0,000105 |
| LDLRAD3 | -1,65378 | 0,000106 |
| PART1 | 7,935652 | 0,000106 |
| CORO1B | 1,665713 | 0,000108 |
| CDC27 | -1,13814 | 0,000108 |
| AFF3 | 7,11611 | 0,000108 |
| THBS3 | 2,375641 | 0,000108 |
| ADCY7 | -1,48065 | 0,000108 |
| PSMD7 | 1,11296 | 0,000108 |
| RPTOR | -1,20859 | 0,000108 |

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| GPATCH2 | 1,348191 | 0,000109 |
| LOC339803 | 6,171354 | 0,000109 |
| NRM | 1,737446 | 0,000109 |
| CPM | -3,00123 | 0,00011 |
| EXOSC9 | -1,3289 | 0,00011 |
| C15orf52 | -5,16265 | 0,00011 |
| LINC00869 | -2,78808 | 0,000111 |
| SMAD7 | 2,00805 | 0,000111 |
| DTD1 | 1,321262 | 0,000111 |
| TUBB3 | 1,093223 | 0,000112 |
| NEK9 | -6,82939 | 0,000112 |
| THUMPD3 | 2,305446 | 0,000113 |
| MPP7 | -1,209 | 0,000114 |
| CD164L2 | -3,28624 | 0,000115 |
| MTIF3 | 1,55921 | 0,000115 |
| MTSS1L | 1,343276 | 0,000115 |
| RAB22A | 1,259267 | 0,000116 |
| HIST1H2BK | 2,534228 | 0,000116 |
| DENND5A | -1,55528 | 0,000116 |
| CA12 | 2,661863 | 0,000116 |
| OLFML3 | 6,449629 | 0,000116 |
| HDAC9 | -4,4118 | 0,000118 |
| CASK | -1,24888 | 0,000119 |
| LPCAT2 | -1,87239 | 0,00012 |
| SEMA7A | -1,62111 | 0,00012 |
| EVI5 | -1,73777 | 0,00012 |
| GTF2H3 | -1,35807 | 0,00012 |
| TOP2B | 1,266157 | 0,000121 |
| UGT8 | -7,88682 | 0,000121 |
| LEMD1 | -8,11845 | 0,000122 |
| PPL | 1,654963 | 0,000122 |
| TC2N | 1,695654 | 0,000122 |
| MEF2D | -1,53024 | 0,000122 |
| DVL3 | 1,146237 | 0,000123 |
| GJA3 | -1,67958 | 0,000123 |
| JAG2 | -1,53185 | 0,000123 |
| VPS45 | 1,29332 | 0,000123 |
| CYB5B | -1,65187 | 0,000123 |
| ALDH3A2 | 1,149511 | 0,000123 |
| FAM196A | 8,056727 | 0,000124 |
| GART | -1,14181 | 0,000124 |
| PSMB3 | -1,12638 | 0,000124 |
| NT5DC3 | -1,55331 | 0,000124 |
| PPP1R3F | 2,58774 | 0,000125 |
| GAL | -1,15152 | 0,000125 |
| P3H2 | 2,253551 | 0,000125 |
| MIR4458H | 7,881769 | 0,000125 |
| KHDC1L | -8,05167 | 0,000126 |
| GRAMD1A | -1,19886 | 0,000127 |
| KLF4 | -1,88473 | 0,000127 |

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| MPG | 1,281403 | 0,000128 |
| SDE2 | -1,82639 | 0,000128 |
| CPNE2 | -1,83563 | 0,000128 |
| SLC7A5 | 1,186324 | 0,000128 |
| SPRYD7 | -1,72902 | 0,000128 |
| SHISA4 | -2,50452 | 0,000129 |
| CAPRIN2 | -1,6739 | 0,000129 |
| MARCKS | -1,30644 | 0,00013 |
| TMEM255E | -4,31954 | 0,00013 |
| SH3BGRL | -1,74742 | 0,000131 |
| TFCP2 | -8,52861 | 0,000131 |
| CSPG4 | -7,85725 | 0,000131 |
| DGKQ | -1,61867 | 0,000132 |
| LOC100506 | -1,42337 | 0,000132 |
| SYNJ2 | -1,34469 | 0,000132 |
| DNAJC2 | 1,270546 | 0,000133 |
| GTF2IP1 | 2,107946 | 0,000133 |
| FOXI3 | 7,868964 | 0,000134 |
| KLHDC3 | 1,816488 | 0,000134 |
| PIGN | 1,834475 | 0,000134 |
| CBLL1 | 1,242221 | 0,000134 |
| STRIP2 | -2,24242 | 0,000134 |
| TRIM10 | -8,03765 | 0,000135 |
| PIGQ | 1,965257 | 0,000135 |
| LINC00920 | -8,03595 | 0,000135 |
| TRIL | 7,927841 | 0,000135 |
| TUBA1B | 1,063615 | 0,000136 |
| HDGF | 1,140424 | 0,000136 |
| DOCK9 | -1,61875 | 0,000136 |
| OTUD7B | 1,183674 | 0,000136 |
| SMYD3 | -1,67141 | 0,000136 |
| ZNF611 | 1,667386 | 0,000137 |
| CCDC90B | 1,301752 | 0,000137 |
| BACE1 | 1,723937 | 0,000138 |
| ACTL6A | 1,23359 | 0,000138 |
| KCTD15 | 1,870751 | 0,000139 |
| NBPF15 | 1,768423 | 0,000139 |
| TMEM61 | -8,09055 | 0,000139 |
| OS9 | 1,213693 | 0,000139 |
| TWISTNB | -1,31091 | 0,00014 |
| RAET1L | -7,82162 | 0,00014 |
| ASPM | 1,35761 | 0,00014 |
| S100A9 | 8,683857 | 0,000141 |
| LIMCH1 | -2,6867 | 0,000141 |
| KIF3C | 1,514155 | 0,000142 |
| DES | -8,09886 | 0,000142 |
| MGC72080 | 1,507328 | 0,000143 |
| NR4A3 | -3,05975 | 0,000143 |
| DENND2D | 1,328675 | 0,000144 |
| ATG2B | 1,685977 | 0,000144 |

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| POU6F2 | 7,856448 | 0,000144 |
| ARV1 | 2,068186 | 0,000144 |
| CFAP97 | -1,32914 | 0,000144 |
| TFB1M | -1,85185 | 0,000144 |
| ROBO4 | -8,51516 | 0,000144 |
| HADH | 1,525641 | 0,000145 |
| NUDT1 | 1,702145 | 0,000146 |
| EPN2 | -1,38385 | 0,000146 |
| GADD45GII | 1,454046 | 0,000146 |
| PON3 | -8,07527 | 0,000147 |
| TXNDC12 | -1,39485 | 0,000147 |
| MYSM1 | -1,63893 | 0,000147 |
| KLHDC2 | 1,603766 | 0,000148 |
| HOXA11 | -3,03427 | 0,000148 |
| AMOTL2 | 2,173817 | 0,000149 |
| NELFCD | 1,515755 | 0,000149 |
| PDZD8 | -1,30249 | 0,000149 |
| MMP1 | -8,21858 | 0,000149 |
| ITPR3 | -1,24177 | 0,00015 |
| TNFRSF10A | -1,65436 | 0,00015 |
| ELMO3 | 1,377384 | 0,000151 |
| TCF12 | -1,51713 | 0,000151 |
| FRRS1 | -2,64311 | 0,000151 |
| NPAS3 | 7,902289 | 0,000151 |
| DBNDD1 | 1,288131 | 0,000151 |
| FOXO1 | -2,37561 | 0,000151 |
| ZNF442 | 7,822419 | 0,000152 |
| GHR | 7,8258 | 0,000152 |
| SEPT11 | -1,13439 | 0,000152 |
| SNX27 | 1,477015 | 0,000152 |
| NADSYN1 | 1,45897 | 0,000153 |
| COLCA1 | 7,843676 | 0,000154 |
| HIST1H3G | 7,827151 | 0,000154 |
| DUXAP8 | 2,200388 | 0,000154 |
| CD83 | -1,88703 | 0,000154 |
| ATP8B1 | 1,315155 | 0,000155 |
| REPIN1 | 1,134402 | 0,000156 |
| SNRNP25 | 1,591082 | 0,000156 |
| RHOBTB2 | -1,59203 | 0,000157 |
| DHDH | -3,63092 | 0,000159 |
| CYS1 | -7,26372 | 0,00016 |
| WIF1 | 8,115369 | 0,00016 |
| HOXD12 | 8,035163 | 0,000161 |
| ACTL8 | 3,387138 | 0,000161 |
| FAM169A | -2,14705 | 0,000161 |
| IGSF11 | 7,80839 | 0,000161 |
| PSMB2 | -1,08611 | 0,000162 |
| MKNK2 | -1,42592 | 0,000163 |
| CGNL1 | -3,38412 | 0,000163 |
| FLT4 | 7,150035 | 0,000163 |

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| ALDH1A3 | -5,24579 | 0,000165 |
| PARP2 | -1,22298 | 0,000165 |
| BLNK | 7,448747 | 0,000166 |
| CLCF1 | -3,26653 | 0,000167 |
| IRF2BPL | -1,5648 | 0,000167 |
| ATP5A1 | 1,166753 | 0,000168 |
| PNPLA3 | -5,37812 | 0,000169 |
| TAF12 | -1,38702 | 0,000169 |
| RCN3 | 6,076797 | 0,000169 |
| CDH18 | 7,828236 | 0,000169 |
| SPATS2L | -1,25753 | 0,00017 |
| TIMM17B | 1,575642 | 0,000172 |
| PRELID1 | 1,129336 | 0,000172 |
| POGZ | 1,432596 | 0,000172 |
| ZFP36L1 | -1,43544 | 0,000173 |
| BMPR1B | 7,793532 | 0,000173 |
| PRRG4 | -2,24716 | 0,000176 |
| C21orf58 | 2,044335 | 0,000177 |
| ZBTB1 | 1,255319 | 0,000178 |
| PMEPA1 | 2,875988 | 0,000178 |
| HOTAIRM1 | -3,27593 | 0,000178 |
| LRRC42 | -1,2759 | 0,000178 |
| ELF5 | 3,248214 | 0,000178 |
| MRPL9 | 1,70521 | 0,000179 |
| TRAK2 | 1,218645 | 0,000179 |
| ZCCHC24 | -2,18122 | 0,000179 |
| TMPRSS4 | 4,449219 | 0,00018 |
| GABPB2 | 1,685298 | 0,00018 |
| RAB9B | 7,801799 | 0,00018 |
| GBA | 1,771914 | 0,00018 |
| DDX11L2 | -3,82707 | 0,000181 |
| SYNE4 | 1,300773 | 0,000182 |
| AXIN2 | 1,759592 | 0,000182 |
| EGLN1 | -1,2193 | 0,000183 |
| SLC30A7 | -1,54847 | 0,000183 |
| F7 | 8,004526 | 0,000183 |
| ATP6V1C2 | 1,952745 | 0,000183 |
| ACTR3C | 4,092123 | 0,000183 |
| SLC2A9 | -7,9766 | 0,000183 |
| C1QL4 | -4,50933 | 0,000184 |
| IL6ST | -1,34 | 0,000184 |
| ZNF345 | 7,779217 | 0,000184 |
| TMEM19 | 1,476921 | 0,000184 |
| DNAJC22 | -1,82176 | 0,000185 |
| KRT23 | -1,87923 | 0,000185 |
| LINC00674 | 1,670943 | 0,000185 |
| CALCOCO2 | -1,83775 | 0,000185 |
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| LAMB3 | -5,84963 | 0,000187 |

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| MBD6 | 1,384643 | 0,000187 |
| PSD3 | -1,30734 | 0,000188 |
| PIBF1 | -2,01403 | 0,000189 |
| RNF103 | 1,595338 | 0,00019 |
| PARP8 | -1,91179 | 0,000191 |
| ZNF418 | 7,788684 | 0,000191 |
| MXI1 | -1,43162 | 0,000192 |
| SCAND1 | 1,242482 | 0,000197 |
| SLC12A5 | 5,063688 | 0,000197 |
| CABLES2 | 1,44422 | 0,000197 |
| TBCC | 1,393995 | 0,000197 |
| PLEKHG1 | -1,84723 | 0,000197 |
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| GYG2 | 7,799461 | 0,000202 |
| FSTL3 | -1,97094 | 0,000202 |
| CHAF1B | -1,32357 | 0,000202 |
| GGCT | 1,219938 | 0,000202 |
| MSH6 | 1,24653 | 0,000202 |
| ZC3H18 | 1,140471 | 0,000203 |
| PEX26 | 1,210538 | 0,000203 |
| ABHD14B | -1,2415 | 0,000203 |
| BBX | -1,28648 | 0,000203 |
| SLC20A1 | -1,13194 | 0,000205 |
| S100A3 | -7,15598 | 0,000205 |
| TARP | 7,987363 | 0,000206 |
| LNX2 | 1,396648 | 0,000207 |
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| SLC30A4 | -3,69214 | 0,000209 |
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| CTSO | 2,638029 | 0,00021 |
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| G6PD | 2,428719 | 0,00021 |
| PDLIM5 | -1,5354 | 0,000211 |
| TRAM1L1 | 7,908018 | 0,000211 |
| IGF1 | 6,915792 | 0,000212 |
| LGALS1 | -1,7706 | 0,000212 |
| ZNF572 | 2,365891 | 0,000212 |
| ALDOC | -1,75615 | 0,000213 |
| RELB | -2,5584 | 0,000213 |
| ZBTB12 | 2,24018 | 0,000213 |
| MED14 | -1,17586 | 0,000215 |
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| TRIM2 | -1,42971 | 0,00022 |
| ATP6V0E1 | 1,599937 | 0,00022 |
| LRRC6 | -3,08223 | 0,00022 |
| MAPKAPK3 | -1,27125 | 0,000221 |
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| GABPB1-AS1 | 2,137004 | 0,000223 |
| PHC2 | -1,53038 | 0,000225 |
| WIZ | 1,097014 | 0,000225 |
| FUCA1 | -1,51076 | 0,000227 |
| ZNF772 | 2,821856 | 0,000227 |
| ZNHIT1 | 1,576604 | 0,000229 |
| GATA3-AS1 | 7,745435 | 0,00023 |
| ZNF33B | 1,376075 | 0,00023 |
| SYT1 | -1,58743 | 0,00023 |
| ZDHHC1 | -2,42808 | 0,000231 |
| G6PC3 | 1,273717 | 0,000231 |
| APPL2 | 1,30989 | 0,000232 |
| COLGALT2 | 5,690752 | 0,000232 |
| RNF180 | 7,783805 | 0,000233 |
| NFATC4 | 2,616738 | 0,000234 |
| ADAM10 | -1,27151 | 0,000234 |
| CYFIP2 | -1,84772 | 0,000234 |
| ATP5J2 | 1,418659 | 0,000237 |
| LINC01006 | 6,88718 | 0,000237 |
| MCF2L | -1,82701 | 0,000238 |
| NRTN | -3,00181 | 0,000238 |
| FARS2 | 1,487976 | 0,000239 |
| C11orf45 | -7,96517 | 0,000239 |
| INTS3 | 1,32878 | 0,00024 |
| AKIP1 | -1,48828 | 0,00024 |
| EPM2AIP1 | 1,596023 | 0,00024 |
| CDCA7L | -1,71281 | 0,000241 |
| STX4 | 1,431361 | 0,000241 |
| TOMM20 | -1,05454 | 0,000241 |
| FMNL3 | 1,744939 | 0,000241 |
| PCDHGA5 | 7,730632 | 0,000242 |
| ADORA1 | -2,45996 | 0,000243 |
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| CNTN1 | -7,13439 | 0,000244 |
| SEC31B | -4,64018 | 0,000245 |
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| C7orf73 | 1,129832 | 0,000245 |
| FBN2 | 3,038028 | 0,000248 |
| MON1B | 1,25105 | 0,000248 |
| MXD4 | 2,82854 | 0,000249 |
| DNAJC30 | 1,573997 | 0,00025 |
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| SAMHD1 | -1,96599 | 0,00025 |
| PCDHGA6 | 7,731072 | 0,000251 |
| CDC42EP5 | 3,922306 | 0,000252 |
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| SCIN | 5,995094 | 0,000252 |
| HAUS6 | -1,19271 | 0,000253 |
| CHIC1 | 7,71831 | 0,000253 |
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| SLC12A9 | 1,76445 | 0,000255 |
| CHPF | -1,61005 | 0,000256 |
| RSPH3 | -1,60884 | 0,000256 |
| SEC16A | 1,131889 | 0,000256 |
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| MCPH1 | -1,27322 | 0,000256 |
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| CBFA2T2 | 1,354565 | 0,000258 |
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| INPP5B | -1,76882 | 0,000264 |
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| KBTBD11 | -2,05341 | 0,000265 |
| RELT | -1,72206 | 0,000266 |
| NR2F1-AS1 | -2,3055 | 0,000267 |
| TAF7 | 1,233966 | 0,000267 |
| DPY19L3 | 1,61317 | 0,00027 |
| SEC11A | 1,07767 | 0,00027 |
| DEGS1 | -1,52653 | 0,000271 |
| ABAT | 2,450192 | 0,000272 |
| PSMD5-AS1 | 2,15913 | 0,000274 |
| PARP10 | 2,913883 | 0,000275 |
| FN1 | -2,00156 | 0,000277 |
| MZT2B | 1,257055 | 0,000277 |
| FLVCR2 | 2,423763 | 0,000279 |
| TMEM52 | -1,48615 | 0,000281 |
| ISL1 | -7,90777 | 0,000283 |
| CTSV | -2,03476 | 0,000283 |
| HSPA2 | 2,46663 | 0,000285 |
| LOC389602 | -7,91456 | 0,000286 |
| MLXIPL | -2,11775 | 0,000287 |
| ARL11 | 7,685289 | 0,000287 |
| ICOS | 7,688723 | 0,000288 |
| XKR7 | 7,767884 | 0,000288 |
| GPR89B | 2,26489 | 0,000288 |
| SYNE2 | 1,61963 | 0,000288 |
| S100A2 | -3,38423 | 0,000291 |
| KRT17 | 3,577595 | 0,000292 |
| NDFIP2 | -1,26866 | 0,000297 |
| ZSCAN21 | 1,497193 | 0,000299 |
| PLRG1 | -1,0812 | 0,0003 |
| NUP43 | -1,40645 | 0,0003 |
| CDK14 | -2,04819 | 0,000301 |
| PATZ1 | 1,361898 | 0,000302 |
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| COMTD1 | 1,247905 | 0,000303 |
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| RCAN1 | -1,87192 | 0,000304 |

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| ACD | -1,22518 | 0,000305 |
| ADAMTSL3 | 7,713189 | 0,000305 |
| C1GALT1 | -1,26071 | 0,000306 |
| STK24 | -1,24829 | 0,000307 |
| STARD9 | -3,01784 | 0,000316 |
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| IQSEC2 | -1,86421 | 0,000316 |
| ARF3 | 1,120852 | 0,000316 |
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| CSRP1 | 1,403305 | 0,000319 |
| HP55 | -1,36995 | 0,000319 |
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| FAM27E3 | -7,87006 | 0,000322 |
| TH | 7,722977 | 0,000322 |
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| PTTG1IP | 1,270535 | 0,000324 |
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| CARNMT1 | -1,82379 | 0,000324 |
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| ESPN | -1,9263 | 0,000327 |
| RABGAP1 | 1,275029 | 0,000327 |
| POLR2J | 1,465465 | 0,00033 |
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| SLC25A1 | 1,259903 | 0,000331 |
| COPG2 | 1,34166 | 0,000333 |
| CALM1 | 1,261528 | 0,000335 |
| DUS4L | 1,721234 | 0,000336 |
| MDN1 | -1,32133 | 0,000336 |
| TGFB1I1 | -3,80246 | 0,000337 |
| FGF19 | -9,25011 | 0,000338 |
| C12orf75 | -1,42815 | 0,000339 |
| GNB2L1 | 1,00051 | 0,000341 |
| MGC50722 | -7,85224 | 0,000343 |
| PRKCQ | -7,86209 | 0,000345 |
| MYRF | -5,61865 | 0,000347 |
| DHRS13 | 1,529105 | 0,000347 |
| LPIN3 | 2,301532 | 0,000347 |
| ADCK1 | 1,658049 | 0,00035 |
| ZNF764 | 1,622793 | 0,00035 |
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| CHRD | -3,5378 | 0,000355 |
| PSMD4 | 1,123902 | 0,000355 |
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| SQLE | 1,4548 | 0,000363 |
| SH3GL1 | -1,27668 | 0,000365 |
| GPM6B | 7,617074 | 0,000365 |
| METTLL10 | -1,46432 | 0,000366 |
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| EPHB6 | -2,17685 | 0,000367 |
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| TACO1 | 1,126641 | 0,000371 |
| RNF122 | 1,785468 | 0,000371 |
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| LHX6 | -2,36834 | 0,000373 |
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| ID4 | 5,712585 | 0,000384 |
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| SRGAP2 | 1,069908 | 0,000405 |
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| ATP1A3 | -1,77301 | 0,000409 |
| GPX3 | 10,42365 | 0,000409 |
| TMEM14C | 1,192599 | 0,000409 |
| ORMDL2 | 1,700898 | 0,00041 |
| TMEM254 | 3,147194 | 0,000411 |
| GRB14 | 1,705775 | 0,000411 |
| SEC31A | 1,265814 | 0,000412 |
| LCOR | -1,28117 | 0,000416 |

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| GDE1 | 1,149899 | 0,000422 |
| DIAPH2 | -1,50132 | 0,000423 |
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| AHDC1 | -1,37437 | 0,000427 |
| ZNF100 | 1,344153 | 0,000428 |
| APBA3 | -1,4078 | 0,000428 |
| ZFP36 | -2,36094 | 0,000429 |
| TMEM135 | -1,50459 | 0,000432 |
| HLX | -5,99792 | 0,000435 |
| CEP170 | -1,15582 | 0,000435 |
| UVRAG | 1,415553 | 0,000435 |
| KIAA1804 | -1,92788 | 0,000436 |
| MYD88 | 1,457596 | 0,000436 |
| ZNF766 | 1,171545 | 0,000436 |
| MAGOH | -1,13801 | 0,000437 |
| FOXM1 | 1,071656 | 0,000437 |
| TMEM221 | -3,56153 | 0,000441 |
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| SPX | -6,06185 | 0,000447 |
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| SLC52A1 | 7,759766 | 0,000447 |
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| SEC22B | 1,212266 | 0,000449 |
| CD163L1 | -3,22018 | 0,00045 |
| TNKS2 | 1,301821 | 0,00045 |
| CAND1 | 1,079113 | 0,000454 |
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| DNAJC15 | 1,31981 | 0,000455 |
| DNASE1L1 | 1,585317 | 0,000455 |
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| PM20D2 | -1,63996 | 0,000461 |
| ZNF426 | -4,96848 | 0,000461 |
| ZCCHC7 | -1,32453 | 0,000461 |
| TSPAN31 | 1,8642 | 0,000461 |
| C11orf80 | 1,539044 | 0,000465 |
| LYPD3 | 1,805386 | 0,000466 |
| PDCD11 | -1,20714 | 0,000467 |
| GINS2 | 1,183061 | 0,000472 |
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| BTBD11 | -1,70009 | 0,000476 |

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| PPT1 | 1,272594 | 0,000481 |
| ADRA2C | 1,324482 | 0,000484 |
| CLSTN1 | -1,11953 | 0,000485 |
| B3GALNT1 | 1,478649 | 0,000487 |
| NKX6-1 | -2,24822 | 0,000487 |
| LCMT2 | 1,5221 | 0,000488 |
| ZNRF2 | 1,50141 | 0,000488 |
| PIP5K1B | 6,688401 | 0,000488 |
| RNF130 | 1,203287 | 0,000488 |
| FAM81B | 5,211369 | 0,000489 |
| SIRT5 | 1,323986 | 0,00049 |
| XKR8 | -1,68945 | 0,00049 |
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| FAM178B | 5,317604 | 0,000494 |
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| KLHL5 | -1,51055 | 0,000495 |
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| MAK16 | -1,35875 | 0,0005 |
| EHMT2 | 1,389037 | 0,000503 |
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| ASH1L-AS1 | 3,183145 | 0,000506 |
| FKBP14 | -1,49876 | 0,000508 |
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| CMTR1 | 1,135397 | 0,000509 |
| RPS6KB2 | 1,204627 | 0,000517 |
| COX6A1 | 0,997369 | 0,000521 |
| SGK1 | -1,89882 | 0,000527 |
| GALNT6 | 1,504524 | 0,000527 |
| MYOM2 | -7,82138 | 0,000528 |
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| MAP3K11 | 1,578146 | 0,000529 |
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| LHX2 | -1,96872 | 0,000537 |
| TFPT | 1,818777 | 0,00054 |
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| POLD3 | 1,189763 | 0,000547 |
| FEZF1-AS1 | -7,74739 | 0,000548 |
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| PRKD1 | 7,55984 | 0,00056 |
| SLC44A5 | -6,88423 | 0,000562 |
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| ATXN7L1 | 1,527115 | 0,000568 |
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| PPP2R2D | 1,146057 | 0,000576 |
| KRT86 | 4,023839 | 0,000577 |
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| ENDOG | 1,264275 | 0,000586 |
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| TTC6 | 7,51459 | 0,000596 |
| C20orf27 | 1,031265 | 0,000596 |
| CHPF2 | 1,780749 | 0,000596 |
| IGFL1 | 8,116563 | 0,000596 |
| BRD4 | 1,335718 | 0,000597 |
| SMKR1 | 1,773827 | 0,000599 |
| GLIDR | 2,830413 | 0,000599 |
| SLAMF7 | -7,70104 | 0,000602 |
| LRP8 | -1,40892 | 0,000603 |
| WWP1 | 1,533205 | 0,000604 |
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| TRIM26 | 1,11415 | 0,000618 |
| ARPIN | -2,02245 | 0,000625 |
| LINC00673 | -6,21389 | 0,000626 |
| FOXA2 | 5,683235 | 0,000626 |
| SUV420H1 | 1,135315 | 0,00063 |
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| NODAL | 5,044257 | 0,000631 |
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| CALML5 | 7,569104 | 0,000631 |
| KIAA1217 | 2,244667 | 0,000632 |
| MIR614 | -6,88347 | 0,000632 |
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| ZNF510 | 1,543221 | 0,000633 |

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| KDM2A | 1,20125 | 0,000634 |
| MARCH3 | -3,60714 | 0,000636 |
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| FAM46C | 2,394627 | 0,000637 |
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| STX16 | 1,341112 | 0,000649 |
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| ZC3H4 | 1,14636 | 0,000659 |
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| KCNC3 | 1,533675 | 0,000663 |
| PCGF6 | -1,66333 | 0,000665 |
| AHCTF1 | -1,20875 | 0,000667 |
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| PSMB9 | -3,17268 | 0,000667 |
| PPAT | -1,3717 | 0,000668 |
| PLCB1 | 1,490393 | 0,000669 |
| CEP85 | -1,62786 | 0,00067 |
| COL4A6 | -6,85083 | 0,000673 |
| DENND3 | -2,51937 | 0,000674 |
| SEL1L | 1,168251 | 0,000677 |
| SLC29A2 | 1,451889 | 0,000677 |
| AATBC | 7,475633 | 0,00068 |
| TYW3 | -1,40938 | 0,00068 |
| STK38 | 1,189965 | 0,00068 |
| LAMTOR1 | 1,130218 | 0,000681 |
| PPM1K | -2,58901 | 0,000682 |
| EPB41L4A | -2,39193 | 0,000682 |
| PFKFB3 | -1,52106 | 0,000684 |
| DLD | 1,313985 | 0,000684 |
| PCCB | 1,028536 | 0,000693 |
| PLCXD2 | -2,93917 | 0,000693 |
| CAPN9 | 7,494649 | 0,000694 |
| SLC25A37 | -1,34766 | 0,000694 |
| OAS2 | 5,060692 | 0,000694 |
| TYMS | -1,3858 | 0,000694 |
| ZNF519 | 1,999769 | 0,000694 |
| PHOSPHO1 | -3,08299 | 0,000695 |
| AOC2 | -3,08314 | 0,000698 |
| EPB41L5 | 1,57625 | 0,000699 |

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| SNAR-E | 5,798747 | 0,000703 |
| INSIG1 | 1,699162 | 0,000703 |
| VPS37A | -1,13657 | 0,000703 |
| BEX5 | 7,63965 | 0,000703 |
| ITGA1 | -6,83008 | 0,000704 |
| MOB3B | -4,70064 | 0,000705 |
| TMEM134 | 1,414956 | 0,000707 |
| LPPR3 | 7,728433 | 0,000713 |
| PRKAR2A | -1,74214 | 0,000713 |
| LOC441666 | 7,479079 | 0,000723 |
| ENPP4 | -1,57999 | 0,000723 |
| A4GALT | -2,31884 | 0,000724 |
| ZNF114 | 1,549986 | 0,000729 |
| PLXNB1 | 1,381617 | 0,000729 |
| ING4 | 2,662632 | 0,00073 |
| TAPT1-AS1 | 3,96002 | 0,00073 |
| DIRAS3 | -11,5853 | 0,00073 |
| LINC00880 | -7,68517 | 0,000731 |
| SERPINF2 | -4,09541 | 0,000732 |
| SSBP2 | 2,650005 | 0,000732 |
| VAX2 | 4,18439 | 0,000732 |
| GAREM | -1,47607 | 0,000734 |
| CACNA1A | -7,68835 | 0,000734 |
| FAR2P1 | 2,869039 | 0,00074 |
| SLC43A2 | 1,41194 | 0,00074 |
| ZSWIM4 | 1,811731 | 0,00074 |
| MAP7D1 | -1,21277 | 0,000743 |
| YBX3 | -1,01992 | 0,000744 |
| CTR9 | -1,64224 | 0,000745 |
| WNT10B | -1,55609 | 0,000745 |
| C2orf54 | 4,350308 | 0,000747 |
| SYCE1L | -4,45576 | 0,000747 |
| UNC5C | 5,834953 | 0,000747 |
| CCDC53 | 1,478133 | 0,000755 |
| SUCLG1 | 1,054226 | 0,000757 |
| ATP2B1 | -1,26251 | 0,000762 |
| ZKSCAN2 | -1,2509 | 0,000762 |
| PTPN18 | 1,111526 | 0,000762 |
| NR6A1 | -1,80636 | 0,000762 |
| SNHG3 | -1,43402 | 0,000762 |
| BTNL9 | -3,37271 | 0,000763 |
| RBM15B | 1,065071 | 0,000763 |
| JAM2 | 4,038849 | 0,000766 |
| CDC37L1 | -1,30824 | 0,000767 |
| C3orf80 | -3,7604 | 0,000771 |
| KANSL1L | 1,701884 | 0,000776 |
| PEX11B | 1,620089 | 0,000779 |
| MRC2 | -2,28708 | 0,000781 |
| ARIH2 | -1,04358 | 0,000783 |
| GATSL2 | 2,207468 | 0,000783 |

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| WWC2 | -1,23601 | 0,000787 |
| SHF | 2,045725 | 0,000787 |
| ZNF394 | 1,561077 | 0,000793 |
| TMEM87B | 1,338885 | 0,000795 |
| HOPX | 7,657735 | 0,000797 |
| ACTB | 1,302973 | 0,000797 |
| MRPS11 | 1,291088 | 0,000801 |
| CSF2RA | -7,78772 | 0,000803 |
| ATP6V1B1- | -7,61677 | 0,000803 |
| TRABD2A | -4,00359 | 0,000803 |
| PDGFB | -2,0261 | 0,000809 |
| PROSC | -1,11548 | 0,000809 |
| FHL3 | -1,50711 | 0,000809 |
| KCTD17 | -1,81634 | 0,00081 |
| AZIN2 | -3,21359 | 0,00081 |
| ARHGAP12 | -1,28644 | 0,00081 |
| PBK | -1,34743 | 0,00081 |
| GBE1 | -1,26305 | 0,000811 |
| BBS7 | -1,28515 | 0,000818 |
| SGCG | 7,567556 | 0,000818 |
| VGLL4 | 1,051728 | 0,000818 |
| ZNF709 | 5,624394 | 0,000819 |
| ARC | -2,62213 | 0,00082 |
| NDUFS8 | 1,026979 | 0,000822 |
| DYNLL1 | 1,001261 | 0,000826 |
| ZNF627 | 1,336576 | 0,000829 |
| YPEL1 | 4,013251 | 0,000833 |
| C7orf26 | 1,078111 | 0,000835 |
| OPN3 | 1,836421 | 0,000836 |
| LAMTOR4 | 1,12251 | 0,000838 |
| C2CD4D | 6,560771 | 0,000839 |
| LOC101928 | -4,41704 | 0,00084 |
| P2RY1 | -5,76046 | 0,000843 |
| PPP4R3A | 1,147217 | 0,000847 |
| OXGR1 | 7,458291 | 0,00085 |
| CD96 | -6,76752 | 0,00085 |
| GPR63 | -2,30801 | 0,000851 |
| JHDM1D-A | 2,800448 | 0,000852 |
| EPC1 | 1,122748 | 0,000853 |
| TMEM254 | 1,508633 | 0,000854 |
| IFI27 | 3,827664 | 0,000859 |
| RFXANK | 1,219726 | 0,000862 |
| SPRY2 | -2,05758 | 0,000864 |
| SERPINH1 | 1,255795 | 0,000864 |
| YIPF6 | -1,14464 | 0,000868 |
| DDX52 | -1,1322 | 0,000869 |
| KIF13B | -1,96708 | 0,000869 |
| TRMT61A | 1,334256 | 0,000872 |
| VAPB | 1,116814 | 0,000874 |
| RUFY1 | 1,147307 | 0,000881 |

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| CERS1 | 4,507423 | 0,000883 |
| JUP | 1,505871 | 0,000887 |
| FBXO41 | -1,51528 | 0,000887 |
| PPIEL | -5,74967 | 0,000893 |
| LYSMD2 | 1,574008 | 0,000893 |
| C10orf10 | -5,73823 | 0,000895 |
| PNMA6A | 7,441092 | 0,000897 |
| CDK7 | -1,06226 | 0,000899 |
| ZNF74 | 1,27061 | 0,000905 |
| LINC00885 | 7,659283 | 0,000905 |
| PLA2G4F | 4,076638 | 0,000907 |
| PCDHGA4 | 6,513609 | 0,000908 |
| IFT46 | 1,502763 | 0,000909 |
| IBSP | 7,394631 | 0,000909 |
| SCD5 | -1,31161 | 0,000927 |
| FER | -1,22687 | 0,000927 |
| TICAM1 | -1,20187 | 0,000928 |
| SYMPK | -1,0869 | 0,000928 |
| CCDC88C | 1,451313 | 0,000931 |
| RN7SK | 3,335847 | 0,000933 |
| PIGB | 1,632087 | 0,000939 |
| NDUFA12 | 1,181625 | 0,00094 |
| UGGT2 | -1,54288 | 0,000941 |
| BMP8A | -2,61174 | 0,000941 |
| SAMD15 | 2,641378 | 0,000941 |
| ITPR1 | -1,67223 | 0,000943 |
| GUSBP4 | 2,166702 | 0,000944 |
| KANK3 | -3,20751 | 0,000946 |
| PITPNM2 | -1,50203 | 0,000954 |
| STX2 | -1,49741 | 0,000955 |
| PAGR1 | 1,05042 | 0,000957 |
| RTFDC1 | 1,083233 | 0,00096 |
| CACHD1 | -1,90027 | 0,000961 |
| TM4SF18 | -7,68446 | 0,000965 |
| ATF4 | -1,30942 | 0,000966 |
| TBCCD1 | -1,29633 | 0,000969 |
| MLF1 | -1,42152 | 0,000973 |
| CLCN3 | -1,22773 | 0,000975 |
| ATMIN | 1,064958 | 0,000976 |
| NBN | 0,999804 | 0,000978 |
| OSER1 | 1,148199 | 0,000981 |
| TARBP2 | 1,093676 | 0,000988 |
| PKN2 | -1,18313 | 0,000991 |
| P2RX4 | 1,685863 | 0,000992 |
| FAM193B | 1,43879 | 0,000992 |
| NME1 | -1,05327 | 0,000994 |
| TBL1XR1 | -1,21948 | 0,000996 |
| LDHB | -10,0745 | 0,001001 |
| KCNK3 | -5,87716 | 0,001001 |
| GDPD1 | -2,00763 | 0,001004 |

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| FAM149A | -3,45221 | 0,001004 |
| ONECUT1 | 2,994159 | 0,001004 |
| KDM5D | -7,62681 | 0,001005 |
| PPIE | -1,05426 | 0,001005 |
| PPP2R5B | -1,8832 | 0,00101 |

RFX393

| Gene | log2FoldCh | FDR |
|-----------|------------|----------|
| APCDD1 | 15,97544 | 1,65E-26 |
| CDH1 | 15,9393 | 3,15E-26 |
| MYH14 | 15,05027 | 1,28E-22 |
| GATA3 | 14,91681 | 4,62E-23 |
| FBP1 | 14,63437 | 3,39E-22 |
| HID1 | 14,26106 | 2,81E-20 |
| TSPYL5 | 14,09069 | 7,90E-21 |
| GRHL2 | 13,78605 | 1,45E-19 |
| KCTD15 | 13,7853 | 9,10E-19 |
| ACSS3 | 13,6889 | 1,17E-19 |
| IGFBP2 | 13,51841 | 4,21E-19 |
| SPDEF | 13,51532 | 3,34E-10 |
| EPN3 | 13,43565 | 9,37E-19 |
| TJP3 | 13,24836 | 3,01E-17 |
| TMEM30B | 12,95434 | 1,73E-17 |
| ATAD1 | 12,91144 | 1,58E-17 |
| MSI1 | 12,87385 | 2,84E-17 |
| DSCAM-AS1 | 12,80709 | 5,38E-10 |
| MSX2 | 12,65199 | 1,96E-16 |
| GAL | 12,56971 | 1,32E-16 |
| SLC27A2 | 12,56716 | 1,62E-16 |
| CDH3 | 12,45552 | 1,28E-45 |
| GGT6 | 12,43375 | 5,45E-15 |
| PCDHA6 | 12,38586 | 4,35E-16 |
| PPM1E | 12,28458 | 1,73E-09 |
| LINGO1 | 12,25237 | 1,08E-15 |
| ADAMTS19 | 12,24773 | 1,05E-15 |
| PRR15L | 12,24731 | 2,82E-15 |
| IRX2 | 12,16643 | 1,75E-15 |
| FXYD3 | 12,11972 | 2,37E-08 |
| ALDH3B2 | 12,07213 | 3,28E-14 |
| SPTSSB | 12,05193 | 5,33E-14 |
| EMB | 11,97689 | 4,89E-15 |
| WNK2 | 11,96096 | 7,86E-15 |
| POF1B | 11,92583 | 5,29E-14 |
| CACNG4 | 11,88115 | 1,09E-14 |
| PCDHA11 | 11,76471 | 3,32E-14 |
| PCDHB2 | 11,74461 | 3,28E-14 |
| TMEM150C | 11,73412 | 3,75E-14 |
| CBFA2T3 | 11,72536 | 2,22E-14 |
| RBBP8NL | 11,69948 | 4,07E-14 |
| TNFAIP8L3 | 11,66176 | 2,85E-13 |
| DLX5 | 11,65328 | 3,91E-14 |
| GATS | 11,64457 | 3,63E-13 |
| LIN7A | 11,64058 | 6,13E-14 |
| C15orf59 | 11,63864 | 2,32E-13 |
| PTP4A3 | 11,61437 | 4,42E-14 |
| CCDC170 | 11,57212 | 9,57E-13 |

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| SLC1A2 | 11,56487 | 6,59E-14 |
| S100A14 | 11,54958 | 2,36E-10 |
| ADCY1 | 11,53153 | 8,79E-14 |
| SULT2B1 | 11,52374 | 1,33E-13 |
| PCSK1N | 11,50922 | 8,09E-14 |
| OLFM1 | 11,50058 | 8,05E-14 |
| GLB1L2 | 11,48892 | 8,86E-14 |
| LRFN4 | 11,46212 | 2,97E-16 |
| HENMT1 | 11,41139 | 1,40E-13 |
| ZIC1 | 11,34805 | 5,27E-13 |
| CRISPLD1 | 11,32855 | 1,34E-12 |
| NCAM2 | 11,30336 | 8,72E-13 |
| ESPN | 11,30165 | 3,23E-12 |
| ALOX15 | 11,27582 | 9,27E-12 |
| TMEM45B | 11,25578 | 3,36E-13 |
| AR | 11,23266 | 3,93E-13 |
| ZNF569 | 11,19733 | 9,65E-13 |
| ERBB3 | 11,16316 | 2,52E-36 |
| SMIM22 | 11,16211 | 8,83E-13 |
| EPHA1 | 11,13204 | 1,03E-12 |
| MNX1 | 11,11334 | 8,21E-13 |
| ASCL2 | 11,03969 | 4,88E-12 |
| C5orf38 | 11,03155 | 2,22E-12 |
| PCP4 | 11,02888 | 1,55E-12 |
| MNX1-AS1 | 10,994 | 4,10E-12 |
| ASCL4 | 10,98128 | 2,02E-12 |
| NUP210 | 10,91268 | 1,82E-65 |
| PACSIN1 | 10,89891 | 1,47E-11 |
| ENTPD2 | 10,89427 | 8,15E-12 |
| RNF43 | 10,88282 | 9,15E-11 |
| ARHGDIG | 10,8827 | 2,96E-12 |
| NUP210L | 10,85694 | 3,72E-12 |
| EFS | 10,85139 | 4,00E-12 |
| DLX3 | 10,84673 | 6,00E-14 |
| TDRD1 | 10,8345 | 3,82E-12 |
| ST8SIA4 | 10,83418 | 6,28E-11 |
| SBK1 | 10,82154 | 1,98E-23 |
| ARHGEF26 | 10,79318 | 5,01E-12 |
| RDH16 | 10,78598 | 6,73E-12 |
| KRT8 | 10,77064 | 6,07E-188 |
| RANBP17 | 10,7565 | 1,00E-11 |
| CACNA1D | 10,71404 | 7,49E-12 |
| MED12L | 10,68748 | 2,61E-11 |
| HS6ST2 | 10,6606 | 1,75E-13 |
| PGR | 10,64303 | 5,36E-10 |
| CST1 | 10,63197 | 1,52E-11 |
| C5AR2 | 10,62868 | 6,39E-11 |
| FAM155B | 10,6137 | 1,46E-11 |
| ZNF793 | 10,59621 | 1,67E-11 |
| FAM3B | 10,59103 | 1,56E-11 |

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| MPDZ | 10,55379 | 3,25E-11 |
| NAALADL2 | 10,53386 | 3,17E-11 |
| LAD1 | 10,51462 | 1,72E-48 |
| VHL | 10,40108 | 7,51E-30 |
| SPESP1 | 10,40089 | 8,06E-11 |
| TMEM125 | 10,33577 | 6,63E-11 |
| HES2 | 10,32485 | 3,11E-09 |
| ODAM | 10,25357 | 1,05E-10 |
| CEACAM21 | 10,24467 | 1,22E-10 |
| PCDHB3 | 10,22133 | 1,32E-12 |
| TDRD5 | 10,21998 | 1,93E-10 |
| HDHD1 | 10,2152 | 1,97E-10 |
| TSPEAR | 10,21316 | 3,33E-10 |
| MYRIP | 10,21051 | 3,13E-10 |
| C9orf152 | 10,21046 | 2,48E-12 |
| RTN4RL1 | 10,1929 | 6,41E-21 |
| CHGA | 10,17584 | 1,59E-10 |
| EFNB3 | 10,17486 | 1,66E-10 |
| DPYSL4 | 10,15114 | 5,69E-10 |
| SLC9B2 | 10,14817 | 2,25E-10 |
| PCDHA10 | 10,12635 | 2,83E-10 |
| ABCG1 | 10,10235 | 1,58E-12 |
| KCNJ11 | 10,10148 | 7,06E-10 |
| CASC9 | 10,05205 | 3,22E-10 |
| NYNRIN | 10,04999 | 2,37E-08 |
| RAB25 | 10,03756 | 6,93E-45 |
| FREM2 | 10,02204 | 3,32E-91 |
| LRRC26 | 10,01228 | 4,02E-10 |
| AARD | 9,996854 | 4,47E-10 |
| EPHX2 | 9,991915 | 8,17E-10 |
| NFE2 | 9,987011 | 9,13E-10 |
| PCDHA12 | 9,984583 | 7,48E-10 |
| MYO5C | 9,98282 | 1,77E-65 |
| CHRM1 | 9,97669 | 2,12E-09 |
| ZNF570 | 9,976164 | 5,10E-10 |
| HIST3H2A | 9,9669 | 5,20E-10 |
| SIDT1 | 9,966327 | 6,43E-10 |
| HLA-DQB1 | 9,957333 | 2,71E-08 |
| PTEN | 9,948171 | 3,42E-51 |
| RNF223 | 9,942623 | 7,45E-10 |
| KRTAP3-1 | 9,883615 | 4,20E-09 |
| PRR15 | 9,879456 | 1,26E-09 |
| PRRG2 | 9,878964 | 1,81E-09 |
| C18orf63 | 9,852165 | 1,37E-09 |
| RERG | 9,843537 | 1,03E-09 |
| SALL4 | 9,829514 | 2,07E-09 |
| STS | 9,823508 | 2,25E-09 |
| OVOL2 | 9,7665 | 2,49E-08 |
| ERBB4 | 9,765947 | 2,49E-09 |
| MLXIPL | 9,76218 | 2,62E-09 |

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| ZNF732 | 9,701412 | 4,56E-09 |
| ZNF790-AS | 9,681709 | 2,79E-09 |
| RUNDC3A- | 9,676425 | 1,80E-08 |
| NOTCH3 | 9,668522 | 1,03E-124 |
| ASCL1 | 9,665095 | 6,03E-09 |
| ADGRL2 | 9,641219 | 3,64E-09 |
| CDKN2B | 9,623516 | 6,26E-09 |
| FAR2P1 | 9,595467 | 3,13E-08 |
| ELF5 | 9,577022 | 4,20E-08 |
| DEGS2 | 9,576988 | 5,88E-09 |
| GNB4 | 9,552122 | 5,15E-09 |
| STXBP6 | 9,540514 | 5,71E-09 |
| ZNF818P | 9,531062 | 5,85E-09 |
| SYT3 | 9,519156 | 2,69E-08 |
| ZNF704 | 9,502241 | 1,65E-24 |
| CHST8 | 9,486553 | 7,44E-09 |
| SYT17 | 9,480654 | 5,51E-11 |
| S100P | 9,454517 | 1,29E-06 |
| PCSK9 | 9,450355 | 1,15E-07 |
| NOVA1 | 9,44733 | 1,56E-08 |
| TMPRSS13 | 9,42122 | 1,40E-10 |
| JPH3 | 9,407293 | 1,16E-08 |
| KLLN | 9,401508 | 9,10E-08 |
| VIPR1 | 9,366299 | 1,17E-07 |
| MAPK4 | 9,358247 | 2,60E-07 |
| TUBA3E | 9,351443 | 2,87E-08 |
| ZG16B | 9,331266 | 1,74E-07 |
| SLC16A14 | 9,32614 | 4,19E-08 |
| NFATC4 | 9,323664 | 2,00E-08 |
| ENPP5 | 9,316832 | 3,87E-08 |
| FSD1 | 9,308084 | 2,28E-08 |
| C10orf82 | 9,307468 | 3,27E-08 |
| MUC5B | 9,300814 | 2,16E-08 |
| DPYSL5 | 9,293799 | 2,63E-10 |
| CBLC | 9,287005 | 2,87E-08 |
| PKP2 | 9,286406 | 7,71E-21 |
| TEX19 | 9,28594 | 2,72E-08 |
| SPINK5 | 9,281785 | 1,19E-07 |
| DOCK8 | 9,273276 | 2,56E-08 |
| TYRP1 | 9,26941 | 2,69E-08 |
| ERC2 | 9,255166 | 2,63E-08 |
| SLC47A1 | 9,237772 | 4,41E-08 |
| MYT1 | 9,23213 | 3,04E-08 |
| MANSC4 | 9,231071 | 3,50E-06 |
| TFF1 | 9,224533 | 8,98E-53 |
| MB | 9,222074 | 2,69E-10 |
| GPR158 | 9,215829 | 3,59E-08 |
| IRX4 | 9,20963 | 6,87E-08 |
| FAM19A5 | 9,193827 | 6,41E-08 |
| ICA1 | 9,187911 | 1,94E-35 |

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| GDPD1 | 9,18196 | 9,03E-08 |
| PCDHGB5 | 9,154395 | 4,52E-08 |
| PBX1 | 9,148541 | 1,09E-22 |
| LOC148705 | 9,145146 | 5,05E-08 |
| EOMES | 9,138573 | 5,47E-08 |
| DDX43 | 9,123634 | 7,62E-08 |
| AQP3 | 9,123612 | 1,76E-05 |
| GPR27 | 9,116953 | 7,29E-08 |
| VPS9D1-AS | 9,108391 | 4,75E-06 |
| GYLTL1B | 9,106885 | 1,63E-34 |
| C2orf54 | 9,063702 | 8,88E-07 |
| PLA2G4F | 9,062513 | 3,92E-06 |
| KCNK5 | 9,061931 | 3,42E-07 |
| LRRC3 | 9,050911 | 9,59E-08 |
| LMX1B | 9,04411 | 7,40E-10 |
| TC2N | 9,042076 | 1,12E-31 |
| EGR3 | 9,038839 | 1,85E-06 |
| KLRG2 | 9,029619 | 1,19E-07 |
| ACTL8 | 9,01931 | 2,01E-07 |
| ZNF730 | 8,97477 | 1,38E-07 |
| SELENBP1 | 8,97377 | 4,06E-33 |
| LYPD6B | 8,967811 | 1,37E-07 |
| C17orf104 | 8,947897 | 7,17E-07 |
| EMID1 | 8,937782 | 1,65E-07 |
| LOC100505 | 8,932349 | 2,24E-07 |
| LRP3 | 8,922783 | 4,01E-12 |
| HBA1 | 8,920295 | 3,84E-07 |
| ONECUT1 | 8,901736 | 4,20E-07 |
| LGR6 | 8,895304 | 2,87E-07 |
| CA8 | 8,894837 | 2,97E-07 |
| BSPRY | 8,88377 | 2,90E-32 |
| COL4A5 | 8,882935 | 4,61E-07 |
| KIAA1324L | 8,877359 | 1,01E-27 |
| CNGB3 | 8,869793 | 3,02E-07 |
| LOC339862 | 8,863963 | 2,49E-07 |
| LRRN1 | 8,85573 | 3,02E-07 |
| SFMBT2 | 8,850203 | 4,05E-07 |
| RIC3 | 8,843573 | 4,28E-07 |
| GALNT16 | 8,831498 | 9,16E-05 |
| PCDHB4 | 8,827213 | 1,37E-06 |
| PALM3 | 8,822815 | 2,78E-07 |
| FSTL4 | 8,809996 | 5,71E-07 |
| BLNK | 8,802171 | 1,02E-05 |
| DNAH3 | 8,793318 | 4,92E-07 |
| LINC00992 | 8,793057 | 3,64E-07 |
| CXXC4 | 8,791314 | 4,41E-07 |
| NRG3 | 8,782026 | 6,01E-07 |
| ZNF467 | 8,768198 | 1,87E-44 |
| PCAT7 | 8,766369 | 3,65E-07 |
| TUB | 8,759854 | 3,78E-07 |

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| PTCHD2 | 8,759753 | 2,01E-06 |
| GNG13 | 8,747119 | 1,16E-06 |
| C1orf210 | 8,735275 | 8,31E-07 |
| LINC00858 | 8,718416 | 1,26E-06 |
| GSG1L | 8,713328 | 5,24E-07 |
| KLHDC9 | 8,705142 | 5,81E-07 |
| PGM5 | 8,704737 | 8,23E-07 |
| H2AFY2 | 8,704398 | 4,25E-50 |
| FAM110C | 8,698379 | 3,11E-06 |
| SLC22A17 | 8,696749 | 5,80E-07 |
| CRABP1 | 8,688865 | 1,84E-06 |
| ZMAT1 | 8,6844 | 1,76E-05 |
| SPSB4 | 8,678932 | 1,34E-06 |
| LINC01132 | 8,67671 | 3,48E-06 |
| FAM83B | 8,66518 | 6,36E-21 |
| ESR1 | 8,664982 | 0,000227 |
| SOWAHB | 8,660432 | 7,81E-07 |
| GRIK3 | 8,649132 | 3,38E-06 |
| HOXC13-AS1 | 8,636514 | 9,77E-07 |
| LOC100996 | 8,636243 | 9,78E-07 |
| S100A9 | 8,632312 | 0,000146 |
| TNFRSF18 | 8,622678 | 6,42E-06 |
| HTR2C | 8,621764 | 8,11E-07 |
| SLC2A4 | 8,596062 | 1,01E-06 |
| CNNM1 | 8,587668 | 9,39E-07 |
| RADIL | 8,584878 | 3,78E-06 |
| PCDHA5 | 8,583658 | 9,98E-07 |
| NPDC1 | 8,581063 | 3,46E-12 |
| LRP2 | 8,578604 | 9,36E-05 |
| CERS6 | 8,574557 | 4,48E-55 |
| LOC100288 | 8,573547 | 1,23E-06 |
| KCNMB2-A | 8,571721 | 1,02E-06 |
| TERT | 8,568882 | 4,44E-06 |
| SNCAIP | 8,566004 | 1,06E-06 |
| KCNV1 | 8,565895 | 3,74E-06 |
| PLA2G3 | 8,565589 | 7,95E-06 |
| METTL7A | 8,559011 | 4,24E-06 |
| ACE | 8,537557 | 5,95E-06 |
| SERPINB5 | 8,534566 | 2,74E-05 |
| TMPRSS4 | 8,524818 | 2,24E-06 |
| INPP5D | 8,509441 | 0,000109 |
| MPPED2 | 8,507409 | 5,57E-06 |
| EDAR | 8,502445 | 5,53E-06 |
| TPTE | 8,501247 | 1,71E-06 |
| LOC644915 | 8,487253 | 2,44E-06 |
| ANXA9 | 8,484291 | 9,08E-17 |
| FLT4 | 8,4839 | 5,93E-06 |
| DSCAM | 8,482368 | 4,49E-06 |
| ADAMTS19 | 8,481411 | 1,72E-06 |
| RAB11FIP4 | 8,480488 | 9,02E-37 |

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| TENM1 | 8,460122 | 3,34E-06 |
| STMND1 | 8,458081 | 2,03E-06 |
| PVRL4 | 8,450129 | 3,87E-19 |
| MARK1 | 8,448374 | 2,26E-05 |
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| KRT23 | 8,427986 | 2,17E-06 |
| SEMA3D | 8,426853 | 7,35E-06 |
| LINC00664 | 8,423848 | 4,80E-06 |
| FRMPD1 | 8,417716 | 2,67E-06 |
| CCDC83 | 8,416124 | 3,84E-06 |
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| KCNN2 | 8,407571 | 2,40E-06 |
| C4orf19 | 8,392872 | 3,20E-06 |
| ADAMTSL5 | 8,375062 | 3,23E-06 |
| TMEM139 | 8,357632 | 6,45E-06 |
| GOLT1A | 8,353735 | 3,07E-08 |
| SPATA17 | 8,325901 | 2,88E-13 |
| DACH1 | 8,321702 | 3,74E-06 |
| LOC728735 | 8,321603 | 4,19E-06 |
| FAM81B | 8,29645 | 6,14E-06 |
| TLE2 | 8,282682 | 1,90E-28 |
| SUSD2 | 8,279066 | 1,77E-09 |
| ZIC4 | 8,267616 | 5,05E-06 |
| AK7 | 8,261966 | 3,15E-05 |
| PCDH19 | 8,255853 | 1,17E-05 |
| VAX2 | 8,254919 | 6,46E-06 |
| PDZRN3 | 8,252642 | 5,31E-06 |
| MYO7A | 8,246231 | 5,49E-06 |
| FAM83E | 8,237969 | 1,43E-05 |
| CYP1A1 | 8,229605 | 5,86E-10 |
| LOC100128 | 8,218728 | 6,42E-06 |
| GLS2 | 8,209653 | 6,43E-08 |
| RFTN2 | 8,207418 | 1,19E-05 |
| WNT6 | 8,1951 | 7,05E-06 |
| C12orf56 | 8,190084 | 7,89E-08 |
| TMEM132F | 8,186127 | 0,000374 |
| RAI2 | 8,184203 | 1,44E-05 |
| EDA | 8,163528 | 8,29E-06 |
| SESN3 | 8,161599 | 4,21E-11 |
| TTC29 | 8,16056 | 8,96E-06 |
| MPP2 | 8,154055 | 3,19E-07 |
| SLC22A11 | 8,133476 | 4,48E-05 |
| PVALB | 8,128652 | 3,07E-05 |
| ATP2C2 | 8,127678 | 2,31E-37 |
| CES3 | 8,125198 | 1,32E-05 |
| XKRX | 8,123033 | 2,11E-05 |
| TCHHL1 | 8,121114 | 0,000558 |
| NMUR2 | 8,117267 | 1,08E-05 |
| PCDH18 | 8,116304 | 3,29E-18 |
| ITGA2B | 8,109182 | 4,46E-07 |

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| FAM95C | 8,108635 | 1,17E-05 |
| ACBD7 | 8,108509 | 2,25E-12 |
| ZNF613 | 8,075791 | 1,34E-05 |
| IGFL1 | 8,064333 | 0,000539 |
| SNAR-E | 8,057571 | 3,37E-05 |
| KIAA0319 | 8,057478 | 2,85E-05 |
| NODAL | 8,045129 | 2,81E-05 |
| WIF1 | 8,034056 | 0,000108 |
| LYPD6 | 8,031415 | 1,83E-07 |
| RIPPLY3 | 8,030678 | 1,70E-05 |
| LOC102723 | 8,028991 | 1,78E-05 |
| SLC6A14 | 8,021629 | 1,84E-05 |
| KCNH3 | 8,019082 | 1,76E-05 |
| PRLR | 8,002006 | 4,00E-32 |
| FAM196A | 7,997608 | 6,90E-05 |
| SCD5 | 7,996059 | 2,16E-16 |
| TRPM2-AS | 7,98075 | 2,04E-05 |
| ZNF98 | 7,970014 | 4,37E-05 |
| HIST1H2BH | 7,964349 | 2,47E-05 |
| LINC00649 | 7,95993 | 2,31E-05 |
| MYO15B | 7,952081 | 2,59E-05 |
| HS6ST3 | 7,946601 | 2,79E-05 |
| CKMT1A | 7,945939 | 6,97E-21 |
| PCDHB6 | 7,932089 | 4,20E-07 |
| TARP | 7,929655 | 0,000127 |
| F7 | 7,924704 | 0,000112 |
| TBC1D30 | 7,919083 | 3,39E-65 |
| ATP2A3 | 7,91755 | 6,46E-06 |
| KLHL35 | 7,904701 | 3,34E-05 |
| FAR2 | 7,873114 | 1,15E-24 |
| PART1 | 7,870717 | 4,40E-05 |
| SLC16A10 | 7,867742 | 3,56E-05 |
| HOXC13 | 7,864382 | 5,23E-15 |
| NKX6-1 | 7,861121 | 4,21E-05 |
| LOC100996 | 7,857308 | 4,90E-05 |
| PRR36 | 7,853714 | 3,61E-116 |
| FLT3 | 7,843298 | 3,98E-05 |
| ZNF492 | 7,841094 | 1,85E-06 |
| TRPV6 | 7,839458 | 4,26E-05 |
| FAM117A | 7,831434 | 2,05E-19 |
| MIR4458H | 7,815645 | 5,06E-05 |
| MPZL2 | 7,806334 | 3,38E-10 |
| FOXI3 | 7,803027 | 5,46E-05 |
| PLEKHB1 | 7,783899 | 5,57E-10 |
| HIST1H3G | 7,760431 | 6,28E-05 |
| GHR | 7,758397 | 6,12E-05 |
| CDH18 | 7,755186 | 7,27E-05 |
| IGSF11 | 7,739097 | 6,44E-05 |
| TTYH1 | 7,732668 | 0,00029 |
| XKR7 | 7,706455 | 0,000146 |

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| LOC100495 | 7,703927 | 8,30E-05 |
| KIF1A | 7,701857 | 2,95E-32 |
| SLC52A1 | 7,701503 | 0,000268 |
| MGC32805 | 7,700419 | 0,00025 |
| NPY1R | 7,696399 | 9,07E-23 |
| STK31 | 7,686371 | 0,000121 |
| GATA3-AS1 | 7,679904 | 9,90E-05 |
| LAMC3 | 7,635508 | 0,000107 |
| PCDHB13 | 7,635282 | 2,29E-14 |
| TMEM105 | 7,631475 | 0,000183 |
| LOC440461 | 7,621685 | 0,000252 |
| ARL11 | 7,619124 | 0,000124 |
| ICOS | 7,616717 | 0,000125 |
| MIR4720 | 7,616464 | 0,000498 |
| NRARP | 7,610288 | 2,50E-06 |
| EMCN | 7,605789 | 0,000137 |
| BMP7 | 7,605634 | 3,15E-206 |
| PCDHAC1 | 7,604953 | 0,000248 |
| LINC00885 | 7,603152 | 0,000614 |
| POTEF | 7,590039 | 0,000145 |
| EWSAT1 | 7,588461 | 0,00023 |
| IGSF1 | 7,587363 | 0,000638 |
| KCNF1 | 7,582982 | 0,000159 |
| GSC | 7,577927 | 0,00045 |
| ASAH2 | 7,575202 | 8,09E-15 |
| LRRC10B | 7,571337 | 0,000273 |
| NXPH3 | 7,56973 | 0,000232 |
| DLG2 | 7,568322 | 0,000143 |
| ATP8A1 | 7,565042 | 0,000195 |
| GPM6B | 7,54746 | 0,000154 |
| KCNU1 | 7,540378 | 0,000174 |
| TFF3 | 7,533683 | 1,04E-09 |
| TDGF1 | 7,526115 | 0,000981 |
| ALG1L | 7,523868 | 3,19E-16 |
| SEPP1 | 7,519956 | 0,000633 |
| CYP4F22 | 7,51708 | 0,000237 |
| VAV3 | 7,512661 | 1,31E-44 |
| GJB5 | 7,508207 | 0,000928 |
| CALML5 | 7,507674 | 0,000327 |
| CCSER1 | 7,503569 | 0,000234 |
| NRK | 7,503225 | 0,000658 |
| CACNA2D2 | 7,485417 | 0,000269 |
| TLX1NB | 7,483169 | 0,000206 |
| ZNF853 | 7,482133 | 0,000255 |
| UCP2 | 7,482108 | 3,69E-12 |
| CD36 | 7,461541 | 0,000474 |
| MISP | 7,458585 | 1,78E-30 |
| NDNF | 7,449916 | 0,000238 |
| MARVELD3 | 7,449304 | 4,23E-24 |
| ASIC1 | 7,447499 | 1,87E-08 |

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| C8orf48 | 7,446323 | 0,000278 |
| ARHGEF38 | 7,435964 | 0,00033 |
| CAPN9 | 7,42082 | 0,000332 |
| LOC441666 | 7,414795 | 0,000343 |
| DEFB126 | 7,41459 | 0,000278 |
| VANGL2 | 7,408307 | 0,000302 |
| SNAR-G1 | 7,399427 | 0,00039 |
| OXGR1 | 7,383426 | 0,000426 |
| PKIB | 7,383362 | 3,30E-54 |
| NPTX1 | 7,378993 | 0,000831 |
| RIMS4 | 7,373767 | 1,30E-13 |
| CELF3 | 7,368203 | 0,000518 |
| ADIRF | 7,339199 | 0,000436 |
| WNT9A | 7,332159 | 0,000605 |
| IBSP | 7,323665 | 0,000416 |
| SLC5A5 | 7,321496 | 0,000896 |
| GRID2IP | 7,312824 | 0,000424 |
| IGSF5 | 7,310567 | 8,26E-06 |
| CEACAM5 | 7,303705 | 0,001005 |
| KCNJ4 | 7,301908 | 0,000485 |
| OVOL1 | 7,30019 | 1,65E-16 |
| URAHP | 7,297494 | 0,000536 |
| PARM1 | 7,293774 | 0,000674 |
| ZNF350 | 7,292806 | 5,45E-09 |
| TMC5 | 7,288107 | 2,56E-12 |
| NAP1L2 | 7,281376 | 0,000931 |
| RGMA | 7,274685 | 5,94E-15 |
| C19orf45 | 7,272505 | 0,000499 |
| PLIN5 | 7,26845 | 0,000614 |
| CA4 | 7,258167 | 0,000656 |
| SRRM2-AS1 | 7,255796 | 0,000791 |
| GRTP1 | 7,248506 | 2,05E-18 |
| MYH10 | 7,239945 | 3,66E-06 |
| TIMP3 | 7,236697 | 8,33E-09 |
| PDE9A | 7,219836 | 1,27E-05 |
| PRKG2 | 7,210574 | 0,000652 |
| NPW | 7,204505 | 1,13E-05 |
| HUNK | 7,199516 | 7,61E-31 |
| ZNF385C | 7,183095 | 1,25E-05 |
| NMNAT3 | 7,177669 | 0,000957 |
| KDF1 | 7,15215 | 4,89E-23 |
| KIAA1257 | 7,147947 | 2,08E-05 |
| ZNF793-AS | 7,136727 | 0,000861 |
| RAP1GAP2 | 7,135852 | 5,02E-35 |
| EVPL | 7,119684 | 8,46E-68 |
| FA2H | 7,082957 | 5,54E-09 |
| SLC9A4 | 7,05969 | 2,05E-07 |
| YBX2 | 7,056466 | 2,27E-66 |
| WNT11 | 7,023685 | 2,16E-10 |
| MYLIP | 7,016305 | 3,24E-42 |

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| DEF6 | 7,008592 | 1,49E-11 |
| MUC3A | 7,002574 | 3,70E-05 |
| SYNE4 | 6,991769 | 5,37E-36 |
| PPL | 6,981754 | 6,31E-59 |
| TMEM254- | 6,975341 | 1,75E-07 |
| KRT19 | 6,963958 | 4,10E-86 |
| CLDN3 | 6,960838 | 7,19E-62 |
| SCN4A | 6,957427 | 5,69E-12 |
| CLDN7 | 6,953666 | 5,04E-115 |
| IL17RB | 6,895841 | 3,40E-10 |
| SHF | 6,85221 | 3,62E-10 |
| PLEKHG6 | 6,848796 | 7,65E-14 |
| RAB26 | 6,831142 | 3,18E-10 |
| FRAT1 | 6,826997 | 6,35E-05 |
| FIRRE | 6,814962 | 1,16E-06 |
| TUBA3D | 6,806951 | 5,46E-07 |
| FAM83G | 6,80323 | 1,65E-33 |
| NAT8L | 6,793479 | 4,11E-31 |
| PALM | 6,778632 | 3,36E-21 |
| PADI2 | 6,76915 | 2,01E-07 |
| MAPT | 6,762347 | 2,12E-36 |
| UPK2 | 6,738369 | 4,21E-07 |
| UNC5C | 6,730906 | 0,000278 |
| KCNQ5 | 6,700083 | 0,000214 |
| ADSSL1 | 6,694036 | 1,30E-06 |
| FCGR1A | 6,684635 | 6,99E-06 |
| NRXN2 | 6,684038 | 2,08E-18 |
| PRSS22 | 6,668443 | 7,10E-07 |
| MACC1 | 6,652126 | 1,88E-07 |
| PDE3B | 6,6488 | 5,13E-14 |
| CRLF1 | 6,623011 | 4,88E-07 |
| DBNDD1 | 6,622369 | 1,08E-37 |
| LDHD | 6,62224 | 4,71E-06 |
| PCDHB8 | 6,61743 | 2,15E-21 |
| B3GNT3 | 6,60778 | 3,37E-13 |
| RORC | 6,575663 | 0,000232 |
| HIST1H2AC | 6,569431 | 0,0002 |
| PRSS8 | 6,567871 | 3,72E-111 |
| C2orf15 | 6,564041 | 1,13E-21 |
| DLGAP3 | 6,562335 | 1,15E-11 |
| KIAA1324 | 6,553657 | 1,50E-25 |
| FAM46C | 6,551078 | 2,63E-13 |
| HPN | 6,53984 | 1,19E-16 |
| ESRP1 | 6,500024 | 1,04E-107 |
| ENPP4 | 6,484821 | 1,89E-11 |
| AMIGO1 | 6,460151 | 1,02E-06 |
| GLDN | 6,446814 | 0,000329 |
| TFAP2C | 6,429285 | 8,06E-71 |
| IGSF9 | 6,423122 | 3,43E-98 |
| SLC22A31 | 6,422454 | 1,59E-06 |

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| RASAL1 | 6,402642 | 7,24E-06 |
| ITGB4 | 6,402459 | 3,87E-87 |
| KCNJ8 | 6,401005 | 4,08E-48 |
| SLAIN1 | 6,400853 | 5,35E-10 |
| COLCA1 | 6,398284 | 0,000438 |
| HPDL | 6,36353 | 2,48E-12 |
| GPX2 | 6,35236 | 0,000433 |
| RNF150 | 6,337871 | 5,60E-06 |
| EPHB3 | 6,335718 | 1,23E-22 |
| CALCR | 6,290504 | 1,14E-05 |
| GPC2 | 6,285325 | 6,04E-11 |
| C2CD4C | 6,274163 | 0,000834 |
| FUT9 | 6,260379 | 5,44E-08 |
| FCHO1 | 6,244449 | 2,10E-68 |
| CD8A | 6,243818 | 6,32E-08 |
| KCNJ3 | 6,209144 | 5,82E-08 |
| MYB | 6,200487 | 2,50E-09 |
| STK26 | 6,174214 | 1,01E-47 |
| HTR6 | 6,148404 | 0,000885 |
| SLC7A8 | 6,137788 | 4,92E-22 |
| RHOV | 6,137754 | 1,10E-23 |
| SFN | 6,131731 | 3,36E-61 |
| GRHL3 | 6,130752 | 4,10E-26 |
| CACNA1H | 6,120562 | 4,96E-55 |
| LRRC37A8F | 6,100995 | 1,08E-05 |
| LODC1 | 6,072222 | 5,29E-75 |
| GSTO2 | 6,061528 | 6,25E-37 |
| GREB1 | 6,054238 | 9,36E-35 |
| RASGRF1 | 6,048602 | 4,17E-25 |
| FAM174B | 6,039983 | 1,26E-20 |
| DLX4 | 6,019329 | 1,23E-05 |
| FGD3 | 6,015655 | 4,43E-17 |
| ST14 | 6,00813 | 2,70E-63 |
| EPPK1 | 5,992505 | 1,97E-26 |
| CALHM2 | 5,98076 | 3,28E-15 |
| FBXO15 | 5,958603 | 2,60E-05 |
| SLC30A3 | 5,956975 | 3,66E-05 |
| MYO1D | 5,927141 | 7,10E-49 |
| LYPD3 | 5,92403 | 6,39E-23 |
| TACSTD2 | 5,900003 | 3,92E-75 |
| CKMT1B | 5,894785 | 4,55E-29 |
| TEX15 | 5,872006 | 4,93E-09 |
| SYT7 | 5,843926 | 5,41E-101 |
| ALDH3A1 | 5,782161 | 0,000184 |
| ACTG2 | 5,763303 | 8,44E-06 |
| SLC27A5 | 5,757769 | 3,87E-32 |
| WDR72 | 5,743129 | 1,40E-19 |
| HOXD12 | 5,738307 | 0,000887 |
| SYT1 | 5,726794 | 2,69E-20 |
| CNTNAP2 | 5,719705 | 1,23E-10 |

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| LINC00052 | 5,719585 | 8,73E-09 |
| JUP | 5,705703 | 4,95E-48 |
| ENTPD1 | 5,678805 | 2,29E-11 |
| PLD6 | 5,673847 | 3,17E-20 |
| CADM4 | 5,638491 | 1,73E-31 |
| AIF1L | 5,635415 | 2,71E-86 |
| C2CD4D | 5,632863 | 0,000329 |
| TM7SF2 | 5,628177 | 5,36E-35 |
| ADRA2C | 5,621313 | 2,07E-37 |
| TIAM1 | 5,619338 | 8,64E-07 |
| ALDH6A1 | 5,619078 | 7,69E-42 |
| PROM2 | 5,602315 | 7,56E-24 |
| NSUN7 | 5,594387 | 1,87E-11 |
| FAM171A2 | 5,578442 | 6,49E-45 |
| SLC9A2 | 5,568993 | 2,45E-68 |
| MATK | 5,562463 | 1,82E-57 |
| C1orf115 | 5,547056 | 2,40E-15 |
| HLA-DRB5 | 5,543358 | 0,00039 |
| LLGL2 | 5,538 | 3,33E-92 |
| RSPH1 | 5,515934 | 1,32E-05 |
| SYTL4 | 5,513617 | 1,12E-05 |
| FAM83H-A | 5,499665 | 5,32E-54 |
| BCAS3 | 5,498152 | 8,67E-76 |
| PCDHA7 | 5,46731 | 2,93E-07 |
| SLC15A2 | 5,465479 | 7,51E-05 |
| BGN | 5,427068 | 0,000132 |
| KRT18 | 5,42308 | 6,89E-48 |
| TUBD1 | 5,416469 | 4,88E-45 |
| TMC4 | 5,412348 | 7,29E-29 |
| GATSL2 | 5,407112 | 4,60E-60 |
| TOX2 | 5,384028 | 3,81E-11 |
| LOC11323C | 5,383386 | 7,07E-23 |
| CCDC3 | 5,378616 | 0,001003 |
| TEX14 | 5,374436 | 0,000322 |
| FOXO4 | 5,366722 | 0,000513 |
| ZFP14 | 5,36657 | 4,39E-16 |
| ZNF711 | 5,361319 | 1,46E-18 |
| GAMT | 5,352391 | 1,41E-25 |
| ZSWIM5 | 5,350294 | 1,61E-07 |
| NEURL1B | 5,344856 | 4,39E-24 |
| ABAT | 5,337216 | 4,52E-14 |
| SEMA6B | 5,315315 | 1,10E-17 |
| LRRC73 | 5,313704 | 2,46E-09 |
| UNC5A | 5,313405 | 0,000813 |
| CBX2 | 5,294903 | 5,74E-100 |
| TINCR | 5,286307 | 4,98E-13 |
| ADGRB1 | 5,279603 | 9,76E-24 |
| REEP6 | 5,264875 | 4,08E-41 |
| ELOVL4 | 5,264289 | 0,000313 |
| CHDH | 5,26392 | 6,60E-14 |

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| KCNC3 | 5,25792 | 2,87E-33 |
| NKD1 | 5,250168 | 3,40E-59 |
| GNG7 | 5,242476 | 1,40E-07 |
| ATP1A3 | 5,200715 | 6,61E-18 |
| MAP2K6 | 5,200068 | 2,27E-09 |
| CGN | 5,188384 | 1,56E-56 |
| FZD9 | 5,18477 | 1,02E-05 |
| TFAP2A | 5,17402 | 4,02E-131 |
| SYTL1 | 5,170581 | 1,26E-26 |
| ADGRL1 | 5,13893 | 4,49E-105 |
| MALRD1 | 5,1299 | 4,52E-05 |
| FLRT3 | 5,12521 | 3,21E-41 |
| KYNU | 5,118848 | 6,46E-23 |
| VAV1 | 5,112282 | 8,27E-11 |
| MBNL3 | 5,089653 | 1,94E-56 |
| GPLD1 | 5,082525 | 2,06E-05 |
| BCL11B | 5,068808 | 5,28E-48 |
| SP6 | 5,06322 | 1,24E-32 |
| TMEM52 | 5,049082 | 7,26E-08 |
| PPM1D | 5,043954 | 6,33E-90 |
| TMEM121 | 5,028557 | 1,56E-06 |
| ADGRV1 | 5,011908 | 6,55E-05 |
| LINC01006 | 5,009341 | 0,000114 |
| B3GALT4 | 5,009023 | 1,85E-05 |
| C1orf226 | 5,001692 | 1,27E-07 |
| ETNK2 | 4,99316 | 4,35E-27 |
| LOC283335 | 4,9891 | 7,06E-13 |
| AKR1E2 | 4,978732 | 8,77E-08 |
| KRT86 | 4,966228 | 0,000316 |
| RTN1 | 4,952543 | 0,000827 |
| RAPGEF5 | 4,949417 | 0,001006 |
| CDC42BPG | 4,945263 | 4,98E-19 |
| ADAM22 | 4,943616 | 3,50E-12 |
| RPRM | 4,926919 | 1,39E-05 |
| HCN4 | 4,909942 | 1,89E-07 |
| CEACAM1 | 4,907804 | 2,95E-12 |
| ATP6V0E2 | 4,898355 | 3,58E-42 |
| LMO2 | 4,874094 | 0,000486 |
| C17orf97 | 4,866706 | 7,47E-17 |
| FGFR3 | 4,860981 | 1,36E-17 |
| RCN3 | 4,857763 | 0,000301 |
| CACFD1 | 4,853187 | 2,88E-13 |
| B4GALNT4 | 4,849504 | 1,51E-24 |
| DHRS2 | 4,847815 | 5,12E-23 |
| METTTL7B | 4,843293 | 0,000104 |
| RAB17 | 4,842643 | 2,81E-14 |
| KLHL13 | 4,839232 | 1,16E-08 |
| FAM178B | 4,82877 | 0,000904 |
| HSD11B2 | 4,827987 | 7,14E-11 |
| TMEM229E | 4,818356 | 4,36E-13 |

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| ILDR1 | 4,814599 | 3,99E-21 |
| EPCAM | 4,810609 | 1,19E-102 |
| FDXR | 4,79753 | 7,03E-18 |
| KREMEN2 | 4,793282 | 2,21E-54 |
| FAM222A | 4,779299 | 5,53E-42 |
| COBL | 4,750235 | 2,77E-20 |
| BATF | 4,722619 | 7,86E-09 |
| SOX2 | 4,715705 | 9,30E-13 |
| AKR1C2 | 4,710315 | 5,69E-09 |
| SLC45A4 | 4,704796 | 3,72E-18 |
| DYNC1I1 | 4,704233 | 1,57E-31 |
| MEST | 4,703507 | 1,10E-107 |
| TLCD1 | 4,69639 | 1,06E-52 |
| SHH | 4,685144 | 1,29E-06 |
| AP4B1-AS1 | 4,682127 | 2,45E-13 |
| SLC7A2 | 4,674546 | 1,11E-33 |
| MEX3A | 4,671064 | 2,80E-121 |
| C1orf233 | 4,663559 | 1,47E-40 |
| NOTUM | 4,645438 | 7,20E-13 |
| SLC4A8 | 4,643012 | 3,09E-08 |
| EEF1A2 | 4,626863 | 1,99E-54 |
| RHPN1 | 4,61842 | 1,66E-32 |
| BRIP1 | 4,587243 | 8,39E-70 |
| JAG2 | 4,568022 | 2,19E-29 |
| CNIH2 | 4,565897 | 8,49E-15 |
| DNAAF3 | 4,556084 | 4,92E-22 |
| FLJ10038 | 4,551074 | 2,39E-18 |
| TESC | 4,545337 | 0,000782 |
| ZCCHC12 | 4,544474 | 5,97E-06 |
| NEB | 4,540066 | 1,46E-32 |
| CLMN | 4,533954 | 1,58E-25 |
| MARC1 | 4,520978 | 1,68E-36 |
| FAM69B | 4,494782 | 3,43E-07 |
| RPS6KB1 | 4,491079 | 2,70E-117 |
| ARL15 | 4,490302 | 1,82E-09 |
| CNFN | 4,483039 | 0,000303 |
| ZDHHC23 | 4,477086 | 1,22E-16 |
| ARTN | 4,476726 | 6,50E-05 |
| LHX4 | 4,463645 | 2,83E-34 |
| SLC29A2 | 4,460179 | 1,38E-35 |
| SCAMP5 | 4,453413 | 1,05E-17 |
| SORT1 | 4,437623 | 2,74E-36 |
| ALDH5A1 | 4,430792 | 9,59E-39 |
| FAM213A | 4,425294 | 3,71E-41 |
| TP53TG1 | 4,421458 | 5,36E-27 |
| DHTKD1 | 4,418975 | 7,07E-71 |
| ZNF497 | 4,417796 | 3,67E-10 |
| CREB3L4 | 4,416843 | 6,49E-16 |
| PTPN6 | 4,416448 | 5,04E-10 |
| TRIM37 | 4,403863 | 1,13E-125 |

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| AXIN2 | 4,402852 | 7,10E-90 |
| ZNF385A | 4,400757 | 2,27E-66 |
| GREB1L | 4,396537 | 0,000601 |
| ALDH3A2 | 4,388437 | 1,63E-83 |
| LINC01003 | 4,380055 | 2,52E-07 |
| PCDHGB2 | 4,378987 | 0,000165 |
| FRMD6-AS1 | 4,360294 | 7,87E-06 |
| PRRT4 | 4,34984 | 0,000115 |
| CAMK2B | 4,344628 | 6,27E-11 |
| L2HGDH | 4,312912 | 2,61E-34 |
| SMPDL3B | 4,304967 | 1,03E-36 |
| TMEM97 | 4,304326 | 4,77E-65 |
| ZNF879 | 4,301368 | 4,09E-06 |
| CA11 | 4,280363 | 5,75E-06 |
| PREX1 | 4,277033 | 1,65E-51 |
| CELF5 | 4,27689 | 7,03E-06 |
| ERV3-1 | 4,259793 | 1,60E-22 |
| APPBP2 | 4,259401 | 3,15E-112 |
| DTX3 | 4,247482 | 7,21E-27 |
| EHF | 4,239268 | 0,00025 |
| LRFN1 | 4,237592 | 1,73E-08 |
| USP32 | 4,230191 | 2,43E-43 |
| EFHD1 | 4,226231 | 3,63E-12 |
| KRTCAP3 | 4,224448 | 4,84E-20 |
| PRDM6 | 4,221887 | 4,40E-07 |
| LYRM9 | 4,218861 | 7,43E-08 |
| BDH1 | 4,218031 | 1,33E-54 |
| MTL5 | 4,215757 | 6,80E-18 |
| HEATR6 | 4,200054 | 8,91E-75 |
| RMI2 | 4,197429 | 5,05E-28 |
| FAM171B | 4,193317 | 3,16E-23 |
| RHOBTB1 | 4,193118 | 1,03E-80 |
| HOOK1 | 4,18456 | 7,00E-16 |
| PCDH7 | 4,176863 | 9,84E-09 |
| ADAMTS13 | 4,171878 | 2,56E-05 |
| BCAS1 | 4,167976 | 1,81E-05 |
| MTMR4 | 4,154596 | 4,44E-61 |
| CPT1C | 4,15065 | 1,75E-05 |
| DHFRL1 | 4,148432 | 6,95E-15 |
| ADAM11 | 4,146964 | 5,24E-07 |
| SP5 | 4,142276 | 1,27E-39 |
| LINC00925 | 4,137209 | 6,42E-08 |
| TNRC6C | 4,133269 | 2,28E-49 |
| FOXA1 | 4,131224 | 3,72E-88 |
| NDRG2 | 4,129026 | 1,88E-14 |
| KBTBD7 | 4,119314 | 6,97E-11 |
| RAD51C | 4,115075 | 4,55E-74 |
| ELMO3 | 4,100785 | 3,30E-41 |
| ARHGAP39 | 4,089179 | 2,94E-27 |
| CRMP1 | 4,070618 | 5,53E-08 |

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| SIM2 | 4,059076 | 0,000649 |
| PODXL2 | 4,054086 | 4,05E-48 |
| SIX4 | 4,053182 | 1,59E-24 |
| CYP1B1 | 4,041483 | 1,79E-05 |
| CTSF | 4,03573 | 6,63E-08 |
| PRKCZ | 4,027294 | 2,14E-28 |
| SLC26A4-A' | 4,01697 | 6,54E-10 |
| CXADR | 4,01587 | 7,71E-20 |
| PRICKLE2-A' | 3,998501 | 4,43E-05 |
| ASH1L-AS1 | 3,992103 | 0,000918 |
| IQCH-AS1 | 3,987963 | 3,51E-15 |
| FAM227B | 3,98745 | 4,94E-05 |
| HIST2H2BE | 3,986552 | 3,27E-13 |
| CLU | 3,970964 | 2,11E-24 |
| EFR3B | 3,962512 | 4,70E-19 |
| JMY | 3,953759 | 3,02E-10 |
| GAA | 3,936595 | 4,89E-34 |
| COLEC12 | 3,924531 | 1,19E-14 |
| EFNA4 | 3,915648 | 1,97E-19 |
| VASH2 | 3,912098 | 4,44E-07 |
| ADGRE2 | 3,910704 | 6,79E-05 |
| CYP2J2 | 3,909647 | 1,27E-14 |
| PARD6B | 3,902396 | 1,97E-28 |
| DCXR | 3,888978 | 4,51E-38 |
| KNDC1 | 3,853255 | 9,21E-06 |
| BTG2 | 3,845164 | 1,01E-13 |
| PBXIP1 | 3,840873 | 4,79E-09 |
| FGFR2 | 3,833107 | 2,69E-05 |
| ZNF821 | 3,826942 | 7,86E-15 |
| IL17RE | 3,813704 | 2,15E-06 |
| CGREF1 | 3,808037 | 2,96E-29 |
| DNMT3A | 3,806559 | 4,39E-50 |
| LOC100506 | 3,79364 | 1,72E-09 |
| PRSS23 | 3,79134 | 5,38E-33 |
| CEMIP | 3,78381 | 9,90E-15 |
| REEP1 | 3,771066 | 1,04E-05 |
| GALNT12 | 3,762374 | 1,17E-19 |
| ANKRD34A | 3,757896 | 6,13E-14 |
| SPINT1 | 3,757106 | 5,84E-42 |
| HYKK | 3,75374 | 3,35E-06 |
| DGKE | 3,753429 | 8,41E-13 |
| TMEM191A | 3,751327 | 1,14E-14 |
| RAC3 | 3,746616 | 2,75E-30 |
| FAM214A | 3,725923 | 4,43E-10 |
| KCNK15 | 3,724737 | 1,72E-15 |
| ARHGEF4 | 3,724649 | 3,79E-05 |
| PRRT3 | 3,722094 | 8,93E-06 |
| FOXO6 | 3,717833 | 0,000375 |
| SRRM3 | 3,714597 | 0,000427 |
| MOCS1 | 3,711164 | 7,80E-09 |

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| PITPNC1 | 3,707705 | 9,00E-33 |
| BRSK1 | 3,693827 | 1,51E-10 |
| PCDHB16 | 3,688994 | 5,36E-17 |
| PXN-AS1 | 3,688119 | 1,03E-14 |
| TMEM187 | 3,672888 | 9,69E-13 |
| ACVR2B | 3,67051 | 1,39E-10 |
| STARD10 | 3,667832 | 3,81E-23 |
| CNKS1 | 3,666537 | 0,000444 |
| PCDHB14 | 3,666126 | 1,80E-18 |
| AGAP2 | 3,665993 | 3,99E-17 |
| ICK | 3,665751 | 1,68E-40 |
| CSPG5 | 3,665329 | 1,60E-08 |
| KRBA2 | 3,659739 | 4,20E-06 |
| PCDHB9 | 3,653752 | 1,23E-10 |
| FASN | 3,65103 | 2,44E-24 |
| PTPRO | 3,649014 | 3,60E-10 |
| MANSC1 | 3,639365 | 2,26E-09 |
| SPATA7 | 3,636598 | 5,33E-10 |
| OLFM2 | 3,636255 | 3,57E-26 |
| SLC46A3 | 3,634212 | 0,00019 |
| TEX9 | 3,633694 | 7,45E-10 |
| LONRF2 | 3,601273 | 6,48E-14 |
| PSMD6 | 3,600829 | 5,37E-63 |
| MAFB | 3,598815 | 9,55E-14 |
| CPLX1 | 3,598445 | 7,25E-13 |
| IRF6 | 3,595374 | 5,35E-17 |
| FAM117B | 3,594135 | 1,68E-22 |
| PCSK6 | 3,57954 | 1,73E-25 |
| PPFIBP2 | 3,55452 | 7,27E-14 |
| CTXN1 | 3,53785 | 2,15E-41 |
| ASCL5 | 3,529406 | 0,000433 |
| RGL2 | 3,52251 | 8,75E-23 |
| HOXC11 | 3,522415 | 7,48E-09 |
| NRGN | 3,513856 | 2,18E-09 |
| HSD17B8 | 3,508756 | 4,00E-07 |
| YPEL1 | 3,507376 | 0,000684 |
| HSD17B7 | 3,499974 | 1,68E-09 |
| PPAPDC2 | 3,486642 | 4,95E-10 |
| SUSD3 | 3,477727 | 4,37E-07 |
| CFAP53 | 3,472445 | 0,000174 |
| FAM102B | 3,470913 | 3,97E-38 |
| CASKIN1 | 3,462457 | 1,35E-12 |
| ASS1 | 3,460361 | 4,72E-18 |
| CACNA2D1 | 3,452833 | 2,70E-10 |
| MAP3K14- | 3,450185 | 1,93E-07 |
| DUSP9 | 3,448888 | 7,36E-09 |
| TSPAN15 | 3,446096 | 5,95E-18 |
| LRRC24 | 3,444403 | 1,34E-06 |
| ATP5S | 3,430793 | 7,76E-12 |
| PLCH1 | 3,425678 | 3,83E-31 |

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| EPHB4 | 3,419799 | 5,66E-68 |
| FAM72D | 3,418325 | 7,10E-11 |
| XYLT1 | 3,41826 | 1,12E-08 |
| C4orf48 | 3,411681 | 1,84E-15 |
| FBXL16 | 3,409745 | 2,37E-12 |
| BOLA1 | 3,404325 | 5,32E-20 |
| LOC101927 | 3,401406 | 6,34E-15 |
| PFDN4 | 3,394908 | 8,41E-63 |
| TSTD1 | 3,393185 | 1,19E-19 |
| P2RY6 | 3,386927 | 0,000331 |
| EFNA2 | 3,376858 | 0,000338 |
| TP53I11 | 3,373529 | 2,50E-34 |
| NKAIN1 | 3,371403 | 4,32E-17 |
| C2orf81 | 3,371363 | 1,90E-07 |
| FRAS1 | 3,364255 | 5,09E-20 |
| TET1 | 3,347367 | 1,39E-09 |
| GLUD2 | 3,33963 | 1,85E-08 |
| LMTK3 | 3,339602 | 1,64E-08 |
| CELSR3 | 3,331421 | 5,92E-19 |
| ZNF703 | 3,330719 | 3,72E-56 |
| ANKRD18A | 3,32568 | 2,55E-05 |
| TTC25 | 3,325481 | 0,000569 |
| SUV420H2 | 3,323913 | 1,56E-19 |
| G6PD | 3,317617 | 0,000743 |
| BCAM | 3,308112 | 7,42E-28 |
| SFXN2 | 3,305444 | 5,15E-19 |
| SUOX | 3,301373 | 7,00E-11 |
| CHRM3 | 3,301025 | 4,55E-05 |
| CRHR1-IT1 | 3,296608 | 0,000113 |
| SMIM14 | 3,294669 | 1,46E-06 |
| RNF44 | 3,294247 | 2,84E-44 |
| DOC2A | 3,293501 | 3,18E-06 |
| KSR2 | 3,29055 | 8,55E-06 |
| NCOA3 | 3,285236 | 9,65E-45 |
| SOX4 | 3,283663 | 4,75E-40 |
| IGFLR1 | 3,279726 | 7,41E-08 |
| CDKN1A | 3,277401 | 9,08E-11 |
| NANOS1 | 3,269817 | 3,74E-15 |
| ISYNA1 | 3,26653 | 2,02E-41 |
| THNSL1 | 3,265854 | 3,40E-16 |
| NUDT7 | 3,265024 | 0,000414 |
| TMTC2 | 3,255038 | 1,97E-09 |
| AP4S1 | 3,251664 | 2,26E-09 |
| UNC13D | 3,249047 | 4,72E-05 |
| AP1M2 | 3,237128 | 3,01E-42 |
| EPHA6 | 3,236467 | 7,54E-08 |
| GDPD3 | 3,235521 | 0,000501 |
| SRCIN1 | 3,233343 | 0,000111 |
| C11orf71 | 3,230252 | 1,08E-05 |
| TBX2-AS1 | 3,228777 | 3,47E-05 |

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| NIPSNAP1 | 3,22665 | 3,32E-42 |
| DDIT4L | 3,224486 | 1,19E-08 |
| C6orf52 | 3,220141 | 0,000286 |
| TKFC | 3,218874 | 1,74E-20 |
| C17orf96 | 3,204066 | 1,77E-28 |
| ID1 | 3,199436 | 2,70E-14 |
| DHCR7 | 3,199255 | 9,36E-28 |
| RPRD1A | 3,197652 | 2,89E-45 |
| POLG2 | 3,197056 | 3,14E-09 |
| NDRG4 | 3,196447 | 3,72E-07 |
| UFSP1 | 3,190312 | 1,16E-05 |
| KRT81 | 3,188341 | 0,000234 |
| ZBTB42 | 3,187639 | 4,45E-27 |
| THNSL2 | 3,185984 | 1,29E-10 |
| ALDH4A1 | 3,185943 | 3,72E-08 |
| XK | 3,185405 | 0,000199 |
| PIK3C2B | 3,183123 | 3,38E-28 |
| LENG9 | 3,174205 | 3,40E-10 |
| CCNG2 | 3,173829 | 1,57E-10 |
| PIK3R3 | 3,17162 | 8,09E-18 |
| AMZ2P1 | 3,16836 | 7,09E-07 |
| TP53INP1 | 3,164382 | 8,76E-07 |
| EFNA3 | 3,157236 | 1,98E-15 |
| FMO5 | 3,15639 | 0,000484 |
| PLEKHH1 | 3,155548 | 4,42E-24 |
| MAP7 | 3,151964 | 4,07E-33 |
| DYRK1B | 3,150195 | 1,37E-22 |
| SAMD12 | 3,148388 | 1,58E-09 |
| SEPT3 | 3,139472 | 4,42E-14 |
| RAB30 | 3,110869 | 1,65E-17 |
| SEMA4G | 3,109343 | 0,000366 |
| ZSCAN16 | 3,105809 | 7,79E-18 |
| IPO5P1 | 3,096521 | 9,47E-11 |
| TRAPPC6A | 3,094219 | 5,34E-17 |
| MIR5047 | 3,090186 | 1,94E-05 |
| TDRKH | 3,084433 | 6,42E-13 |
| TMC6 | 3,081516 | 7,17E-19 |
| ZNF253 | 3,071887 | 1,69E-26 |
| EXPH5 | 3,064038 | 6,75E-19 |
| ACADSB | 3,056451 | 3,55E-12 |
| PROCA1 | 3,051769 | 0,000228 |
| SYNPO2 | 3,047143 | 8,21E-09 |
| ATXN7L3B | 3,047066 | 1,75E-46 |
| DHRS13 | 3,040992 | 4,58E-10 |
| RALGPS1 | 3,03936 | 7,37E-12 |
| UNG | 3,035691 | 2,25E-42 |
| HBP1 | 3,033918 | 1,04E-10 |
| ELL3 | 3,03273 | 5,19E-12 |
| GABPB1-AS1 | 3,03033 | 3,71E-09 |
| ZNF837 | 3,024929 | 6,62E-07 |

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| ZBTB12 | 3,016013 | 6,14E-08 |
| SERINC5 | 3,011158 | 1,77E-18 |
| NUDT16L1 | 3,007989 | 6,03E-15 |
| HR | 3,007782 | 5,49E-13 |
| SLC27A3 | 3,004443 | 4,46E-31 |
| DSP | 2,990561 | 1,03E-45 |
| LIPT2 | 2,989156 | 0,000772 |
| SLC25A10 | 2,988291 | 1,99E-42 |
| ZNF287 | 2,986738 | 5,28E-09 |
| SORL1 | 2,982038 | 2,27E-09 |
| STOX1 | 2,970118 | 0,000122 |
| SOX13 | 2,968994 | 2,75E-14 |
| PARD6A | 2,967669 | 0,000154 |
| ARID5B | 2,964913 | 3,08E-27 |
| SH3YL1 | 2,964035 | 1,49E-22 |
| PCYOX1L | 2,963953 | 1,44E-12 |
| GLUL | 2,962135 | 2,22E-67 |
| HOOK2 | 2,959838 | 2,19E-41 |
| IFT140 | 2,955675 | 8,81E-07 |
| MTMR7 | 2,954551 | 0,000596 |
| ZNF19 | 2,948621 | 4,19E-05 |
| DDR1 | 2,948465 | 4,74E-13 |
| SMKR1 | 2,945895 | 3,37E-09 |
| FAM131A | 2,94445 | 2,68E-06 |
| ZP3 | 2,940165 | 1,04E-14 |
| MDM2 | 2,934547 | 4,57E-14 |
| HCN2 | 2,934166 | 7,19E-10 |
| FRAT2 | 2,933956 | 4,20E-08 |
| PRMT6 | 2,933145 | 2,84E-46 |
| ZNF204P | 2,931461 | 0,000205 |
| STRA13 | 2,930603 | 2,56E-33 |
| SYNGR1 | 2,928829 | 2,74E-05 |
| NIPBL-AS1 | 2,924041 | 3,29E-10 |
| TMEM38A | 2,917689 | 1,39E-05 |
| C21orf33 | 2,916151 | 1,33E-22 |
| RGS6 | 2,912671 | 0,000232 |
| SLC29A4 | 2,911311 | 5,42E-14 |
| PLXDC2 | 2,910112 | 1,86E-15 |
| NUDT2 | 2,909024 | 6,32E-08 |
| MSI2 | 2,906011 | 8,89E-15 |
| FAM201A | 2,905726 | 8,47E-05 |
| PDZD4 | 2,903828 | 1,27E-06 |
| FBXL20 | 2,898123 | 2,44E-06 |
| CCM2L | 2,894093 | 9,03E-05 |
| PLEKHA7 | 2,892196 | 2,13E-21 |
| EFNA1 | 2,888585 | 1,33E-10 |
| CFAP44 | 2,888167 | 0,000979 |
| EMP2 | 2,884242 | 4,07E-18 |
| TRPS1 | 2,878529 | 8,96E-45 |
| ZNF721 | 2,878317 | 3,21E-25 |

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| ATXN7L1 | 2,873738 | 3,04E-16 |
| ZNF652 | 2,865432 | 1,11E-25 |
| UNKL | 2,855208 | 2,71E-13 |
| GDF11 | 2,852826 | 2,71E-12 |
| ZNF217 | 2,847627 | 2,30E-53 |
| SCML2 | 2,847216 | 1,73E-08 |
| BFSP1 | 2,8465 | 2,57E-06 |
| MAML3 | 2,84633 | 6,72E-06 |
| ZNRF3 | 2,844808 | 5,69E-45 |
| SH3BP5 | 2,841552 | 3,89E-38 |
| ALKBH4 | 2,837539 | 2,00E-23 |
| DUSP2 | 2,834022 | 1,47E-05 |
| ADI1 | 2,832865 | 3,56E-26 |
| SYNE2 | 2,831285 | 9,63E-19 |
| KAZALD1 | 2,830611 | 0,000222 |
| PAIP2B | 2,824564 | 7,73E-08 |
| PXMP4 | 2,818698 | 6,25E-07 |
| MAN1A1 | 2,816276 | 4,30E-13 |
| FAM72A | 2,806229 | 6,55E-05 |
| ATP6V1E2 | 2,791382 | 0,000327 |
| CFD | 2,788668 | 2,53E-06 |
| NMNAT2 | 2,784532 | 5,26E-06 |
| CYP24A1 | 2,783908 | 0,000214 |
| SARM1 | 2,782903 | 1,41E-06 |
| RNASEL | 2,781734 | 3,36E-08 |
| SVIP | 2,778076 | 8,53E-13 |
| D2HGDH | 2,777821 | 4,64E-16 |
| MEPCE | 2,776305 | 1,56E-49 |
| ROGDI | 2,767255 | 2,06E-10 |
| CCDC85C | 2,753491 | 4,90E-36 |
| PSMG3-AS1 | 2,752711 | 2,28E-09 |
| CELSR2 | 2,745222 | 3,65E-27 |
| PRKAR2B | 2,739588 | 1,97E-07 |
| PIF1 | 2,733856 | 0,000109 |
| NUDT12 | 2,733451 | 8,16E-06 |
| DTWD1 | 2,732164 | 7,04E-18 |
| STARD5 | 2,725723 | 0,000257 |
| SMARCD2 | 2,715145 | 9,72E-36 |
| KDM5B | 2,710088 | 2,25E-18 |
| ZNF815P | 2,704942 | 0,00045 |
| FAAH | 2,698683 | 1,26E-12 |
| SLC46A1 | 2,695357 | 1,33E-13 |
| FZD3 | 2,693712 | 1,73E-12 |
| FLJ37453 | 2,684489 | 7,16E-05 |
| FAM86C2P | 2,683803 | 1,17E-06 |
| PEX1 | 2,683396 | 6,25E-19 |
| CSDE1 | 2,676035 | 9,64E-31 |
| MCM3AP- 1 | 2,6751 | 2,22E-10 |
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| FZD2 | 2,67124 | 6,91E-13 |

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| TRIM33 | 2,668185 | 4,95E-34 |
| E2F2 | 2,66477 | 2,05E-05 |
| INTS2 | 2,663598 | 4,99E-10 |
| JHDM1D-A | 2,655123 | 3,31E-09 |
| MACROD1 | 2,653416 | 4,07E-14 |
| MPZL3 | 2,652744 | 8,95E-09 |
| LAMA5 | 2,650172 | 3,08E-32 |
| SIAE | 2,649546 | 1,75E-09 |
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| EPHA10 | 2,644792 | 8,07E-05 |
| ZKSCAN1 | 2,640108 | 2,45E-24 |
| FAM46B | 2,638257 | 7,81E-08 |
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| LAGE3 | 2,632313 | 6,27E-21 |
| C6orf226 | 2,630161 | 2,34E-05 |
| ZFP90 | 2,629165 | 1,33E-20 |
| C5 | 2,62631 | 1,64E-06 |
| ZNF595 | 2,625787 | 7,41E-14 |
| KIAA2018 | 2,610906 | 3,12E-13 |
| MXD4 | 2,608826 | 1,82E-09 |
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| ZNF397 | 2,604951 | 3,04E-07 |
| MKL2 | 2,603084 | 2,27E-23 |
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| SLX4IP | 2,578716 | 3,10E-05 |
| HOXC-AS3 | 2,577343 | 0,000414 |
| DANCR | 2,577322 | 5,36E-19 |
| PTPRS | 2,576965 | 1,98E-30 |
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| KANSL1L | 2,567684 | 2,34E-08 |
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| LEF1 | 2,562536 | 2,21E-18 |
| MBTD1 | 2,558886 | 1,11E-11 |
| SPA17 | 2,55885 | 1,31E-07 |
| CCDC88C | 2,556605 | 6,67E-13 |
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| ZNF512B | 2,554433 | 1,17E-21 |
| MCTS2P | 2,553339 | 2,23E-08 |
| CCDC120 | 2,552838 | 2,59E-08 |
| TRIM41 | 2,550487 | 7,35E-25 |
| CRABP2 | 2,547083 | 1,28E-08 |
| DNPH1 | 2,546381 | 2,96E-33 |
| FAM212B | 2,546327 | 1,03E-05 |
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| SPPL2A | 2,53898 | 7,08E-29 |
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| SNX27 | 2,533902 | 1,20E-29 |

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| ZSCAN21 | 2,530847 | 1,91E-19 |
| TMEM238 | 2,530626 | 2,09E-06 |
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| USP30 | 2,525014 | 5,08E-11 |
| WNT10B | 2,523555 | 0,000145 |
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| MIR600HG | 2,515701 | 4,11E-06 |
| TMEM168 | 2,511042 | 8,79E-22 |
| SLC9A3R1 | 2,507766 | 3,35E-18 |
| VPS26B | 2,504643 | 3,39E-11 |
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| ABCB6 | 2,476358 | 3,57E-14 |
| FITM2 | 2,47524 | 9,96E-09 |
| WDR34 | 2,474593 | 2,72E-36 |
| OSBP2 | 2,470901 | 0,000133 |
| SECTM1 | 2,468875 | 2,61E-05 |
| ATOH8 | 2,46586 | 1,04E-05 |
| ZFP62 | 2,465664 | 4,28E-27 |
| PAXIP1-AS1 | 2,46563 | 2,16E-06 |
| DLGAP5 | 2,464704 | 7,50E-31 |
| PYGO2 | 2,462759 | 5,01E-25 |
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| SEMA3F | 2,451309 | 2,05E-15 |
| ERVMER34 | 2,449118 | 7,07E-05 |
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| SOBP | 2,441052 | 0,00037 |
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| XPC | 2,43871 | 5,96E-21 |
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| ZNF117 | 2,433573 | 4,17E-07 |
| OR7E14P | 2,43311 | 0,000174 |
| DYNLL2 | 2,431858 | 9,11E-37 |
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| TRIM45 | 2,4284 | 6,48E-08 |
| LOC90784 | 2,428161 | 5,74E-20 |
| SETMAR | 2,425052 | 2,10E-14 |
| ZNF76 | 2,417117 | 2,09E-13 |
| FAM185A | 2,414733 | 8,80E-09 |
| FAM172A | 2,412629 | 5,45E-08 |
| PP7080 | 2,406461 | 8,47E-10 |

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| GSTA4 | 2,405666 | 3,27E-07 |
| ZNF687 | 2,403817 | 2,88E-34 |
| ZMYM2 | 2,399234 | 1,03E-30 |
| LRRC45 | 2,398548 | 1,30E-21 |
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| ABCA2 | 2,393398 | 9,27E-15 |
| SNHG25 | 2,390219 | 2,02E-05 |
| DET1 | 2,386704 | 4,69E-05 |
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| GOLPH3L | 2,379669 | 2,48E-10 |
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| TMEM184 | 2,358176 | 2,15E-08 |
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| CLDN4 | 2,354052 | 3,82E-12 |
| CHD6 | 2,351676 | 1,77E-29 |
| ARHGAP19 | 2,351598 | 1,61E-08 |
| COG7 | 2,34981 | 2,87E-13 |
| NQO1 | 2,346836 | 4,43E-05 |
| PPA2 | 2,345855 | 3,19E-16 |
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| GSTZ1 | 2,343687 | 8,36E-20 |
| CCNG1 | 2,342651 | 2,48E-07 |
| STXBP4 | 2,340323 | 4,56E-05 |
| HES6 | 2,340209 | 0,000624 |
| NDUFB10 | 2,337887 | 1,16E-29 |
| KHK | 2,337053 | 4,39E-14 |
| PPM1L | 2,333581 | 0,000137 |
| EFEMP1 | 2,331765 | 1,45E-22 |
| CMTM8 | 2,330094 | 3,94E-09 |
| DTNB | 2,325707 | 1,35E-13 |
| DTD2 | 2,325165 | 2,37E-09 |
| BPTF | 2,322454 | 8,29E-37 |
| ESRP2 | 2,321653 | 2,29E-21 |
| PTRH2 | 2,31606 | 1,35E-19 |
| SEMA4A | 2,315749 | 4,61E-11 |
| CACNB3 | 2,314858 | 4,04E-23 |
| PRDX2 | 2,312474 | 2,38E-26 |
| GMCL1 | 2,308947 | 2,41E-11 |
| ZNF219 | 2,307645 | 4,56E-13 |
| MMAB | 2,306469 | 9,67E-26 |
| SH2D3A | 2,30561 | 1,86E-05 |
| OSCP1 | 2,300715 | 0,000199 |
| F11R | 2,296762 | 7,55E-22 |
| PUS7 | 2,2953 | 2,26E-16 |

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| ALAD | 2,28842 | 4,12E-10 |
| DHX40 | 2,287201 | 2,57E-17 |
| AP3B1 | 2,281147 | 1,06E-22 |
| MMACHC | 2,280126 | 1,56E-06 |
| ARHGAP44 | 2,278925 | 4,01E-08 |
| MYO5B | 2,278373 | 5,17E-17 |
| GLCE | 2,276647 | 1,42E-13 |
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| PCDHGB1 | 2,274047 | 1,58E-05 |
| TEAD3 | 2,273826 | 9,79E-13 |
| SIAH2 | 2,273816 | 6,69E-17 |
| MMP24-AS | 2,272159 | 1,18E-08 |
| TCAF1 | 2,271056 | 1,92E-13 |
| SERTAD4 | 2,270469 | 4,99E-06 |
| MCM9 | 2,267919 | 1,09E-09 |
| DENND6A | 2,265217 | 4,59E-12 |
| RSAD1 | 2,262291 | 4,29E-13 |
| FHDC1 | 2,261309 | 2,33E-05 |
| ZSCAN2 | 2,260519 | 6,79E-16 |
| TMEM37 | 2,260472 | 1,85E-06 |
| KIAA0586 | 2,259601 | 6,70E-12 |
| FAM86EP | 2,257879 | 1,44E-05 |
| TSPAN6 | 2,256491 | 1,09E-12 |
| MIS18BP1 | 2,255365 | 1,16E-07 |
| SPR | 2,254647 | 1,57E-22 |
| HDHC3 | 2,253072 | 1,29E-12 |
| LHPP | 2,252961 | 1,36E-10 |
| RASGEF1A | 2,251175 | 3,78E-09 |
| ZNF771 | 2,250384 | 1,50E-06 |
| IDUA | 2,249851 | 3,76E-05 |
| GCHFR | 2,2479 | 0,000681 |
| RMI1 | 2,241176 | 1,93E-07 |
| HIPK1 | 2,241114 | 2,23E-29 |
| MAGI1 | 2,24108 | 7,16E-11 |
| CPNE7 | 2,23719 | 4,16E-06 |
| FTSJ3 | 2,235419 | 6,96E-19 |
| ABCC5 | 2,23332 | 1,24E-09 |
| ZNF276 | 2,233034 | 2,24E-17 |
| THUMPD3- | 2,232422 | 6,24E-05 |
| PHLPP1 | 2,23239 | 1,09E-18 |
| SURF1 | 2,231948 | 4,12E-10 |
| RBM47 | 2,231602 | 1,60E-10 |
| NEBL | 2,226872 | 3,36E-13 |
| ARRB2 | 2,224137 | 2,94E-17 |
| TOB1 | 2,221588 | 6,98E-12 |
| TNFRSF19 | 2,220615 | 3,03E-18 |
| ZNF362 | 2,218784 | 2,30E-08 |
| GAREM | 2,214658 | 9,03E-05 |
| SNAPC5 | 2,211369 | 6,81E-12 |
| LTBP1 | 2,210877 | 1,90E-13 |

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| NR1D2 | 2,206529 | 2,10E-15 |
| DAAM1 | 2,204861 | 4,61E-17 |
| STX6 | 2,19832 | 4,93E-20 |
| ERMP1 | 2,198015 | 1,13E-07 |
| PSRC1 | 2,19496 | 1,63E-11 |
| PATZ1 | 2,19383 | 1,01E-14 |
| C1QTNF9B | 2,19253 | 9,80E-06 |
| ARID2 | 2,191102 | 4,12E-16 |
| TBC1D9 | 2,1907 | 1,20E-17 |
| MED13 | 2,190665 | 5,75E-25 |
| PDF | 2,189832 | 7,85E-06 |
| TET2 | 2,186594 | 9,54E-17 |
| GSE1 | 2,182786 | 9,53E-27 |
| H1FX | 2,181721 | 4,89E-15 |
| IL17RD | 2,178513 | 1,90E-06 |
| EHMT2 | 2,176384 | 3,62E-25 |
| DLD | 2,176135 | 2,71E-13 |
| CD9 | 2,175448 | 7,67E-17 |
| C3orf14 | 2,17539 | 1,04E-15 |
| KNOP1 | 2,174659 | 3,35E-24 |
| ZFH3 | 2,172832 | 1,97E-21 |
| THOC7 | 2,17244 | 1,47E-27 |
| ARSG | 2,170585 | 1,12E-07 |
| RAB3A | 2,169848 | 0,000122 |
| NT5C | 2,169451 | 2,61E-10 |
| CDC25C | 2,168814 | 4,39E-06 |
| KIAA1958 | 2,167692 | 1,14E-11 |
| EGFL7 | 2,164945 | 1,00E-10 |
| SLC22A23 | 2,156183 | 4,23E-16 |
| BCDIN3D | 2,155933 | 2,93E-05 |
| IVD | 2,154676 | 2,07E-15 |
| CRYL1 | 2,154594 | 4,62E-05 |
| TMEM183 | 2,154071 | 7,60E-25 |
| MGC57346 | 2,15258 | 1,34E-05 |
| BBS4 | 2,152037 | 3,62E-07 |
| LINC00938 | 2,149128 | 7,18E-07 |
| PYCRL | 2,148207 | 3,62E-11 |
| OLMALINC | 2,148042 | 4,62E-05 |
| CNOT6 | 2,143538 | 1,30E-20 |
| AHR | 2,141976 | 2,74E-24 |
| EAPP | 2,140104 | 6,32E-13 |
| IQCK | 2,13866 | 5,68E-10 |
| IDH2 | 2,134446 | 1,58E-23 |
| UBN2 | 2,131958 | 1,35E-12 |
| APRT | 2,131371 | 6,26E-30 |
| FANCE | 2,125991 | 0,000645 |
| ISOC1 | 2,124165 | 1,46E-19 |
| THEM6 | 2,121643 | 1,68E-16 |
| H1FO | 2,121306 | 2,75E-06 |
| RSBN1 | 2,118846 | 1,65E-14 |

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| LIG3 | 2,113982 | 8,41E-18 |
| OSR2 | 2,113933 | 0,000106 |
| WDR17 | 2,107635 | 0,000573 |
| RNF122 | 2,106671 | 2,77E-06 |
| MPND | 2,105402 | 2,46E-11 |
| SPICE1 | 2,102798 | 5,57E-10 |
| KIF20A | 2,100358 | 1,69E-18 |
| NOL11 | 2,097412 | 1,77E-28 |
| RCOR2 | 2,092604 | 7,34E-05 |
| ATPAF2 | 2,092085 | 6,06E-09 |
| AP1S1 | 2,091149 | 9,57E-10 |
| ACTR3B | 2,089261 | 3,90E-13 |
| C2orf68 | 2,08673 | 4,27E-17 |
| CARHSP1 | 2,082649 | 3,72E-19 |
| MED20 | 2,080032 | 3,18E-08 |
| MUT | 2,079136 | 1,21E-08 |
| PI4K2B | 2,07909 | 6,05E-12 |
| MED13L | 2,078596 | 1,66E-17 |
| KIF14 | 2,078207 | 3,88E-19 |
| PCLO | 2,076885 | 1,11E-10 |
| MRPS25 | 2,076017 | 1,18E-20 |
| AP4M1 | 2,073632 | 4,44E-12 |
| C14orf2 | 2,070575 | 1,61E-22 |
| TOP2B | 2,070374 | 4,10E-26 |
| MDM1 | 2,066916 | 3,44E-05 |
| MUC1 | 2,06627 | 0,000226 |
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| TEAD2 | 2,063764 | 5,44E-13 |
| TRIM4 | 2,06282 | 2,91E-14 |
| EPB41L4A- | 2,060202 | 1,77E-06 |
| TTC8 | 2,058287 | 7,10E-11 |
| INTS4 | 2,056741 | 5,35E-12 |
| ANGEL1 | 2,056503 | 2,77E-10 |
| PARPBP | 2,056435 | 2,67E-12 |
| DNAJC19 | 2,056042 | 6,49E-10 |
| LNX2 | 2,055337 | 4,79E-15 |
| FAM50B | 2,054642 | 9,76E-08 |
| ZBTB5 | 2,053959 | 2,52E-11 |
| EIF5AL1 | 2,053593 | 4,36E-08 |
| USP8 | 2,053147 | 1,03E-25 |
| WDR54 | 2,052941 | 3,21E-08 |
| ANKS1A | 2,05273 | 3,43E-17 |
| CETN3 | 2,051963 | 3,38E-07 |
| ARPP19 | 2,050835 | 2,54E-25 |
| C9orf116 | 2,050161 | 1,47E-05 |
| NCBP2-AS2 | 2,048272 | 2,08E-10 |
| CTNNBIP1 | 2,046523 | 8,16E-10 |
| THAP9 | 2,046201 | 0,00086 |
| LINC01521 | 2,045241 | 0,000151 |
| TMPO-AS1 | 2,037517 | 5,56E-05 |

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| ZNF3 | 2,031505 | 2,27E-18 |
| PANK3 | 2,029899 | 1,29E-15 |
| RNF208 | 2,029619 | 5,03E-08 |
| BTBD6 | 2,02554 | 6,67E-08 |
| PRKX | 2,025419 | 8,66E-11 |
| CINP | 2,023568 | 6,01E-08 |
| MDM4 | 2,022631 | 3,35E-09 |
| EIF4B | 2,02175 | 3,49E-31 |
| ZNF252P | 2,020998 | 1,28E-18 |
| ILF3-AS1 | 2,020644 | 1,03E-07 |
| ZMYND11 | 2,01959 | 4,00E-20 |
| HMBS | 2,018393 | 2,14E-19 |
| TBC1D5 | 2,018124 | 6,77E-19 |
| IFT27 | 2,017629 | 9,88E-08 |
| MCCC2 | 2,015866 | 6,40E-16 |
| SCAI | 2,014994 | 3,55E-07 |
| NMU | 2,014965 | 0,000607 |
| TPRN | 2,014202 | 6,12E-12 |
| SCAND2P | 2,013952 | 0,000946 |
| CNOT8 | 2,01389 | 4,48E-18 |
| SMURF2 | 2,01382 | 2,77E-11 |
| ALG6 | 2,012594 | 0,000112 |
| DEPDC1B | 2,011123 | 1,17E-08 |
| MGAT4A | 2,008719 | 4,05E-05 |
| IFT22 | 2,007305 | 2,81E-18 |
| MKS1 | 2,006108 | 1,16E-10 |
| EZH2 | 2,004043 | 4,08E-10 |
| TAMM41 | 2,002768 | 3,23E-12 |
| BBS2 | 2,002129 | 3,67E-10 |
| NSD1 | 2,000123 | 1,54E-29 |
| ZNF624 | 1,998038 | 5,31E-05 |
| SLC25A29 | 1,997946 | 4,32E-17 |
| SKIDA1 | 1,996079 | 0,000239 |
| HIST1H2BD | 1,995616 | 0,000298 |
| DENND2D | 1,994185 | 1,50E-13 |
| RFX5 | 1,994028 | 8,05E-08 |
| ZMIZ1 | 1,99375 | 1,10E-13 |
| PRUNE | 1,993064 | 5,49E-09 |
| ZNF618 | 1,991568 | 3,29E-23 |
| NR1H3 | 1,991531 | 0,000252 |
| ZNF74 | 1,987459 | 5,20E-16 |
| GSTM3 | 1,98596 | 3,48E-05 |
| LINC00674 | 1,983378 | 1,03E-12 |
| IST1 | 1,983333 | 9,47E-17 |
| SCD | 1,982163 | 2,03E-29 |
| FAM210B | 1,981829 | 1,48E-09 |
| MCM2 | 1,981739 | 4,38E-25 |
| TMEM198f | 1,980963 | 3,60E-05 |
| ARHGEF3 | 1,979968 | 2,64E-09 |
| SULF2 | 1,97995 | 5,79E-13 |

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| ZNF18 | 1,978354 | 0,000492 |
| INSR | 1,974233 | 0,000998 |
| LYSMD2 | 1,97422 | 4,72E-11 |
| SLC9A3R2 | 1,97058 | 1,13E-15 |
| SETDB1 | 1,970197 | 1,11E-12 |
| PSMD5-AS1 | 1,969318 | 4,98E-06 |
| DPH1 | 1,969282 | 0,000102 |
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| WDR6 | 1,966503 | 1,76E-13 |
| ASMTL | 1,965056 | 3,22E-08 |
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| PITPNA-AS1 | 1,963224 | 0,000243 |
| ADAT1 | 1,962836 | 4,95E-17 |
| SIGIRR | 1,961264 | 4,66E-13 |
| ARHGEF9 | 1,96125 | 3,08E-05 |
| LMNB1 | 1,957719 | 4,93E-19 |
| GDE1 | 1,954254 | 3,55E-15 |
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| IL27RA | 1,951365 | 1,72E-05 |
| TBCK | 1,950823 | 9,46E-12 |
| RPRD2 | 1,950583 | 4,66E-23 |
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| CLNS1A | 1,949675 | 5,86E-22 |
| LOC730101 | 1,949147 | 0,000902 |
| HMG20B | 1,945369 | 4,69E-23 |
| TMEM106C | 1,944796 | 3,93E-13 |
| COA3 | 1,944114 | 2,21E-10 |
| FIS1 | 1,943142 | 1,00E-18 |
| NUDT16 | 1,942676 | 3,52E-06 |
| GIN1 | 1,940487 | 2,23E-06 |
| C16orf46 | 1,93705 | 4,34E-05 |
| GALNT3 | 1,936891 | 1,72E-06 |
| ANKRD50 | 1,936362 | 3,55E-19 |
| DCP2 | 1,936169 | 8,46E-14 |
| ZCWPW1 | 1,936132 | 6,32E-05 |
| DDX6 | 1,934929 | 5,78E-23 |
| H2AFX | 1,93456 | 4,60E-23 |
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| BCAS2 | 1,928126 | 8,13E-19 |
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| ZNF277 | 1,925222 | 6,00E-11 |
| MYEF2 | 1,922917 | 3,49E-07 |
| SIKE1 | 1,922111 | 1,21E-20 |
| PC | 1,922052 | 0,000941 |
| CDKN3 | 1,917677 | 1,02E-15 |
| MVK | 1,91755 | 4,90E-05 |
| HIP1 | 1,916506 | 3,84E-12 |

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| ENSA | 1,916195 | 2,31E-25 |
| ZNF354A | 1,91538 | 1,50E-08 |
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| ADRBK2 | 1,8863 | 0,00033 |
| SUPT4H1 | 1,886089 | 6,53E-18 |
| PGBD2 | 1,88535 | 5,71E-05 |
| HOMEZ | 1,884982 | 2,45E-07 |
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| KLHDC3 | 1,878681 | 6,47E-11 |
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| BRWD1 | 1,877667 | 1,19E-10 |
| FAM53B | 1,876941 | 8,19E-17 |
| OCLN | 1,875707 | 1,25E-06 |
| MAPK6 | 1,87364 | 8,08E-22 |
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| TRMT5 | 1,872895 | 2,03E-10 |
| DHODH | 1,87246 | 2,33E-10 |
| CBLB | 1,870345 | 2,92E-10 |
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| ZNF619 | 1,866254 | 0,000371 |

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| BRCA2 | 1,865189 | 1,66E-06 |
| PCMTD2 | 1,864824 | 2,66E-07 |
| GAS8 | 1,864658 | 3,69E-12 |
| PLXNB1 | 1,864245 | 1,47E-13 |
| TNS2 | 1,863907 | 2,08E-05 |
| C12orf66 | 1,862493 | 6,58E-05 |
| C10orf35 | 1,861893 | 0,000212 |
| MAPK3 | 1,861204 | 5,58E-08 |
| LEO1 | 1,860617 | 5,03E-23 |
| CBR4 | 1,858207 | 5,60E-10 |
| GCH1 | 1,857495 | 3,85E-08 |
| PGM2L1 | 1,855357 | 5,89E-10 |
| CLTC | 1,85472 | 3,74E-14 |
| CBX8 | 1,854249 | 4,62E-06 |
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| DCTPP1 | 1,848254 | 3,34E-16 |
| PIGO | 1,84817 | 6,86E-07 |
| RPS3 | 1,84653 | 2,09E-15 |
| C1QBP | 1,844614 | 6,59E-19 |
| AMOT | 1,840886 | 3,19E-09 |
| C12orf57 | 1,839899 | 1,56E-09 |
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| PAXIP1 | 1,832357 | 1,32E-11 |
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| ZNF552 | 1,828207 | 0,000167 |
| COX7C | 1,825253 | 2,60E-20 |
| MRPL41 | 1,825119 | 2,10E-15 |
| PAQR8 | 1,823404 | 2,69E-05 |
| TMEM129 | 1,823043 | 6,46E-06 |
| ZNF212 | 1,822999 | 4,12E-09 |
| COIL | 1,821578 | 1,30E-06 |
| TGIF2 | 1,821516 | 1,54E-08 |
| ARMC10 | 1,821151 | 1,30E-15 |
| TMEM64 | 1,819807 | 6,58E-19 |
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| CCP110 | 1,817135 | 9,10E-06 |
| PGAP2 | 1,816811 | 1,31E-09 |
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| IMPACT | 1,814725 | 3,46E-12 |
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| ELMOD2 | 1,81354 | 1,19E-06 |

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| RAB15 | 1,811328 | 9,28E-11 |
| PIAS3 | 1,811046 | 1,63E-11 |
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| MTUS1 | 1,809785 | 6,56E-10 |
| CIRBP | 1,809545 | 2,91E-07 |
| BRMS1L | 1,809079 | 2,11E-06 |
| ATP6V1C2 | 1,809021 | 0,00054 |
| LMTK2 | 1,808107 | 5,57E-15 |
| DHRS4 | 1,807398 | 9,76E-08 |
| POGZ | 1,805812 | 4,23E-10 |
| OMA1 | 1,805486 | 4,62E-05 |
| ZNF629 | 1,804484 | 1,27E-17 |
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| BCL7A | 1,802896 | 3,22E-12 |
| RNASEH1- A | 1,801181 | 3,00E-08 |
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| PAQR4 | 1,798326 | 1,64E-20 |
| PLK1 | 1,798269 | 4,99E-10 |
| AP4E1 | 1,796751 | 8,16E-09 |
| CDH24 | 1,796579 | 5,60E-11 |
| ZNF33B | 1,79585 | 1,00E-09 |
| ARID4A | 1,79581 | 2,30E-07 |
| WDR83 | 1,795148 | 6,11E-07 |
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| RPS25 | 1,787901 | 2,01E-15 |
| FANCM | 1,787473 | 7,91E-05 |
| PRICKLE2 | 1,787447 | 1,36E-05 |
| METTL2A | 1,787083 | 5,17E-14 |
| HEXDC | 1,786851 | 1,34E-06 |
| DHFR | 1,785347 | 2,04E-11 |
| CBS | 1,784097 | 3,93E-07 |
| LAMTOR4 | 1,78365 | 5,29E-14 |
| ATXN1L | 1,781752 | 3,54E-10 |
| TMEM144 | 1,781664 | 0,000229 |
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| SNHG8 | 1,780525 | 0,000336 |
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| ACAT2 | 1,776825 | 1,87E-11 |
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| ISOC2 | 1,773746 | 3,54E-14 |
| ZNF184 | 1,772642 | 2,41E-08 |
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| PRADC1 | 1,769858 | 0,000741 |
| PPCDC | 1,768577 | 1,24E-06 |
| HSD17B4 | 1,76796 | 2,59E-10 |
| EZH1 | 1,767788 | 0,000243 |
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| PDCD6 | 1,760457 | 5,21E-14 |
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| PAGR1 | 1,752512 | 5,68E-17 |
| ZNF337 | 1,752309 | 0,000142 |
| RAB3IP | 1,750124 | 1,29E-16 |
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| ARHGEF39 | 1,744788 | 0,000862 |
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| WIBG | 1,740556 | 8,21E-12 |
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| HSPA1B | 1,735859 | 7,07E-05 |
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| IFT122 | 1,73175 | 7,29E-06 |
| ABHD11 | 1,73108 | 1,06E-09 |
| COPG2 | 1,730685 | 1,16E-09 |
| NELFA | 1,730384 | 6,93E-14 |
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| FBXL19 | 1,72624 | 1,15E-12 |
| MFSD3 | 1,72609 | 4,06E-12 |
| TMPO | 1,726011 | 5,55E-09 |
| FBXO31 | 1,724073 | 8,83E-13 |
| RGS12 | 1,72406 | 3,31E-08 |
| NMRAL1 | 1,72365 | 1,60E-14 |
| CORO1B | 1,721865 | 6,12E-06 |
| ARMCX6 | 1,7204 | 1,79E-08 |
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| PLEKHA6 | 1,718805 | 1,15E-09 |
| SLMAP | 1,718589 | 1,35E-09 |
| HSP90AA1 | 1,718451 | 7,50E-11 |
| HEATR5A | 1,717347 | 1,75E-09 |
| HSDL1 | 1,716708 | 2,92E-08 |
| ACSF2 | 1,715126 | 0,000357 |
| TARBP2 | 1,712335 | 1,55E-12 |
| CCPG1 | 1,711003 | 7,45E-05 |

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| PLEKHF2 | 1,709645 | 3,50E-12 |
| CHCHD6 | 1,708917 | 5,88E-05 |
| CCDC47 | 1,706468 | 2,23E-15 |
| TBX3 | 1,706466 | 1,16E-06 |
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| BAG5 | 1,703326 | 5,79E-12 |
| MCM7 | 1,703263 | 1,23E-14 |
| CAND1 | 1,700891 | 7,48E-16 |
| TARS2 | 1,698113 | 1,89E-10 |
| HMGCS1 | 1,697279 | 2,22E-07 |
| NFS1 | 1,696606 | 5,98E-09 |
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| RSBN1L | 1,695889 | 1,40E-07 |
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| TRPM7 | 1,695769 | 9,14E-18 |
| SSH3 | 1,694805 | 5,32E-08 |
| RBSN | 1,693486 | 8,98E-12 |
| SMAD6 | 1,692367 | 0,000556 |
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| ZNF490 | 1,690533 | 9,28E-05 |
| INPP4B | 1,690199 | 3,69E-06 |
| ULK1 | 1,69015 | 2,84E-07 |
| NCBP2 | 1,689002 | 1,85E-14 |
| PPM1A | 1,68636 | 5,34E-08 |
| SCAMP1 | 1,683781 | 3,02E-09 |
| RALGAPA2 | 1,683431 | 2,90E-05 |
| TMEM254 | 1,683095 | 5,60E-08 |
| TMEM216 | 1,68018 | 0,000229 |
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| ZFP3 | 1,676905 | 1,20E-07 |
| WWOX | 1,676722 | 3,34E-08 |
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| PPP1R9A | 1,670392 | 4,41E-07 |
| GABPB2 | 1,670117 | 1,68E-05 |
| RPL17 | 1,668092 | 2,98E-09 |
| TMEM134 | 1,66688 | 1,59E-06 |
| BCL2L1 | 1,666191 | 4,51E-08 |
| PIGQ | 1,665733 | 5,84E-09 |
| GABPB1 | 1,664993 | 2,17E-09 |
| TP53 | 1,664072 | 2,30E-09 |
| FAM175A | 1,66393 | 1,15E-07 |
| PODXL | 1,66379 | 6,70E-08 |
| ITPKB | 1,663447 | 1,39E-06 |
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| SAPCD2 | 1,656808 | 2,13E-08 |
| TRAF7 | 1,656195 | 2,82E-17 |
| TACO1 | 1,656149 | 3,55E-15 |
| ARNT | 1,656114 | 3,50E-12 |
| ZNF433 | 1,654812 | 0,000126 |

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| FAM111B | 1,654396 | 1,07E-08 |
| NAT1 | 1,654198 | 0,000473 |
| PSTPIP2 | 1,652361 | 8,16E-06 |
| TMCO6 | 1,651225 | 5,25E-05 |
| ZNF500 | 1,649299 | 0,000716 |
| ZNF282 | 1,646948 | 4,05E-14 |
| MYO6 | 1,645444 | 1,66E-12 |
| MAZ | 1,645281 | 6,94E-16 |
| PHACTR2 | 1,640453 | 1,39E-08 |
| IRX5 | 1,640102 | 5,60E-08 |
| GIGYF1 | 1,638922 | 0,000133 |
| LOC728554 | 1,637712 | 3,09E-07 |
| BTBD9 | 1,637574 | 0,00016 |
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| ETFA | 1,635494 | 1,72E-09 |
| EEF2K | 1,635415 | 5,83E-12 |
| ATP11C | 1,633504 | 2,44E-08 |
| GTF2I | 1,633442 | 5,53E-18 |
| POP7 | 1,633241 | 1,87E-07 |
| LRP5 | 1,633206 | 1,67E-11 |
| C14orf80 | 1,632247 | 1,24E-09 |
| NDUFAB1 | 1,630624 | 3,59E-08 |
| AASDH | 1,629913 | 0,000668 |
| UQCRH | 1,629495 | 1,32E-16 |
| DIRAS1 | 1,628618 | 9,93E-09 |
| MRE11A | 1,627931 | 1,33E-06 |
| SOS2 | 1,627651 | 1,49E-09 |
| LRRC75A-A | 1,627301 | 1,39E-06 |
| NCAPD2 | 1,625919 | 1,20E-13 |
| CECR5 | 1,625478 | 1,00E-10 |
| FKBP3 | 1,624826 | 1,18E-10 |
| POLR3K | 1,623104 | 8,59E-06 |
| NDUFB1 | 1,622386 | 1,07E-09 |
| RALBP1 | 1,620907 | 5,64E-10 |
| KBTBD4 | 1,620712 | 4,71E-07 |
| ZNF786 | 1,620182 | 1,40E-05 |
| MECOM | 1,619245 | 1,66E-06 |
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| NELFCD | 1,616881 | 1,16E-12 |
| ZNF33A | 1,616562 | 1,39E-10 |
| DNAAF2 | 1,616156 | 2,41E-10 |
| INVS | 1,615904 | 2,20E-07 |
| NDC80 | 1,611135 | 2,95E-05 |
| TMOD3 | 1,611064 | 2,87E-18 |
| SPINT2 | 1,61073 | 4,61E-17 |
| DICER1 | 1,610548 | 1,91E-07 |
| WDR73 | 1,608068 | 5,86E-10 |
| CYB561D1 | 1,60537 | 5,48E-06 |
| TRMT10A | 1,603902 | 0,000216 |

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| SKA2 | 1,603899 | 4,94E-11 |
| FKBPL | 1,6036 | 5,50E-07 |
| RMND5A | 1,603574 | 6,27E-12 |
| SRPK2 | 1,599865 | 1,08E-12 |
| SMG8 | 1,599627 | 8,06E-10 |
| JRK | 1,599064 | 1,82E-07 |
| VPS72 | 1,598049 | 8,98E-08 |
| MTERF1 | 1,596817 | 1,95E-05 |
| IMPDH2 | 1,596411 | 2,47E-10 |
| FBXO21 | 1,595206 | 2,35E-10 |
| EXOC3 | 1,595074 | 7,30E-09 |
| CAMSAP3 | 1,595057 | 7,26E-12 |
| TAPT1 | 1,593933 | 0,000458 |
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| CHD3 | 1,588036 | 2,61E-13 |
| IFT88 | 1,586817 | 2,06E-05 |
| CRBN | 1,585955 | 1,16E-05 |
| NFIA | 1,584741 | 5,60E-06 |
| DLG3 | 1,584053 | 1,36E-11 |
| AEN | 1,58384 | 9,09E-10 |
| ZNF429 | 1,583687 | 7,74E-05 |
| KLHL12 | 1,58227 | 4,91E-09 |
| AP1G1 | 1,580792 | 2,31E-08 |
| NAPEPLD | 1,580116 | 0,000806 |
| SLC25A11 | 1,579914 | 5,77E-12 |
| DECR1 | 1,579235 | 3,75E-11 |
| KLF5 | 1,578457 | 4,63E-13 |
| ZDHHC24 | 1,578153 | 2,52E-05 |
| IER5L | 1,573655 | 8,72E-05 |
| GSK3B | 1,57347 | 3,79E-13 |
| AKT1 | 1,572954 | 1,38E-08 |
| ZKSCAN5 | 1,572951 | 2,05E-09 |
| PANK1 | 1,572893 | 1,05E-07 |
| BRD8 | 1,572561 | 7,13E-07 |
| TIMELESS | 1,570645 | 8,30E-10 |
| RALGAPA1 | 1,570056 | 1,33E-08 |
| CBX1 | 1,568354 | 1,45E-10 |
| TMEM260 | 1,567449 | 5,86E-05 |
| YEATS4 | 1,566484 | 1,78E-05 |
| TMEM14A | 1,566232 | 6,60E-06 |
| THAP5 | 1,565833 | 2,75E-07 |
| ADGRA3 | 1,56565 | 7,77E-06 |
| UBE3C | 1,565538 | 5,59E-09 |
| TATDN2 | 1,565316 | 5,56E-09 |
| TOR3A | 1,56394 | 7,79E-10 |
| NET1 | 1,563598 | 6,19E-05 |
| FUT8 | 1,562643 | 1,47E-11 |
| G6PC3 | 1,561988 | 6,01E-10 |
| C21orf58 | 1,560576 | 0,000691 |
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| GINS2 | 1,559329 | 3,51E-12 |
| PRDM15 | 1,558076 | 1,90E-06 |
| CDS1 | 1,557831 | 9,69E-08 |
| GNPNAT1 | 1,557579 | 6,42E-12 |
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| NCOA2 | 1,557459 | 8,46E-06 |
| CTCF | 1,557412 | 3,36E-13 |
| HARS2 | 1,556996 | 6,75E-12 |
| MTX3 | 1,55645 | 0,000833 |
| UQCRC2 | 1,552832 | 1,42E-15 |
| SMARCC1 | 1,552275 | 4,06E-17 |
| UBTF | 1,551935 | 2,15E-08 |
| FUK | 1,551481 | 0,000536 |
| DCAF11 | 1,550907 | 4,03E-06 |
| THUMPD1 | 1,550876 | 9,65E-11 |
| ARFIP1 | 1,550876 | 3,79E-08 |
| CTU2 | 1,54964 | 3,95E-09 |
| RPL13 | 1,549544 | 3,70E-12 |
| LRBA | 1,546792 | 1,92E-07 |
| ATP5D | 1,546325 | 1,86E-16 |
| CAMK2G | 1,545143 | 1,14E-08 |
| COQ7 | 1,544863 | 0,000165 |
| FRS2 | 1,543178 | 1,58E-06 |
| STYX | 1,542021 | 3,47E-08 |
| PBX2 | 1,541452 | 3,92E-15 |
| MVD | 1,541358 | 0,000105 |
| SLC19A1 | 1,541313 | 6,39E-08 |
| NBEAL2 | 1,540958 | 4,64E-07 |
| PPAP2C | 1,540694 | 5,81E-07 |
| NUDCD2 | 1,540145 | 1,62E-08 |
| ZDHHC12 | 1,539971 | 2,38E-07 |
| BAMBI | 1,538751 | 2,31E-15 |
| MPV17L2 | 1,536652 | 2,93E-09 |
| TAF11 | 1,536219 | 6,52E-10 |
| KAT7 | 1,534244 | 1,77E-10 |
| NRAS | 1,533787 | 2,57E-09 |
| MED28 | 1,532675 | 3,03E-08 |
| ENTPD5 | 1,532599 | 0,000139 |
| N4BP2 | 1,532472 | 1,10E-05 |
| PSKH1 | 1,531849 | 3,60E-09 |
| IREB2 | 1,531447 | 2,92E-14 |
| NAA40 | 1,530941 | 2,03E-07 |
| ATP5L | 1,530691 | 7,79E-17 |
| OXLD1 | 1,53001 | 7,18E-05 |
| NARS2 | 1,528458 | 3,59E-07 |
| CRIP2 | 1,528151 | 9,56E-13 |
| SYPL1 | 1,527971 | 8,32E-09 |
| CIPC | 1,526829 | 1,43E-06 |
| UNK | 1,526779 | 2,59E-06 |
| NDUFA5 | 1,526553 | 3,62E-07 |

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| NIPAL2 | 1,526329 | 0,001005 |
| TRIAP1 | 1,521321 | 1,05E-07 |
| DPAGT1 | 1,52034 | 1,03E-08 |
| PRKRIR | 1,51842 | 1,27E-10 |
| ZC3H10 | 1,518136 | 0,000101 |
| SNX18 | 1,51802 | 5,41E-06 |
| C2CD3 | 1,517796 | 1,51E-08 |
| BRF1 | 1,514499 | 6,08E-06 |
| HAUS1 | 1,511718 | 2,52E-06 |
| DBF4 | 1,511018 | 1,42E-10 |
| PRIM1 | 1,508136 | 6,58E-06 |
| SPAG5 | 1,507444 | 3,77E-09 |
| NFIB | 1,507135 | 1,03E-07 |
| WDR59 | 1,506864 | 7,09E-08 |
| SF3B3 | 1,506316 | 3,53E-10 |
| SDHA | 1,505773 | 1,84E-07 |
| HELLS | 1,505555 | 1,15E-07 |
| WRB | 1,504805 | 1,91E-06 |
| CEP131 | 1,503016 | 2,51E-05 |
| GBAP1 | 1,501805 | 0,000309 |
| LYPLAL1 | 1,499304 | 0,000141 |
| FAM83D | 1,499034 | 1,68E-08 |
| MEX3B | 1,498633 | 6,27E-07 |
| SRCAP | 1,498364 | 7,39E-17 |
| ACOT13 | 1,497944 | 2,37E-07 |
| EAF1 | 1,497713 | 1,96E-07 |
| TOP2A | 1,497585 | 3,47E-08 |
| POLD3 | 1,496776 | 8,68E-10 |
| COA5 | 1,496459 | 3,70E-07 |
| SPATA33 | 1,495411 | 1,59E-07 |
| KCTD3 | 1,494785 | 3,87E-10 |
| C9orf156 | 1,49197 | 1,45E-05 |
| IFT74 | 1,491646 | 0,000151 |
| HMGB3 | 1,490049 | 5,58E-12 |
| KIAA0195 | 1,487168 | 1,35E-10 |
| ZC3H6 | 1,486784 | 0,000698 |
| TMEM132/ | 1,485725 | 1,31E-05 |
| INTS5 | 1,485337 | 8,93E-06 |
| RPUSD3 | 1,485247 | 5,66E-09 |
| DCAF8 | 1,485166 | 1,54E-08 |
| ARF3 | 1,484554 | 6,16E-11 |
| SLC37A4 | 1,481307 | 2,73E-12 |
| CBLL1 | 1,481154 | 8,20E-11 |
| LYSMD1 | 1,4811 | 5,10E-05 |
| C2CD2L | 1,480729 | 0,000287 |
| C11orf73 | 1,480689 | 6,64E-07 |
| MTHFD1 | 1,480355 | 2,14E-17 |
| MTIF3 | 1,48026 | 5,61E-07 |
| PAN3 | 1,479539 | 1,14E-05 |
| H3F3B | 1,478748 | 1,36E-16 |

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| NLK | 1,477695 | 3,06E-06 |
| FBXO22 | 1,477249 | 5,25E-09 |
| RPS15A | 1,47702 | 4,02E-11 |
| NAA50 | 1,475677 | 2,31E-15 |
| STRBP | 1,475344 | 3,67E-10 |
| TCF25 | 1,474642 | 9,13E-11 |
| TM7SF3 | 1,472773 | 8,17E-07 |
| SEL1L | 1,472073 | 9,23E-10 |
| SMAD1 | 1,472049 | 4,96E-09 |
| TRIM65 | 1,470091 | 0,000936 |
| XPOT | 1,469803 | 7,86E-09 |
| ZNF165 | 1,468712 | 2,15E-06 |
| CNIH1 | 1,467036 | 4,96E-10 |
| SGOL1 | 1,466652 | 6,10E-07 |
| EBPL | 1,466524 | 0,000339 |
| TMA16 | 1,465188 | 4,00E-06 |
| BRD3 | 1,464941 | 1,22E-08 |
| PIGS | 1,463319 | 0,00056 |
| ORC5 | 1,462211 | 4,33E-05 |
| ALG8 | 1,461654 | 4,25E-05 |
| ZNF43 | 1,461442 | 8,16E-06 |
| GCDH | 1,460469 | 8,29E-08 |
| SREBF1 | 1,460291 | 4,48E-08 |
| ASPM | 1,459763 | 7,99E-08 |
| C3orf38 | 1,459485 | 3,16E-08 |
| TMEM186 | 1,457195 | 8,45E-05 |
| ADCK1 | 1,45629 | 0,000102 |
| RHOD | 1,456277 | 0,000347 |
| NFRKB | 1,456031 | 3,02E-08 |
| TMOD2 | 1,45544 | 0,000564 |
| RALGDS | 1,45498 | 7,52E-09 |
| UBFD1 | 1,454744 | 3,44E-09 |
| TRAPPC13 | 1,453642 | 4,70E-07 |
| INSIG1 | 1,453364 | 1,95E-05 |
| AKAP9 | 1,450365 | 3,10E-05 |
| HMGB2 | 1,449195 | 2,42E-05 |
| SIN3A | 1,44846 | 3,15E-14 |
| C17orf62 | 1,448233 | 1,44E-10 |
| MPHOSPH8 | 1,447105 | 2,03E-09 |
| GSKIP | 1,446683 | 1,66E-06 |
| TPX2 | 1,44655 | 3,73E-13 |
| XRCC3 | 1,44542 | 0,000754 |
| ZBTB22 | 1,444922 | 2,93E-05 |
| GATAD1 | 1,44465 | 2,65E-06 |
| ATG7 | 1,443812 | 0,000202 |
| NARF | 1,443655 | 0,000376 |
| POLR2J | 1,442296 | 1,16E-08 |
| DHX29 | 1,441889 | 3,84E-08 |
| PPP1R13B | 1,441111 | 8,33E-07 |
| ERCC4 | 1,440013 | 0,000252 |

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| TRIM28 | 1,439081 | 1,26E-12 |
| TOP1 | 1,438726 | 1,01E-14 |
| FAM134C | 1,438041 | 8,71E-08 |
| DHPS | 1,437503 | 2,26E-10 |
| ATP5I | 1,437483 | 4,35E-13 |
| TSPAN17 | 1,437025 | 1,14E-06 |
| TMEM231 | 1,435783 | 1,06E-05 |
| GEMIN5 | 1,435278 | 4,88E-12 |
| WWP1 | 1,434779 | 0,000158 |
| KBTBD6 | 1,434659 | 4,74E-08 |
| GPN3 | 1,433713 | 7,67E-06 |
| ATP8B1 | 1,433191 | 2,41E-07 |
| PRMT5 | 1,432221 | 4,70E-12 |
| DDB1 | 1,431467 | 3,12E-07 |
| TSC22D1 | 1,431329 | 1,25E-06 |
| ZNF273 | 1,431183 | 0,00041 |
| MGMT | 1,43071 | 1,86E-05 |
| SLC5A6 | 1,430352 | 9,36E-06 |
| PRDM4 | 1,428717 | 6,97E-15 |
| ZNRF1 | 1,427932 | 2,28E-11 |
| OAZ2 | 1,424151 | 4,13E-07 |
| ATG14 | 1,423419 | 0,000155 |
| TUFM | 1,422227 | 3,02E-11 |
| ALKBH7 | 1,422226 | 2,52E-08 |
| SGPL1 | 1,420991 | 2,44E-10 |
| INCENP | 1,420979 | 2,46E-09 |
| CNNM3 | 1,420368 | 4,90E-08 |
| PACS2 | 1,415982 | 3,21E-11 |
| CMTR2 | 1,415341 | 3,00E-07 |
| AP5S1 | 1,415166 | 2,23E-07 |
| RBM8A | 1,414625 | 7,82E-12 |
| SLC25A1 | 1,413472 | 6,83E-07 |
| GCA | 1,412324 | 4,78E-05 |
| EIF4EBP2 | 1,412174 | 4,76E-06 |
| NUBP2 | 1,410217 | 2,30E-10 |
| SETD6 | 1,409432 | 0,000369 |
| ATIC | 1,408811 | 1,75E-14 |
| CYP51A1 | 1,407572 | 3,63E-13 |
| RINT1 | 1,404787 | 3,33E-06 |
| ACAA1 | 1,404219 | 0,000197 |
| DPY19L3 | 1,403122 | 2,22E-06 |
| CLCC1 | 1,401977 | 5,14E-07 |
| PNPO | 1,399825 | 1,72E-09 |
| FANCL | 1,398884 | 0,000885 |
| RXRβ | 1,39617 | 0,000356 |
| MARCKSL1 | 1,395911 | 5,36E-15 |
| USP38 | 1,393694 | 5,37E-06 |
| KIAA0556 | 1,393675 | 1,89E-07 |
| HRSP12 | 1,3936 | 0,000282 |
| PRR11 | 1,393008 | 2,12E-08 |

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| RCOR1 | 1,390702 | 3,24E-08 |
| TSPYL1 | 1,390692 | 3,16E-07 |
| KIZ | 1,390021 | 0,000562 |
| NRDE2 | 1,389538 | 2,32E-05 |
| PCGF3 | 1,388204 | 1,44E-10 |
| CCDC117 | 1,386835 | 8,77E-05 |
| PAK2 | 1,385159 | 1,59E-11 |
| REST | 1,384547 | 3,51E-06 |
| GSTCD | 1,383693 | 0,000106 |
| ACSL3 | 1,38337 | 4,51E-05 |
| DECR2 | 1,383308 | 2,25E-06 |
| FXR1 | 1,381582 | 1,12E-07 |
| LANCL1 | 1,380735 | 5,62E-07 |
| PAX8-AS1 | 1,380526 | 4,90E-05 |
| VMP1 | 1,379565 | 4,71E-07 |
| FAM168A | 1,379073 | 2,75E-06 |
| C14orf1 | 1,377467 | 0,000711 |
| SNRPE | 1,375647 | 1,55E-13 |
| CASP6 | 1,374165 | 1,32E-05 |
| UBB | 1,371921 | 3,99E-11 |
| RPL35A | 1,371857 | 2,89E-08 |
| MDH2 | 1,368961 | 1,01E-09 |
| THOC6 | 1,36739 | 0,000137 |
| SARAF | 1,367111 | 3,94E-08 |
| CAPN7 | 1,365735 | 5,85E-08 |
| METTTL14 | 1,365124 | 0,000302 |
| POLR3GL | 1,364345 | 6,12E-05 |
| NUBPL | 1,362999 | 0,000143 |
| PYCARD | 1,362753 | 0,000665 |
| APOA1BP | 1,362523 | 7,48E-09 |
| TMEM101 | 1,360488 | 1,24E-06 |
| HEXIM1 | 1,35982 | 8,03E-06 |
| BCL6 | 1,358281 | 0,000185 |
| NDUFC1 | 1,358095 | 3,65E-07 |
| SLC19A2 | 1,357057 | 0,000528 |
| KIAA0101 | 1,355734 | 1,34E-07 |
| MAPK8IP1 | 1,355351 | 2,03E-06 |
| BIRC5 | 1,354321 | 3,94E-05 |
| HS6ST1 | 1,352794 | 1,39E-07 |
| PAPOLA | 1,352557 | 1,05E-11 |
| NOM1 | 1,349502 | 1,01E-06 |
| CHTF8 | 1,348731 | 1,16E-09 |
| TYSND1 | 1,348544 | 3,47E-08 |
| CHD8 | 1,348377 | 3,38E-08 |
| MXD3 | 1,347869 | 0,000107 |
| TCTN1 | 1,347641 | 6,86E-06 |
| TMEM251 | 1,347494 | 4,84E-07 |
| CHMP2B | 1,346928 | 1,30E-08 |
| COX14 | 1,346842 | 5,21E-06 |
| PEX13 | 1,346404 | 0,000255 |

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| HYAL2 | 1,34626 | 3,31E-09 |
| PPP2R5E | 1,345812 | 1,43E-11 |
| BBS10 | 1,345413 | 0,000381 |
| TRAF4 | 1,344913 | 1,72E-10 |
| ZBTB6 | 1,344903 | 0,000189 |
| TRIP11 | 1,342515 | 2,01E-08 |
| NCAPG2 | 1,341047 | 2,71E-08 |
| PSMD4 | 1,340787 | 3,66E-11 |
| SS18L1 | 1,340449 | 0,000361 |
| HECTD1 | 1,340403 | 2,85E-11 |
| GPATCH2 | 1,339136 | 3,41E-06 |
| SREBF2 | 1,338984 | 6,24E-10 |
| LTA4H | 1,337675 | 2,83E-07 |
| ZNF592 | 1,337101 | 7,65E-07 |
| XXYL1 | 1,332432 | 1,27E-09 |
| NUMA1 | 1,331581 | 2,42E-11 |
| SLF1 | 1,330417 | 0,000406 |
| NAAA | 1,329781 | 0,001001 |
| FBXO34 | 1,329406 | 8,75E-07 |
| ETNK1 | 1,328154 | 3,60E-05 |
| FADS2 | 1,327203 | 0,000199 |
| TAF6L | 1,326101 | 3,46E-05 |
| ECE2 | 1,325018 | 2,38E-05 |
| SLC25A40 | 1,324173 | 0,000182 |
| NDUFB5 | 1,323333 | 1,75E-05 |
| TRAP1 | 1,322545 | 4,57E-11 |
| TELO2 | 1,321965 | 3,51E-07 |
| SORD | 1,321902 | 1,75E-11 |
| KIAA0141 | 1,321662 | 7,65E-07 |
| P4HTM | 1,321523 | 1,50E-05 |
| ZNF718 | 1,320868 | 0,000192 |
| AURKA | 1,320276 | 1,17E-08 |
| LMLN | 1,320231 | 0,000122 |
| ARL6IP1 | 1,319145 | 3,12E-10 |
| CDCA4 | 1,319108 | 0,000265 |
| TECPR2 | 1,318749 | 2,30E-05 |
| ZNF783 | 1,318257 | 0,00015 |
| WDR83OS | 1,316517 | 3,52E-10 |
| ACOX3 | 1,315738 | 0,000236 |
| TRMT2B | 1,314075 | 1,52E-05 |
| EDC3 | 1,313587 | 1,12E-06 |
| ADIPOR1 | 1,313432 | 2,27E-05 |
| RIOK2 | 1,313322 | 6,91E-08 |
| KIF22 | 1,313112 | 6,99E-05 |
| FLYWCH2 | 1,312794 | 1,46E-06 |
| SLC20A2 | 1,310602 | 3,74E-06 |
| GPD1L | 1,310551 | 6,76E-05 |
| HNRNP1L | 1,310284 | 1,04E-07 |
| ALDOC | 1,30971 | 0,0007 |
| RNMTL1 | 1,308092 | 6,80E-06 |

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| CPSF2 | 1,307952 | 3,55E-10 |
| PCCB | 1,307547 | 1,29E-07 |
| SOCS7 | 1,306699 | 0,000976 |
| DCUN1D1 | 1,306432 | 3,60E-05 |
| CENPH | 1,305474 | 0,000608 |
| SNHG16 | 1,303693 | 9,11E-11 |
| ARHGEF16 | 1,302929 | 0,000536 |
| EVL | 1,302679 | 2,09E-06 |
| HMGCR | 1,301461 | 2,82E-08 |
| YLPM1 | 1,301027 | 1,36E-09 |
| HMGN1 | 1,300111 | 5,69E-12 |
| AKAP1 | 1,299846 | 4,02E-07 |
| POLR2A | 1,299807 | 1,67E-12 |
| ITFG3 | 1,299671 | 9,97E-06 |
| RBMX | 1,297676 | 9,97E-08 |
| ARFIP2 | 1,296568 | 8,71E-06 |
| ALKBH2 | 1,296374 | 1,15E-06 |
| EEF1G | 1,296362 | 1,31E-13 |
| GALK1 | 1,296142 | 1,74E-05 |
| CRNKL1 | 1,295099 | 1,28E-05 |
| ADPRHL1 | 1,294181 | 0,000865 |
| THAP11 | 1,294111 | 1,78E-05 |
| ZNF607 | 1,2936 | 0,000413 |
| TNRC6A | 1,292037 | 7,75E-07 |
| SLC7A5 | 1,291531 | 8,91E-10 |
| COX17 | 1,29045 | 0,000355 |
| MIDN | 1,290098 | 4,62E-09 |
| GFOD2 | 1,289355 | 3,72E-05 |
| PGP | 1,288156 | 7,16E-08 |
| METTL16 | 1,287127 | 1,88E-08 |
| PLA2G12A | 1,285576 | 1,57E-05 |
| ZBTB1 | 1,284149 | 2,15E-08 |
| SLC25A38 | 1,283504 | 3,23E-07 |
| AMZ2 | 1,282364 | 4,90E-05 |
| COX11 | 1,281683 | 0,000299 |
| VPS25 | 1,281216 | 1,35E-08 |
| CISD3 | 1,280727 | 0,000255 |
| ZBTB9 | 1,280236 | 2,98E-07 |
| MAP2K5 | 1,279888 | 4,04E-06 |
| CMC1 | 1,279533 | 0,000256 |
| ATP5J2 | 1,27656 | 1,55E-05 |
| HIF1A | 1,275344 | 2,71E-10 |
| TOMM6 | 1,275223 | 3,73E-11 |
| CBWD2 | 1,272563 | 1,95E-05 |
| CPSF4 | 1,272375 | 0,000429 |
| ARMT1 | 1,27085 | 6,44E-08 |
| NCBP1 | 1,269894 | 8,21E-10 |
| LPCAT1 | 1,268922 | 8,22E-07 |
| SUCLG1 | 1,267811 | 1,30E-09 |
| ZNF322 | 1,267427 | 0,000253 |

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| ZNF614 | 1,265344 | 0,000385 |
| RPS27 | 1,265331 | 3,27E-05 |
| STIM2 | 1,264542 | 1,31E-06 |
| ATXN7 | 1,263339 | 4,75E-06 |
| PLCB1 | 1,26273 | 0,000611 |
| GEMIN2 | 1,262287 | 0,000267 |
| CLOCK | 1,262274 | 1,72E-06 |
| TET3 | 1,260659 | 1,13E-08 |
| VPS13A | 1,259199 | 4,95E-05 |
| NARFL | 1,258766 | 5,68E-05 |
| SCAP | 1,255135 | 5,59E-06 |
| EMC9 | 1,255015 | 0,000231 |
| PIGX | 1,254955 | 8,96E-08 |
| CHCHD10 | 1,254216 | 9,72E-09 |
| MAPK13 | 1,253686 | 2,81E-07 |
| ATF6B | 1,25243 | 7,87E-08 |
| RHNO1 | 1,252408 | 2,63E-05 |
| FAM122B | 1,251379 | 1,52E-06 |
| SHFM1 | 1,251091 | 3,74E-10 |
| NUSAP1 | 1,251022 | 8,03E-06 |
| FDFT1 | 1,250176 | 1,45E-05 |
| MAML1 | 1,249439 | 1,86E-06 |
| LEMD3 | 1,249196 | 1,85E-07 |
| UBR7 | 1,248824 | 7,38E-08 |
| C1orf43 | 1,248756 | 2,18E-09 |
| TRAPPC9 | 1,248003 | 0,000617 |
| CNOT2 | 1,247177 | 1,09E-09 |
| ITPK1 | 1,246647 | 2,91E-11 |
| RNF115 | 1,246283 | 2,66E-08 |
| HDHD2 | 1,245454 | 0,000252 |
| MAL2 | 1,245304 | 4,55E-08 |
| PROSER3 | 1,244905 | 9,50E-05 |
| TRMT10C | 1,243779 | 6,59E-07 |
| CUL7 | 1,243416 | 5,30E-05 |
| HAGHL | 1,243169 | 2,12E-05 |
| POMT1 | 1,242573 | 0,000977 |
| SH2B1 | 1,242175 | 0,000876 |
| GEMIN4 | 1,241332 | 8,46E-08 |
| OXNAD1 | 1,24086 | 5,13E-05 |
| GATC | 1,239344 | 4,06E-08 |
| MSRB2 | 1,237691 | 8,42E-07 |
| FANCD2 | 1,237158 | 1,58E-05 |
| SUMO3 | 1,236086 | 7,68E-11 |
| MSH3 | 1,235645 | 3,10E-06 |
| MREG | 1,23485 | 2,75E-06 |
| FAM217B | 1,233699 | 1,38E-05 |
| PMS2P1 | 1,233199 | 0,000255 |
| CCNB1 | 1,232873 | 1,83E-08 |
| MTSS1L | 1,232725 | 1,27E-05 |
| UBP1 | 1,232712 | 6,30E-08 |

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| ATP5G2 | 1,232457 | 1,59E-10 |
| RASA1 | 1,230847 | 4,70E-05 |
| THOC3 | 1,230315 | 0,000123 |
| JMJD8 | 1,230209 | 1,66E-07 |
| LAMTOR2 | 1,229904 | 7,34E-07 |
| RNF168 | 1,229775 | 1,69E-08 |
| AUTS2 | 1,229445 | 0,000215 |
| MKI67 | 1,228997 | 6,13E-09 |
| PDCD4 | 1,228866 | 3,20E-06 |
| DPY19L1 | 1,225994 | 0,000306 |
| RNF123 | 1,225713 | 7,18E-05 |
| PRKAR1A | 1,22448 | 5,20E-09 |
| SPATS2 | 1,223352 | 1,53E-06 |
| LETMD1 | 1,222458 | 3,32E-07 |
| POLR2G | 1,220925 | 8,23E-09 |
| DIS3L | 1,220881 | 4,46E-05 |
| GTF2A1 | 1,219848 | 1,20E-07 |
| RFK | 1,217075 | 1,22E-05 |
| LRCH3 | 1,216121 | 8,63E-05 |
| CENPE | 1,214382 | 7,56E-05 |
| ARF5 | 1,213618 | 4,62E-10 |
| NDUFS2 | 1,210834 | 3,09E-05 |
| NSF | 1,210545 | 0,000489 |
| MRPL12 | 1,210074 | 2,84E-09 |
| ACSF3 | 1,210067 | 3,02E-07 |
| PYCR1 | 1,20859 | 1,74E-05 |
| ARVCF | 1,206094 | 0,000351 |
| PAFAH1B3 | 1,205097 | 9,37E-06 |
| IFT46 | 1,204674 | 5,61E-07 |
| CHRNA5 | 1,204471 | 1,84E-06 |
| IER5 | 1,204003 | 4,53E-05 |
| SMYD5 | 1,199818 | 4,18E-07 |
| CDC42SE1 | 1,199488 | 6,21E-07 |
| STX17 | 1,198314 | 3,94E-06 |
| TMED3 | 1,196104 | 2,97E-06 |
| VPRBP | 1,194958 | 8,07E-07 |
| SMARCC2 | 1,194805 | 1,31E-09 |
| SCAF8 | 1,193184 | 0,000229 |
| SFXN1 | 1,191878 | 3,69E-06 |
| PCDH1 | 1,191505 | 0,000202 |
| SOS1 | 1,190686 | 5,96E-06 |
| CHMP1B | 1,190306 | 4,92E-07 |
| ZNF740 | 1,189712 | 0,000994 |
| CUL3 | 1,188929 | 6,72E-08 |
| PHF10 | 1,18739 | 8,53E-05 |
| NDUFAF7 | 1,185858 | 0,000477 |
| SCOC | 1,185115 | 0,000257 |
| ZNF646 | 1,184286 | 8,87E-07 |
| RNF40 | 1,184128 | 7,96E-07 |
| KDM3B | 1,183471 | 1,31E-07 |

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| PRR14L | 1,182613 | 4,17E-08 |
| ELF2 | 1,181337 | 0,000159 |
| GTF3C1 | 1,181256 | 0,000126 |
| TXN2 | 1,181197 | 0,000157 |
| LSM3 | 1,180799 | 2,69E-06 |
| SLC25A13 | 1,179708 | 1,13E-05 |
| ZNF260 | 1,17958 | 5,04E-05 |
| UQCC2 | 1,179546 | 8,72E-05 |
| MAVS | 1,179132 | 2,43E-06 |
| CSTF2T | 1,178265 | 1,38E-05 |
| TNK1 | 1,177751 | 9,90E-05 |
| FAM120B | 1,173693 | 0,000113 |
| TMEM241 | 1,173473 | 0,000555 |
| COA4 | 1,173259 | 9,42E-09 |
| TMEM2 | 1,17293 | 2,92E-05 |
| PPM1B | 1,172509 | 6,01E-05 |
| ATMIN | 1,172473 | 8,39E-09 |
| ZBTB33 | 1,17208 | 0,00054 |
| PREPL | 1,171741 | 4,46E-06 |
| LSG1 | 1,171601 | 7,94E-08 |
| WDR48 | 1,170793 | 0,000635 |
| CCBL2 | 1,168214 | 0,000651 |
| BCKDHA | 1,166088 | 2,08E-05 |
| RBM4 | 1,165711 | 3,92E-07 |
| MRPS27 | 1,165555 | 5,20E-08 |
| SNRNP48 | 1,165134 | 4,47E-05 |
| MRPL42 | 1,164356 | 3,55E-05 |
| RECQL5 | 1,161213 | 3,19E-05 |
| RPL32 | 1,16078 | 2,57E-07 |
| FANCG | 1,160681 | 0,000289 |
| HIGD2A | 1,158269 | 1,91E-06 |
| KCTD13 | 1,156896 | 0,000453 |
| NAA38 | 1,156185 | 1,22E-06 |
| SLC35E2B | 1,156015 | 9,81E-06 |
| H3F3AP4 | 1,15543 | 3,75E-06 |
| SMTN | 1,154575 | 7,79E-07 |
| JTB | 1,152911 | 1,54E-06 |
| PRPF8 | 1,15152 | 7,35E-08 |
| GPSM2 | 1,150346 | 1,74E-07 |
| PSMC5 | 1,149171 | 4,20E-06 |
| NUDT14 | 1,14489 | 6,98E-05 |
| NBR1 | 1,1435 | 0,000422 |
| TRAPPC4 | 1,143156 | 1,27E-05 |
| TRIM56 | 1,143143 | 0,000676 |
| ZNF627 | 1,142445 | 1,11E-05 |
| ZMYND8 | 1,141562 | 1,33E-07 |
| ZNF346 | 1,141179 | 0,000573 |
| SLC25A15 | 1,140864 | 5,64E-06 |
| DHX8 | 1,140549 | 0,000209 |
| PPP4R3A | 1,140546 | 3,74E-09 |

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| C16orf13 | 1,139215 | 2,91E-06 |
| AVL9 | 1,138983 | 4,44E-08 |
| RFX7 | 1,137923 | 8,65E-05 |
| RPL21 | 1,137358 | 2,61E-07 |
| DARS2 | 1,13711 | 3,91E-08 |
| POLR1D | 1,136978 | 1,73E-08 |
| TNRC18 | 1,136708 | 1,49E-07 |
| SETD5 | 1,135578 | 3,11E-05 |
| SETD1A | 1,13506 | 6,15E-06 |
| GPHN | 1,133969 | 2,65E-05 |
| DCTN5 | 1,133418 | 0,000173 |
| ELP5 | 1,133122 | 9,99E-07 |
| PIK3R4 | 1,130281 | 5,31E-05 |
| LDLR | 1,130251 | 2,01E-06 |
| UBE2T | 1,129872 | 7,79E-07 |
| DNAJC2 | 1,129665 | 3,04E-07 |
| POP5 | 1,129207 | 0,000516 |
| MED21 | 1,129081 | 0,000181 |
| CHCHD4 | 1,128929 | 0,000988 |
| ZNF689 | 1,127103 | 0,000348 |
| IMP3 | 1,127061 | 2,32E-07 |
| DNAJC30 | 1,127015 | 1,56E-05 |
| SNRPA1 | 1,12647 | 1,00E-07 |
| TDG | 1,126411 | 1,60E-06 |
| BCL9L | 1,126139 | 0,000102 |
| ETFB | 1,124818 | 0,000715 |
| CRACR2B | 1,12473 | 0,000724 |
| SNN | 1,123573 | 0,000431 |
| DAG1 | 1,123188 | 2,23E-05 |
| FAM195A | 1,121782 | 1,25E-06 |
| MRPL53 | 1,121691 | 0,000761 |
| METTL9 | 1,121533 | 2,03E-08 |
| PDE7A | 1,121482 | 0,000263 |
| KITLG | 1,121068 | 4,95E-06 |
| OPA1 | 1,119001 | 1,43E-06 |
| STRN3 | 1,117751 | 1,51E-05 |
| CTDSPL | 1,117594 | 0,000102 |
| ATP2C1 | 1,116917 | 3,10E-08 |
| WDR20 | 1,115811 | 1,59E-05 |
| TRPT1 | 1,115072 | 0,000869 |
| MRPL57 | 1,114994 | 2,43E-07 |
| SFXN4 | 1,114673 | 4,20E-06 |
| C20orf27 | 1,114515 | 5,35E-07 |
| THOC2 | 1,114303 | 6,66E-07 |
| ZNF701 | 1,11233 | 0,000878 |
| METAP1 | 1,110596 | 2,91E-06 |
| ALDH7A1 | 1,110244 | 1,23E-06 |
| SNAPIN | 1,108446 | 2,78E-05 |
| NCAPD3 | 1,108087 | 0,000265 |
| RPIA | 1,107928 | 6,99E-05 |

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| PPP4R2 | 1,10526 | 1,47E-06 |
| COQ2 | 1,104729 | 4,75E-05 |
| TRMT112 | 1,104185 | 4,68E-05 |
| MSH6 | 1,103499 | 1,45E-08 |
| HMGN3 | 1,103493 | 5,91E-05 |
| MCM4 | 1,103443 | 3,70E-07 |
| MAT2B | 1,103419 | 0,000825 |
| C19orf54 | 1,103302 | 0,000197 |
| VEZF1 | 1,102749 | 6,34E-06 |
| ABCE1 | 1,102423 | 5,79E-07 |
| BTBD3 | 1,101842 | 0,00065 |
| AP5M1 | 1,100788 | 0,000686 |
| ZNF638 | 1,100458 | 9,26E-07 |
| ATPAF1 | 1,099165 | 4,17E-05 |
| NTHL1 | 1,098877 | 0,000214 |
| CENPU | 1,098731 | 0,00096 |
| FAM110A | 1,098349 | 0,000491 |
| TAF8 | 1,097753 | 0,000523 |
| C17orf85 | 1,096165 | 9,66E-06 |
| ANP32B | 1,096142 | 4,92E-06 |
| CDK8 | 1,09555 | 5,91E-06 |
| ANKRD28 | 1,0941 | 1,44E-06 |
| RRBP1 | 1,093572 | 0,000642 |
| AHCY | 1,091541 | 4,38E-05 |
| BCL9 | 1,090854 | 2,47E-05 |
| TACC3 | 1,089866 | 0,00012 |
| CBX5 | 1,089753 | 9,92E-06 |
| GOT2 | 1,088644 | 1,45E-05 |
| ARFGAP2 | 1,087873 | 5,16E-06 |
| SFI1 | 1,087567 | 0,000686 |
| DCAF16 | 1,08713 | 0,000173 |
| C16orf58 | 1,084876 | 1,07E-07 |
| CMTM4 | 1,084477 | 2,78E-07 |
| SPRYD3 | 1,082825 | 1,44E-05 |
| NUP160 | 1,081675 | 8,21E-06 |
| PDS5A | 1,081151 | 2,78E-06 |
| PMVK | 1,080662 | 5,34E-05 |
| RPSAP58 | 1,080164 | 7,53E-06 |
| PMPCB | 1,078867 | 1,19E-07 |
| PSMB4 | 1,078137 | 3,27E-06 |
| CLUH | 1,075497 | 5,61E-07 |
| DHX38 | 1,075474 | 2,51E-06 |
| POLR1A | 1,074099 | 8,08E-06 |
| CKB | 1,072861 | 0,000757 |
| TCF3 | 1,072688 | 5,32E-08 |
| FAF2 | 1,072512 | 5,56E-07 |
| NADK2 | 1,07246 | 4,75E-05 |
| SPIDR | 1,071744 | 5,01E-05 |
| AFG3L1P | 1,069227 | 0,000622 |
| IMPA2 | 1,069203 | 1,21E-05 |

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| SPAST | 1,063121 | 0,00052 |
| ASH1L | 1,062572 | 1,87E-07 |
| CFDP1 | 1,061949 | 2,64E-06 |
| FANCA | 1,061018 | 7,71E-06 |
| MCM3 | 1,059622 | 8,77E-06 |
| C5orf22 | 1,058821 | 4,71E-05 |
| TMEM5 | 1,058431 | 6,27E-06 |
| IPO4 | 1,057625 | 3,67E-06 |
| CCND1 | 1,056248 | 9,44E-05 |
| MEAF6 | 1,055935 | 0,00078 |
| QTRTD1 | 1,055452 | 7,01E-05 |
| CHMP1A | 1,054981 | 0,000102 |
| PPIL1 | 1,054627 | 2,53E-06 |
| RPS18 | 1,0543 | 0,000518 |
| USP22 | 1,053916 | 1,33E-06 |
| PAPSS1 | 1,052014 | 0,00039 |
| PSPC1 | 1,051442 | 5,17E-06 |
| EXD2 | 1,051429 | 5,82E-06 |
| RPL15 | 1,05007 | 7,76E-08 |
| SNX5 | 1,049908 | 2,78E-05 |
| CCAR2 | 1,049541 | 3,09E-05 |
| MAGEF1 | 1,04911 | 8,20E-06 |
| KPNA2 | 1,048603 | 9,43E-07 |
| EHMT1 | 1,048385 | 3,95E-05 |
| DEPDC5 | 1,047005 | 0,000209 |
| TRIM36 | 1,04516 | 0,000955 |
| NKRF | 1,044793 | 1,49E-05 |
| STON2 | 1,043812 | 8,16E-05 |
| CSTF1 | 1,040708 | 4,04E-06 |
| ZNF398 | 1,039126 | 1,64E-06 |
| TNNT1 | 1,038009 | 5,22E-07 |
| PDAP1 | 1,03787 | 2,64E-07 |
| ANP32E | 1,037738 | 3,87E-06 |
| METTL6 | 1,037665 | 6,40E-05 |
| KLHDC4 | 1,037369 | 1,44E-05 |
| KMT2C | 1,036212 | 4,03E-07 |
| GRB2 | 1,035887 | 5,76E-08 |
| RAB4A | 1,035526 | 0,0001 |
| LIG1 | 1,035297 | 2,08E-06 |
| AGGF1 | 1,034894 | 1,47E-05 |
| MRFAP1 | 1,033714 | 1,27E-06 |
| MTA2 | 1,03322 | 2,16E-07 |
| TATDN1 | 1,033108 | 5,47E-06 |
| ERI2 | 1,032915 | 0,00031 |
| ZNF616 | 1,032787 | 0,000191 |
| RPL23A | 1,032174 | 1,51E-07 |
| UBQLN4 | 1,031384 | 1,50E-06 |
| TSFM | 1,029812 | 6,43E-05 |
| SLC7A11 | 1,028523 | 0,000447 |
| SP1 | 1,027297 | 3,68E-06 |

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| ERBB2IP | 1,026729 | 1,14E-05 |
| TCTN3 | 1,025199 | 7,84E-05 |
| NDUFA2 | 1,023191 | 0,000148 |
| SUPT16H | 1,022944 | 2,37E-08 |
| THADA | 1,022529 | 0,000173 |
| FAHD1 | 1,02243 | 2,66E-06 |
| POLB | 1,020936 | 0,000806 |
| SLC25A39 | 1,020862 | 6,03E-08 |
| SDHD | 1,020516 | 0,000209 |
| C6orf136 | 1,018946 | 0,000697 |
| NFYA | 1,017656 | 0,000255 |
| TSEN54 | 1,017545 | 0,00011 |
| SLC50A1 | 1,014836 | 3,15E-05 |
| MRPL10 | 1,01411 | 7,15E-05 |
| TOMM70A | 1,01328 | 1,12E-06 |
| DYM | 1,01294 | 1,27E-05 |
| CDC25B | 1,012934 | 1,60E-05 |
| ZNF764 | 1,012443 | 0,000904 |
| CCNA2 | 1,011935 | 4,35E-06 |
| FBXO9 | 1,011894 | 2,16E-05 |
| WWP2 | 1,011845 | 0,00027 |
| IQSEC1 | 1,011795 | 6,34E-05 |
| PSMD12 | 1,010826 | 0,0003 |
| GRHPR | 1,009347 | 0,000781 |
| RPP30 | 1,009223 | 0,000664 |
| DCLRE1B | 1,007766 | 0,000175 |
| NDUFA3 | 1,007697 | 0,000236 |
| MBD4 | 1,00757 | 0,00019 |
| RAF1 | 1,006101 | 4,62E-06 |
| FBXO45 | 1,005607 | 0,000691 |
| ZCCHC14 | 1,005412 | 1,37E-06 |
| HNRNPH1 | 1,005066 | 8,54E-05 |
| RPSA | 1,004963 | 2,54E-07 |
| FLOT2 | 1,004713 | 0,000226 |
| TRAPPC2L | 1,004521 | 9,67E-06 |
| TUBG1 | 1,002882 | 1,43E-05 |
| ACTL6A | 1,002552 | 1,24E-05 |
| TMEM184C | 1,001715 | 4,98E-05 |
| GRK6 | 1,001278 | 0,000204 |
| USP19 | 1,000682 | 0,000643 |
| DUS1L | 1,000559 | 8,59E-05 |
| PSMD7 | 0,998745 | 4,98E-07 |
| SOCS4 | 0,99533 | 0,000903 |
| C7orf73 | 0,994679 | 6,75E-06 |
| TROVE2 | 0,993835 | 0,000962 |
| RPL34 | 0,993274 | 1,13E-05 |
| C5orf30 | 0,992758 | 0,000338 |
| SUV420H1 | 0,99239 | 1,14E-05 |
| SEPHS1 | 0,992285 | 0,000119 |
| WDR60 | 0,991881 | 0,000275 |

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| NFATC3 | 0,991524 | 1,66E-05 |
| ZNF148 | 0,990391 | 1,32E-05 |
| ZCRB1 | 0,990386 | 8,96E-05 |
| MRPS7 | 0,99021 | 6,17E-05 |
| TBC1D24 | 0,988809 | 0,000782 |
| XPO1 | 0,988672 | 1,72E-05 |
| FAM189B | 0,987079 | 0,000634 |
| HACD3 | 0,986369 | 1,59E-07 |
| RNASEH2A | 0,986225 | 1,85E-06 |
| ARRDC1 | 0,983377 | 5,64E-05 |
| HNRNPAB | 0,981211 | 1,82E-07 |
| RPL4 | 0,978881 | 3,19E-07 |
| NSDHL | 0,977942 | 3,55E-05 |
| IP6K2 | 0,976103 | 0,000989 |
| ATL3 | 0,975518 | 2,04E-06 |
| NPM1 | 0,974338 | 1,50E-07 |
| USP6NL | 0,973844 | 3,44E-05 |
| CPSF6 | 0,973359 | 2,14E-07 |
| MSH2 | 0,973338 | 1,15E-05 |
| TBK1 | 0,973136 | 0,000916 |
| MLST8 | 0,972182 | 7,06E-06 |
| UBAC1 | 0,97205 | 2,65E-05 |
| HNRNPA0 | 0,969564 | 2,39E-05 |
| TTLL5 | 0,969136 | 3,15E-05 |
| RPS2 | 0,968945 | 1,15E-07 |
| KIF2A | 0,968795 | 4,39E-06 |
| SYTL2 | 0,968772 | 0,000517 |
| CDT1 | 0,968347 | 0,000905 |
| UBR2 | 0,968076 | 5,82E-05 |
| TTC19 | 0,967264 | 5,41E-05 |
| KIF11 | 0,966865 | 5,52E-06 |
| KRIT1 | 0,964069 | 0,000577 |
| ZFYVE21 | 0,961989 | 0,000141 |
| LDB1 | 0,958544 | 2,62E-05 |
| G3BP2 | 0,9578 | 0,000321 |
| PIP5K1A | 0,955671 | 0,000555 |
| SETD3 | 0,955643 | 8,41E-06 |
| ASUN | 0,955639 | 6,99E-05 |
| SF3B4 | 0,955397 | 5,34E-08 |
| HNRNPA1 | 0,955043 | 4,16E-07 |
| TMEM167 | 0,952657 | 0,000319 |
| RMND1 | 0,952212 | 0,000126 |
| SMG7 | 0,952203 | 2,69E-07 |
| CETN2 | 0,951547 | 6,33E-05 |
| VPS37C | 0,950809 | 0,000253 |
| KLHL42 | 0,950041 | 0,000553 |
| USP39 | 0,947852 | 1,12E-06 |
| RCN2 | 0,947265 | 3,86E-05 |
| ATP5H | 0,947121 | 7,07E-05 |
| APH1A | 0,946785 | 5,41E-06 |

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| KDM1A | 0,946242 | 5,99E-06 |
| SLC25A5 | 0,946022 | 0,000665 |
| PHKG2 | 0,945826 | 0,000125 |
| PCF11 | 0,945778 | 0,000665 |
| CLCN3 | 0,945623 | 3,30E-05 |
| ILF2 | 0,944779 | 1,30E-07 |
| GMPR2 | 0,943688 | 0,00039 |
| CREBBP | 0,941467 | 0,000148 |
| SLC6A6 | 0,940249 | 2,22E-05 |
| CMTM6 | 0,939202 | 0,000443 |
| HOXC10 | 0,937456 | 0,000291 |
| METRNL | 0,937411 | 0,00027 |
| NIT2 | 0,93741 | 0,000132 |
| SUMO2 | 0,936673 | 1,24E-06 |
| CUX1 | 0,935975 | 1,14E-05 |
| FXR2 | 0,935114 | 6,04E-05 |
| ERAL1 | 0,934722 | 1,83E-05 |
| PIGG | 0,934679 | 0,001012 |
| NDUFB4 | 0,9337 | 1,78E-05 |
| TBC1D9B | 0,933636 | 9,05E-06 |
| MATR3 | 0,932048 | 5,04E-07 |
| TBC1D14 | 0,932007 | 0,000104 |
| CUL9 | 0,931709 | 0,000299 |
| USP42 | 0,930455 | 0,000398 |
| POLR3E | 0,928508 | 0,000137 |
| PPP2R5C | 0,928219 | 2,02E-05 |
| FAM120AC | 0,92715 | 0,000135 |
| PNMA1 | 0,92702 | 0,000539 |
| NDUFV3 | 0,926618 | 1,18E-05 |
| DGCR6L | 0,926341 | 3,64E-05 |
| PLK4 | 0,925722 | 0,000535 |
| MARCH6 | 0,925395 | 0,000268 |
| UBE2K | 0,924441 | 0,000236 |
| SLC3A2 | 0,923597 | 6,02E-06 |
| ARPC1A | 0,923558 | 0,000248 |
| PELP1 | 0,921783 | 9,66E-05 |
| RANBP9 | 0,921616 | 0,000178 |
| ZNF24 | 0,91892 | 1,84E-05 |
| THUMPD3 | 0,916723 | 3,78E-05 |
| PTK7 | 0,915465 | 4,94E-05 |
| LDOC1L | 0,915269 | 1,69E-05 |
| AKAP11 | 0,913476 | 2,64E-05 |
| NDUFS3 | 0,913096 | 3,56E-05 |
| TEX2 | 0,912744 | 1,65E-05 |
| DSC2 | 0,91132 | 0,000194 |
| VPS33B | 0,910764 | 0,000954 |
| HDGF | 0,908729 | 2,69E-07 |
| CDCA3 | 0,908422 | 0,000115 |
| CCDC90B | 0,907717 | 0,00057 |
| USP7 | 0,906089 | 8,78E-07 |

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| TPBG | 0,905978 | 2,80E-05 |
| ATP5B | 0,904058 | 2,09E-05 |
| CLPX | 0,903883 | 0,000177 |
| SPG21 | 0,903283 | 1,76E-06 |
| MTA3 | 0,901535 | 0,000125 |
| FAM120A | 0,89682 | 0,000182 |
| CPNE3 | 0,896782 | 3,89E-05 |
| SNRPF | 0,896608 | 3,97E-05 |
| BRPF3 | 0,894383 | 6,61E-05 |
| MANEAL | 0,893085 | 0,000911 |
| CSNK1G2 | 0,892617 | 0,000149 |
| PPP6R3 | 0,889418 | 1,09E-05 |
| QARS | 0,889079 | 1,94E-05 |
| POLA1 | 0,887416 | 0,000612 |
| UQCC3 | 0,887072 | 0,00021 |
| BRCA1 | 0,886475 | 0,000339 |
| RMDN1 | 0,886435 | 0,000434 |
| CCNI | 0,884386 | 1,69E-06 |
| CKAP5 | 0,884333 | 0,000293 |
| RPL41 | 0,884149 | 1,29E-05 |
| STK38 | 0,883626 | 0,000127 |
| MRPS34 | 0,881822 | 7,74E-06 |
| BCL7C | 0,881185 | 0,000181 |
| ZNF609 | 0,880111 | 0,000298 |
| DHX9 | 0,87904 | 6,25E-06 |
| NEDD1 | 0,878604 | 0,000122 |
| RBM12 | 0,87801 | 0,000617 |
| MCL1 | 0,877619 | 1,33E-06 |
| SCO1 | 0,877402 | 0,00037 |
| TDP1 | 0,875681 | 0,000202 |
| ACAD9 | 0,875293 | 0,00096 |
| ZNF664 | 0,875195 | 0,000186 |
| PEMT | 0,874931 | 0,000476 |
| MDC1 | 0,874467 | 3,59E-05 |
| PSMC2 | 0,872628 | 1,40E-05 |
| INPPL1 | 0,872358 | 1,43E-05 |
| SMARCA5 | 0,871532 | 5,19E-06 |
| RHOT2 | 0,871464 | 9,43E-05 |
| POLR2B | 0,871054 | 1,43E-05 |
| INTS3 | 0,870949 | 4,47E-05 |
| RNF181 | 0,870684 | 0,000657 |
| C14orf166 | 0,870147 | 1,49E-05 |
| CYTH2 | 0,869585 | 7,34E-05 |
| XPO7 | 0,866672 | 0,000238 |
| FBL | 0,866303 | 1,97E-06 |
| DHX15 | 0,865379 | 0,000162 |
| ECSIT | 0,865244 | 0,000402 |
| CSNK1G3 | 0,864845 | 0,00072 |
| KCTD20 | 0,864471 | 2,11E-05 |
| BCLAF1 | 0,860609 | 4,41E-06 |

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| AGAP3 | 0,860475 | 0,000741 |
| RPL27 | 0,858281 | 5,84E-06 |
| SENP5 | 0,857994 | 0,000225 |
| ZNF444 | 0,857207 | 0,000761 |
| FAM64A | 0,855691 | 0,000772 |
| APEX1 | 0,855536 | 7,20E-05 |
| GTF3A | 0,855228 | 8,52E-06 |
| SUDS3 | 0,853151 | 0,000528 |
| TCEA3 | 0,853033 | 0,000444 |
| GPS1 | 0,852831 | 0,000135 |
| RABGAP1 | 0,851494 | 0,000135 |
| SRPK1 | 0,84989 | 3,02E-05 |
| NAA30 | 0,84675 | 0,000577 |
| AK3 | 0,845702 | 0,000471 |
| MAD2L1 | 0,845141 | 0,000428 |
| RABL6 | 0,843943 | 0,000139 |
| ATP5F1 | 0,84367 | 9,06E-05 |
| F12 | 0,841397 | 0,000453 |
| MRFAP1L1 | 0,839793 | 0,000108 |
| SHROOM3 | 0,839258 | 0,000981 |
| GTPBP6 | 0,838257 | 0,000716 |
| SFPQ | 0,837331 | 6,45E-06 |
| GNPTAB | 0,835864 | 0,000557 |
| XRN2 | 0,835717 | 2,92E-05 |
| RNF26 | 0,832892 | 0,000505 |
| TBCD | 0,827394 | 0,000245 |
| OXA1L | 0,826768 | 0,000167 |
| GCSH | 0,825808 | 0,000872 |
| VPS45 | 0,822875 | 0,000855 |
| CTPS2 | 0,821583 | 0,000681 |
| STAG2 | 0,820721 | 6,16E-05 |
| PTMA | 0,820173 | 6,17E-05 |
| ASPSCR1 | 0,819895 | 0,000651 |
| NDUFS6 | 0,81697 | 0,000482 |
| FANCI | 0,814383 | 0,000669 |
| GPX4 | 0,812326 | 0,00016 |
| RPL26 | 0,812281 | 6,34E-05 |
| UMPS | 0,810887 | 0,00033 |
| PRR12 | 0,81044 | 0,000399 |
| FUNDC2 | 0,808983 | 0,000546 |
| RBM28 | 0,808209 | 0,000481 |
| CDC42BPB | 0,807512 | 9,79E-05 |
| MRRF | 0,807127 | 0,000828 |
| SRGAP2 | 0,806911 | 0,000103 |
| COX6C | 0,806694 | 0,000332 |
| CNOT7 | 0,803589 | 0,000157 |
| ILVBL | 0,802567 | 9,55E-05 |
| CASC3 | 0,802126 | 0,000669 |
| UQCRRF51 | 0,800936 | 6,76E-05 |
| JAGN1 | 0,796114 | 0,000702 |

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| GID8 | 0,795571 | 0,000153 |
| EIF4E | 0,793637 | 0,000546 |
| HTATSF1 | 0,79299 | 0,000484 |
| BTBD7 | 0,792613 | 0,000641 |
| IGF1R | 0,792179 | 0,000397 |
| KMT2D | 0,791545 | 4,58E-05 |
| SIPA1L1 | 0,78944 | 0,000175 |
| RBBP5 | 0,788088 | 0,000473 |
| BAG1 | 0,788033 | 0,000316 |
| RTN3 | 0,785221 | 0,00097 |
| AFG3L2 | 0,784678 | 0,000343 |
| BRK1 | 0,783872 | 0,000418 |
| VPS52 | 0,78311 | 8,05E-05 |
| NT5C3B | 0,780127 | 0,000909 |
| RFWD2 | 0,779421 | 0,000918 |
| MDK | 0,778592 | 0,000246 |
| SMARCB1 | 0,775794 | 0,000843 |
| BTBD2 | 0,775457 | 0,000159 |
| CANX | 0,771887 | 0,000138 |
| KARS | 0,769304 | 0,000267 |
| COX6A1 | 0,768972 | 7,05E-05 |
| PSMB6 | 0,768404 | 0,000689 |
| GON4L | 0,768254 | 0,000719 |
| MLLT6 | 0,760466 | 0,000431 |
| FGFRL1 | 0,75295 | 0,000941 |
| HN1L | 0,752686 | 8,35E-05 |
| COPS6 | 0,752608 | 0,000213 |
| SMIM7 | 0,751516 | 0,000757 |
| NOTCH1 | 0,749299 | 0,000351 |
| MAPK1IP1 | 0,742314 | 0,000641 |
| SRRM2 | 0,740818 | 0,000141 |
| MRPS18B | 0,740362 | 0,000644 |
| CNBP | 0,740316 | 0,000499 |
| RCC1 | 0,738706 | 0,000611 |
| TLE3 | 0,736123 | 0,000161 |
| SKP1 | 0,7339 | 0,000979 |
| MBTPS1 | 0,733454 | 0,000938 |
| ANKIB1 | 0,732342 | 0,000739 |
| ESYT2 | 0,722508 | 0,000391 |
| RPL7A | 0,720842 | 6,57E-05 |
| PSME3 | 0,720129 | 0,000265 |
| H2AFZ | 0,719822 | 0,000874 |
| MORF4L1 | 0,719511 | 0,000688 |
| ATXN7L3 | 0,718595 | 0,000312 |
| SMCHD1 | 0,718125 | 0,000705 |
| ANKRD17 | 0,717851 | 0,000238 |
| CCDC85B | 0,715672 | 0,000641 |
| PHB | 0,713663 | 0,000154 |
| ZC3H18 | 0,712665 | 0,000869 |
| TAF15 | 0,712628 | 0,000365 |

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| SRSF9 | 0,71175 | 0,000545 |
| USP3 | 0,708795 | 0,000668 |
| KPNB1 | 0,706643 | 0,0001 |
| PRKCI | 0,702541 | 0,000794 |
| LLPH | 0,70053 | 0,00068 |
| COX8A | 0,699362 | 0,000308 |
| TUBB3 | 0,691647 | 0,000225 |
| TADA3 | 0,689322 | 0,000936 |
| RAD21 | 0,689247 | 0,000144 |
| CASP2 | 0,688629 | 0,000871 |
| SRSF2 | 0,68846 | 0,000482 |
| RPL24 | 0,681562 | 0,000583 |
| STUB1 | 0,676637 | 0,000741 |
| MRPS21 | 0,675957 | 0,00066 |
| ATP9A | 0,674121 | 0,000984 |
| ALYREF | 0,671819 | 0,000459 |
| CCT2 | 0,670583 | 0,000688 |
| COX4I1 | 0,662996 | 0,000185 |
| FDPS | 0,656284 | 0,000633 |
| PSMC1 | 0,648895 | 0,000954 |
| SEC11A | 0,647627 | 0,000715 |
| DBN1 | 0,640073 | 0,000555 |
| TAF7 | 0,637412 | 0,000989 |
| RPL14 | 0,637393 | 0,000819 |
| SMARCE1 | 0,635747 | 0,00102 |
| HNRNPK | 0,634571 | 0,000964 |
| HNRNPA2B | 0,631167 | 0,000643 |
| PCBP2 | 0,617454 | 0,000655 |
| EIF2S3 | -0,61485 | 0,000861 |
| CHCHD2 | -0,62629 | 0,000829 |
| EPRS | -0,62738 | 0,000534 |
| RPS20 | -0,63637 | 0,000261 |
| HUWE1 | -0,63796 | 0,000656 |
| MAPK1 | -0,65251 | 0,000973 |
| AES | -0,66191 | 0,000646 |
| PPIF | -0,67387 | 0,000845 |
| YWHAH | -0,67707 | 0,000267 |
| DDX1 | -0,67779 | 0,00033 |
| AATF | -0,68195 | 0,000707 |
| MRPS15 | -0,6842 | 0,00052 |
| RAP1B | -0,68503 | 0,000653 |
| BFAR | -0,68815 | 0,000776 |
| C11orf58 | -0,69501 | 0,000232 |
| MORF4L2 | -0,6957 | 0,000288 |
| GTF2F1 | -0,70567 | 0,000793 |
| SLTM | -0,71003 | 0,000439 |
| SGTA | -0,71186 | 0,000164 |
| EDF1 | -0,71355 | 0,00041 |
| TBCB | -0,71569 | 0,000668 |
| PTK2 | -0,71847 | 0,000188 |

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| ESYT1 | -0,72109 | 7,55E-05 |
| HDAC1 | -0,72261 | 0,000232 |
| TMEM259 | -0,72388 | 0,000628 |
| DNAJC11 | -0,72565 | 0,000385 |
| COPB1 | -0,72616 | 0,000368 |
| TMEM248 | -0,72971 | 0,000693 |
| SERP1 | -0,73248 | 3,90E-05 |
| PYGB | -0,73362 | 0,000188 |
| ZDHHC5 | -0,73408 | 0,000333 |
| PKN1 | -0,7398 | 0,000337 |
| MANF | -0,74221 | 0,000582 |
| AZIN1 | -0,74352 | 4,01E-05 |
| CHMP4B | -0,74463 | 0,000721 |
| CCT8 | -0,74787 | 4,98E-05 |
| SERF2 | -0,75862 | 0,000169 |
| NUP62 | -0,7598 | 0,000954 |
| ADRM1 | -0,76559 | 8,64E-05 |
| EIF3G | -0,7665 | 3,90E-05 |
| ROCK2 | -0,76943 | 0,000394 |
| RLIM | -0,76978 | 0,000286 |
| KHSRP | -0,77218 | 5,37E-05 |
| CENPO | -0,77327 | 0,000487 |
| SNX19 | -0,77566 | 0,000535 |
| TACC1 | -0,77582 | 0,000867 |
| NUDCD3 | -0,77887 | 0,000498 |
| ZDHHC7 | -0,77921 | 0,000561 |
| GFM1 | -0,78045 | 0,000119 |
| MTX2 | -0,78265 | 0,000567 |
| MTMR2 | -0,78537 | 0,000878 |
| VIMP | -0,78692 | 0,000139 |
| CLSPN | -0,79071 | 0,000296 |
| ARAP1 | -0,79082 | 0,000769 |
| PSMD13 | -0,79232 | 6,85E-05 |
| BAK1 | -0,79894 | 0,000768 |
| ANXA7 | -0,79946 | 3,13E-05 |
| TSTA3 | -0,80014 | 2,60E-05 |
| PISD | -0,80319 | 0,000401 |
| BRMS1 | -0,80324 | 0,000471 |
| ZNF579 | -0,80327 | 0,000143 |
| METRNL | -0,8039 | 0,000977 |
| COMMD7 | -0,80857 | 0,000936 |
| AK2 | -0,81133 | 1,32E-05 |
| PPP1R37 | -0,81227 | 0,000735 |
| SLC52A2 | -0,81328 | 0,000211 |
| EIF3I | -0,81597 | 0,000169 |
| NSMAF | -0,81705 | 0,000647 |
| UBA52 | -0,82257 | 3,67E-06 |
| OSGIN2 | -0,82422 | 0,00097 |
| ST13 | -0,82465 | 8,89E-05 |
| DCTD | -0,82597 | 0,000161 |

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| DDX39A | -0,82719 | 1,79E-05 |
| PLOD3 | -0,82748 | 0,000287 |
| PPP1R9B | -0,82789 | 1,77E-05 |
| NCKAP1 | -0,82815 | 3,70E-05 |
| BLOC1S3 | -0,82869 | 0,000665 |
| SMC6 | -0,82903 | 0,000934 |
| MED14 | -0,83186 | 0,00018 |
| SERPINH1 | -0,83679 | 0,000139 |
| LTBP3 | -0,83724 | 0,000565 |
| SSSCA1 | -0,83823 | 0,000246 |
| ATXN10 | -0,83849 | 1,86E-05 |
| RBM42 | -0,83936 | 0,000472 |
| DPM1 | -0,84092 | 0,000176 |
| GDI1 | -0,84093 | 2,95E-05 |
| ELOVL5 | -0,84213 | 0,000125 |
| CC2D1B | -0,84448 | 0,000727 |
| SBNO2 | -0,84485 | 0,000454 |
| RPTOR | -0,84507 | 3,46E-05 |
| NDOR1 | -0,84709 | 0,000391 |
| EIF3D | -0,84882 | 0,000124 |
| PPP6R1 | -0,84976 | 0,000104 |
| SHCBP1 | -0,85109 | 0,000756 |
| ELOF1 | -0,85163 | 0,000104 |
| SLC4A1AP | -0,8525 | 0,000775 |
| ARID1B | -0,85309 | 0,000505 |
| MAP4 | -0,85342 | 1,71E-06 |
| ASCC2 | -0,85378 | 7,69E-05 |
| AKR1A1 | -0,85751 | 0,000107 |
| TMEM70 | -0,86202 | 0,000317 |
| TSSC4 | -0,8636 | 0,000431 |
| CAB39 | -0,865 | 0,000405 |
| FAR1 | -0,86559 | 0,000667 |
| DPP7 | -0,86855 | 8,11E-06 |
| TOR1B | -0,86933 | 0,000243 |
| SLC26A2 | -0,87008 | 0,000518 |
| SUPT7L | -0,87433 | 0,000374 |
| ATP2B1 | -0,87459 | 0,000552 |
| C6orf132 | -0,87641 | 0,000215 |
| PIN1 | -0,87726 | 0,000333 |
| FASTKD5 | -0,87822 | 0,000711 |
| APEX2 | -0,87834 | 0,000247 |
| USP4 | -0,8785 | 0,000377 |
| SEPT11 | -0,87978 | 6,76E-06 |
| PFN1 | -0,88142 | 9,75E-07 |
| C11orf24 | -0,88169 | 5,39E-06 |
| DTL | -0,88229 | 9,11E-05 |
| NDUFAF3 | -0,88435 | 0,000308 |
| MARS | -0,88437 | 9,94E-07 |
| CWC15 | -0,88445 | 0,000546 |
| ZNF410 | -0,88486 | 1,53E-05 |

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| HMGXB3 | -0,88552 | 7,17E-06 |
| FNDC3A | -0,88701 | 0,000245 |
| GPAA1 | -0,88837 | 1,29E-05 |
| TMUB1 | -0,88984 | 0,000368 |
| PTP4A1 | -0,89241 | 2,16E-05 |
| EBNA1BP2 | -0,89292 | 3,19E-06 |
| SCRN1 | -0,89414 | 5,90E-06 |
| HEATR1 | -0,89467 | 7,74E-05 |
| PIGT | -0,89516 | 0,000215 |
| RAB3GAP1 | -0,89614 | 8,17E-06 |
| KIAA0196 | -0,89642 | 9,96E-06 |
| COPRS | -0,89659 | 0,000374 |
| MAP4K4 | -0,89727 | 2,34E-06 |
| SMG5 | -0,89744 | 3,99E-05 |
| MAGT1 | -0,89983 | 8,76E-05 |
| PSMG3 | -0,90029 | 0,000155 |
| FAM219B | -0,90257 | 0,000667 |
| PKM | -0,90347 | 4,98E-05 |
| TTYH3 | -0,90396 | 0,000107 |
| DNM2 | -0,90433 | 5,60E-06 |
| MBOAT7 | -0,90457 | 0,000496 |
| ELMO2 | -0,9047 | 0,000447 |
| XAB2 | -0,90592 | 0,000403 |
| EIF2S2 | -0,90626 | 0,000322 |
| FKBP10 | -0,90828 | 7,76E-07 |
| NOP10 | -0,90971 | 3,30E-05 |
| RNF216 | -0,91097 | 0,000214 |
| TACC2 | -0,91331 | 0,000254 |
| PFN2 | -0,91605 | 1,94E-06 |
| TRAPPC3 | -0,91635 | 0,000275 |
| SHC1 | -0,91701 | 9,38E-07 |
| LAS1L | -0,91704 | 0,000382 |
| CEP164 | -0,9174 | 9,66E-05 |
| TRIP13 | -0,91893 | 0,000289 |
| SLC9A1 | -0,91937 | 2,65E-05 |
| BICD2 | -0,92113 | 2,13E-05 |
| ORMDL1 | -0,92223 | 0,000129 |
| ZNF358 | -0,92249 | 6,53E-05 |
| FAM21A | -0,92302 | 6,10E-06 |
| RHOQ | -0,9238 | 0,000553 |
| POP1 | -0,92539 | 0,00046 |
| RBM3 | -0,92737 | 4,92E-06 |
| RASEF | -0,9277 | 0,000272 |
| ENTPD6 | -0,92966 | 4,76E-05 |
| USP1 | -0,93152 | 0,000841 |
| FOXP1 | -0,93195 | 0,000298 |
| EP300 | -0,93683 | 0,000204 |
| STRADB | -0,93719 | 0,000566 |
| OLA1 | -0,93807 | 5,33E-06 |
| AKAP8L | -0,93953 | 0,000823 |

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| TSG101 | -0,93962 | 0,000258 |
| ACADM | -0,94012 | 0,000392 |
| C19orf47 | -0,94205 | 0,000721 |
| PDIA6 | -0,94322 | 0,000373 |
| MBD2 | -0,94391 | 3,56E-05 |
| FLCN | -0,94399 | 2,69E-05 |
| CDC42 | -0,9449 | 1,86E-05 |
| MRTO4 | -0,94608 | 1,06E-06 |
| TPP2 | -0,94655 | 0,000129 |
| USP47 | -0,94742 | 3,02E-05 |
| GNL1 | -0,9479 | 1,51E-05 |
| SRSF4 | -0,94842 | 0,000113 |
| LRRC47 | -0,95107 | 0,000993 |
| ZC3H3 | -0,95365 | 0,000345 |
| DDHD2 | -0,95481 | 6,07E-05 |
| ARHGEF18 | -0,95704 | 0,000139 |
| NCOA1 | -0,95785 | 0,00057 |
| TULP3 | -0,95889 | 0,000962 |
| TRIM25 | -0,96243 | 0,000116 |
| NOL9 | -0,96294 | 0,000794 |
| PPFIBP1 | -0,96383 | 2,46E-05 |
| KIDINS220 | -0,96398 | 9,83E-07 |
| ACSL1 | -0,96437 | 0,000172 |
| RPS6KA4 | -0,96767 | 1,31E-05 |
| WARS | -0,96876 | 0,000605 |
| TWSG1 | -0,96951 | 0,000153 |
| PEF1 | -0,96962 | 3,35E-06 |
| RGS10 | -0,97024 | 0,000178 |
| EIF3M | -0,97073 | 1,14E-06 |
| SPIRE1 | -0,97204 | 1,46E-06 |
| PRKRA | -0,9722 | 1,86E-06 |
| TMEM184F | -0,97241 | 1,70E-05 |
| FIBP | -0,97306 | 1,48E-06 |
| ZHX2 | -0,97473 | 9,46E-05 |
| EIF4ENIF1 | -0,9773 | 0,000125 |
| TMED4 | -0,97743 | 2,38E-06 |
| PBDC1 | -0,97982 | 8,15E-05 |
| PPP2CB | -0,98126 | 1,69E-05 |
| MPC2 | -0,98149 | 0,000135 |
| SRP14 | -0,98188 | 1,34E-05 |
| MRPS22 | -0,98199 | 1,24E-05 |
| SEC23A | -0,98495 | 0,000531 |
| RAB27A | -0,98508 | 0,00055 |
| RAC1 | -0,98571 | 5,85E-08 |
| ATP11B | -0,98592 | 7,89E-06 |
| ZHX1 | -0,98604 | 5,92E-05 |
| MTRF1L | -0,98703 | 0,000459 |
| OSBPL9 | -0,98782 | 5,14E-07 |
| BNIP2 | -0,9893 | 0,000228 |
| NFU1 | -0,99087 | 0,00039 |

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| CYP20A1 | -0,99242 | 0,000463 |
| PXN | -0,99416 | 0,000703 |
| BLZF1 | -0,99552 | 0,000246 |
| YIF1B | -0,99694 | 0,000137 |
| YAP1 | -0,99808 | 5,88E-05 |
| JMJD1C | -0,99877 | 5,88E-05 |
| OPLAH | -0,99978 | 0,000162 |
| EFCAB14 | -1,00051 | 9,41E-07 |
| ACBD3 | -1,00195 | 1,45E-05 |
| IBTK | -1,00235 | 5,95E-06 |
| NT5C2 | -1,00357 | 0,000283 |
| HERPUD2 | -1,00566 | 2,85E-05 |
| NAP1L4 | -1,00631 | 4,19E-07 |
| SUN1 | -1,00862 | 6,56E-07 |
| NEDD4 | -1,01027 | 0,000211 |
| CEP63 | -1,01207 | 1,31E-05 |
| POMT2 | -1,01311 | 1,57E-05 |
| HTRA2 | -1,01363 | 0,000119 |
| RBM34 | -1,01392 | 2,40E-06 |
| RAB11B | -1,01415 | 6,67E-05 |
| LGMN | -1,01472 | 2,71E-05 |
| SCAF1 | -1,01582 | 4,61E-05 |
| ST7 | -1,01616 | 0,000556 |
| ARHGEF10I | -1,01813 | 0,000317 |
| SUGT1 | -1,01887 | 0,000552 |
| PPIE | -1,02115 | 1,66E-06 |
| SUV39H1 | -1,02157 | 6,32E-05 |
| WDR4 | -1,02181 | 7,17E-05 |
| COPA | -1,0221 | 3,16E-06 |
| IAH1 | -1,0223 | 7,50E-06 |
| ENDOD1 | -1,02535 | 0,000107 |
| CREM | -1,02613 | 6,22E-05 |
| PSMF1 | -1,02653 | 6,08E-05 |
| SKI | -1,02692 | 4,57E-07 |
| BCCIP | -1,02726 | 2,94E-07 |
| ATPIF1 | -1,02777 | 5,74E-06 |
| FAM188A | -1,02818 | 0,000279 |
| HMGN4 | -1,02848 | 2,20E-05 |
| GOLIM4 | -1,02903 | 3,10E-07 |
| LAP3 | -1,02951 | 5,82E-05 |
| IQGAP1 | -1,03004 | 3,60E-06 |
| ASB6 | -1,03052 | 7,25E-05 |
| PSMD14 | -1,03202 | 2,38E-06 |
| GORASP2 | -1,03206 | 1,39E-08 |
| RABAC1 | -1,03433 | 0,000521 |
| UPF3A | -1,03483 | 5,96E-05 |
| TIMM44 | -1,03916 | 2,26E-06 |
| NFKBIB | -1,03972 | 0,00064 |
| PHF8 | -1,04017 | 0,000105 |
| MESDC1 | -1,04017 | 0,000142 |

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| ARHGAP1 | -1,04034 | 0,000606 |
| NSMCE2 | -1,04048 | 1,15E-05 |
| HIAT1 | -1,04137 | 8,90E-06 |
| RNF126 | -1,04164 | 0,000396 |
| MAFK | -1,04215 | 3,83E-05 |
| IGF2R | -1,04248 | 0,000139 |
| RUFY3 | -1,04292 | 0,000497 |
| GUCY1A3 | -1,04643 | 0,000421 |
| SSX2IP | -1,04769 | 2,09E-05 |
| JADE3 | -1,0479 | 0,000103 |
| PHRF1 | -1,0489 | 4,21E-07 |
| CWC22 | -1,04907 | 3,85E-05 |
| SLC35E1 | -1,04926 | 8,11E-07 |
| UTP11L | -1,05052 | 1,94E-05 |
| GTF2A2 | -1,05083 | 2,33E-06 |
| USP9X | -1,05536 | 2,66E-05 |
| TPD52 | -1,05617 | 1,30E-06 |
| EIF3J | -1,05626 | 2,12E-06 |
| GCC2 | -1,05672 | 0,00041 |
| PCNXL2 | -1,05729 | 0,000383 |
| HIVEP1 | -1,06002 | 2,66E-06 |
| CEP104 | -1,06212 | 1,62E-06 |
| DYNLRB1 | -1,06222 | 6,00E-06 |
| LASP1 | -1,06255 | 0,000274 |
| PCGF5 | -1,06294 | 2,65E-05 |
| EIF6 | -1,06363 | 1,03E-07 |
| NUP35 | -1,06694 | 0,000297 |
| ACAP3 | -1,06802 | 1,23E-05 |
| DES12 | -1,06873 | 1,24E-05 |
| HSP90B1 | -1,06982 | 3,53E-07 |
| ATF2 | -1,07113 | 7,93E-05 |
| OTUD5 | -1,07243 | 3,24E-05 |
| PEX3 | -1,07255 | 0,000916 |
| TCEB1 | -1,07389 | 3,36E-07 |
| ABHD12 | -1,07391 | 2,99E-07 |
| RAD51 | -1,07398 | 3,08E-05 |
| LTBR | -1,0741 | 3,09E-09 |
| GNA11 | -1,07544 | 1,34E-07 |
| MEGF8 | -1,07553 | 1,64E-06 |
| LINC00116 | -1,07738 | 0,000829 |
| SLC35A3 | -1,0788 | 0,000631 |
| KATNAL1 | -1,07901 | 0,00025 |
| VPS37B | -1,08066 | 8,08E-06 |
| TLN1 | -1,08069 | 7,05E-07 |
| GET4 | -1,08087 | 2,68E-06 |
| SACS | -1,08228 | 4,83E-07 |
| DOCK7 | -1,08324 | 2,72E-06 |
| KIAA2013 | -1,08522 | 2,36E-06 |
| TPRA1 | -1,08556 | 5,80E-06 |
| YIPF6 | -1,08657 | 5,84E-06 |

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| SDHB | -1,08705 | 1,10E-06 |
| FAM3C | -1,08774 | 5,91E-06 |
| GSTO1 | -1,08877 | 0,000148 |
| ITSN1 | -1,08947 | 3,01E-06 |
| TANK | -1,08991 | 9,53E-06 |
| FER | -1,09108 | 0,000206 |
| SHB | -1,09162 | 2,10E-06 |
| CHSY1 | -1,09208 | 6,46E-05 |
| OSBPL2 | -1,09392 | 9,49E-06 |
| DSG2 | -1,0941 | 3,44E-09 |
| SIRT6 | -1,09441 | 5,21E-05 |
| UBA3 | -1,09476 | 0,000113 |
| GNL2 | -1,09477 | 2,63E-07 |
| TFPT | -1,09525 | 0,00041 |
| ARL2 | -1,09558 | 4,52E-06 |
| TMEM54 | -1,0958 | 3,15E-07 |
| ABRACL | -1,0959 | 1,88E-05 |
| HPS1 | -1,09731 | 3,94E-06 |
| MAGOHB | -1,0982 | 0,000128 |
| NCOR2 | -1,09875 | 3,60E-07 |
| TRIO | -1,09959 | 1,18E-06 |
| TBRG1 | -1,09963 | 1,30E-05 |
| SH3BP4 | -1,10023 | 1,35E-05 |
| DSCC1 | -1,1008 | 0,000124 |
| TXNDC12 | -1,10137 | 4,64E-07 |
| TEAD1 | -1,10197 | 2,64E-07 |
| ARHGAP27 | -1,10336 | 2,98E-05 |
| HPS3 | -1,10337 | 6,06E-06 |
| IL17RA | -1,10444 | 1,31E-05 |
| MAGOH | -1,10539 | 2,63E-07 |
| PTPN3 | -1,10637 | 4,30E-06 |
| SMARCAL1 | -1,10737 | 2,41E-05 |
| CLCN7 | -1,10739 | 9,24E-07 |
| PEPD | -1,10784 | 1,24E-05 |
| SF3B2 | -1,10796 | 3,74E-10 |
| YBX1 | -1,109 | 4,64E-05 |
| C20orf24 | -1,11083 | 3,73E-06 |
| GBE1 | -1,1109 | 0,000375 |
| POLA2 | -1,11215 | 0,000268 |
| ANXA11 | -1,11306 | 1,53E-06 |
| HEXB | -1,11343 | 9,15E-06 |
| SLC36A1 | -1,11359 | 0,000125 |
| CSPP1 | -1,11544 | 0,000352 |
| RPN1 | -1,11666 | 2,24E-06 |
| MIER1 | -1,11785 | 0,000154 |
| GTPBP1 | -1,11939 | 1,43E-05 |
| SMC4 | -1,11965 | 1,11E-06 |
| NIPA2 | -1,12263 | 2,38E-05 |
| VPS37A | -1,12313 | 6,76E-06 |
| TBC1D12 | -1,12473 | 0,000272 |

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| BBS7 | -1,12478 | 0,000151 |
| LY6E | -1,12556 | 0,000719 |
| RHPN2 | -1,12812 | 3,10E-05 |
| DNAJC1 | -1,12936 | 1,01E-08 |
| ZNF343 | -1,12993 | 6,89E-05 |
| CUTA | -1,13194 | 2,30E-07 |
| DVL1 | -1,13308 | 1,07E-06 |
| HSF1 | -1,13514 | 2,64E-09 |
| CBR1 | -1,13564 | 6,87E-05 |
| ZSWIM8 | -1,13595 | 5,10E-05 |
| MKL1 | -1,13602 | 2,43E-07 |
| RPS6KC1 | -1,13605 | 1,79E-05 |
| RTKN | -1,13714 | 2,48E-08 |
| PITPNB | -1,13958 | 2,25E-08 |
| GNB1 | -1,13962 | 1,36E-09 |
| TRMT6 | -1,14055 | 1,19E-07 |
| SEMA4D | -1,14068 | 0,000896 |
| MACF1 | -1,14071 | 6,11E-09 |
| BABAM1 | -1,14133 | 3,14E-07 |
| MCFD2 | -1,14296 | 2,67E-08 |
| PRKAR2A | -1,14539 | 0,00064 |
| NUDC | -1,1455 | 0,00025 |
| SLC39A10 | -1,14586 | 0,000813 |
| MYL6 | -1,14726 | 1,43E-10 |
| CD81 | -1,1499 | 4,35E-08 |
| CEP290 | -1,15109 | 3,34E-05 |
| ADGRG1 | -1,15286 | 5,41E-08 |
| ACTN4 | -1,15286 | 1,43E-05 |
| KDSR | -1,1556 | 7,00E-08 |
| AKIRIN1 | -1,15566 | 5,13E-08 |
| PLGRKT | -1,15568 | 0,000166 |
| ZDHHC8 | -1,15719 | 1,90E-05 |
| PGLS | -1,15872 | 7,21E-07 |
| ZNF414 | -1,15896 | 7,06E-05 |
| KIAA0355 | -1,15927 | 0,00034 |
| SAMD8 | -1,15941 | 0,000156 |
| NFKBIA | -1,16229 | 1,35E-06 |
| HPS5 | -1,16279 | 1,85E-05 |
| STOM | -1,16341 | 1,02E-05 |
| PHF1 | -1,16381 | 0,000176 |
| ADAM17 | -1,16447 | 1,05E-05 |
| CHST12 | -1,16533 | 0,000459 |
| ZNF395 | -1,16547 | 7,96E-08 |
| BAG2 | -1,16561 | 1,20E-05 |
| NUCB1 | -1,16604 | 7,54E-07 |
| MAP3K2 | -1,16615 | 5,59E-07 |
| M6PR | -1,16787 | 1,54E-05 |
| QDPR | -1,16868 | 3,07E-06 |
| MED15 | -1,17019 | 6,24E-09 |
| ASAP2 | -1,17105 | 1,89E-08 |

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| MIEF1 | -1,17233 | 2,04E-07 |
| POFUT2 | -1,17311 | 0,000715 |
| GLUD1 | -1,17335 | 1,53E-09 |
| KANSL3 | -1,17355 | 8,51E-07 |
| TYRO3 | -1,17434 | 3,34E-08 |
| VAMP4 | -1,17451 | 0,000801 |
| SLC25A28 | -1,17562 | 0,000304 |
| RPS6KA3 | -1,17591 | 6,58E-08 |
| EIF2B2 | -1,177 | 8,30E-09 |
| SLC41A1 | -1,17761 | 2,37E-06 |
| LZTS2 | -1,17768 | 9,41E-09 |
| FMNL2 | -1,17812 | 2,68E-06 |
| MAP2K1 | -1,18025 | 3,84E-08 |
| CHN1 | -1,18026 | 0,000656 |
| EHBP1 | -1,18029 | 1,29E-06 |
| FERMT1 | -1,18274 | 0,000132 |
| USP16 | -1,18345 | 2,44E-06 |
| SAMD4B | -1,18367 | 2,61E-05 |
| CLIP1 | -1,18375 | 7,33E-09 |
| PPP2R3A | -1,18457 | 0,000194 |
| RBFOX2 | -1,18489 | 5,27E-09 |
| ZMIZ2 | -1,18619 | 1,55E-10 |
| CFL1 | -1,18649 | 1,82E-09 |
| RASA3 | -1,18653 | 0,000763 |
| SF3B6 | -1,18698 | 1,86E-05 |
| DERL1 | -1,18761 | 2,50E-06 |
| HAT1 | -1,18817 | 3,71E-09 |
| FAU | -1,19009 | 2,06E-11 |
| SCARB1 | -1,1921 | 3,16E-05 |
| EHD1 | -1,19245 | 0,000829 |
| HK1 | -1,19247 | 6,76E-05 |
| SRPRB | -1,19349 | 7,97E-10 |
| TMCO3 | -1,19358 | 0,000546 |
| ARF4 | -1,19383 | 0,000811 |
| RECQL | -1,19547 | 7,48E-08 |
| ITPA | -1,19558 | 9,49E-06 |
| ZNF584 | -1,19788 | 8,31E-06 |
| RBM19 | -1,19874 | 0,000903 |
| GNAI2 | -1,19902 | 0,000125 |
| SRM | -1,19914 | 1,96E-05 |
| PSMB2 | -1,1993 | 3,23E-11 |
| LRRFIP2 | -1,19983 | 2,53E-08 |
| DMTN | -1,2002 | 4,74E-06 |
| IQCB1 | -1,20046 | 2,17E-05 |
| MTDH | -1,20052 | 5,80E-06 |
| ZCCHC17 | -1,20531 | 8,78E-06 |
| LRRC41 | -1,20542 | 3,82E-08 |
| TFE3 | -1,20555 | 9,33E-09 |
| DLGAP4 | -1,20607 | 3,03E-08 |
| ATP13A2 | -1,20699 | 1,49E-05 |

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| TRIT1 | -1,20719 | 9,82E-05 |
| SEC61A1 | -1,20752 | 0,000177 |
| CTNNAL1 | -1,20879 | 0,00044 |
| ZDHHC13 | -1,20932 | 4,44E-05 |
| KLF4 | -1,21018 | 8,77E-05 |
| RABGEF1 | -1,2111 | 1,58E-07 |
| SVIL | -1,21149 | 1,73E-05 |
| TWISTNB | -1,21278 | 2,58E-06 |
| MOSPD1 | -1,21304 | 7,78E-06 |
| SLC2A8 | -1,21333 | 0,000238 |
| UGGT2 | -1,21385 | 0,000992 |
| BTBD10 | -1,2182 | 2,06E-06 |
| NCAPH2 | -1,21841 | 7,23E-09 |
| ARHGEF7 | -1,22052 | 2,69E-06 |
| CSNK2A1 | -1,22162 | 5,45E-10 |
| ENAH | -1,22244 | 1,26E-07 |
| ACAT1 | -1,22314 | 0,000138 |
| RSU1 | -1,22585 | 6,12E-10 |
| RCBTB1 | -1,22684 | 5,25E-05 |
| DNAJC8 | -1,22704 | 3,15E-07 |
| SBF1 | -1,2274 | 1,31E-08 |
| CEBPD | -1,22742 | 0,000123 |
| ATP6V1E1 | -1,22862 | 2,67E-06 |
| SLC16A1 | -1,22988 | 1,29E-08 |
| GFRA1 | -1,23008 | 0,000153 |
| MCM8 | -1,23012 | 1,09E-07 |
| C1orf52 | -1,23029 | 1,53E-05 |
| NENF | -1,23239 | 5,04E-08 |
| ACVR1 | -1,23346 | 0,000161 |
| HAUS8 | -1,23507 | 2,48E-06 |
| CERS5 | -1,23609 | 1,88E-06 |
| UACA | -1,23639 | 6,38E-06 |
| CCT6A | -1,23652 | 6,63E-11 |
| NXPH4 | -1,23733 | 2,46E-07 |
| KCTD11 | -1,23744 | 0,000759 |
| MPZL1 | -1,23762 | 3,69E-11 |
| RPS6KA1 | -1,23784 | 0,000234 |
| YIF1A | -1,23823 | 5,93E-09 |
| ERCC1 | -1,23881 | 3,81E-08 |
| TM2D1 | -1,23969 | 0,00024 |
| ECI2 | -1,24034 | 3,92E-06 |
| LDLRAP1 | -1,24057 | 0,000933 |
| STAT2 | -1,24279 | 2,90E-06 |
| ATAD3A | -1,24286 | 4,42E-10 |
| DEDD2 | -1,24288 | 0,000169 |
| ATP6V1C1 | -1,24339 | 0,00053 |
| LPGAT1 | -1,24399 | 9,51E-07 |
| SLC10A3 | -1,24435 | 6,41E-08 |
| TMEM230 | -1,24521 | 3,22E-08 |
| ZBTB43 | -1,24619 | 4,31E-07 |

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| MED27 | -1,24652 | 1,38E-06 |
| RHOG | -1,24684 | 2,68E-09 |
| LOC100125 | -1,2473 | 7,75E-05 |
| TYK2 | -1,24904 | 6,39E-05 |
| AGTPBP1 | -1,24925 | 1,56E-05 |
| MRPL13 | -1,25207 | 9,32E-08 |
| DMPK | -1,25224 | 3,57E-05 |
| TMEM87A | -1,25254 | 1,36E-08 |
| STK24 | -1,25431 | 1,18E-09 |
| TYMS | -1,25446 | 4,58E-09 |
| CD276 | -1,25467 | 9,04E-06 |
| STAM2 | -1,25519 | 2,99E-07 |
| AGRN | -1,25552 | 1,26E-06 |
| RAB29 | -1,25829 | 5,66E-05 |
| SPAG9 | -1,2589 | 1,14E-06 |
| BZW1 | -1,25989 | 2,41E-09 |
| PIGK | -1,26132 | 2,86E-05 |
| LAMB1 | -1,26203 | 2,34E-11 |
| SASS6 | -1,26268 | 0,000786 |
| PTS | -1,26389 | 0,000542 |
| TMEM63A | -1,26512 | 0,000133 |
| SELK | -1,26708 | 0,00074 |
| CRY1 | -1,26847 | 1,38E-06 |
| MAP2K7 | -1,27137 | 6,38E-09 |
| STXBP2 | -1,27154 | 1,25E-08 |
| DPM2 | -1,27172 | 1,40E-05 |
| RB1 | -1,27178 | 3,35E-07 |
| STXBP5 | -1,27189 | 1,03E-05 |
| OPHN1 | -1,2756 | 0,000736 |
| PIK3C3 | -1,27578 | 4,62E-05 |
| MYSM1 | -1,27579 | 0,000976 |
| ELMSAN1 | -1,27642 | 7,17E-05 |
| LUZP1 | -1,27643 | 0,000499 |
| BET1L | -1,27873 | 8,50E-07 |
| QKI | -1,27915 | 2,01E-05 |
| EXO5 | -1,27972 | 6,77E-05 |
| RAB3GAP2 | -1,27974 | 4,24E-09 |
| LFNG | -1,28021 | 9,43E-05 |
| FBXO27 | -1,28086 | 9,11E-08 |
| CD99 | -1,28092 | 5,76E-08 |
| B4GALT5 | -1,28162 | 7,35E-09 |
| DMAP1 | -1,28189 | 0,00036 |
| CDS2 | -1,28417 | 3,27E-07 |
| BLOC1S6 | -1,28448 | 1,47E-08 |
| LMAN2L | -1,2852 | 4,12E-07 |
| PATL1 | -1,28552 | 1,83E-10 |
| LRRC42 | -1,28665 | 4,89E-09 |
| SATB2 | -1,28677 | 2,28E-06 |
| SLC31A1 | -1,28697 | 8,14E-11 |
| ZFAND2A | -1,28745 | 3,26E-06 |

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| FOKK1 | -1,28919 | 3,40E-08 |
| GPX8 | -1,28945 | 1,53E-06 |
| CPD | -1,29042 | 2,74E-09 |
| FLNB | -1,29055 | 2,17E-06 |
| DHDDS | -1,29069 | 0,000288 |
| EXOSC10 | -1,29135 | 5,06E-09 |
| SIPA1L2 | -1,29151 | 2,47E-09 |
| CXorf40B | -1,29239 | 0,000468 |
| CLTA | -1,2926 | 5,92E-10 |
| ARHGAP21 | -1,29268 | 7,01E-09 |
| COPS8 | -1,2928 | 4,70E-07 |
| RCN1 | -1,29337 | 8,02E-12 |
| ZNF335 | -1,29343 | 3,66E-06 |
| ZNF841 | -1,29462 | 7,97E-07 |
| CA5BP1 | -1,29512 | 2,37E-05 |
| CLIC1 | -1,29629 | 1,74E-07 |
| PHC2 | -1,29726 | 8,24E-07 |
| NOTCH2 | -1,29787 | 8,21E-12 |
| TTPAL | -1,29866 | 1,40E-07 |
| YKT6 | -1,29892 | 2,17E-11 |
| PITHD1 | -1,29899 | 4,47E-08 |
| CDC37 | -1,29909 | 8,36E-07 |
| TMEM201 | -1,30176 | 4,17E-07 |
| SAT2 | -1,30199 | 1,96E-05 |
| EMC1 | -1,30252 | 7,66E-10 |
| VDR | -1,30307 | 0,000393 |
| SNX12 | -1,30345 | 0,00027 |
| LIMK1 | -1,30404 | 6,33E-06 |
| TRIOBP | -1,30421 | 4,77E-09 |
| STAT3 | -1,30568 | 0,000471 |
| ACTB | -1,30668 | 2,44E-06 |
| S100A11 | -1,30885 | 2,67E-05 |
| RNH1 | -1,30956 | 6,26E-06 |
| GFPT1 | -1,30982 | 2,44E-11 |
| TWF2 | -1,30987 | 1,21E-08 |
| MARK4 | -1,31026 | 7,00E-06 |
| RHBDF2 | -1,3105 | 1,09E-08 |
| BMP2K | -1,31073 | 5,29E-07 |
| PITPNM3 | -1,31207 | 0,000502 |
| MAFG | -1,31355 | 5,88E-09 |
| MAP7D3 | -1,3136 | 1,13E-09 |
| RRP12 | -1,31567 | 6,76E-11 |
| TPCN1 | -1,31591 | 7,85E-09 |
| SDF4 | -1,31606 | 1,51E-05 |
| HEBP2 | -1,31681 | 3,74E-07 |
| FAM110B | -1,317 | 0,000928 |
| INTS6 | -1,31885 | 5,29E-05 |
| SEC14L1 | -1,31913 | 9,93E-08 |
| CXXC5 | -1,32074 | 0,000162 |
| ZRSR2 | -1,32121 | 1,85E-07 |

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| EDEM1 | -1,32208 | 1,58E-07 |
| RAPH1 | -1,32444 | 1,02E-05 |
| PNPLA2 | -1,32646 | 9,37E-06 |
| SKAP2 | -1,32661 | 2,93E-07 |
| RPAP1 | -1,32886 | 5,90E-10 |
| ZBTB17 | -1,32942 | 6,57E-07 |
| HAUS2 | -1,32971 | 0,000656 |
| RNF144A | -1,33016 | 3,57E-05 |
| FBXL6 | -1,33113 | 0,000522 |
| KIF1B | -1,33123 | 1,88E-05 |
| NCLN | -1,33255 | 8,34E-12 |
| USP18 | -1,33704 | 0,000731 |
| MELK | -1,33716 | 2,48E-11 |
| RNF213 | -1,33852 | 0,000215 |
| NDUFA11 | -1,33873 | 1,62E-11 |
| PEX14 | -1,33912 | 1,98E-06 |
| PHF19 | -1,33972 | 2,23E-09 |
| RAB23 | -1,33984 | 2,02E-08 |
| TRAM1 | -1,34018 | 5,00E-05 |
| SCRN3 | -1,34025 | 0,000143 |
| RPF1 | -1,34644 | 4,82E-08 |
| LAMB2 | -1,34656 | 5,92E-09 |
| PTPN9 | -1,34676 | 1,06E-08 |
| HDAC7 | -1,34677 | 1,47E-09 |
| TRIM44 | -1,34741 | 8,84E-13 |
| YPEL5 | -1,34816 | 8,44E-05 |
| U2SURP | -1,35045 | 3,43E-11 |
| TRIM35 | -1,35313 | 7,15E-06 |
| KIAA1715 | -1,35333 | 2,18E-06 |
| PPARA | -1,35517 | 0,000377 |
| LRCH1 | -1,35636 | 4,49E-09 |
| ZNF706 | -1,35792 | 1,36E-12 |
| CEP89 | -1,35856 | 1,05E-06 |
| PSMA1 | -1,35951 | 4,52E-12 |
| PWWP2B | -1,35957 | 6,20E-11 |
| C11orf95 | -1,35959 | 1,05E-08 |
| TJAP1 | -1,35967 | 0,000126 |
| HMGCL | -1,36034 | 9,04E-07 |
| B4GALT6 | -1,36455 | 0,000905 |
| SDCCAG8 | -1,36481 | 8,96E-05 |
| ILK | -1,36535 | 1,02E-07 |
| UFM1 | -1,36664 | 2,09E-10 |
| ENC1 | -1,36711 | 1,41E-05 |
| NVL | -1,36903 | 3,76E-08 |
| WDFY2 | -1,37049 | 7,19E-05 |
| CAPN1 | -1,37119 | 0,000695 |
| CCDC9 | -1,37148 | 2,58E-10 |
| CDK16 | -1,37246 | 6,36E-11 |
| EPS15L1 | -1,373 | 3,92E-08 |
| TRMT1 | -1,3752 | 1,19E-08 |

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| DUSP14 | -1,37542 | 9,27E-09 |
| NSFL1C | -1,37702 | 3,50E-10 |
| UBE2E3 | -1,38043 | 3,78E-09 |
| TCIRG1 | -1,38134 | 5,60E-06 |
| ZNF823 | -1,38145 | 9,12E-05 |
| WDR91 | -1,38239 | 3,50E-07 |
| SGCB | -1,38392 | 7,81E-07 |
| STX2 | -1,38455 | 3,18E-06 |
| EPS15 | -1,38482 | 1,58E-09 |
| SSFA2 | -1,38497 | 6,47E-11 |
| POFUT1 | -1,3855 | 2,01E-09 |
| ALKBH3 | -1,38641 | 3,13E-08 |
| YARS | -1,3871 | 7,76E-08 |
| CCDC50 | -1,38726 | 3,63E-07 |
| CLSTN1 | -1,38821 | 2,65E-08 |
| MAP1S | -1,38887 | 1,43E-06 |
| CASC4 | -1,38968 | 1,49E-08 |
| STK10 | -1,39058 | 9,02E-11 |
| PTDSS2 | -1,39142 | 0,000435 |
| GNA12 | -1,3916 | 5,92E-11 |
| AAED1 | -1,39187 | 0,000508 |
| TTC13 | -1,39248 | 0,000117 |
| DNAJC3 | -1,3936 | 4,35E-05 |
| ADAM10 | -1,39376 | 4,20E-09 |
| GTF2H1 | -1,39455 | 5,90E-11 |
| CRISPLD2 | -1,39602 | 3,36E-06 |
| MAPK11 | -1,39931 | 4,37E-05 |
| TRIM8 | -1,4005 | 2,04E-09 |
| ZNF114 | -1,40063 | 2,47E-06 |
| CNPY2 | -1,4033 | 9,71E-13 |
| SGK223 | -1,40442 | 3,62E-08 |
| GHDC | -1,40499 | 0,000288 |
| VAC14 | -1,40514 | 1,45E-13 |
| FBXO28 | -1,40622 | 8,23E-06 |
| SLC12A7 | -1,40658 | 5,74E-11 |
| NRBF2 | -1,4078 | 7,91E-10 |
| PLCG2 | -1,40937 | 3,59E-07 |
| TSPYL2 | -1,41019 | 5,67E-05 |
| LRRC57 | -1,41274 | 0,000387 |
| IFI30 | -1,41443 | 1,82E-05 |
| GNPDA1 | -1,41742 | 8,54E-07 |
| ATF4 | -1,41757 | 9,07E-07 |
| KLHL7 | -1,41763 | 9,27E-06 |
| NECAP2 | -1,41814 | 5,55E-09 |
| DCLK1 | -1,41863 | 6,11E-09 |
| SDC3 | -1,41987 | 1,14E-07 |
| PLD3 | -1,41999 | 3,26E-06 |
| HEBP1 | -1,42058 | 2,05E-10 |
| DYNC1I2 | -1,42458 | 2,70E-10 |
| PNPLA6 | -1,42503 | 0,000208 |

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| NPC1 | -1,42561 | 4,93E-10 |
| NEK1 | -1,42809 | 0,000873 |
| TNFRSF1A | -1,42824 | 9,67E-08 |
| LPP | -1,42831 | 1,36E-08 |
| EXTL3 | -1,42935 | 8,44E-10 |
| LAMP1 | -1,43031 | 6,47E-09 |
| TBC1D20 | -1,43068 | 7,13E-10 |
| MLF1 | -1,4328 | 6,88E-06 |
| SP140L | -1,43363 | 2,55E-08 |
| PGAM1 | -1,43456 | 3,12E-07 |
| VAMP3 | -1,43484 | 6,36E-05 |
| USP11 | -1,43624 | 2,34E-10 |
| RELA | -1,43833 | 7,09E-13 |
| NCSTN | -1,43872 | 7,84E-12 |
| CCDC183-A | -1,43985 | 0,000156 |
| TXLNA | -1,44072 | 4,17E-09 |
| KCNH2 | -1,44121 | 3,71E-06 |
| SPTAN1 | -1,44126 | 4,24E-12 |
| TMEM65 | -1,44147 | 2,48E-07 |
| XPNPEP1 | -1,44194 | 2,40E-08 |
| RIC8A | -1,44553 | 1,46E-13 |
| PVRL2 | -1,44761 | 1,82E-09 |
| PACSIN2 | -1,44766 | 1,80E-09 |
| ANKLE2 | -1,44786 | 1,47E-11 |
| KIF3C | -1,44806 | 2,27E-07 |
| EDEM2 | -1,45361 | 8,69E-09 |
| FKBP9 | -1,45611 | 7,40E-13 |
| TUBA1C | -1,46016 | 9,82E-14 |
| SLC12A8 | -1,46074 | 1,23E-05 |
| PDCD5 | -1,4612 | 1,09E-14 |
| B3GALNT1 | -1,46238 | 4,51E-08 |
| UAP1 | -1,46276 | 6,37E-07 |
| FIGNL1 | -1,46348 | 6,75E-10 |
| B3GNT4 | -1,46367 | 0,000472 |
| ZBTB8OS | -1,46486 | 1,84E-07 |
| CTU1 | -1,46753 | 0,000327 |
| WDR13 | -1,46755 | 0,000124 |
| FZD6 | -1,46782 | 3,31E-08 |
| FAXC | -1,46864 | 5,67E-05 |
| CREB3 | -1,47004 | 1,72E-05 |
| HSPA5 | -1,47073 | 2,98E-17 |
| ARNT2 | -1,47076 | 1,23E-07 |
| ZNF41 | -1,47259 | 5,50E-07 |
| DBNL | -1,47307 | 2,89E-06 |
| PSMD8 | -1,47405 | 9,30E-17 |
| ERO1A | -1,47446 | 1,95E-10 |
| LAPTM4A | -1,47465 | 9,10E-14 |
| SLC25A32 | -1,4749 | 1,88E-07 |
| CALU | -1,475 | 1,45E-11 |
| TOM1 | -1,47536 | 1,29E-07 |

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| ZNF275 | -1,47563 | 2,69E-09 |
| BTN2A2 | -1,47568 | 1,47E-05 |
| CLK1 | -1,47653 | 0,000133 |
| CDC42BPA | -1,47768 | 1,86E-07 |
| ZNF44 | -1,47937 | 6,84E-06 |
| CCZ1 | -1,4818 | 6,46E-09 |
| FBXO42 | -1,48342 | 8,48E-07 |
| EMC7 | -1,4853 | 4,17E-08 |
| HDAC6 | -1,48536 | 6,00E-09 |
| ATP1B3 | -1,48633 | 1,29E-16 |
| PDIA5 | -1,48638 | 3,75E-10 |
| GLRX3 | -1,48768 | 2,80E-13 |
| ANO6 | -1,48794 | 5,92E-09 |
| INAFM1 | -1,48987 | 5,59E-06 |
| FTL | -1,49055 | 6,72E-05 |
| CNDP2 | -1,49076 | 2,89E-10 |
| B3GLCT | -1,49181 | 6,18E-05 |
| PLXNA3 | -1,49261 | 1,18E-08 |
| NFATC1 | -1,49308 | 0,000219 |
| USP40 | -1,49337 | 3,16E-09 |
| RASAL2 | -1,49351 | 6,08E-09 |
| MAST2 | -1,49679 | 9,66E-13 |
| PIGH | -1,49844 | 3,44E-09 |
| PRPS1 | -1,49911 | 8,76E-09 |
| FMNL3 | -1,50049 | 4,12E-08 |
| CST3 | -1,50079 | 2,39E-09 |
| PNKD | -1,50128 | 5,48E-08 |
| SERAC1 | -1,50153 | 0,00058 |
| LGR4 | -1,5026 | 0,000108 |
| STAM | -1,50522 | 5,98E-08 |
| NRSN2 | -1,50665 | 3,57E-06 |
| CREB3L2 | -1,50674 | 9,33E-08 |
| RAB7A | -1,50967 | 3,49E-06 |
| TRNAU1AP | -1,51032 | 2,67E-06 |
| PRKAG2 | -1,51094 | 1,16E-11 |
| ATP6AP2 | -1,51103 | 5,58E-09 |
| PPP1R12C | -1,51173 | 6,84E-11 |
| CAPZB | -1,51271 | 8,82E-08 |
| EOGT | -1,51336 | 0,000319 |
| CCDC130 | -1,51597 | 0,00012 |
| DNTTIP2 | -1,51606 | 1,01E-14 |
| ENO1 | -1,51706 | 2,05E-08 |
| DPF2 | -1,52109 | 2,26E-12 |
| SMAP2 | -1,52351 | 0,000543 |
| POMGNT1 | -1,52589 | 0,000191 |
| KIAA1671 | -1,52718 | 7,10E-11 |
| ITPR3 | -1,52789 | 1,48E-10 |
| RNPEPL1 | -1,5303 | 4,35E-08 |
| RTN4 | -1,53075 | 4,59E-13 |
| RNF24 | -1,53382 | 8,21E-06 |

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| SNX3 | -1,53435 | 5,00E-10 |
| FAM210A | -1,53521 | 2,83E-06 |
| CCDC91 | -1,53727 | 4,86E-06 |
| ATP6V0B | -1,53864 | 3,50E-16 |
| COL9A2 | -1,54052 | 6,33E-05 |
| GNB1L | -1,54105 | 4,72E-06 |
| ST3GAL4 | -1,54124 | 5,75E-05 |
| RILPL1 | -1,5421 | 1,03E-07 |
| HSPBAP1 | -1,54376 | 0,000116 |
| NUAK1 | -1,54571 | 8,06E-10 |
| RIT1 | -1,5462 | 8,64E-10 |
| ACOT9 | -1,54627 | 9,08E-08 |
| TRPV3 | -1,54665 | 0,000129 |
| ARFGEF1 | -1,54694 | 4,08E-12 |
| TBC1D17 | -1,54848 | 2,86E-06 |
| TXN | -1,54978 | 4,75E-07 |
| BNIP3L | -1,55369 | 0,000146 |
| CD151 | -1,55485 | 1,63E-13 |
| TDRD7 | -1,55515 | 0,000907 |
| PRELID2 | -1,55756 | 9,79E-07 |
| SLC35C1 | -1,55932 | 3,04E-13 |
| SH3RF1 | -1,56015 | 0,000129 |
| EXT2 | -1,56032 | 1,45E-07 |
| EIF1AD | -1,56041 | 2,64E-14 |
| TMED5 | -1,56057 | 8,27E-08 |
| PTP4A2 | -1,56112 | 5,56E-14 |
| SNX25 | -1,56156 | 1,55E-05 |
| SOD2 | -1,5622 | 9,78E-12 |
| PLD1 | -1,56222 | 2,88E-06 |
| WHAMM | -1,56247 | 9,77E-09 |
| ARMC9 | -1,56479 | 4,73E-09 |
| RMDN3 | -1,5648 | 1,01E-06 |
| DR1 | -1,56578 | 1,96E-14 |
| DNTTIP1 | -1,56988 | 3,31E-10 |
| ARL2BP | -1,57031 | 4,98E-12 |
| FAM49B | -1,57072 | 1,72E-16 |
| TRIM14 | -1,57164 | 0,000239 |
| SEPT7 | -1,57332 | 1,77E-13 |
| GNPTG | -1,57603 | 1,78E-09 |
| DCBLD1 | -1,57609 | 0,000172 |
| SLC2A10 | -1,57642 | 4,22E-05 |
| WDFY1 | -1,57646 | 4,52E-13 |
| ARHGEF10 | -1,57653 | 0,000125 |
| PIP5K1C | -1,57943 | 3,15E-07 |
| SPRYD7 | -1,58049 | 1,18E-06 |
| PLEKHG2 | -1,5813 | 2,65E-12 |
| PLEKHA5 | -1,58335 | 3,21E-10 |
| ACADVL | -1,58615 | 3,84E-08 |
| UBQLN2 | -1,5866 | 3,28E-14 |
| AP2A2 | -1,58679 | 1,54E-12 |

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| TPD52L2 | -1,58919 | 1,92E-15 |
| TAF2 | -1,59016 | 2,14E-16 |
| PARP3 | -1,59027 | 4,71E-07 |
| BCL2L2 | -1,59082 | 2,41E-08 |
| ATP11A | -1,59119 | 5,48E-09 |
| SEMA7A | -1,592 | 1,48E-07 |
| ITSN2 | -1,59268 | 3,94E-09 |
| ZNF274 | -1,59319 | 1,33E-08 |
| STK40 | -1,59382 | 9,84E-09 |
| MAD1L1 | -1,59445 | 1,03E-17 |
| DNAJC10 | -1,59604 | 9,53E-13 |
| ITGAV | -1,5961 | 1,30E-09 |
| UBA5 | -1,59635 | 2,79E-09 |
| CABLES1 | -1,59699 | 1,51E-07 |
| DMWD | -1,59701 | 1,76E-10 |
| ZNF530 | -1,59725 | 0,00071 |
| JMJD6 | -1,59756 | 2,91E-06 |
| PARP8 | -1,5977 | 1,18E-06 |
| RNF19A | -1,59882 | 3,32E-09 |
| NEK6 | -1,59949 | 6,43E-12 |
| FLVCR1 | -1,6 | 8,35E-06 |
| CTSC | -1,60513 | 3,13E-13 |
| CNIH4 | -1,60622 | 2,25E-12 |
| ABL2 | -1,60726 | 2,92E-16 |
| WWC2 | -1,60843 | 2,19E-10 |
| FBXL12 | -1,60879 | 2,18E-06 |
| CARS | -1,60973 | 6,37E-09 |
| RDH10 | -1,61137 | 5,52E-05 |
| BACH1 | -1,61149 | 3,17E-05 |
| PLEKHM1 | -1,61211 | 3,41E-06 |
| ATP6V1D | -1,61655 | 7,58E-05 |
| AP1M1 | -1,61696 | 5,93E-08 |
| RNF216P1 | -1,62124 | 5,58E-09 |
| TMEM198 | -1,62162 | 0,000126 |
| GARS | -1,62213 | 3,77E-17 |
| PHF20L1 | -1,6239 | 1,78E-17 |
| GUK1 | -1,62612 | 1,32E-08 |
| CCNL1 | -1,62678 | 0,000327 |
| DIXDC1 | -1,62825 | 2,78E-06 |
| NCS1 | -1,62959 | 5,67E-16 |
| ATP10D | -1,62996 | 0,000614 |
| ANXA2 | -1,6311 | 1,51E-21 |
| NR6A1 | -1,6314 | 3,62E-05 |
| CKAP2L | -1,63141 | 9,66E-06 |
| QRICH2 | -1,63554 | 0,000118 |
| IER3 | -1,63589 | 2,19E-11 |
| LOC646762 | -1,63651 | 6,00E-05 |
| GPR108 | -1,63779 | 1,22E-09 |
| PFDN2 | -1,63839 | 1,14E-12 |
| FZD7 | -1,63951 | 6,47E-09 |

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| CHCHD7 | -1,64108 | 2,19E-06 |
| LINC01278 | -1,64132 | 1,12E-10 |
| PLEKHN1 | -1,64385 | 5,27E-06 |
| C19orf12 | -1,64457 | 7,40E-09 |
| ZNF440 | -1,64483 | 3,08E-05 |
| CYP2R1 | -1,64492 | 0,000374 |
| TESK1 | -1,64663 | 1,45E-10 |
| SNTB1 | -1,64725 | 5,16E-18 |
| CALR | -1,6478 | 5,24E-07 |
| ATP6V1H | -1,65031 | 2,52E-11 |
| DOCK5 | -1,65045 | 1,03E-08 |
| RASSF3 | -1,65046 | 1,83E-08 |
| FZD5 | -1,65237 | 2,75E-11 |
| ZC3H12A | -1,65244 | 1,54E-05 |
| MYDGF | -1,65289 | 2,57E-11 |
| FGF11 | -1,65361 | 0,000287 |
| CAST | -1,65442 | 1,83E-14 |
| PQLC1 | -1,65462 | 4,80E-09 |
| TBCE | -1,65603 | 4,62E-11 |
| COL18A1 | -1,65668 | 2,35E-17 |
| REXO2 | -1,65728 | 1,09E-06 |
| ATP9B | -1,65741 | 1,91E-06 |
| SIPA1L3 | -1,65749 | 5,64E-16 |
| WDR47 | -1,65762 | 2,74E-07 |
| RER1 | -1,65773 | 1,25E-16 |
| JAK3 | -1,65853 | 0,000109 |
| CNKSR3 | -1,65938 | 2,16E-08 |
| ADCY3 | -1,66074 | 1,69E-14 |
| JRKL | -1,66138 | 3,50E-05 |
| RASA2 | -1,66404 | 1,86E-05 |
| CFLAR | -1,66547 | 1,39E-13 |
| MAP2 | -1,66593 | 3,91E-05 |
| SHARPIN | -1,6676 | 8,56E-19 |
| SETD4 | -1,6683 | 0,000589 |
| ANXA5 | -1,66855 | 1,19E-22 |
| AKIP1 | -1,67022 | 2,44E-09 |
| BCL10 | -1,67106 | 1,16E-07 |
| PQBP1 | -1,67194 | 1,99E-13 |
| BTG1 | -1,67213 | 2,14E-17 |
| ALS2 | -1,67369 | 3,33E-12 |
| CELSR1 | -1,67407 | 6,64E-17 |
| MORC4 | -1,67452 | 4,38E-13 |
| INAFM2 | -1,67532 | 0,000686 |
| MARVELD1 | -1,67638 | 6,19E-13 |
| ARFGAP1 | -1,67644 | 6,80E-16 |
| ECHDC3 | -1,67655 | 3,85E-07 |
| AGPAT2 | -1,67804 | 1,11E-13 |
| ELK1 | -1,67886 | 1,25E-14 |
| LOC100133 | -1,67939 | 0,000858 |
| NIPA1 | -1,68107 | 6,08E-14 |

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| JOSD1 | -1,68133 | 1,07E-16 |
| KLC2 | -1,68159 | 1,09E-17 |
| TCF19 | -1,68183 | 1,54E-16 |
| HGSNAT | -1,68444 | 3,77E-06 |
| HSPA13 | -1,68518 | 7,93E-08 |
| PLEKHA1 | -1,68803 | 2,39E-09 |
| KLF3 | -1,68904 | 5,89E-09 |
| SETDB2 | -1,6901 | 5,14E-06 |
| NOCT | -1,69141 | 1,49E-09 |
| DONSON | -1,69409 | 2,29E-10 |
| NCK2 | -1,69494 | 3,60E-20 |
| RGS19 | -1,69888 | 1,15E-06 |
| MPRIP | -1,69954 | 2,99E-13 |
| CTNS | -1,70036 | 1,02E-12 |
| ZNHIT6 | -1,7004 | 4,21E-05 |
| PPP3CC | -1,70111 | 1,88E-06 |
| RIPK2 | -1,70276 | 3,77E-20 |
| C1GALT1 | -1,70284 | 2,15E-08 |
| FAM129B | -1,70475 | 5,00E-14 |
| CXorf38 | -1,70477 | 2,29E-08 |
| LATS2 | -1,7048 | 2,65E-12 |
| RUNX1 | -1,70678 | 5,65E-17 |
| LRRFIP1 | -1,70701 | 1,70E-19 |
| ACOT7 | -1,70714 | 6,06E-11 |
| SLC35A2 | -1,70755 | 1,98E-11 |
| SLC20A1 | -1,71007 | 4,41E-20 |
| PTPN21 | -1,7101 | 3,41E-09 |
| CASP3 | -1,7108 | 2,12E-07 |
| DPP9 | -1,71366 | 1,35E-13 |
| PLCB4 | -1,71373 | 3,02E-09 |
| SPG20 | -1,71466 | 4,14E-14 |
| PTPRG | -1,71477 | 6,96E-10 |
| SLFN5 | -1,71586 | 4,27E-08 |
| PARVB | -1,71785 | 5,92E-11 |
| ARRDC3 | -1,71881 | 9,26E-09 |
| MAGED2 | -1,71888 | 4,48E-17 |
| SZT2 | -1,7192 | 1,29E-08 |
| UXT | -1,71925 | 7,52E-09 |
| FNTA | -1,72161 | 6,13E-14 |
| TSPO | -1,72301 | 4,55E-18 |
| PGK1 | -1,72591 | 8,97E-18 |
| WASF2 | -1,72641 | 6,53E-19 |
| MTFR2 | -1,7277 | 0,000497 |
| SNAPC2 | -1,72813 | 1,90E-08 |
| GPKOW | -1,72843 | 1,00E-10 |
| FAM65A | -1,72846 | 3,18E-16 |
| TMEM178f | -1,72871 | 9,33E-09 |
| DYNLT1 | -1,72958 | 3,89E-15 |
| ST6GALNAc | -1,73059 | 2,20E-08 |
| HIVEP2 | -1,73146 | 4,60E-14 |

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| HIC1 | -1,73181 | 0,00064 |
| PPIL3 | -1,73194 | 3,17E-12 |
| WDR45 | -1,73518 | 1,20E-09 |
| SLC25A12 | -1,73615 | 1,58E-08 |
| HIPK2 | -1,73925 | 1,96E-06 |
| ABCC4 | -1,74016 | 8,97E-14 |
| FUCA1 | -1,7418 | 7,34E-08 |
| TOLLIP | -1,74287 | 2,03E-06 |
| SYNJ1 | -1,74442 | 4,68E-06 |
| ZNFX1 | -1,74458 | 7,89E-09 |
| ST3GAL3 | -1,745 | 4,70E-05 |
| SSR3 | -1,74569 | 5,80E-15 |
| OGFR | -1,74574 | 6,59E-13 |
| C19orf33 | -1,74623 | 1,08E-07 |
| PI4K2A | -1,74914 | 1,21E-10 |
| EPS8L2 | -1,75173 | 1,57E-07 |
| NFKB1 | -1,75235 | 5,22E-08 |
| NAPRT | -1,75346 | 2,45E-05 |
| FBXO17 | -1,75467 | 7,32E-07 |
| LPCAT4 | -1,75649 | 1,11E-05 |
| MBOAT2 | -1,76141 | 6,68E-10 |
| CSRP2 | -1,7618 | 1,70E-11 |
| FAIM | -1,76428 | 1,45E-09 |
| TIPARP | -1,76436 | 2,16E-10 |
| EGLN1 | -1,76457 | 1,01E-16 |
| RHOC | -1,76473 | 9,39E-10 |
| PDGFB | -1,76554 | 2,13E-08 |
| MGAT5 | -1,76665 | 3,52E-13 |
| EML2 | -1,76831 | 3,83E-08 |
| SRGAP2D | -1,76899 | 0,000671 |
| HCFC2 | -1,76916 | 0,00013 |
| SGMS2 | -1,76991 | 0,00027 |
| LENG8 | -1,7725 | 3,28E-11 |
| CD63 | -1,77527 | 7,91E-10 |
| UBE2J2 | -1,77563 | 4,46E-19 |
| CASP7 | -1,7795 | 2,61E-08 |
| PCBP4 | -1,77958 | 1,98E-12 |
| TIGD7 | -1,7798 | 0,000134 |
| ZNF563 | -1,78003 | 0,000149 |
| CASP8 | -1,78033 | 1,53E-13 |
| FAM198B | -1,78115 | 9,44E-12 |
| WDR90 | -1,78208 | 0,000261 |
| TOMM34 | -1,78225 | 7,27E-19 |
| EVI5 | -1,7829 | 6,12E-07 |
| CPTP | -1,78392 | 2,85E-12 |
| PLEKHA3 | -1,78494 | 3,69E-10 |
| AP5Z1 | -1,7854 | 1,26E-17 |
| NOD1 | -1,78695 | 1,88E-07 |
| TPP1 | -1,78809 | 4,24E-12 |
| RNF185 | -1,79014 | 4,66E-15 |

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| PDLIM5 | -1,79061 | 3,01E-09 |
| AHNAK | -1,79125 | 3,03E-12 |
| FADS3 | -1,79158 | 4,90E-13 |
| PLEKHM2 | -1,79202 | 4,44E-17 |
| FAAP20 | -1,7923 | 5,59E-15 |
| SNTA1 | -1,79302 | 4,23E-10 |
| NAPA | -1,7931 | 3,92E-08 |
| PCED1A | -1,79592 | 1,44E-10 |
| VPS13C | -1,79725 | 1,94E-08 |
| ZNF644 | -1,79795 | 2,33E-17 |
| RBMS1 | -1,79826 | 2,50E-11 |
| EPHX1 | -1,79969 | 3,66E-08 |
| SEMA6A | -1,79986 | 1,40E-08 |
| TMEM62 | -1,80214 | 4,48E-11 |
| CFL2 | -1,80732 | 2,08E-12 |
| ABHD5 | -1,80748 | 8,93E-15 |
| RALB | -1,80917 | 0,00016 |
| ETV6 | -1,80951 | 2,40E-11 |
| BACE2 | -1,81084 | 6,21E-12 |
| MYO10 | -1,81105 | 5,99E-17 |
| UBA6 | -1,81231 | 4,14E-18 |
| CHST14 | -1,81273 | 3,57E-08 |
| FJX1 | -1,81344 | 0,000284 |
| RDX | -1,81362 | 1,30E-12 |
| ITGB1BP1 | -1,81423 | 6,07E-14 |
| STK4 | -1,81477 | 2,71E-16 |
| SLC17A5 | -1,81747 | 1,88E-05 |
| SMS | -1,81943 | 5,44E-13 |
| SERTAD2 | -1,8199 | 3,29E-17 |
| KDELC1 | -1,82237 | 3,22E-07 |
| MXD1 | -1,82276 | 1,45E-07 |
| FURIN | -1,82549 | 2,43E-13 |
| KCNC4 | -1,82555 | 9,81E-05 |
| CDC42EP5 | -1,82796 | 9,15E-05 |
| PTER | -1,82803 | 5,76E-13 |
| ZFP36L1 | -1,82966 | 4,36E-13 |
| PACS1 | -1,83025 | 2,72E-17 |
| GIN5 | -1,83184 | 1,85E-07 |
| RELL2 | -1,83319 | 2,90E-08 |
| RAPGEF1 | -1,83419 | 5,61E-14 |
| ARPIN | -1,83463 | 4,27E-05 |
| F2R | -1,83678 | 4,13E-07 |
| FAM76A | -1,83679 | 2,25E-05 |
| DIAPH2 | -1,83705 | 1,58E-07 |
| AKAP17A | -1,83856 | 1,19E-08 |
| UXS1 | -1,83893 | 5,02E-21 |
| FRMD8 | -1,84284 | 4,36E-13 |
| MIR4435-2 | -1,8429 | 1,80E-09 |
| ITPRIPL2 | -1,84461 | 6,03E-15 |
| LRIG1 | -1,84567 | 4,57E-12 |

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| C4orf32 | -1,84659 | 4,53E-06 |
| GNPDA2 | -1,84909 | 0,000165 |
| ZFPL1 | -1,85215 | 6,10E-18 |
| LPIN2 | -1,8525 | 1,60E-11 |
| PJA1 | -1,85391 | 1,95E-09 |
| MT2A | -1,85427 | 4,61E-17 |
| NABP1 | -1,85435 | 7,36E-09 |
| AMPD2 | -1,85442 | 2,37E-12 |
| TTLL11 | -1,8551 | 0,000127 |
| MYO9B | -1,85745 | 3,66E-10 |
| TK2 | -1,85912 | 7,06E-06 |
| ATRNL1 | -1,86258 | 0,000136 |
| VOPP1 | -1,86417 | 2,80E-12 |
| KDM5C | -1,86476 | 2,47E-21 |
| KDEL3 | -1,86645 | 2,39E-05 |
| KLF10 | -1,86728 | 8,23E-07 |
| SDC1 | -1,86927 | 8,32E-16 |
| ADAM9 | -1,87035 | 1,54E-21 |
| UBA6-AS1 | -1,8706 | 2,04E-07 |
| ANKRD13C | -1,87261 | 1,81E-12 |
| CAPN10 | -1,87335 | 1,08E-06 |
| DGKD | -1,87388 | 6,83E-12 |
| RLTPR | -1,87482 | 1,86E-06 |
| CD58 | -1,87563 | 3,66E-08 |
| FKBP1A | -1,876 | 8,33E-16 |
| OXCT1 | -1,87621 | 4,49E-15 |
| DES1 | -1,87639 | 6,75E-22 |
| IL13RA1 | -1,87677 | 1,83E-11 |
| EIF5A2 | -1,87807 | 1,32E-13 |
| ZNF827 | -1,88352 | 2,21E-05 |
| SPRED2 | -1,88552 | 1,05E-19 |
| SLC33A1 | -1,88603 | 1,05E-15 |
| DOK3 | -1,88689 | 2,76E-06 |
| PRAF2 | -1,89002 | 2,06E-07 |
| RNF149 | -1,89314 | 1,72E-22 |
| DAPK3 | -1,89437 | 1,48E-20 |
| SIN3B | -1,89618 | 1,29E-19 |
| TNIP1 | -1,89797 | 4,67E-08 |
| SLC35F6 | -1,89902 | 1,53E-14 |
| APH1B | -1,90003 | 8,21E-06 |
| SLC8A1 | -1,90484 | 4,24E-12 |
| RP9P | -1,90533 | 1,43E-05 |
| SNX9 | -1,90686 | 8,54E-18 |
| OAT | -1,90811 | 5,25E-06 |
| SLC31A2 | -1,90955 | 0,000617 |
| MROH1 | -1,91145 | 9,95E-16 |
| SNX21 | -1,91221 | 1,57E-10 |
| AIDA | -1,91278 | 1,20E-10 |
| IFI27L1 | -1,91349 | 1,22E-06 |
| BTG3 | -1,91477 | 5,45E-05 |

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| HECTD3 | -1,91586 | 2,60E-09 |
| SLC15A4 | -1,91751 | 2,23E-15 |
| ZNF558 | -1,91764 | 2,27E-08 |
| TAPBP | -1,91969 | 9,57E-09 |
| LGALS8 | -1,92327 | 2,33E-14 |
| AAK1 | -1,92646 | 1,72E-10 |
| NFIX | -1,92728 | 3,70E-08 |
| CNTLN | -1,92801 | 1,84E-05 |
| TCEA1 | -1,9306 | 5,80E-15 |
| CHIC1 | -1,93317 | 0,00077 |
| FAM107B | -1,93339 | 2,09E-06 |
| GPR161 | -1,93359 | 7,09E-11 |
| PDIA3 | -1,93439 | 3,83E-24 |
| NBEA | -1,93757 | 3,25E-08 |
| USB1 | -1,93812 | 2,13E-08 |
| RAB8B | -1,93899 | 8,59E-07 |
| PHF11 | -1,93919 | 1,25E-09 |
| CD82 | -1,93939 | 4,25E-10 |
| FLOT1 | -1,93995 | 3,76E-18 |
| SEC61A2 | -1,94168 | 1,62E-07 |
| LIN37 | -1,94326 | 6,84E-09 |
| CMIP | -1,94447 | 5,55E-16 |
| GLI3 | -1,94459 | 2,30E-10 |
| IMPA1 | -1,94842 | 4,84E-09 |
| CORO1C | -1,95116 | 1,88E-26 |
| SEL1L3 | -1,9517 | 6,73E-13 |
| CPOX | -1,95364 | 7,84E-07 |
| DOCK9 | -1,95501 | 5,26E-15 |
| FARP1 | -1,9551 | 4,67E-18 |
| MGST3 | -1,95644 | 2,72E-10 |
| SH3GL1 | -1,95887 | 2,17E-17 |
| TEX30 | -1,95922 | 2,64E-09 |
| MFSD12 | -1,96027 | 1,12E-23 |
| PLBD2 | -1,96062 | 6,72E-10 |
| ELF4 | -1,96312 | 1,00E-10 |
| FTSJ1 | -1,96389 | 1,35E-22 |
| ANXA2P2 | -1,96402 | 0,000139 |
| NPC2 | -1,96539 | 3,07E-19 |
| PKD1 | -1,96617 | 0,000117 |
| SHISA2 | -1,96675 | 2,60E-05 |
| C1orf198 | -1,96726 | 1,18E-12 |
| CTSA | -1,97017 | 1,35E-07 |
| ECHDC1 | -1,97204 | 4,30E-11 |
| HIC2 | -1,9729 | 6,37E-07 |
| CBR3 | -1,97388 | 1,43E-05 |
| PTPRJ | -1,97421 | 3,68E-14 |
| ITM2B | -1,97478 | 7,32E-18 |
| DRAM1 | -1,97534 | 4,96E-11 |
| C12orf4 | -1,97573 | 2,07E-13 |
| CYTH3 | -1,97653 | 1,02E-15 |

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| RCAN3 | -1,97749 | 9,16E-06 |
| C15orf41 | -1,97916 | 2,30E-05 |
| PRKXP1 | -1,97963 | 0,000183 |
| CDC42EP2 | -1,98022 | 3,11E-13 |
| LEPROT | -1,98334 | 3,37E-15 |
| GCLM | -1,98645 | 2,31E-07 |
| P4HA1 | -1,98656 | 1,18E-21 |
| HOXB7 | -1,99075 | 2,18E-10 |
| XRRA1 | -1,99176 | 1,14E-10 |
| PRKACB | -1,99374 | 1,04E-13 |
| GADD45B | -1,99403 | 0,000991 |
| KCNJ14 | -1,99697 | 2,52E-05 |
| VAT1 | -1,99821 | 1,51E-10 |
| EFNB1 | -2,00207 | 7,37E-12 |
| SLC39A8 | -2,00432 | 1,18E-09 |
| EIF2AK4 | -2,00433 | 1,89E-22 |
| GRAMD1A | -2,00711 | 1,18E-26 |
| HCCS | -2,00891 | 3,55E-14 |
| ME2 | -2,00978 | 1,14E-20 |
| CHFR | -2,01176 | 2,04E-17 |
| IFNAR2 | -2,01204 | 4,66E-12 |
| USE1 | -2,01417 | 4,05E-15 |
| PAK1 | -2,01611 | 1,01E-08 |
| KIF13B | -2,01622 | 0,000208 |
| NUMBL | -2,01772 | 2,32E-19 |
| BIRC2 | -2,0197 | 6,86E-11 |
| GALE | -2,02584 | 2,79E-09 |
| CAMK1 | -2,026 | 2,16E-06 |
| SNAPC1 | -2,02644 | 2,74E-11 |
| SYVN1 | -2,02815 | 4,14E-16 |
| ZNF486 | -2,0285 | 1,66E-07 |
| MITD1 | -2,02874 | 2,11E-17 |
| GOLGA7B | -2,03181 | 0,00011 |
| PCDHGB7 | -2,03201 | 0,000221 |
| RIOK3 | -2,03215 | 1,04E-20 |
| SLC39A13 | -2,03244 | 2,17E-16 |
| PDGFA | -2,03383 | 2,24E-16 |
| SEC61G | -2,0345 | 1,76E-08 |
| TPK1 | -2,03565 | 6,54E-06 |
| IQCG | -2,03605 | 2,00E-07 |
| OSTM1 | -2,03668 | 0,000202 |
| KLF13 | -2,03732 | 4,87E-23 |
| SORBS1 | -2,03979 | 7,58E-07 |
| SLC23A2 | -2,04121 | 1,84E-19 |
| PBX3 | -2,04195 | 1,27E-13 |
| TRIB3 | -2,04319 | 7,92E-05 |
| SOCS6 | -2,04324 | 1,70E-14 |
| ADPRHL2 | -2,04332 | 2,74E-22 |
| GATA6 | -2,04367 | 2,50E-07 |
| RBMS2 | -2,0451 | 2,32E-07 |

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| SLC1A4 | -2,04931 | 2,53E-06 |
| TTC28 | -2,05017 | 1,74E-11 |
| LOC90768 | -2,05136 | 3,05E-06 |
| ASPHD1 | -2,05192 | 6,04E-08 |
| CLDN23 | -2,05309 | 1,22E-07 |
| TICAM1 | -2,05319 | 1,57E-21 |
| RALA | -2,05362 | 4,53E-28 |
| SCN8A | -2,05412 | 0,000154 |
| CASK | -2,05495 | 6,67E-23 |
| SCYL1 | -2,05591 | 1,92E-20 |
| TMEM106/ | -2,05627 | 0,000149 |
| TRIM21 | -2,05627 | 0,000503 |
| QSOX1 | -2,06057 | 2,53E-24 |
| CDK2AP2 | -2,0607 | 1,41E-26 |
| TBKBP1 | -2,0661 | 7,25E-06 |
| TCF12 | -2,06663 | 4,20E-13 |
| MID2 | -2,06767 | 3,93E-12 |
| ITGB1 | -2,0689 | 9,43E-30 |
| NCEH1 | -2,07003 | 2,69E-11 |
| TNFRSF10B | -2,07117 | 1,07E-20 |
| EFR3A | -2,07161 | 4,42E-10 |
| MT1X | -2,07215 | 1,10E-12 |
| PAM | -2,07263 | 6,23E-15 |
| DOCK1 | -2,07299 | 4,18E-16 |
| TSHZ1 | -2,07563 | 8,00E-12 |
| SH3GLB1 | -2,07579 | 3,65E-21 |
| BTN2A1 | -2,07687 | 5,19E-06 |
| ARID5A | -2,08004 | 5,68E-10 |
| FKBP14 | -2,08126 | 6,71E-11 |
| CCM2 | -2,08378 | 7,84E-18 |
| PIP4K2A | -2,0843 | 1,32E-24 |
| CHRNA1 | -2,08442 | 7,35E-06 |
| PHLDB1 | -2,08764 | 1,18E-21 |
| DENND5B | -2,08849 | 2,44E-09 |
| SRC | -2,08948 | 2,62E-20 |
| NRBP2 | -2,09174 | 8,00E-12 |
| RTN2 | -2,09344 | 1,34E-09 |
| S1PR2 | -2,09393 | 7,65E-11 |
| ELOVL2 | -2,09415 | 3,35E-10 |
| C18orf54 | -2,09502 | 9,18E-13 |
| TRAM2 | -2,09855 | 6,07E-28 |
| PANK2 | -2,10015 | 5,49E-20 |
| CAMKK1 | -2,10165 | 6,11E-09 |
| BCL3 | -2,1023 | 6,24E-12 |
| CCNJL | -2,10299 | 1,22E-06 |
| UBTD1 | -2,10332 | 5,54E-06 |
| SPTBN1 | -2,10619 | 4,63E-36 |
| MET | -2,10722 | 8,88E-32 |
| SH3D21 | -2,11202 | 1,12E-05 |
| MIB2 | -2,11273 | 3,79E-14 |

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| ZNF605 | -2,11342 | 2,92E-06 |
| SH2D4A | -2,11343 | 6,66E-19 |
| ATP6V1B2 | -2,11453 | 1,24E-24 |
| PPP1R13L | -2,11526 | 8,40E-13 |
| PGM3 | -2,11552 | 1,39E-12 |
| SCCPDH | -2,1175 | 2,27E-14 |
| XKR8 | -2,11988 | 6,92E-09 |
| E2F7 | -2,12008 | 1,18E-14 |
| PKD2 | -2,12418 | 4,45E-14 |
| TTL | -2,12949 | 3,07E-22 |
| HPCAL1 | -2,13004 | 1,27E-23 |
| PLK2 | -2,13132 | 1,26E-08 |
| ACTR3 | -2,13342 | 4,05E-18 |
| MOB3A | -2,1353 | 1,04E-20 |
| ZNF512 | -2,1371 | 5,60E-17 |
| CAMK1D | -2,13738 | 3,59E-11 |
| EHBP1L1 | -2,14082 | 4,83E-08 |
| HOOK3 | -2,14357 | 3,98E-14 |
| KCTD12 | -2,14408 | 8,26E-07 |
| GPAT3 | -2,14464 | 3,55E-05 |
| ZAK | -2,14513 | 1,88E-27 |
| LINC00869 | -2,14517 | 0,000321 |
| NXPE3 | -2,14568 | 0,000133 |
| SBDS | -2,14574 | 1,57E-27 |
| CDV3 | -2,14708 | 1,73E-20 |
| SHANK3 | -2,14748 | 1,02E-09 |
| DTX3L | -2,14876 | 1,97E-09 |
| STOML1 | -2,14889 | 1,44E-07 |
| LRRC61 | -2,15028 | 3,41E-13 |
| HTRA1 | -2,15139 | 1,17E-21 |
| RCBTB2 | -2,15302 | 4,23E-08 |
| RPL13P5 | -2,1577 | 0,000837 |
| CLCN6 | -2,15776 | 3,04E-05 |
| UROD | -2,15848 | 7,38E-19 |
| SDCBP | -2,15925 | 4,62E-11 |
| CAMK2N1 | -2,1595 | 2,81E-08 |
| CPNE2 | -2,16049 | 5,59E-08 |
| MAP1LC3B | -2,16269 | 1,19E-26 |
| SLC39A14 | -2,16575 | 2,47E-08 |
| KRBOX4 | -2,17068 | 5,68E-10 |
| KLHL15 | -2,17126 | 4,96E-09 |
| HSD17B12 | -2,1723 | 1,90E-21 |
| GNG12 | -2,17266 | 8,13E-21 |
| HSPB11 | -2,17338 | 5,11E-12 |
| FGD1 | -2,17456 | 8,39E-22 |
| RRAS2 | -2,17535 | 4,64E-15 |
| ANO10 | -2,17604 | 3,83E-10 |
| CSTB | -2,17751 | 1,79E-20 |
| GPATCH11 | -2,17758 | 7,66E-13 |
| CITED2 | -2,17824 | 2,16E-14 |

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| ZNF319 | -2,18059 | 2,37E-05 |
| BRI3 | -2,18163 | 1,82E-33 |
| PFKFB4 | -2,18266 | 2,79E-06 |
| CCDC109B | -2,19228 | 1,45E-15 |
| MAPKBP1 | -2,19234 | 5,57E-10 |
| TGFB1 | -2,19359 | 3,17E-21 |
| DOPEY2 | -2,19482 | 8,97E-32 |
| IKBIP | -2,20227 | 1,66E-06 |
| BIVM | -2,20253 | 2,31E-05 |
| STPG1 | -2,20408 | 1,56E-09 |
| SH3BGRL3 | -2,20544 | 4,93E-09 |
| SLC16A9 | -2,20547 | 6,32E-11 |
| GLDC | -2,20736 | 7,17E-05 |
| STARD3NL | -2,20767 | 1,87E-11 |
| CDON | -2,20948 | 2,99E-05 |
| ASAP1 | -2,21095 | 4,57E-31 |
| HSF4 | -2,2131 | 2,55E-09 |
| TSPAN9 | -2,2167 | 5,66E-07 |
| FAHD2B | -2,21722 | 4,75E-05 |
| MKNK2 | -2,21836 | 3,07E-24 |
| SYNJ2 | -2,21904 | 4,72E-23 |
| CASP9 | -2,22023 | 4,93E-07 |
| FCRLB | -2,22527 | 0,000418 |
| HERC3 | -2,22542 | 0,000146 |
| MEIS1 | -2,22709 | 0,000644 |
| TNS3 | -2,22807 | 5,68E-11 |
| PRKAA2 | -2,23176 | 4,45E-16 |
| BNIP3 | -2,23653 | 1,52E-30 |
| TUBB6 | -2,23705 | 3,46E-21 |
| LRRC37B | -2,23843 | 1,29E-07 |
| STK17A | -2,23896 | 9,72E-22 |
| DDA1 | -2,23903 | 4,74E-24 |
| ITPR1 | -2,23918 | 4,33E-12 |
| FOXC1 | -2,2395 | 1,62E-19 |
| PDLIM7 | -2,2425 | 5,09E-23 |
| EPHB2 | -2,24268 | 3,47E-25 |
| CCDC150 | -2,24296 | 8,69E-10 |
| SHOX2 | -2,24343 | 8,68E-07 |
| ARSA | -2,24366 | 3,52E-06 |
| RAB9A | -2,24394 | 5,93E-20 |
| ZNF296 | -2,24439 | 2,86E-22 |
| HS3ST3B1 | -2,24679 | 2,74E-09 |
| SLC30A7 | -2,24943 | 2,37E-12 |
| RGS14 | -2,25129 | 1,87E-19 |
| SHROOM1 | -2,25194 | 6,14E-16 |
| GSDMD | -2,2544 | 7,85E-06 |
| APBA3 | -2,25612 | 2,06E-18 |
| LOC100415 | -2,25625 | 2,63E-12 |
| ADCY7 | -2,25728 | 1,19E-18 |
| GDPD5 | -2,25951 | 0,000601 |

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| TSHZ3 | -2,26171 | 0,000115 |
| QPCTL | -2,26199 | 3,15E-14 |
| SHISA4 | -2,26763 | 0,000315 |
| C2orf74 | -2,27215 | 5,87E-10 |
| ZDHHHC14 | -2,27469 | 4,40E-10 |
| C20orf194 | -2,27605 | 1,44E-11 |
| FAM50A | -2,27732 | 1,79E-36 |
| BEND7 | -2,27891 | 1,48E-08 |
| CUEDC1 | -2,28575 | 6,05E-21 |
| MAP3K10 | -2,28578 | 2,79E-18 |
| CCDC15 | -2,28821 | 3,86E-06 |
| GPR180 | -2,29362 | 8,31E-18 |
| SP110 | -2,2959 | 0,000521 |
| FLNA | -2,29967 | 3,05E-28 |
| PAQR5 | -2,30009 | 2,10E-16 |
| NEDD4L | -2,30019 | 4,25E-17 |
| IRF9 | -2,30158 | 1,18E-08 |
| RASSF2 | -2,30248 | 8,86E-08 |
| OTUB2 | -2,30309 | 3,96E-05 |
| MAPK12 | -2,30866 | 3,03E-12 |
| PRKD1 | -2,30993 | 6,52E-05 |
| SMYD3 | -2,31113 | 2,18E-11 |
| SNX8 | -2,31183 | 4,41E-19 |
| TNIK | -2,31325 | 3,65E-13 |
| GALNT10 | -2,31694 | 1,74E-29 |
| CHST10 | -2,32097 | 4,62E-09 |
| TMEM51 | -2,32369 | 1,33E-22 |
| PRPS2 | -2,32449 | 1,51E-21 |
| PDLIM1 | -2,33302 | 3,71E-35 |
| STK39 | -2,33427 | 1,38E-10 |
| TRIM46 | -2,33478 | 5,95E-05 |
| SMPD1 | -2,33573 | 7,96E-06 |
| CYB5R3 | -2,3363 | 4,16E-19 |
| MYO1B | -2,33763 | 5,19E-41 |
| MUS81 | -2,33787 | 1,63E-09 |
| ZC2HC1A | -2,34182 | 4,78E-08 |
| STEAP3 | -2,34245 | 1,93E-16 |
| TNFRSF11A | -2,34303 | 5,19E-09 |
| FOXO3 | -2,34496 | 1,82E-12 |
| TP53BP2 | -2,3465 | 6,49E-22 |
| ZNF266 | -2,34695 | 3,50E-15 |
| FAF1 | -2,34826 | 2,14E-11 |
| KIAA0930 | -2,34827 | 3,23E-16 |
| IL20RB | -2,35011 | 1,08E-05 |
| HECTD2 | -2,35201 | 1,73E-09 |
| FAM13A | -2,35207 | 0,000155 |
| NIPAL3 | -2,35329 | 7,63E-09 |
| SPEG | -2,35655 | 1,12E-06 |
| EFNA5 | -2,36004 | 8,75E-16 |
| KIF5A | -2,36095 | 0,000445 |

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| DNMBP | -2,36798 | 7,23E-13 |
| TRIB2 | -2,37042 | 3,25E-09 |
| MAPRE3 | -2,37115 | 5,20E-08 |
| IPO13 | -2,37322 | 1,93E-13 |
| EML5 | -2,37998 | 0,000703 |
| CHM | -2,38102 | 2,48E-07 |
| NFKBIE | -2,38391 | 8,90E-20 |
| PDE4A | -2,38561 | 9,23E-17 |
| MICALL1 | -2,38861 | 1,38E-30 |
| TBC1D25 | -2,38992 | 3,62E-10 |
| VEGFB | -2,39201 | 1,96E-16 |
| GPNMB | -2,39214 | 2,80E-14 |
| MIR22HG | -2,39514 | 7,90E-08 |
| ZNF462 | -2,39642 | 9,46E-16 |
| ACTN1 | -2,39804 | 1,65E-20 |
| ADM2 | -2,39961 | 7,34E-06 |
| SLC25A16 | -2,40006 | 7,30E-12 |
| FMN1 | -2,40089 | 3,21E-06 |
| PRTFDC1 | -2,40165 | 4,35E-10 |
| GNG5 | -2,40343 | 1,94E-40 |
| STIM1 | -2,40409 | 6,73E-27 |
| BEX4 | -2,40541 | 4,26E-10 |
| MEGF6 | -2,40612 | 7,59E-10 |
| SH3KBP1 | -2,40949 | 5,13E-14 |
| LOC100506 | -2,40963 | 0,000685 |
| PLK3 | -2,41061 | 8,63E-09 |
| ARNTL | -2,41204 | 8,36E-08 |
| DDAH1 | -2,41281 | 1,29E-11 |
| PELI1 | -2,41346 | 4,19E-06 |
| DUSP7 | -2,41627 | 1,66E-08 |
| CARD10 | -2,42015 | 8,25E-12 |
| C3orf67 | -2,42287 | 7,77E-06 |
| SLC4A3 | -2,42498 | 3,50E-12 |
| HECW2 | -2,4291 | 1,26E-22 |
| LACC1 | -2,43127 | 5,79E-08 |
| GLIS2 | -2,43292 | 2,59E-28 |
| CCDC88B | -2,43307 | 0,000116 |
| ETHE1 | -2,43322 | 6,49E-16 |
| RAI14 | -2,43596 | 2,56E-21 |
| SMARCD3 | -2,43745 | 2,96E-12 |
| SLC25A22 | -2,43835 | 5,73E-32 |
| DENND5A | -2,43887 | 1,71E-15 |
| FSCN1 | -2,43912 | 5,90E-32 |
| SEMA4B | -2,4418 | 1,35E-29 |
| LOC100130 | -2,44296 | 7,40E-06 |
| TMCC1-AS1 | -2,44358 | 5,89E-05 |
| FAM57A | -2,44454 | 8,09E-18 |
| C11orf68 | -2,44794 | 7,52E-31 |
| KLF12 | -2,4482 | 3,03E-12 |
| CCDC93 | -2,44859 | 2,72E-25 |

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| MAPK8IP3 | -2,45092 | 3,45E-06 |
| NAB1 | -2,4575 | 8,29E-14 |
| ANKRD13A | -2,46023 | 1,98E-11 |
| DPY19L2P1 | -2,46046 | 0,000122 |
| ARMCX1 | -2,4627 | 3,63E-06 |
| SRGAP1 | -2,4644 | 1,60E-14 |
| APP | -2,46509 | 2,21E-48 |
| CHST15 | -2,46834 | 4,00E-30 |
| KLHL21 | -2,47145 | 4,03E-32 |
| FERMT2 | -2,47289 | 9,53E-30 |
| TENM4 | -2,47373 | 4,04E-09 |
| PQLC2 | -2,47717 | 1,82E-18 |
| SERINC2 | -2,4824 | 6,94E-13 |
| SDC2 | -2,48263 | 2,92E-22 |
| WSCD1 | -2,48619 | 4,25E-15 |
| EHD4 | -2,48952 | 1,99E-27 |
| SIRT2 | -2,49063 | 2,31E-15 |
| LRRC8E | -2,4919 | 3,25E-19 |
| TPST2 | -2,49713 | 3,94E-14 |
| UNC13A | -2,50031 | 0,000545 |
| CAP1 | -2,50033 | 1,05E-26 |
| CHST11 | -2,50162 | 6,60E-18 |
| CXCR4 | -2,50355 | 1,58E-15 |
| WWTR1 | -2,5054 | 3,24E-39 |
| MYH9 | -2,50774 | 7,58E-26 |
| IFI27L2 | -2,51135 | 0,000244 |
| CCDC18 | -2,51569 | 2,61E-08 |
| SUSD6 | -2,51809 | 2,15E-17 |
| CAPRIN2 | -2,51882 | 7,32E-17 |
| KLF6 | -2,52358 | 1,44E-07 |
| CLIP2 | -2,52888 | 2,50E-27 |
| LHFPL2 | -2,53131 | 3,77E-29 |
| CSRNP1 | -2,53316 | 8,53E-17 |
| RBCK1 | -2,53409 | 4,96E-47 |
| INSIG2 | -2,53468 | 1,37E-12 |
| GANC | -2,53785 | 1,97E-12 |
| STK17B | -2,54061 | 4,92E-17 |
| SWAP70 | -2,54358 | 2,59E-24 |
| FAH | -2,54714 | 4,86E-31 |
| WDR66 | -2,54979 | 2,87E-05 |
| HDAC4 | -2,55449 | 0,000105 |
| PLEC | -2,55463 | 1,10E-09 |
| GALNT14 | -2,55758 | 2,17E-36 |
| GALNT2 | -2,55775 | 5,62E-28 |
| GALNT18 | -2,56064 | 5,97E-21 |
| GPC1 | -2,56575 | 7,56E-20 |
| STXBP1 | -2,56668 | 1,25E-28 |
| GPR157 | -2,57136 | 4,87E-05 |
| PML | -2,57494 | 8,57E-10 |
| IFNLR1 | -2,57532 | 1,14E-10 |

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| KLHL5 | -2,57565 | 3,55E-27 |
| MED8 | -2,57625 | 1,07E-29 |
| ZBED6CL | -2,58468 | 1,96E-14 |
| MAMLD1 | -2,58716 | 4,36E-09 |
| DOCK10 | -2,58738 | 5,28E-07 |
| PITPNM2 | -2,59049 | 5,22E-16 |
| VASP | -2,59498 | 2,62E-42 |
| LRP1 | -2,59809 | 4,20E-06 |
| DRAP1 | -2,59829 | 4,11E-38 |
| ERAP1 | -2,60139 | 9,15E-30 |
| KAZN | -2,60151 | 2,44E-20 |
| PRSS53 | -2,61254 | 1,01E-08 |
| CAMK2D | -2,61362 | 4,15E-21 |
| RAB31 | -2,61597 | 9,22E-10 |
| TNS1 | -2,61812 | 1,14E-12 |
| PDP1 | -2,61875 | 3,39E-30 |
| SLC22A4 | -2,61976 | 4,37E-07 |
| ATP2B4 | -2,61986 | 5,85E-14 |
| TMEM44 | -2,62214 | 1,50E-15 |
| PAQR3 | -2,62623 | 7,82E-24 |
| HOMER3 | -2,62736 | 4,08E-43 |
| TMEM86B | -2,62816 | 8,39E-09 |
| TRAF5 | -2,63019 | 1,18E-15 |
| TPM4 | -2,63072 | 8,80E-58 |
| SCMH1 | -2,63218 | 1,85E-08 |
| NTN1 | -2,63289 | 2,50E-13 |
| FAM114A1 | -2,63331 | 2,92E-09 |
| MAP7D1 | -2,63337 | 6,22E-26 |
| FOLR1 | -2,6386 | 1,46E-05 |
| FGF18 | -2,63972 | 1,19E-06 |
| PLOD1 | -2,65961 | 3,26E-29 |
| SPAG4 | -2,66077 | 4,55E-08 |
| SPTBN4 | -2,66094 | 2,22E-07 |
| SYBU | -2,66483 | 2,85E-11 |
| LBX2-AS1 | -2,66602 | 1,88E-05 |
| COLGALT1 | -2,66764 | 1,96E-52 |
| RBPMS | -2,67241 | 4,17E-40 |
| CKAP4 | -2,67605 | 5,13E-44 |
| TAP2 | -2,67853 | 2,31E-21 |
| MALT1 | -2,68128 | 6,15E-40 |
| PTGER4 | -2,68872 | 2,26E-06 |
| PMEPA1 | -2,68978 | 1,64E-31 |
| TMX3 | -2,69207 | 1,16E-23 |
| RTTN | -2,69378 | 1,59E-13 |
| TREX1 | -2,69503 | 4,28E-11 |
| LIMA1 | -2,69699 | 3,77E-13 |
| VCL | -2,69864 | 3,08E-16 |
| ST5 | -2,69901 | 2,03E-12 |
| PALLD | -2,70032 | 4,51E-21 |
| ABHD6 | -2,70045 | 8,80E-11 |

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| SLC41A2 | -2,7039 | 1,21E-16 |
| TGFBR2 | -2,70499 | 1,33E-16 |
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| ZIC5 | -2,7054 | 0,000361 |
| BTBD11 | -2,70651 | 8,07E-12 |
| DDX58 | -2,70727 | 7,60E-07 |
| CDR2L | -2,7076 | 5,90E-16 |
| PEA15 | -2,70937 | 3,70E-33 |
| AMIGO3 | -2,71419 | 6,65E-17 |
| RTCA | -2,71518 | 4,41E-38 |
| BOLA3-AS1 | -2,71676 | 1,44E-06 |
| HTATSF1P2 | -2,71999 | 8,60E-07 |
| IFNGR2 | -2,73052 | 2,82E-19 |
| AK4 | -2,73263 | 9,03E-42 |
| LRP4 | -2,73281 | 4,90E-12 |
| CTSB | -2,7355 | 1,31E-17 |
| IFFO2 | -2,73621 | 1,82E-25 |
| BMP1 | -2,73821 | 3,26E-33 |
| SMAD3 | -2,73841 | 7,13E-17 |
| LINC01128 | -2,73896 | 1,94E-13 |
| NKX3-1 | -2,74438 | 2,29E-11 |
| COTL1 | -2,74916 | 9,08E-38 |
| ACSL4 | -2,74925 | 4,98E-23 |
| PLP2 | -2,75094 | 5,20E-44 |
| MATN2 | -2,75513 | 1,33E-31 |
| ISM1 | -2,75863 | 5,19E-10 |
| ALDH3B1 | -2,7593 | 9,87E-06 |
| AMIGO2 | -2,76059 | 9,03E-25 |
| CDK14 | -2,76096 | 6,42E-10 |
| INHBB | -2,76422 | 6,45E-24 |
| PRKCE | -2,76736 | 1,59E-07 |
| FNDC3B | -2,7679 | 5,24E-47 |
| LOC171391 | -2,76794 | 8,94E-05 |
| ANKMY2 | -2,76851 | 3,33E-24 |
| RAB3B | -2,77158 | 1,23E-12 |
| LDHA | -2,7985 | 1,40E-54 |
| LRRC6 | -2,79877 | 2,38E-05 |
| LMF2 | -2,79974 | 2,32E-31 |
| HSPG2 | -2,81322 | 4,06E-28 |
| GUCY1B3 | -2,8134 | 2,33E-10 |
| SOAT1 | -2,81369 | 1,62E-28 |
| IL6ST | -2,8188 | 6,51E-26 |
| EVA1B | -2,82872 | 2,93E-09 |
| PTGR1 | -2,82996 | 1,21E-12 |
| VLDLR | -2,83332 | 3,65E-07 |
| PRDM11 | -2,83432 | 9,61E-10 |
| RP2 | -2,83448 | 1,09E-12 |
| FYN | -2,83681 | 3,86E-12 |
| OSMR | -2,8371 | 1,17E-14 |
| CD59 | -2,83893 | 2,03E-15 |

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| FAM129A | -2,83946 | 5,00E-07 |
| PDGFC | -2,84193 | 1,54E-07 |
| SGPP2 | -2,84448 | 9,16E-11 |
| SGTB | -2,84631 | 6,10E-18 |
| GBX2 | -2,84935 | 0,000335 |
| PITPNM1 | -2,85052 | 1,34E-23 |
| SH3TC1 | -2,85303 | 2,16E-13 |
| CACNA2D3 | -2,85416 | 0,00019 |
| DPY19L2P2 | -2,85453 | 0,000412 |
| ARL9 | -2,85706 | 4,05E-05 |
| CXCL12 | -2,85954 | 3,75E-24 |
| PLA2G4C | -2,86306 | 0,000903 |
| GPR68 | -2,86745 | 3,51E-12 |
| SH3BGRL | -2,86787 | 2,76E-17 |
| RPS6KA2 | -2,86861 | 5,87E-19 |
| CD27-AS1 | -2,87064 | 0,000601 |
| COL23A1 | -2,87293 | 0,000117 |
| C16orf62 | -2,87389 | 1,54E-21 |
| SLC8B1 | -2,87433 | 2,27E-20 |
| CARS2 | -2,87832 | 1,33E-45 |
| MCOLN1 | -2,88047 | 7,01E-26 |
| HNRNPU-A | -2,88309 | 2,59E-07 |
| C9orf72 | -2,88311 | 0,000981 |
| ABTB2 | -2,88496 | 6,41E-36 |
| PPAP2B | -2,88509 | 3,28E-14 |
| ZNF155 | -2,88994 | 1,96E-08 |
| SASH1 | -2,89258 | 2,46E-09 |
| LINC01116 | -2,89575 | 3,97E-21 |
| FUT4 | -2,89591 | 4,17E-12 |
| SDC4 | -2,89702 | 4,73E-24 |
| NUPL2 | -2,89781 | 7,30E-10 |
| SNHG15 | -2,89983 | 4,77E-07 |
| LAMA3 | -2,90023 | 4,08E-28 |
| LDLRAD4 | -2,90699 | 0,001006 |
| CYLD | -2,90948 | 2,08E-07 |
| ALDH1A3 | -2,91122 | 3,09E-05 |
| FSTL3 | -2,91175 | 2,23E-15 |
| ACO1 | -2,9146 | 1,07E-16 |
| RRAGC | -2,92488 | 6,31E-36 |
| FAM89A | -2,93067 | 4,57E-07 |
| SPAG1 | -2,93209 | 9,19E-13 |
| ZNF774 | -2,9341 | 6,90E-05 |
| BICD1 | -2,94013 | 7,29E-29 |
| PPP1R18 | -2,94463 | 4,25E-35 |
| FHL3 | -2,94484 | 3,37E-35 |
| GOLM1 | -2,94561 | 1,61E-49 |
| IFITM3 | -2,95377 | 1,07E-13 |
| THEMIS2 | -2,9549 | 2,16E-06 |
| KLF8 | -2,95922 | 1,66E-08 |
| APBA1 | -2,9664 | 8,05E-14 |

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| MICB | -2,97034 | 2,32E-14 |
| ADGRE5 | -2,97274 | 5,12E-16 |
| LOC730102 | -2,9745 | 5,78E-05 |
| SLC2A1 | -2,9753 | 3,27E-19 |
| ERRFI1 | -2,97756 | 3,28E-18 |
| DNM1 | -2,98098 | 1,68E-31 |
| GATA2 | -2,98746 | 3,13E-24 |
| FAM126A | -2,98995 | 6,33E-24 |
| DYRK3 | -2,9955 | 4,55E-30 |
| LOC100507 | -2,99731 | 0,000176 |
| SLC37A2 | -3,00083 | 1,40E-05 |
| RIMS2 | -3,00285 | 1,50E-09 |
| DCLK2 | -3,00513 | 3,76E-08 |
| ALS2CL | -3,00845 | 1,24E-11 |
| ARFGAP3 | -3,01659 | 5,66E-35 |
| PLXNC1 | -3,02377 | 0,000571 |
| PPARG | -3,02461 | 6,49E-14 |
| CTSL | -3,03016 | 1,45E-18 |
| PFKP | -3,03103 | 2,08E-29 |
| OGFRL1 | -3,03242 | 1,71E-32 |
| LYPD1 | -3,03531 | 8,04E-20 |
| FILIP1L | -3,03838 | 2,50E-09 |
| RNF207 | -3,03928 | 1,44E-10 |
| NES | -3,04004 | 4,36E-37 |
| DSE | -3,04032 | 1,29E-17 |
| BHLHE40 | -3,0436 | 1,69E-41 |
| SH3PXD2B | -3,04375 | 1,20E-42 |
| SORBS3 | -3,04524 | 1,58E-55 |
| ICAM5 | -3,04841 | 8,88E-07 |
| CYSTM1 | -3,0531 | 2,68E-54 |
| RAET1K | -3,05491 | 0,000242 |
| FUT11 | -3,05731 | 5,85E-25 |
| KCNS3 | -3,05809 | 1,57E-10 |
| TCF7 | -3,05815 | 7,96E-28 |
| ADCY9 | -3,06389 | 8,70E-21 |
| MTSS1 | -3,06804 | 3,64E-07 |
| CCNYL1 | -3,06988 | 1,04E-24 |
| ZNF697 | -3,07069 | 4,91E-24 |
| PORCN | -3,07213 | 2,22E-15 |
| LINC00623 | -3,07267 | 4,29E-16 |
| HOXA4 | -3,07521 | 9,14E-11 |
| RIN3 | -3,07673 | 1,28E-15 |
| PXDN | -3,07753 | 1,20E-31 |
| NXN | -3,081 | 1,09E-39 |
| LPCAT2 | -3,08471 | 5,16E-16 |
| DCBLD2 | -3,08525 | 1,20E-26 |
| MCC | -3,09118 | 1,20E-20 |
| TPST1 | -3,09191 | 1,08E-18 |
| RENBP | -3,09281 | 5,98E-10 |
| GPR39 | -3,09634 | 2,21E-10 |

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| TAP1 | -3,09844 | 1,85E-11 |
| CDK6 | -3,10065 | 5,45E-09 |
| POU3F3 | -3,10152 | 6,51E-14 |
| ZMYM6NB | -3,10208 | 1,16E-13 |
| ELL2 | -3,10239 | 3,94E-22 |
| OTUD1 | -3,10392 | 9,49E-15 |
| ARNTL2 | -3,10904 | 2,60E-22 |
| MB21D1 | -3,11018 | 6,99E-19 |
| PDK1 | -3,11392 | 1,19E-17 |
| ULBP3 | -3,11737 | 0,000136 |
| HOXC4 | -3,11782 | 2,16E-09 |
| MXRA7 | -3,12052 | 4,92E-22 |
| HES4 | -3,12361 | 1,60E-33 |
| CA12 | -3,12425 | 4,26E-09 |
| CEP112 | -3,1272 | 1,91E-11 |
| NFIL3 | -3,1274 | 1,24E-09 |
| ALOXE3 | -3,12784 | 2,28E-12 |
| TRPM2 | -3,13351 | 7,48E-36 |
| OCIAD2 | -3,1338 | 4,69E-40 |
| ARHGAP26 | -3,13426 | 4,05E-10 |
| MARCKS | -3,13469 | 8,96E-26 |
| TMEM163 | -3,1535 | 2,45E-17 |
| GPRC5B | -3,155 | 3,74E-12 |
| JAK1 | -3,15504 | 7,04E-43 |
| HACD1 | -3,15536 | 8,87E-23 |
| TSPAN10 | -3,157 | 0,000312 |
| LIMS1 | -3,15856 | 1,79E-46 |
| CCDC82 | -3,16242 | 6,83E-12 |
| SPRY2 | -3,16755 | 4,72E-14 |
| FOSL2 | -3,17175 | 4,65E-40 |
| WWC3 | -3,1748 | 2,27E-52 |
| NAGS | -3,17595 | 0,000471 |
| PHLDA2 | -3,1786 | 3,35E-11 |
| TSPAN4 | -3,18118 | 1,75E-21 |
| HLA-F-AS1 | -3,18152 | 0,000182 |
| TFEB | -3,18288 | 2,84E-10 |
| SNAI1 | -3,18378 | 1,07E-11 |
| DYNLT3 | -3,18473 | 2,34E-13 |
| C12orf75 | -3,18614 | 1,28E-51 |
| PFKFB3 | -3,18918 | 1,04E-19 |
| FABP5 | -3,19366 | 1,29E-60 |
| TRIM7 | -3,19383 | 2,98E-10 |
| SPNS2 | -3,19536 | 6,74E-16 |
| PVR | -3,19907 | 1,74E-18 |
| AP1S2 | -3,20064 | 1,08E-27 |
| ZCCHC24 | -3,2011 | 4,24E-12 |
| PMAIP1 | -3,20118 | 4,48E-19 |
| EHD3 | -3,20378 | 6,40E-22 |
| HNMT | -3,20448 | 1,64E-08 |
| PAOX | -3,21252 | 1,42E-10 |

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| LOC101927 | -3,21283 | 1,41E-09 |
| HSD17B14 | -3,21335 | 2,23E-23 |
| KLF7 | -3,2245 | 1,22E-40 |
| A4GALT | -3,22462 | 1,62E-08 |
| WHAMMP | -3,22512 | 5,80E-06 |
| CDKL1 | -3,22719 | 2,37E-15 |
| HERC6 | -3,22915 | 1,43E-07 |
| MACROD2 | -3,23321 | 8,42E-13 |
| ANXA3 | -3,24017 | 1,92E-20 |
| TBC1D2 | -3,25323 | 5,49E-13 |
| ADPRH | -3,25871 | 1,37E-10 |
| ZYX | -3,25978 | 2,68E-42 |
| LRP12 | -3,26014 | 3,64E-60 |
| STARD8 | -3,27107 | 1,67E-11 |
| LETM2 | -3,27344 | 2,44E-07 |
| PPP2R5B | -3,27996 | 1,20E-33 |
| TMEM249 | -3,28346 | 0,000376 |
| FMNL1 | -3,28494 | 3,19E-40 |
| MT1F | -3,28807 | 1,82E-16 |
| CRIM1 | -3,28814 | 6,51E-26 |
| SCN1B | -3,29344 | 4,42E-07 |
| OSBPL6 | -3,29354 | 1,36E-09 |
| BARX2 | -3,2999 | 6,36E-06 |
| TRIM6 | -3,30621 | 0,000896 |
| ZNF441 | -3,30683 | 4,44E-07 |
| SEC14L1P1 | -3,30812 | 0,000643 |
| LGALS1 | -3,31619 | 3,36E-26 |
| RIPK4 | -3,31676 | 9,88E-46 |
| SEC14L2 | -3,32418 | 1,01E-13 |
| P3H2 | -3,32586 | 2,28E-46 |
| EFNB2 | -3,34394 | 5,38E-42 |
| ITPRIP | -3,34405 | 9,29E-14 |
| RCAN1 | -3,34755 | 4,36E-24 |
| IFIH1 | -3,34899 | 1,04E-09 |
| SLCO3A1 | -3,35273 | 3,54E-36 |
| THBD | -3,3541 | 8,60E-26 |
| C3orf18 | -3,35629 | 0,000102 |
| NFKBID | -3,35689 | 4,04E-07 |
| FOXD1 | -3,35914 | 1,35E-07 |
| ELK3 | -3,35989 | 7,86E-18 |
| ZBTB47 | -3,37594 | 3,17E-07 |
| STAT1 | -3,37675 | 1,68E-19 |
| IRF5 | -3,37919 | 2,62E-19 |
| PTPN14 | -3,37921 | 2,68E-58 |
| CHST7 | -3,38078 | 4,06E-12 |
| GADD45A | -3,38153 | 5,46E-42 |
| KIAA0226L | -3,38266 | 0,000239 |
| TMEM55A | -3,38482 | 5,80E-37 |
| SMARCA1 | -3,38546 | 9,77E-16 |
| ISG20 | -3,38888 | 2,35E-16 |

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| DAGLA | -3,39193 | 2,89E-22 |
| TLN2 | -3,39251 | 7,44E-29 |
| APOBEC3B | -3,39403 | 5,16E-35 |
| ZBTB38 | -3,39482 | 2,68E-48 |
| PARVA | -3,39582 | 1,53E-40 |
| DLX2 | -3,39792 | 4,23E-33 |
| GLB1L | -3,40119 | 1,16E-16 |
| VSTM2L | -3,40295 | 4,75E-15 |
| CILP2 | -3,40355 | 3,27E-13 |
| PLOD2 | -3,40504 | 3,88E-58 |
| CTH | -3,40521 | 1,91E-17 |
| PPP1R3B | -3,40536 | 2,05E-53 |
| TMEM133 | -3,40601 | 0,000752 |
| MOCOS | -3,40741 | 2,35E-19 |
| IGF2BP2 | -3,40791 | 5,64E-40 |
| SPATS2L | -3,41126 | 2,26E-56 |
| ENPEP | -3,41377 | 2,12E-28 |
| IFI35 | -3,41587 | 6,67E-13 |
| ELFN2 | -3,41657 | 2,64E-08 |
| GPC4 | -3,41688 | 1,05E-44 |
| HOXC8 | -3,42685 | 0,000539 |
| IRS2 | -3,43127 | 4,60E-20 |
| TMEM56 | -3,43551 | 6,67E-20 |
| RNASET2 | -3,44018 | 5,18E-41 |
| FNIP2 | -3,44692 | 1,73E-10 |
| EBF4 | -3,45019 | 0,000268 |
| LTBP2 | -3,45045 | 4,92E-16 |
| BDKRB2 | -3,45169 | 0,000702 |
| TTN-AS1 | -3,45209 | 3,20E-17 |
| CD44 | -3,45936 | 9,96E-59 |
| FRMD3 | -3,46712 | 3,20E-10 |
| POU6F1 | -3,46787 | 8,78E-14 |
| FRMPD3 | -3,4727 | 1,21E-06 |
| GLS | -3,47524 | 2,80E-43 |
| GBP2 | -3,47648 | 7,45E-05 |
| CCDC106 | -3,48118 | 1,28E-08 |
| TUBB2B | -3,48203 | 1,85E-19 |
| KCNIP3 | -3,48209 | 3,14E-44 |
| SLFN11 | -3,48717 | 1,43E-21 |
| CCDC88A | -3,48851 | 2,85E-38 |
| SIX2 | -3,49488 | 3,36E-10 |
| STRIP2 | -3,49565 | 2,03E-18 |
| MFSD1 | -3,50692 | 4,79E-33 |
| TGFA | -3,51301 | 4,45E-21 |
| HOTAIRM1 | -3,51703 | 1,12E-06 |
| SLC2A6 | -3,51966 | 5,53E-12 |
| NAV1 | -3,52044 | 6,38E-16 |
| GOLGA8B | -3,52476 | 5,54E-08 |
| IL1R2 | -3,5267 | 1,50E-06 |
| PLXNA2 | -3,52881 | 1,37E-07 |

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| SOX7 | -3,53517 | 5,85E-05 |
| NFKBIZ | -3,54171 | 1,01E-17 |
| EGLN3 | -3,54247 | 7,74E-35 |
| PHYH | -3,54669 | 6,56E-34 |
| NFKB2 | -3,54892 | 3,15E-48 |
| MIRLET7B+ | -3,55038 | 5,53E-07 |
| TMEM217 | -3,55466 | 2,78E-09 |
| STAMBPL1 | -3,55602 | 1,60E-09 |
| IL1RAP | -3,55696 | 1,55E-12 |
| DEGS1 | -3,55929 | 5,69E-37 |
| ZNF513 | -3,55999 | 1,41E-06 |
| LINC01508 | -3,56587 | 7,53E-07 |
| FAM219A | -3,5719 | 1,85E-22 |
| GRB10 | -3,57563 | 7,60E-10 |
| RAB6B | -3,57583 | 5,87E-26 |
| BHLHA15 | -3,57664 | 3,25E-08 |
| TMSB4X | -3,58301 | 1,24E-92 |
| EPB41L4A | -3,5862 | 3,62E-15 |
| ZNF532 | -3,58973 | 2,53E-52 |
| PTPRE | -3,59245 | 6,13E-08 |
| WNT5B | -3,59403 | 8,70E-10 |
| HOXB6 | -3,59753 | 0,000239 |
| BISPR | -3,5984 | 3,90E-10 |
| MAPK8IP2 | -3,59929 | 3,87E-16 |
| HELZ2 | -3,60513 | 4,25E-15 |
| FKBP9P1 | -3,61066 | 2,60E-06 |
| SAMD14 | -3,61502 | 5,92E-07 |
| ST3GAL1 | -3,62455 | 7,28E-22 |
| PRNP | -3,62643 | 2,79E-41 |
| KLHL29 | -3,62696 | 1,61E-20 |
| PKP1 | -3,62913 | 6,78E-13 |
| APOL2 | -3,63248 | 1,35E-09 |
| CDK5R2 | -3,63279 | 0,000993 |
| FAM63B | -3,63419 | 1,87E-20 |
| CD83 | -3,63918 | 3,73E-36 |
| SLCO4A1 | -3,64491 | 1,82E-26 |
| FAM71F2 | -3,64598 | 1,60E-05 |
| PPM1K | -3,65188 | 1,54E-11 |
| LIMD2 | -3,65768 | 6,69E-20 |
| PLA2R1 | -3,66763 | 0,000291 |
| SAMHD1 | -3,66853 | 6,41E-18 |
| HAGLR | -3,67348 | 2,98E-34 |
| FGFR1 | -3,67545 | 1,11E-86 |
| SLC35E4 | -3,67677 | 1,03E-37 |
| LINC01410 | -3,68062 | 5,48E-05 |
| SNX10 | -3,68271 | 1,74E-22 |
| P3H1 | -3,68319 | 2,14E-67 |
| SERPINB8 | -3,68411 | 2,00E-20 |
| HSPA12A | -3,68468 | 1,56E-37 |
| PXDC1 | -3,69329 | 7,08E-51 |

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| MTCL1 | -3,70296 | 4,65E-30 |
| RUSC2 | -3,70324 | 1,72E-25 |
| ADORA1 | -3,70649 | 2,12E-18 |
| LGALS3BP | -3,71644 | 0,000391 |
| IFITM1 | -3,72066 | 1,40E-10 |
| ADORA2B | -3,73045 | 2,86E-25 |
| HYAL3 | -3,73359 | 2,31E-12 |
| EFHD2 | -3,74344 | 7,17E-56 |
| RRAGD | -3,7497 | 7,52E-26 |
| UBE2L6 | -3,75192 | 6,03E-15 |
| ARL4C | -3,75282 | 1,49E-77 |
| GGT1 | -3,75518 | 1,24E-62 |
| LIMCH1 | -3,76166 | 5,07E-11 |
| SYDE1 | -3,76373 | 2,41E-42 |
| PITX2 | -3,77118 | 2,34E-13 |
| THRB | -3,77451 | 2,62E-23 |
| IFIT5 | -3,7805 | 4,31E-18 |
| PLSCR1 | -3,78337 | 2,13E-68 |
| IL11 | -3,78715 | 1,51E-05 |
| DGCR5 | -3,8003 | 3,42E-26 |
| RASGRP1 | -3,80199 | 5,14E-15 |
| ATAD3B | -3,80655 | 9,33E-27 |
| LOXL1 | -3,80977 | 6,91E-36 |
| POU2F2 | -3,80983 | 2,73E-05 |
| FOXO1 | -3,81389 | 5,35E-21 |
| IL4R | -3,82119 | 2,46E-26 |
| HOXA11 | -3,8215 | 3,72E-08 |
| PROCR | -3,82802 | 5,05E-08 |
| GLIPR2 | -3,83006 | 1,33E-30 |
| ENO2 | -3,83424 | 2,90E-33 |
| CREG2 | -3,83527 | 7,44E-05 |
| ADAMTS9 | -3,83826 | 1,15E-10 |
| LZTS3 | -3,84147 | 2,81E-15 |
| C14orf159 | -3,84216 | 3,82E-20 |
| TPM1 | -3,85105 | 8,61E-109 |
| PTRF | -3,85112 | 4,41E-61 |
| GAB3 | -3,85161 | 0,000408 |
| AMZ1 | -3,85306 | 3,12E-20 |
| COL5A2 | -3,85724 | 1,16E-39 |
| HYI | -3,86201 | 1,33E-20 |
| THBS3 | -3,86318 | 1,62E-61 |
| PLEKHA2 | -3,8658 | 2,24E-32 |
| TRNP1 | -3,87669 | 1,96E-37 |
| GFPT2 | -3,87983 | 1,61E-30 |
| RHEBL1 | -3,8819 | 6,41E-09 |
| FAM228B | -3,89046 | 8,43E-11 |
| CLCF1 | -3,8915 | 4,98E-09 |
| VEPH1 | -3,89705 | 4,32E-11 |
| UAP1L1 | -3,89759 | 2,31E-72 |
| IRF1 | -3,89962 | 1,72E-40 |

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| SPSB1 | -3,90769 | 5,79E-18 |
| CTTNBP2 | -3,90945 | 0,000862 |
| NPAS2 | -3,91099 | 8,52E-37 |
| TRANK1 | -3,91207 | 6,54E-06 |
| BST2 | -3,91639 | 2,96E-12 |
| CDKL5 | -3,91644 | 1,10E-12 |
| ODF3B | -3,91727 | 5,16E-09 |
| ITPKA | -3,92387 | 1,95E-22 |
| SMIM3 | -3,92884 | 9,72E-68 |
| FLT3LG | -3,93842 | 1,65E-12 |
| LYST | -3,94039 | 1,03E-24 |
| ROBO3 | -3,94525 | 4,23E-18 |
| TIMP2 | -3,95413 | 1,88E-81 |
| TNFSF9 | -3,95821 | 2,28E-10 |
| GABARAPL | -3,95988 | 1,61E-07 |
| SETBP1 | -3,96193 | 7,06E-13 |
| SLC6A8 | -3,96851 | 8,50E-26 |
| ARL4D | -3,97109 | 4,11E-38 |
| RAB11FIP5 | -3,97715 | 8,49E-20 |
| MYLK | -3,98047 | 8,96E-41 |
| HBEGF | -3,98426 | 3,94E-26 |
| FAM92A1 | -3,98506 | 2,87E-16 |
| IRF7 | -3,98793 | 1,65E-24 |
| ST6GALNA4 | -3,99399 | 1,77E-26 |
| RRAS | -3,99673 | 1,93E-28 |
| APBB1 | -4,00106 | 6,64E-19 |
| ADAP2 | -4,00335 | 1,13E-32 |
| ITGA6 | -4,00574 | 7,03E-53 |
| ANK2 | -4,00591 | 1,01E-13 |
| PLBD1 | -4,0096 | 2,41E-33 |
| LMO1 | -4,01005 | 2,09E-06 |
| SLC16A3 | -4,01052 | 4,68E-18 |
| SFXN3 | -4,01117 | 7,18E-47 |
| ISPD | -4,01144 | 5,64E-06 |
| GPB1 | -4,02083 | 7,31E-18 |
| PLEK2 | -4,02171 | 3,97E-67 |
| TGFB2 | -4,02192 | 1,12E-10 |
| COL14A1 | -4,02457 | 9,47E-10 |
| DDX11L2 | -4,02767 | 3,94E-06 |
| ASPHD2 | -4,02798 | 1,14E-34 |
| CYP4V2 | -4,03026 | 9,96E-13 |
| EREG | -4,03227 | 8,94E-05 |
| KBTBD11 | -4,03699 | 1,40E-22 |
| HOXD8 | -4,04133 | 1,63E-13 |
| SUSD1 | -4,04255 | 5,36E-55 |
| GRK5 | -4,04567 | 1,16E-23 |
| PGM1 | -4,05402 | 1,29E-50 |
| PTGES | -4,05583 | 4,51E-21 |
| MICAL1 | -4,05894 | 3,94E-32 |
| NCALD | -4,06069 | 4,13E-08 |

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| CRAT | -4,06085 | 1,94E-17 |
| OAS3 | -4,06853 | 0,000103 |
| BCL2L15 | -4,06914 | 6,37E-12 |
| IL6R | -4,0769 | 4,83E-09 |
| TBX19 | -4,07822 | 0,000846 |
| B3GNT5 | -4,07938 | 4,64E-08 |
| MAPRE2 | -4,09006 | 1,01E-37 |
| LCP1 | -4,09159 | 5,00E-18 |
| CMTM7 | -4,09415 | 1,91E-28 |
| GNAI1 | -4,09852 | 9,75E-27 |
| HPGD | -4,11329 | 3,35E-08 |
| BTN3A3 | -4,11369 | 1,99E-09 |
| DNAH17 | -4,11601 | 5,26E-08 |
| CLTCL1 | -4,12191 | 1,62E-41 |
| CAMK4 | -4,13368 | 1,49E-10 |
| ARHGAP29 | -4,13388 | 3,52E-37 |
| SH3RF2 | -4,1354 | 3,53E-17 |
| MYADM | -4,14164 | 3,30E-34 |
| PCOLCE2 | -4,14741 | 3,56E-41 |
| S100A6 | -4,15312 | 1,82E-37 |
| SCARF2 | -4,159 | 2,28E-40 |
| AMPD3 | -4,15996 | 3,67E-24 |
| PPP1R15A | -4,16071 | 4,60E-50 |
| NMI | -4,16379 | 1,60E-29 |
| WTIP | -4,16393 | 2,62E-34 |
| P4HA2 | -4,17683 | 2,39E-43 |
| CMTM3 | -4,17871 | 2,83E-33 |
| RND3 | -4,18262 | 4,74E-66 |
| DENND3 | -4,18443 | 7,17E-19 |
| ECE1 | -4,18809 | 2,59E-102 |
| PARP12 | -4,18835 | 3,97E-27 |
| FABP6 | -4,18981 | 3,03E-24 |
| CPQ | -4,19062 | 1,61E-18 |
| TOR4A | -4,19066 | 1,94E-43 |
| REC8 | -4,20882 | 8,41E-06 |
| KIF26B | -4,21314 | 7,57E-36 |
| CCDC68 | -4,21676 | 4,14E-09 |
| FAM171A1 | -4,21895 | 1,31E-69 |
| DDX60L | -4,22185 | 4,08E-26 |
| ERO1B | -4,22286 | 4,38E-05 |
| L1CAM | -4,22378 | 3,13E-37 |
| NUAK2 | -4,2269 | 3,07E-61 |
| STEAP1 | -4,23967 | 8,45E-17 |
| CPM | -4,25133 | 3,48E-15 |
| ADRA2A | -4,25863 | 5,06E-06 |
| ASPH | -4,26162 | 1,34E-52 |
| COLEC11 | -4,26291 | 0,000217 |
| HLA-C | -4,26559 | 1,55E-15 |
| MTAP | -4,2717 | 8,80E-13 |
| TBXAS1 | -4,27478 | 3,93E-08 |

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| SERPING1 | -4,28084 | 1,67E-05 |
| C10orf54 | -4,28087 | 0,000279 |
| GPR3 | -4,28101 | 0,000967 |
| ADGRF4 | -4,28482 | 3,02E-13 |
| VAMP5 | -4,28985 | 5,95E-11 |
| TNFRSF11B | -4,29417 | 2,49E-27 |
| HHEX | -4,29537 | 6,92E-26 |
| FAM101B | -4,3004 | 2,71E-51 |
| SIK1 | -4,31395 | 3,00E-06 |
| HIVEP3 | -4,31934 | 2,12E-12 |
| JAG1 | -4,32246 | 2,70E-73 |
| MDGA1 | -4,3305 | 7,89E-20 |
| P4HA3 | -4,3335 | 0,000773 |
| RASD2 | -4,34206 | 4,48E-18 |
| AFF3 | -4,34401 | 1,01E-43 |
| RASGEF1B | -4,34818 | 1,08E-15 |
| SPTLC3 | -4,34862 | 2,73E-09 |
| SLC12A4 | -4,35097 | 1,62E-13 |
| MFGE8 | -4,35213 | 2,11E-69 |
| EPDR1 | -4,36043 | 9,89E-49 |
| UBASH3B | -4,36718 | 1,65E-28 |
| AHNAK2 | -4,36908 | 3,27E-83 |
| TRIP10 | -4,37082 | 6,84E-44 |
| LGALS3 | -4,37709 | 8,02E-35 |
| C3orf52 | -4,37786 | 1,76E-08 |
| PBX4 | -4,37929 | 1,95E-25 |
| FAM20C | -4,38347 | 4,25E-95 |
| B3GNT9 | -4,38534 | 1,62E-11 |
| ADAMTSL3 | -4,38861 | 7,27E-28 |
| DLGAP1-AS | -4,38945 | 4,57E-16 |
| PXK | -4,39073 | 7,13E-21 |
| RGAG1 | -4,39937 | 8,93E-09 |
| DMBX1 | -4,40311 | 6,28E-08 |
| BTN3A2 | -4,40724 | 1,09E-12 |
| SLC30A4 | -4,41739 | 1,53E-08 |
| HSPB6 | -4,41999 | 5,99E-08 |
| ZNF257 | -4,4204 | 2,83E-11 |
| LPXN | -4,4213 | 2,08E-56 |
| SLC16A1-A' | -4,4333 | 1,91E-06 |
| CLCN4 | -4,43591 | 4,34E-27 |
| GNG4 | -4,44031 | 2,39E-25 |
| KIAA2022 | -4,45098 | 2,44E-07 |
| LRR8C | -4,45219 | 2,75E-31 |
| ARHGAP23 | -4,45527 | 1,86E-21 |
| NAV2 | -4,45548 | 1,17E-78 |
| TMEM140 | -4,46493 | 8,06E-14 |
| HOXA7 | -4,46598 | 2,31E-09 |
| NOD2 | -4,46961 | 4,15E-11 |
| MGLL | -4,47081 | 8,77E-28 |
| MAP1B | -4,47226 | 3,63E-33 |

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| LINC00152 | -4,47282 | 1,53E-27 |
| CUBN | -4,47489 | 8,97E-06 |
| B2M | -4,47811 | 3,18E-44 |
| ISG15 | -4,48094 | 5,19E-05 |
| SIPA1 | -4,48323 | 3,88E-58 |
| RPS2P32 | -4,4871 | 3,48E-05 |
| SYNM | -4,49129 | 2,56E-49 |
| PALM2 | -4,49296 | 3,89E-17 |
| DLK2 | -4,49974 | 8,32E-09 |
| FAM189A2 | -4,5014 | 6,65E-14 |
| NAP1L5 | -4,50286 | 0,000258 |
| FRMD5 | -4,50468 | 2,87E-50 |
| SEMA5B | -4,50902 | 0,000949 |
| FNDCC4 | -4,51068 | 1,66E-10 |
| TLL2 | -4,51163 | 9,04E-19 |
| STARD9 | -4,52753 | 6,98E-17 |
| ARAP3 | -4,53007 | 1,89E-25 |
| RGS2 | -4,53276 | 4,96E-27 |
| ALDH1L2 | -4,54258 | 0,000864 |
| IFI6 | -4,54294 | 1,41E-05 |
| AKAP12 | -4,54535 | 2,38E-49 |
| IL10RA | -4,5463 | 0,000382 |
| LOC440028 | -4,55184 | 0,000215 |
| EDIL3 | -4,56276 | 3,63E-12 |
| NCR3LG1 | -4,57213 | 2,95E-32 |
| RIN2 | -4,58192 | 3,09E-28 |
| MYO1E | -4,58261 | 3,20E-37 |
| TIMP1 | -4,58479 | 1,11E-18 |
| EVC2 | -4,58687 | 7,11E-23 |
| SOX9 | -4,59726 | 1,54E-22 |
| EXT1 | -4,60437 | 4,32E-89 |
| PGF | -4,60908 | 6,38E-11 |
| AOX1 | -4,63116 | 5,27E-08 |
| LIF | -4,63719 | 5,95E-19 |
| LRRK1 | -4,6392 | 4,60E-37 |
| LIX1L | -4,64081 | 7,47E-38 |
| PRKCA | -4,65297 | 8,75E-49 |
| ABCB1 | -4,65831 | 7,38E-11 |
| MAP3K8 | -4,65962 | 2,45E-23 |
| CHST1 | -4,66203 | 2,51E-12 |
| TM4SF1 | -4,66965 | 4,29E-38 |
| CYP26B1 | -4,6753 | 2,75E-10 |
| ITGA3 | -4,67977 | 6,31E-139 |
| TAPBPL | -4,68386 | 1,15E-18 |
| CNTNAP1 | -4,69867 | 1,86E-55 |
| DSEL | -4,705 | 1,55E-22 |
| ZNF264 | -4,71778 | 9,74E-44 |
| CACNB4 | -4,73512 | 2,77E-08 |
| NUDT11 | -4,73645 | 7,37E-19 |
| ROR1 | -4,74582 | 4,81E-55 |

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| SERPINB9 | -4,74587 | 8,00E-35 |
| MRAS | -4,75403 | 5,03E-63 |
| CD163L1 | -4,75412 | 3,28E-11 |
| SYNE1 | -4,75481 | 7,00E-23 |
| PLEKHF1 | -4,75519 | 2,03E-26 |
| XKR6 | -4,75697 | 4,50E-06 |
| FAT2 | -4,75804 | 0,000266 |
| PGBD5 | -4,75944 | 6,85E-60 |
| ULBP2 | -4,76375 | 5,61E-11 |
| TRIM47 | -4,78666 | 5,95E-56 |
| CHST3 | -4,78742 | 1,62E-16 |
| PTGS1 | -4,79839 | 1,22E-06 |
| EPHA2 | -4,80074 | 2,31E-41 |
| PPP4R4 | -4,81081 | 6,12E-09 |
| TMCC3 | -4,81427 | 6,93E-29 |
| TRPC1 | -4,82096 | 1,04E-34 |
| SMOX | -4,82449 | 0,000123 |
| SQRDL | -4,82973 | 6,62E-40 |
| CAV2 | -4,83502 | 5,21E-63 |
| SH2B3 | -4,83738 | 9,83E-90 |
| CFB | -4,84075 | 9,27E-12 |
| ARMC4 | -4,84987 | 2,82E-09 |
| ECM1 | -4,85087 | 1,11E-14 |
| CD74 | -4,85108 | 4,65E-12 |
| MID1 | -4,85288 | 2,76E-21 |
| SPTBN5 | -4,85575 | 9,45E-10 |
| ZNF382 | -4,86884 | 5,61E-16 |
| PAK3 | -4,87323 | 8,67E-05 |
| SPRED1 | -4,87491 | 1,85E-32 |
| CREB5 | -4,88 | 0,000506 |
| RELB | -4,88351 | 1,39E-42 |
| HERC5 | -4,88408 | 1,09E-09 |
| TUBB2A | -4,91018 | 5,27E-33 |
| SPHK1 | -4,91308 | 2,96E-102 |
| ME3 | -4,91796 | 3,12E-11 |
| SNX7 | -4,92406 | 1,00E-52 |
| OAF | -4,93579 | 1,36E-90 |
| DIRC3 | -4,95669 | 7,83E-07 |
| FAM46A | -4,96007 | 7,95E-54 |
| CRIP1 | -4,96218 | 1,12E-35 |
| EMILIN2 | -4,96226 | 5,67E-21 |
| LINC00862 | -4,9625 | 1,45E-07 |
| PARP10 | -4,97862 | 9,88E-46 |
| GPR176 | -4,98754 | 9,91E-32 |
| OLFML2A | -4,99539 | 2,34E-32 |
| S100A2 | -5,00645 | 5,90E-14 |
| CCDC80 | -5,01356 | 2,24E-26 |
| GFRA2 | -5,01896 | 4,30E-23 |
| SH2D5 | -5,02914 | 2,87E-45 |
| CNR1 | -5,02985 | 1,09E-16 |

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| SEPT10 | -5,0373 | 6,69E-36 |
| CD22 | -5,04261 | 0,000293 |
| FXVD5 | -5,06157 | 1,94E-96 |
| MBP | -5,062 | 6,43E-59 |
| MN1 | -5,06762 | 1,57E-07 |
| CALD1 | -5,06879 | 9,76E-24 |
| ENPP1 | -5,0897 | 1,56E-28 |
| FAM149A | -5,10117 | 2,36E-10 |
| LAMB3 | -5,10612 | 0,000573 |
| YOD1 | -5,11006 | 3,32E-22 |
| IL1R1 | -5,11752 | 5,97E-18 |
| CAV1 | -5,11891 | 2,41E-71 |
| GCNT2 | -5,12946 | 0,000835 |
| PLEK | -5,13118 | 3,41E-08 |
| PROS1 | -5,13442 | 1,41E-17 |
| GULP1 | -5,14202 | 4,37E-61 |
| ETV4 | -5,15537 | 3,74E-13 |
| ANKRD29 | -5,15598 | 2,63E-18 |
| PLBD1-AS1 | -5,16359 | 0,000569 |
| ZNF702P | -5,17291 | 5,58E-41 |
| IRAK2 | -5,1755 | 2,03E-06 |
| SYNC | -5,18347 | 1,27E-44 |
| COPZ2 | -5,19287 | 2,11E-54 |
| CPED1 | -5,19554 | 1,92E-06 |
| IQCA1 | -5,19762 | 1,87E-05 |
| CPEB1 | -5,19802 | 1,05E-46 |
| HOXA-AS2 | -5,19862 | 1,01E-10 |
| BCAR3 | -5,20593 | 2,62E-118 |
| NOV | -5,21107 | 0,000317 |
| TUBA4A | -5,21356 | 1,69E-21 |
| KIF7 | -5,22834 | 0,000269 |
| IFI44L | -5,23985 | 0,00012 |
| LGALS9 | -5,24126 | 2,06E-11 |
| PRUNE2 | -5,24301 | 4,69E-23 |
| CORO2B | -5,24787 | 9,46E-13 |
| IL15RA | -5,24801 | 8,11E-66 |
| CAPG | -5,25327 | 1,95E-181 |
| MAP7D2 | -5,25728 | 5,15E-07 |
| ARHGEF6 | -5,26152 | 5,33E-57 |
| MMP24 | -5,26309 | 3,67E-30 |
| RTN4RL2 | -5,26339 | 4,89E-31 |
| QPCT | -5,26371 | 6,89E-47 |
| ITGAM | -5,26399 | 7,07E-05 |
| CMRK2 | -5,27252 | 1,00E-22 |
| KCNMA1 | -5,27324 | 5,41E-34 |
| PRRT3-AS1 | -5,27558 | 1,53E-05 |
| SOWAHC | -5,28819 | 1,09E-60 |
| ETV7 | -5,29173 | 2,53E-12 |
| PPP1R1A | -5,30395 | 2,36E-28 |
| CRYBG3 | -5,30956 | 1,69E-31 |

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| DUSP6 | -5,3149 | 3,50E-10 |
| ZBTB18 | -5,33338 | 1,38E-17 |
| COL16A1 | -5,34473 | 3,43E-48 |
| TAGLN | -5,35458 | 1,26E-51 |
| HLA-F | -5,36138 | 1,64E-31 |
| GJB2 | -5,36227 | 1,36E-68 |
| HOXB4 | -5,37709 | 8,48E-06 |
| MICAL2 | -5,38548 | 4,01E-100 |
| C19orf66 | -5,3874 | 4,08E-29 |
| WIPF1 | -5,39381 | 8,45E-77 |
| EHD2 | -5,42174 | 2,80E-158 |
| COL27A1 | -5,42268 | 3,06E-41 |
| DNM3 | -5,4322 | 1,15E-12 |
| ZNF883 | -5,43657 | 0,000127 |
| HEG1 | -5,44047 | 0,000351 |
| FHAD1 | -5,44439 | 7,46E-12 |
| CDC42EP3 | -5,4455 | 5,86E-116 |
| ST3GAL2 | -5,45098 | 2,62E-58 |
| STX11 | -5,45381 | 2,96E-11 |
| PLEKHG4B | -5,45772 | 3,02E-32 |
| ARMCX4 | -5,468 | 3,16E-06 |
| MRC2 | -5,4686 | 2,96E-42 |
| TMEM52B | -5,47684 | 1,21E-06 |
| SPX | -5,5081 | 0,000311 |
| NOG | -5,52022 | 9,42E-12 |
| LGI2 | -5,53814 | 1,05E-13 |
| UPP1 | -5,53824 | 9,97E-23 |
| SP100 | -5,54397 | 5,66E-05 |
| OAS2 | -5,54673 | 7,82E-06 |
| CD68 | -5,54854 | 3,50E-31 |
| TLR2 | -5,55723 | 1,30E-07 |
| EMP1 | -5,5581 | 0,000727 |
| MAGEB2 | -5,57337 | 1,92E-11 |
| NLRP3 | -5,57464 | 0,000715 |
| UGT2B4 | -5,57581 | 0,00065 |
| C10orf11 | -5,5786 | 1,64E-21 |
| MSRB3 | -5,58027 | 1,84E-83 |
| C8orf34 | -5,58088 | 1,18E-07 |
| PRR5L | -5,5855 | 9,52E-70 |
| PTPN22 | -5,58756 | 2,61E-18 |
| PAG1 | -5,59953 | 1,20E-73 |
| C17orf51 | -5,60827 | 1,18E-45 |
| MARCH3 | -5,61592 | 4,44E-17 |
| AGPAT4 | -5,62437 | 3,24E-51 |
| TRPM8 | -5,62841 | 0,000902 |
| PTPRH | -5,63415 | 5,45E-19 |
| C1QTNF2 | -5,64047 | 9,27E-12 |
| NPIPA5 | -5,6627 | 4,69E-08 |
| PLCE1 | -5,66815 | 8,22E-22 |
| PNMA2 | -5,70033 | 6,00E-22 |

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| PRDM1 | -5,70066 | 0,000405 |
| GNG2 | -5,71999 | 6,57E-10 |
| SORCS2 | -5,7223 | 3,24E-47 |
| PLIN2 | -5,7225 | 2,43E-95 |
| EPB41L2 | -5,72558 | 7,04E-137 |
| SHC3 | -5,72774 | 5,99E-26 |
| OPTN | -5,72967 | 9,31E-30 |
| EPHB1 | -5,73356 | 7,61E-56 |
| TRIM67 | -5,73502 | 5,49E-11 |
| CECR1 | -5,74456 | 1,11E-06 |
| MATN3 | -5,74675 | 1,08E-46 |
| TTLL6 | -5,7508 | 0,000306 |
| TMEM45A | -5,76479 | 3,99E-27 |
| TRAF1 | -5,76594 | 1,66E-51 |
| SERPINE2 | -5,8139 | 1,21E-94 |
| HLA-A | -5,81819 | 3,41E-114 |
| PLA2G16 | -5,82185 | 1,96E-75 |
| PIK3AP1 | -5,83349 | 1,36E-26 |
| KIFC3 | -5,84135 | 1,30E-27 |
| CASP10 | -5,84448 | 6,85E-20 |
| SLIT3 | -5,85343 | 6,89E-07 |
| SYN1 | -5,85809 | 9,05E-19 |
| HOXB8 | -5,85851 | 3,70E-07 |
| PAPSS2 | -5,86209 | 1,87E-06 |
| ZC3H12C | -5,87206 | 9,00E-40 |
| CD109 | -5,87409 | 2,73E-88 |
| TRIM54 | -5,88403 | 8,76E-06 |
| ADAM8 | -5,89371 | 4,34E-56 |
| C2 | -5,90495 | 4,38E-64 |
| STAT5A | -5,90738 | 2,83E-13 |
| C3orf80 | -5,91035 | 1,24E-22 |
| PTHLH | -5,93282 | 1,94E-82 |
| HLA-DPA1 | -5,9514 | 8,25E-10 |
| POPDC3 | -5,95141 | 3,25E-19 |
| PQLC2L | -5,96873 | 3,91E-43 |
| SLC2A3 | -5,9708 | 6,42E-23 |
| VIM-AS1 | -5,97382 | 1,92E-74 |
| LYN | -5,97898 | 1,82E-51 |
| F3 | -5,98449 | 1,61E-80 |
| HOXA2 | -5,9853 | 1,05E-12 |
| OLFML2B | -5,9868 | 3,25E-21 |
| RBMS3 | -5,99062 | 2,41E-20 |
| PMP22 | -5,99615 | 8,71E-56 |
| FBLN1 | -6,00005 | 1,47E-09 |
| ADAM19 | -6,00092 | 1,02E-125 |
| SH3PXD2A | -6,01954 | 4,55E-82 |
| DYSF | -6,03617 | 4,29E-30 |
| APLN | -6,03773 | 7,59E-20 |
| SLC22A15 | -6,04318 | 3,53E-42 |
| GBP4 | -6,04946 | 9,77E-05 |

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| MLLT11 | -6,05195 | 6,00E-69 |
| LCAT | -6,05211 | 1,08E-11 |
| SH3RF3 | -6,05816 | 6,53E-15 |
| FHL1 | -6,06665 | 7,48E-75 |
| RSAD2 | -6,06678 | 0,000666 |
| LOC101928 | -6,07185 | 2,15E-11 |
| STEAP2 | -6,07734 | 8,62E-11 |
| GBP5 | -6,07879 | 1,00E-09 |
| KCNH1 | -6,07939 | 3,75E-14 |
| ZDHHC2 | -6,0978 | 4,44E-37 |
| PTPRB | -6,11654 | 3,06E-22 |
| PYGL | -6,11993 | 1,69E-06 |
| MFSD7 | -6,12009 | 1,95E-06 |
| IGFBP6 | -6,12066 | 1,73E-41 |
| SPRY4 | -6,12531 | 3,40E-57 |
| P2RX7 | -6,12727 | 5,80E-11 |
| ABLIM3 | -6,13277 | 9,02E-65 |
| BICC1 | -6,14401 | 7,89E-56 |
| ZNF415 | -6,15082 | 4,19E-12 |
| ZNF439 | -6,1773 | 2,47E-05 |
| MCAM | -6,1818 | 1,04E-58 |
| EGFLAM | -6,20155 | 1,99E-39 |
| MX2 | -6,20391 | 6,82E-67 |
| ZBTB20 | -6,20965 | 9,26E-17 |
| ADAMTS6 | -6,21347 | 2,02E-05 |
| RFTN1 | -6,21381 | 8,07E-82 |
| HAVCR2 | -6,2343 | 3,92E-07 |
| TNFAIP3 | -6,24248 | 1,05E-78 |
| PLAC8 | -6,2592 | 7,13E-11 |
| PRICKLE1 | -6,26015 | 2,85E-39 |
| DISP2 | -6,26021 | 1,47E-05 |
| SIRPB1 | -6,26053 | 3,23E-10 |
| DAB2 | -6,26706 | 3,52E-21 |
| CPA4 | -6,27064 | 3,33E-07 |
| CLDN1 | -6,27983 | 1,60E-06 |
| PIK3CD | -6,28941 | 1,21E-52 |
| AEBP1 | -6,29959 | 3,23E-90 |
| C15orf52 | -6,30119 | 7,84E-12 |
| ARHGEF40 | -6,30797 | 9,54E-43 |
| XDH | -6,31145 | 2,70E-12 |
| PLTP | -6,31586 | 2,43E-74 |
| DAPK1 | -6,31966 | 1,47E-21 |
| CFH | -6,32111 | 9,07E-06 |
| KIAA1462 | -6,3275 | 3,14E-56 |
| COL1A1 | -6,33679 | 7,29E-183 |
| GLIPR1 | -6,33733 | 2,42E-48 |
| ABHD8 | -6,34709 | 1,02E-40 |
| HCG4 | -6,35492 | 2,11E-15 |
| COL12A1 | -6,35543 | 2,04E-41 |
| GRASP | -6,36542 | 6,81E-08 |

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| ITGB8 | -6,38821 | 8,13E-22 |
| BDNF | -6,38939 | 8,11E-35 |
| ZNF469 | -6,3962 | 5,75E-44 |
| NPB | -6,40113 | 5,63E-14 |
| MEFV | -6,40123 | 1,35E-17 |
| CAPN2 | -6,4034 | 5,77E-52 |
| NCF2 | -6,41194 | 2,50E-05 |
| EGFR | -6,42485 | 2,58E-141 |
| SLC6A17 | -6,42859 | 8,60E-06 |
| LINC01605 | -6,42865 | 4,46E-34 |
| TRIM22 | -6,4324 | 2,27E-26 |
| FBXO32 | -6,4377 | 7,65E-49 |
| VEGFC | -6,4443 | 3,31E-48 |
| SLCO2A1 | -6,44609 | 2,90E-07 |
| MAFF | -6,46658 | 6,92E-05 |
| ZNF528 | -6,49482 | 1,30E-21 |
| SELM | -6,50593 | 7,75E-177 |
| LOC100133 | -6,53425 | 0,000723 |
| HAPLN3 | -6,53734 | 6,74E-14 |
| CGNL1 | -6,54739 | 3,79E-34 |
| SDPR | -6,56507 | 4,31E-14 |
| TRABD2A | -6,56901 | 3,86E-05 |
| JAZF1 | -6,56989 | 6,05E-42 |
| ABI3 | -6,59217 | 1,49E-06 |
| COL6A1 | -6,59629 | 6,18E-267 |
| BATF2 | -6,61076 | 1,00E-08 |
| PLEKHA4 | -6,62031 | 4,22E-48 |
| CA2 | -6,63891 | 3,11E-44 |
| FHOD3 | -6,65047 | 4,80E-34 |
| LOXL4 | -6,65369 | 2,63E-11 |
| IL12A | -6,65553 | 3,67E-13 |
| TNIP3 | -6,66107 | 1,75E-06 |
| JPH2 | -6,67717 | 0,000437 |
| SLC16A2 | -6,67785 | 1,26E-71 |
| SIRPA | -6,6889 | 1,69E-230 |
| MMP13 | -6,69342 | 3,69E-18 |
| BANK1 | -6,70332 | 0,000509 |
| GLI2 | -6,7039 | 3,51E-13 |
| ZNF788 | -6,7064 | 3,83E-09 |
| IFI27 | -6,71177 | 7,34E-10 |
| LOC101927 | -6,72252 | 0,000385 |
| TRIM9 | -6,72854 | 5,16E-29 |
| TNF | -6,73672 | 3,04E-23 |
| CCDC144A | -6,74747 | 0,000596 |
| PLAUR | -6,75645 | 1,19E-49 |
| HS3ST1 | -6,75971 | 0,000324 |
| TMEM200E | -6,77735 | 8,14E-17 |
| ZNF365 | -6,77996 | 9,74E-33 |
| VILL | -6,78133 | 2,98E-09 |
| TBX15 | -6,78437 | 2,15E-27 |

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| PTGER1 | -6,78842 | 0,000409 |
| SLC15A3 | -6,79461 | 6,96E-08 |
| RASSF4 | -6,7978 | 1,73E-48 |
| HCP5 | -6,80553 | 6,59E-21 |
| BCL2A1 | -6,81447 | 5,46E-07 |
| HOXD1 | -6,82638 | 4,51E-09 |
| MCTP2 | -6,83554 | 1,95E-22 |
| GNB3 | -6,84384 | 5,79E-18 |
| GEM | -6,84727 | 1,75E-112 |
| TRABD2B | -6,8494 | 6,13E-06 |
| TSPAN2 | -6,88041 | 5,28E-32 |
| RAB32 | -6,88325 | 1,37E-83 |
| GPR146 | -6,88644 | 0,000246 |
| LINC00622 | -6,88892 | 4,62E-07 |
| PEG10 | -6,89564 | 1,80E-09 |
| SEC16B | -6,90322 | 3,36E-10 |
| TCAF2 | -6,91996 | 7,95E-17 |
| FAM26F | -6,92621 | 1,44E-07 |
| ROBO1 | -6,9349 | 1,58E-77 |
| DMGDH | -6,95521 | 0,000193 |
| MIR614 | -6,95631 | 0,00015 |
| ETV5 | -6,96321 | 2,03E-78 |
| ACOT2 | -6,96516 | 1,77E-30 |
| ANTXR2 | -6,96778 | 1,58E-29 |
| PEAR1 | -6,98174 | 0,000146 |
| IL15 | -7,00768 | 8,46E-11 |
| SRSF12 | -7,02436 | 3,62E-13 |
| FHL2 | -7,0526 | 2,28E-38 |
| APOL3 | -7,07555 | 1,03E-13 |
| ZEB1 | -7,07702 | 8,17E-50 |
| ANGPTL4 | -7,09851 | 2,34E-51 |
| ILDR2 | -7,11246 | 2,23E-23 |
| MALL | -7,13991 | 3,69E-19 |
| ANXA1 | -7,17067 | 1,43E-218 |
| FAM49A | -7,19008 | 1,25E-51 |
| DKK3 | -7,19605 | 6,95E-95 |
| KIRREL3 | -7,19874 | 7,34E-05 |
| BST1 | -7,20463 | 6,75E-12 |
| PXDNL | -7,22108 | 5,71E-05 |
| LOX | -7,23882 | 6,81E-180 |
| LOC79160 | -7,24939 | 1,23E-08 |
| NLRC5 | -7,25047 | 2,32E-63 |
| CDKN1C | -7,25959 | 3,88E-12 |
| STAT4 | -7,2652 | 1,01E-08 |
| SMO | -7,2704 | 3,63E-12 |
| CRYM | -7,2705 | 4,75E-05 |
| TYMP | -7,27586 | 1,85E-158 |
| C1RL | -7,28959 | 1,86E-15 |
| ZNF426 | -7,29667 | 2,07E-18 |
| DUSP10 | -7,32242 | 1,39E-89 |

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| CABP4 | -7,32583 | 4,69E-05 |
| IGF2BP1 | -7,33034 | 6,45E-71 |
| INPP1 | -7,33212 | 1,33E-07 |
| SRPX | -7,33267 | 4,43E-89 |
| RIN1 | -7,33391 | 1,82E-110 |
| CD6 | -7,3509 | 0,001 |
| SLC6A12 | -7,3595 | 0,00092 |
| MFNG | -7,3595 | 0,00092 |
| CPA6 | -7,36622 | 1,83E-08 |
| FOXQ1 | -7,36803 | 5,24E-18 |
| IL2RG | -7,37691 | 0,000867 |
| GPR85 | -7,38416 | 2,74E-05 |
| LINC00702 | -7,38885 | 0,001008 |
| LOC154761 | -7,39304 | 3,84E-05 |
| S100A3 | -7,39406 | 3,14E-05 |
| CLDN14 | -7,39418 | 0,000862 |
| BNC2 | -7,39715 | 4,21E-19 |
| NLRP1 | -7,39798 | 2,69E-05 |
| KCNQ3 | -7,39971 | 0,000787 |
| KIAA1755 | -7,42215 | 0,000715 |
| SYNPO | -7,42417 | 9,78E-71 |
| ZNF717 | -7,42661 | 2,78E-09 |
| CNTN6 | -7,42765 | 0,000707 |
| CALCB | -7,42813 | 2,68E-09 |
| BPIFC | -7,43304 | 0,000748 |
| PILRA | -7,43849 | 2,75E-05 |
| DUSP5P1 | -7,44155 | 0,00067 |
| PTN | -7,44425 | 0,000654 |
| LOC101928 | -7,44425 | 0,000654 |
| SERPINE1 | -7,4517 | 7,73E-07 |
| MAF | -7,45309 | 8,87E-97 |
| ITGA5 | -7,45464 | 3,87E-257 |
| RELN | -7,45539 | 1,73E-22 |
| NEK9 | -7,4576 | 8,40E-06 |
| FAM26E | -7,45807 | 0,00067 |
| SPON2 | -7,45823 | 1,11E-90 |
| UBQLNL | -7,46335 | 0,000612 |
| AJAP1 | -7,46587 | 0,00033 |
| ACP5 | -7,46901 | 3,96E-07 |
| SLC16A12 | -7,47135 | 0,000602 |
| ITGA11 | -7,47397 | 0,000618 |
| HS1BP3-IT1 | -7,47397 | 0,000618 |
| PADI1 | -7,47654 | 0,000646 |
| SOGA3 | -7,47842 | 4,11E-20 |
| ZNF660 | -7,47905 | 0,000684 |
| ARHGAP22 | -7,48096 | 1,20E-34 |
| EVA1A | -7,48506 | 6,09E-71 |
| THSD1 | -7,48958 | 0,000124 |
| PLSCR4 | -7,48962 | 3,11E-05 |
| MIR31HG | -7,49781 | 0,000601 |

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| ST3GAL6 | -7,50371 | 1,89E-05 |
| AFP | -7,50495 | 0,000758 |
| CSF1 | -7,52177 | 2,21E-140 |
| TMEM255E | -7,52763 | 9,47E-33 |
| FBXL21 | -7,52943 | 0,00046 |
| DPY19L2 | -7,5296 | 1,39E-13 |
| BIN1 | -7,53605 | 1,34E-112 |
| PLAG1 | -7,53709 | 1,78E-12 |
| INSC | -7,53941 | 0,000521 |
| DGKG | -7,54873 | 1,02E-09 |
| POSTN | -7,54882 | 0,000692 |
| LINC01094 | -7,55549 | 0,000499 |
| INHBA-AS1 | -7,56027 | 0,000431 |
| LOXL2 | -7,56212 | 7,18E-17 |
| SPINK13 | -7,56273 | 0,00041 |
| ACSM5 | -7,56307 | 0,000958 |
| CTSS | -7,56487 | 0,00012 |
| CP | -7,56723 | 2,77E-45 |
| GPR132 | -7,57097 | 1,31E-05 |
| PHYHIP | -7,57332 | 0,000491 |
| SPOCK1 | -7,58112 | 4,69E-132 |
| GNGT2 | -7,5821 | 0,000491 |
| AICDA | -7,58525 | 0,000363 |
| PKLR | -7,59318 | 0,00044 |
| COL5A1 | -7,59382 | 2,43E-95 |
| KRT222 | -7,605 | 0,000332 |
| TMEM173 | -7,60541 | 3,03E-05 |
| MYH13 | -7,60743 | 0,00033 |
| IGFBP7-AS1 | -7,61057 | 0,000435 |
| IL18R1 | -7,61357 | 1,10E-38 |
| LOC102477 | -7,6146 | 0,000353 |
| LINC01358 | -7,61504 | 0,000364 |
| SYTL3 | -7,61782 | 1,95E-105 |
| SPOCD1 | -7,61906 | 2,22E-06 |
| CARD16 | -7,62132 | 0,000433 |
| SYT11 | -7,62261 | 1,76E-24 |
| HRASLS | -7,62343 | 0,000476 |
| LOC39971E | -7,62779 | 0,000433 |
| LINC01583 | -7,63394 | 0,000329 |
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| IGFBP3 | -7,63682 | 2,15E-48 |
| COL7A1 | -7,63824 | 1,27E-116 |
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| COL8A1 | -7,67167 | 3,46E-10 |
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| TM6SF2 | -7,78187 | 0,000212 |
| ADAMTS14 | -7,78354 | 7,60E-26 |
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| MMP7 | -7,81684 | 0,000129 |
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| PCDH20 | -7,82954 | 0,000125 |
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| PTGS2 | -8,20156 | 5,19E-22 |
| HAS2 | -8,22263 | 4,35E-24 |
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| COL4A2-AS | -8,27217 | 3,45E-05 |
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| CHRNA1 | -8,28469 | 2,51E-05 |
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| LOC100507 | -8,53847 | 3,42E-06 |
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| CD274 | -8,58397 | 5,26E-26 |
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| B3GALT1 | -8,59884 | 2,50E-06 |
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| CTHRC1 | -8,69691 | 2,06E-142 |
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| PINLYP | -8,80633 | 1,46E-06 |
| FSTL1 | -8,81057 | 4,09E-97 |
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| PRKCQ-AS1 | -9,1998 | 9,43E-08 |
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| FOX L1 | -9,20873 | 1,40E-07 |
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| LUM | -9,23467 | 1,04E-15 |
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| LHFP | -9,48759 | 3,30E-61 |
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| ZC3HAV1L | -9,55093 | 1,56E-08 |
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| GATA2-AS1 | -9,73578 | 3,98E-10 |
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| TLR3 | -9,75424 | 5,96E-09 |
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| EBF1 | -10,2351 | 2,80E-10 |
| HOXD10 | -10,2404 | 1,52E-20 |
| GBP1 | -10,2409 | 1,19E-16 |
| BDKRB1 | -10,2418 | 2,19E-10 |
| HOXD4 | -10,2606 | 1,90E-10 |
| CD209 | -10,2748 | 1,86E-10 |
| ZNF470 | -10,2838 | 1,71E-10 |
| GRIN2A | -10,2885 | 1,75E-10 |
| LINC01426 | -10,2885 | 1,75E-10 |
| ZNF280A | -10,2899 | 2,55E-10 |
| ADAMTS5 | -10,2999 | 1,67E-10 |
| TNFRSF10C | -10,3013 | 1,48E-10 |
| SYT13 | -10,3019 | 7,63E-15 |
| KANK4 | -10,3133 | 1,67E-10 |
| CA13 | -10,3146 | 1,59E-10 |
| ALOX5 | -10,3227 | 1,79E-11 |
| POU5F1 | -10,3355 | 1,31E-10 |
| ADAMTS16 | -10,3635 | 1,06E-10 |
| SLAMF8 | -10,3637 | 1,11E-10 |
| MEOX2 | -10,3798 | 9,44E-11 |
| SPNS3 | -10,3875 | 1,03E-10 |
| ARSE | -10,3911 | 8,96E-11 |

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| NTF3 | -10,393 | 8,84E-11 |
| HAS2-AS1 | -10,394 | 1,29E-10 |
| PDCD1LG2 | -10,4014 | 8,31E-11 |
| AGPS | -10,4021 | 4,45E-68 |
| TLR4 | -10,4043 | 8,21E-11 |
| TDRP | -10,4044 | 1,57E-10 |
| SEC14L6 | -10,4099 | 7,92E-11 |
| GDNF | -10,4103 | 7,86E-11 |
| SDHAF3 | -10,4314 | 9,56E-11 |
| UBA7 | -10,452 | 6,59E-11 |
| TDRD9 | -10,4738 | 8,62E-12 |
| MT1L | -10,4751 | 6,42E-11 |
| MMP14 | -10,5038 | 1,90E-05 |
| IL7R | -10,521 | 9,10E-11 |
| ZNF334 | -10,5317 | 3,82E-11 |
| PPARGC1A | -10,5532 | 4,07E-11 |
| SERPINB3 | -10,5615 | 3,26E-11 |
| DENND2A | -10,5678 | 3,60E-11 |
| KCP | -10,5827 | 3,32E-11 |
| IPW | -10,6055 | 3,19E-11 |
| EMP3 | -10,6067 | 4,77E-111 |
| LRRC34 | -10,6093 | 2,40E-11 |
| DMD | -10,6214 | 2,24E-11 |
| HOXD-AS2 | -10,6372 | 2,39E-11 |
| SLCO2B1 | -10,6412 | 2,11E-11 |
| GLIS1 | -10,644 | 2,31E-11 |
| TLE4 | -10,6626 | 2,83E-12 |
| RARRES1 | -10,6767 | 2,15E-11 |
| C1S | -10,6989 | 3,65E-87 |
| APOBEC3G | -10,7152 | 1,65E-11 |
| FGF5 | -10,7213 | 1,63E-11 |
| MSN | -10,7261 | 1,62E-10 |
| NCAM1 | -10,7301 | 4,74E-71 |
| ZNF90 | -10,7445 | 1,11E-11 |
| GNE | -10,7755 | 9,68E-12 |
| DPYD | -10,7774 | 8,87E-12 |
| ROBO4 | -10,7797 | 1,87E-11 |
| NTM | -10,7891 | 9,45E-12 |
| C3AR1 | -10,8021 | 8,00E-12 |
| ZFP82 | -10,8237 | 7,44E-12 |
| RAB33A | -10,8389 | 6,77E-12 |
| CCNYL2 | -10,8847 | 5,52E-12 |
| CLEC2B | -10,8919 | 4,45E-12 |
| C1orf186 | -10,9004 | 4,25E-12 |
| FABP3 | -10,9012 | 4,23E-12 |
| CSF2 | -10,926 | 3,98E-12 |
| LY96 | -10,9265 | 6,12E-12 |
| SERPINB7 | -10,9401 | 5,35E-12 |
| EBI3 | -10,9431 | 3,61E-12 |
| NGF | -10,9494 | 3,56E-12 |

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| HOXA10-A | -10,9594 | 3,02E-12 |
| HOXD13 | -10,981 | 2,70E-12 |
| P3H3 | -10,9982 | 2,40E-12 |
| KL | -11,0334 | 9,06E-24 |
| MXRA5 | -11,0383 | 7,11E-09 |
| ADAMTS3 | -11,0572 | 2,18E-12 |
| PLA1A | -11,0711 | 1,54E-12 |
| SLC35F3 | -11,0757 | 1,57E-12 |
| PTGIS | -11,0815 | 2,91E-12 |
| TSPAN18 | -11,0863 | 3,37E-13 |
| MAMDC2 | -11,1102 | 1,24E-12 |
| CDH11 | -11,1139 | 1,21E-12 |
| ZFPM2-AS1 | -11,1205 | 1,18E-12 |
| FBLN7 | -11,1312 | 1,77E-12 |
| CCL28 | -11,1365 | 1,04E-12 |
| NPR2 | -11,1387 | 2,16E-13 |
| MYOM3 | -11,1409 | 1,07E-12 |
| AIM2 | -11,161 | 9,28E-13 |
| CXCL1 | -11,1668 | 8,76E-13 |
| NRN1 | -11,2129 | 8,65E-13 |
| COL4A2 | -11,2133 | 5,60E-144 |
| RAB42 | -11,2237 | 7,09E-13 |
| LINC00941 | -11,2272 | 6,15E-13 |
| ADAM12 | -11,2464 | 7,59E-70 |
| LINC00944 | -11,2555 | 5,11E-13 |
| TNFSF10 | -11,2596 | 1,63E-13 |
| CXCL2 | -11,269 | 5,01E-13 |
| C7orf31 | -11,2722 | 5,31E-13 |
| ANKRD1 | -11,289 | 9,39E-14 |
| PKIA | -11,2906 | 4,20E-13 |
| TINAGL1 | -11,2909 | 4,51E-13 |
| ZNF518B | -11,3181 | 4,47E-13 |
| BHLHE41 | -11,3221 | 7,41E-14 |
| CYBRD1 | -11,3236 | 3,88E-13 |
| ZNF626 | -11,3271 | 4,07E-13 |
| PAPPA | -11,3358 | 3,41E-13 |
| MMP3 | -11,3363 | 3,26E-13 |
| RGS20 | -11,3378 | 3,32E-13 |
| ZNF175 | -11,3405 | 3,59E-13 |
| IL1RL2 | -11,3545 | 2,90E-13 |
| MT1A | -11,3556 | 4,58E-13 |
| ARHGAP31 | -11,3585 | 5,88E-14 |
| LOC613266 | -11,3618 | 2,89E-13 |
| HRH1 | -11,3675 | 3,02E-13 |
| C2CD2 | -11,386 | 2,35E-13 |
| PDZK1IP1 | -11,3986 | 2,40E-13 |
| GSTP1 | -11,4077 | 2,08E-169 |
| GSPT2 | -11,4082 | 2,08E-13 |
| WT1 | -11,4267 | 2,32E-13 |
| AFAP1L1 | -11,4294 | 3,17E-26 |

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| CPNE8 | -11,4374 | 1,73E-13 |
| TGM2 | -11,4375 | 4,92E-173 |
| COL11A1 | -11,4379 | 2,07E-13 |
| LINC00942 | -11,489 | 2,83E-14 |
| TOX | -11,5192 | 1,77E-13 |
| PSMB8 | -11,5212 | 8,31E-51 |
| EPSTI1 | -11,5383 | 8,90E-27 |
| ZNF506 | -11,5523 | 1,11E-13 |
| MYHAS | -11,5796 | 8,90E-14 |
| PLAT | -11,5847 | 7,05E-14 |
| HAVCR1 | -11,5903 | 7,02E-14 |
| FRG1CP | -11,5959 | 6,59E-14 |
| HKDC1 | -11,6067 | 1,22E-39 |
| FIGN | -11,6099 | 6,07E-14 |
| ZNF300 | -11,6234 | 6,28E-14 |
| ZNF542P | -11,6235 | 5,84E-14 |
| THBS2 | -11,6306 | 5,39E-14 |
| DPP4 | -11,6348 | 5,25E-75 |
| TCF4 | -11,6415 | 9,15E-14 |
| SAA1 | -11,6434 | 6,79E-14 |
| HOXD9 | -11,6537 | 1,19E-13 |
| LOC100126 | -11,6614 | 4,51E-14 |
| GCNT3 | -11,6817 | 4,00E-14 |
| UGT2B7 | -11,684 | 8,06E-14 |
| BAALC | -11,6905 | 3,77E-14 |
| NEURL3 | -11,7099 | 3,35E-14 |
| LY6K | -11,7178 | 3,46E-14 |
| HMGA2 | -11,737 | 7,03E-15 |
| KCNJ12 | -11,7463 | 2,87E-14 |
| CTSZ | -11,7917 | 8,56E-162 |
| CDIP1 | -11,8046 | 1,86E-14 |
| CLEC4E | -11,8118 | 2,51E-14 |
| GPX7 | -11,8156 | 1,79E-14 |
| TNC | -11,8294 | 3,83E-105 |
| DGKI | -11,8809 | 1,20E-14 |
| STK33 | -11,8861 | 1,25E-14 |
| SIGMAR1 | -11,8976 | 1,27E-28 |
| SPINK1 | -11,9095 | 1,53E-14 |
| CACNA1C | -11,9211 | 2,59E-15 |
| GNG11 | -11,9392 | 9,04E-29 |
| C5orf42 | -11,9482 | 8,09E-15 |
| CNRIP1 | -11,9495 | 7,78E-15 |
| HOXA10 | -11,9647 | 6,96E-15 |
| FLG | -11,9655 | 7,89E-15 |
| ZCCHC11 | -11,9802 | 7,81E-15 |
| HSPB2 | -11,9985 | 5,80E-15 |
| RAB38 | -12,0208 | 5,27E-15 |
| COL5A3 | -12,0254 | 6,60E-15 |
| ZNF773 | -12,0318 | 5,32E-15 |
| SERPINB2 | -12,0419 | 8,12E-15 |

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| AFAP1-AS1 | -12,0562 | 4,04E-15 |
| CDHR1 | -12,0832 | 4,80E-15 |
| TRPA1 | -12,1117 | 2,83E-15 |
| AXL | -12,1402 | 1,85E-43 |
| SPP1 | -12,1505 | 1,75E-09 |
| SEMA5A | -12,156 | 2,18E-15 |
| CDK15 | -12,1574 | 2,59E-15 |
| ADRA1B | -12,1612 | 2,10E-15 |
| CD40 | -12,1758 | 1,99E-15 |
| PVRL3 | -12,1773 | 2,16E-15 |
| LINC01322 | -12,1952 | 1,86E-15 |
| MARCH4 | -12,1975 | 1,75E-15 |
| KCNK3 | -12,2106 | 4,47E-30 |
| PDPN | -12,2136 | 1,85E-15 |
| SMIM10 | -12,2334 | 1,46E-15 |
| SNHG18 | -12,24 | 1,68E-15 |
| MSC-AS1 | -12,297 | 9,07E-16 |
| C8orf88 | -12,306 | 8,47E-16 |
| PPAPDC1A | -12,3076 | 8,87E-16 |
| LPAR1 | -12,3167 | 7,95E-16 |
| SLITRK2 | -12,3389 | 6,89E-16 |
| LINC00667 | -12,348 | 6,56E-16 |
| DZIP1 | -12,3689 | 6,01E-16 |
| ITGB3 | -12,3767 | 1,68E-16 |
| ZFHX4 | -12,385 | 5,92E-16 |
| ZNF320 | -12,4327 | 4,14E-16 |
| MAGI2-AS3 | -12,4382 | 5,16E-16 |
| PTPRD | -12,4712 | 3,81E-16 |
| CDH6 | -12,5229 | 8,53E-17 |
| AGT | -12,5602 | 2,16E-16 |
| TCEAL8 | -12,5792 | 1,87E-16 |
| RUNX1T1 | -12,5902 | 1,54E-16 |
| CHRD1 | -12,655 | 1,00E-16 |
| C10orf128 | -12,6674 | 8,93E-17 |
| CST7 | -12,7402 | 6,73E-17 |
| MOXD1 | -12,7699 | 5,13E-17 |
| MT1M | -12,8442 | 2,94E-17 |
| NRG1 | -12,8681 | 2,50E-17 |
| VCAM1 | -12,8701 | 3,75E-17 |
| SFRP2 | -12,8766 | 2,44E-17 |
| LINC00839 | -12,8942 | 2,24E-17 |
| CD70 | -12,8984 | 1,52E-33 |
| NID2 | -12,9062 | 2,63E-17 |
| IFI16 | -12,9866 | 4,48E-34 |
| COL4A1 | -13,0038 | 6,25E-50 |
| AKT3 | -13,0789 | 6,91E-18 |
| RRAD | -13,0799 | 6,57E-18 |
| PRKCDBP | -13,0801 | 6,61E-18 |
| ZEB2 | -13,0848 | 6,33E-18 |
| LAMA1 | -13,1172 | 9,05E-18 |

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| VSTM4 | -13,1245 | 4,91E-18 |
| PAX6 | -13,1605 | 4,09E-18 |
| AK5 | -13,1737 | 3,70E-18 |
| IGF2BP3 | -13,1822 | 3,40E-18 |
| SLC35G2 | -13,2084 | 2,87E-18 |
| NRIP3 | -13,2106 | 3,11E-18 |
| EVC | -13,2346 | 2,43E-18 |
| IGFBP7 | -13,2746 | 2,41E-18 |
| MMP2 | -13,2778 | 2,56E-52 |
| MT1E | -13,3191 | 1,45E-18 |
| ADAMTS1 | -13,3417 | 4,13E-19 |
| ABCA1 | -13,4328 | 8,21E-19 |
| GOS2 | -13,4424 | 6,32E-19 |
| CHST2 | -13,4509 | 6,01E-19 |
| SALL1 | -13,4516 | 6,04E-19 |
| SGCE | -13,4661 | 5,46E-19 |
| NT5E | -13,5257 | 3,70E-19 |
| COL1A2 | -13,5417 | 3,98E-19 |
| PREX2 | -13,5597 | 2,96E-19 |
| STAC | -13,6085 | 2,22E-19 |
| LAYN | -13,6136 | 2,06E-19 |
| KIAA1644 | -13,6265 | 1,91E-19 |
| STK32B | -13,6277 | 1,91E-19 |
| MMP1 | -13,6351 | 1,80E-19 |
| DFNA5 | -13,7717 | 9,23E-20 |
| BHMT2 | -13,8131 | 5,89E-20 |
| PLAU | -13,821 | 7,77E-20 |
| APCDD1L | -13,831 | 5,24E-20 |
| NIPAL4 | -13,9025 | 3,04E-20 |
| ATP10A | -13,9469 | 2,33E-20 |
| AKR1B1 | -13,9741 | 3,08E-109 |
| EPB41L3 | -13,975 | 1,88E-20 |
| GJB6 | -14,0054 | 1,60E-20 |
| GPX1 | -14,0139 | 1,59E-20 |
| RAC2 | -14,0753 | 9,69E-21 |
| PTPRM | -14,079 | 1,05E-20 |
| MSC | -14,1435 | 6,27E-21 |
| CXCL5 | -14,3169 | 2,47E-21 |
| HNF1B | -14,3342 | 1,66E-21 |
| EMC10 | -14,343 | 2,02E-21 |
| RARRES2 | -14,5124 | 5,19E-22 |
| ALPK2 | -14,5369 | 4,10E-22 |
| MXRA8 | -14,5795 | 3,28E-22 |
| CNN3 | -14,5938 | 9,24E-23 |
| NNMT | -14,6016 | 2,74E-22 |
| SNAI2 | -14,6086 | 2,50E-22 |
| EFEMP2 | -14,7732 | 9,09E-23 |
| APBB1IP | -14,9877 | 2,23E-23 |
| WBP5 | -15,1818 | 4,36E-24 |
| KIRREL | -15,1852 | 4,27E-24 |

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| ETS1 | -15,1972 | 3,95E-24 |
| GYPC | -15,2451 | 2,79E-24 |
| ANGPTL2 | -15,2539 | 2,83E-24 |
| SPARC | -15,2721 | 2,30E-24 |
| INHBA | -15,3525 | 2,01E-24 |
| LRRN4 | -15,3565 | 1,24E-24 |
| NEFL | -15,4352 | 7,02E-25 |
| GREM1 | -15,4358 | 6,98E-25 |
| CRYAB | -15,6792 | 1,16E-25 |
| TNFRSF9 | -15,8655 | 3,56E-26 |
| IGFN1 | -16,1128 | 4,70E-27 |
| MYL9 | -16,3182 | 9,98E-28 |
| FLNC | -16,9895 | 6,22E-30 |
| ANPEP | -17,3129 | 4,62E-31 |

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| Gene | log2FoldCh FDR | |
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| CDH1 | 16,24549 | 3,32E-27 |
| MYH14 | 15,35603 | 1,56E-23 |
| FREM2 | 15,14729 | 6,40E-24 |
| FBP1 | 14,94056 | 4,52E-23 |
| TFF1 | 14,61192 | 4,69E-16 |
| MEST | 14,59194 | 2,96E-22 |
| CLDN7 | 14,58601 | 3,29E-22 |
| LDOC1 | 14,53042 | 1,19E-21 |
| FOXA1 | 14,5052 | 5,34E-22 |
| ST14 | 14,45569 | 3,13E-21 |
| PROM2 | 14,43087 | 1,62E-13 |
| TSPYL5 | 14,39724 | 1,15E-21 |
| PTEN | 14,25457 | 4,15E-21 |
| TACSTD2 | 14,24217 | 5,33E-21 |
| ABCA3 | 14,10189 | 5,63E-20 |
| PRSS8 | 14,09338 | 8,85E-21 |
| GRHL2 | 14,09299 | 2,21E-20 |
| RAB25 | 14,05204 | 1,78E-20 |
| FAM83H | 14,04163 | 3,38E-21 |
| EVPL | 13,75986 | 1,30E-19 |
| EPN3 | 13,74184 | 1,51E-19 |
| TJP3 | 13,55396 | 5,14E-18 |
| SBK1 | 13,48524 | 4,96E-19 |
| FLRT3 | 13,26207 | 2,57E-18 |
| TMEM30B | 13,26057 | 3,03E-18 |
| ZNF467 | 13,24221 | 2,97E-18 |
| CLDN3 | 13,14161 | 1,16E-18 |
| DSCAM-AS1 | 13,11244 | 2,10E-10 |
| RHOD | 13,08213 | 3,59E-17 |
| CAMSAP3 | 13,0443 | 8,95E-18 |
| TC2N | 13,01729 | 3,38E-17 |
| VPS9D1-AS1 | 12,89786 | 6,72E-18 |
| RTN4RL1 | 12,88886 | 2,46E-17 |
| SLC27A2 | 12,87346 | 3,07E-17 |
| BSPRY | 12,84256 | 4,64E-17 |
| LRRC61 | 12,74533 | 1,47E-16 |
| GGT6 | 12,73926 | 1,09E-15 |
| WDR72 | 12,71727 | 7,32E-17 |
| CDH3 | 12,6764 | 9,27E-48 |
| DLX3 | 12,55459 | 6,46E-16 |
| PRR15L | 12,55326 | 5,68E-16 |
| KIAA1324L | 12,52434 | 2,50E-16 |
| MGMT | 12,50213 | 5,40E-16 |
| LONRF2 | 12,47675 | 2,04E-15 |
| IRX2 | 12,4731 | 3,56E-16 |
| MAL2 | 12,42992 | 3,90E-31 |
| AK7 | 12,38216 | 6,38E-16 |
| ALDH3B2 | 12,37771 | 6,87E-15 |

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| KCNC3 | 12,33815 | 1,38E-15 |
| SYK | 12,24432 | 1,52E-15 |
| TSTD1 | 12,22836 | 1,43E-15 |
| KIF26A | 12,14861 | 1,05E-14 |
| KREMEN2 | 12,10932 | 8,30E-16 |
| KRTAP5-AS | 12,09343 | 1,46E-05 |
| PCDHA11 | 12,07078 | 7,17E-15 |
| GALNT6 | 12,03779 | 3,04E-15 |
| CBFA2T3 | 12,03195 | 4,87E-15 |
| RHPN1 | 12,0286 | 6,39E-15 |
| RBBP8NL | 12,00634 | 9,02E-15 |
| CDC42BPG | 12,00387 | 1,34E-14 |
| SHANK2 | 11,98659 | 6,24E-15 |
| OPLAH | 11,94905 | 9,26E-15 |
| CYP2S1 | 11,92965 | 9,65E-14 |
| ARHGEF5 | 11,86049 | 2,77E-14 |
| DNAJA4 | 11,83448 | 2,83E-14 |
| SULT2B1 | 11,82982 | 3,01E-14 |
| PCSK1N | 11,81584 | 1,86E-14 |
| OLFM1 | 11,8071 | 1,85E-14 |
| SCN4A | 11,80472 | 2,86E-05 |
| GLB1L2 | 11,79534 | 2,04E-14 |
| ATAD1 | 11,77741 | 3,71E-15 |
| SULT1A1 | 11,73659 | 3,38E-07 |
| HENMT1 | 11,7178 | 3,25E-14 |
| HOOK1 | 11,69374 | 3,64E-14 |
| FAM213A | 11,62268 | 1,28E-36 |
| BCAS1 | 11,62091 | 0,000106 |
| NCAM2 | 11,60922 | 2,09E-13 |
| ESPN | 11,60716 | 8,04E-13 |
| ACTA2 | 11,58733 | 0,000115 |
| ALOX15 | 11,58112 | 2,39E-12 |
| TMEM45B | 11,56227 | 8,02E-14 |
| KDF1 | 11,56133 | 9,79E-14 |
| RASGEF1A | 11,51015 | 1,68E-13 |
| GALNT14 | 11,50929 | 1,10E-13 |
| ATP6V0E2 | 11,48138 | 1,12E-35 |
| SMIM22 | 11,46826 | 2,15E-13 |
| EPHA1 | 11,43819 | 2,54E-13 |
| ALG1L | 11,42674 | 1,34E-12 |
| MINPP1 | 11,42559 | 2,06E-13 |
| MNX1 | 11,41998 | 2,03E-13 |
| EPCAM | 11,36311 | 7,94E-97 |
| ASCL2 | 11,34691 | 1,26E-12 |
| C5orf38 | 11,33847 | 5,62E-13 |
| PCP4 | 11,33512 | 3,90E-13 |
| FGD3 | 11,30596 | 2,94E-12 |
| MNX1-AS1 | 11,30108 | 1,06E-12 |
| OVOL1 | 11,2161 | 2,06E-12 |
| PACSIN1 | 11,2046 | 3,87E-12 |

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| SYT17 | 11,20404 | 6,80E-13 |
| CRB3 | 11,20301 | 2,04E-12 |
| ENTPD2 | 11,20015 | 2,14E-12 |
| ARHGDIG | 11,18929 | 7,66E-13 |
| BMP7 | 11,1617 | 1,28E-98 |
| TMPRSS13 | 11,14819 | 1,74E-12 |
| TDRD1 | 11,14106 | 9,97E-13 |
| ILDR1 | 11,13534 | 1,05E-12 |
| RDH16 | 11,09279 | 1,80E-12 |
| PKP2 | 11,06412 | 9,06E-13 |
| RANBP17 | 11,06342 | 2,72E-12 |
| DPYSL5 | 11,02111 | 3,35E-12 |
| CACNA1D | 11,02053 | 2,02E-12 |
| KCNK15 | 11,00214 | 2,73E-12 |
| SUSD3 | 10,99938 | 4,34E-11 |
| FXD3 | 10,98706 | 9,05E-12 |
| CST1 | 10,9382 | 4,11E-12 |
| C5AR2 | 10,93437 | 1,79E-11 |
| MB | 10,92883 | 3,48E-12 |
| ELF3 | 10,90146 | 8,93E-12 |
| RGMA | 10,88557 | 8,01E-12 |
| ESRP1 | 10,87263 | 7,92E-79 |
| KNDC1 | 10,84753 | 8,00E-11 |
| SPDEF | 10,84685 | 1,28E-10 |
| LRP2 | 10,81226 | 3,10E-06 |
| MAPT | 10,80644 | 1,45E-12 |
| PLEKHG6 | 10,80455 | 3,67E-11 |
| HPN | 10,79524 | 1,28E-11 |
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| ARHGAP44 | 10,7714 | 9,38E-12 |
| RET | 10,76546 | 9,36E-11 |
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| PLXNA4 | 10,74637 | 2,05E-11 |
| DSP | 10,72046 | 3,70E-23 |
| BCL11B | 10,71768 | 5,11E-23 |
| SPESP1 | 10,70694 | 2,31E-11 |
| KCNH2 | 10,69945 | 1,35E-11 |
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| RAB17 | 10,66524 | 3,08E-11 |
| KRT19 | 10,65595 | 0,000397 |
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| TMEM125 | 10,64219 | 1,91E-11 |
| FUOM | 10,58554 | 3,09E-11 |
| PDE3B | 10,56627 | 3,63E-11 |
| ODAM | 10,56 | 3,08E-11 |
| CEACAM21 | 10,55097 | 3,60E-11 |
| ARHGEF35 | 10,5462 | 5,20E-11 |
| CLDN4 | 10,5436 | 4,39E-12 |
| KRT8 | 10,53244 | 9,07E-214 |
| TDRD5 | 10,52688 | 5,81E-11 |

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| TSPEAR | 10,51904 | 1,01E-10 |
| MYRIP | 10,51759 | 9,54E-11 |
| FAM83B | 10,50541 | 4,95E-12 |
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| MPZL2 | 10,43594 | 1,47E-10 |
| PCDHA10 | 10,43252 | 8,62E-11 |
| LXN | 10,42774 | 3,84E-09 |
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| DEF6 | 10,39038 | 8,19E-11 |
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| CASC9 | 10,35849 | 9,97E-11 |
| LAD1 | 10,35666 | 6,90E-09 |
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| EPHX2 | 10,29792 | 2,60E-10 |
| PCDHA12 | 10,29065 | 2,38E-10 |
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| HPDL | 10,27349 | 1,74E-10 |
| HLA-DQB1 | 10,26236 | 9,71E-09 |
| ANXA9 | 10,25541 | 6,21E-11 |
| FAS | 10,25158 | 1,35E-08 |
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| CNTNAP2 | 10,24791 | 2,70E-10 |
| CXCR4 | 10,22588 | 2,44E-10 |
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| RNLS | 10,18416 | 2,90E-10 |
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| DLGAP3 | 10,16469 | 3,06E-10 |
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| ERBB4 | 10,07289 | 8,35E-10 |
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| BATF | 9,991254 | 2,08E-09 |

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| SLAIN1 | 9,986032 | 1,44E-09 |
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| FAR2P1 | 9,903022 | 1,16E-08 |
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| KCNQ1OT1 | 9,809243 | 1,18E-08 |
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| YBX2 | 9,554859 | 3,20E-40 |
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| SLITRK4 | 9,546149 | 1,53E-08 |

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| PLEK2 | 9,540143 | 1,13E-08 |
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| PRSS22 | 9,493024 | 3,50E-08 |
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| PLBD1 | 9,45903 | 3,21E-08 |
| POU3F3 | 9,442036 | 5,03E-08 |
| FUT9 | 9,441243 | 1,98E-08 |
| LRRC37A4F | 9,435716 | 2,87E-08 |
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| GCHFR | 9,324896 | 4,52E-08 |
| ARHGEF34I | 9,316949 | 5,33E-08 |
| SFN | 9,310413 | 4,99E-57 |
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| SLC22A31 | 9,243672 | 7,13E-08 |
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| COL4A5 | 9,188706 | 1,97E-07 |
| BGN | 9,186107 | 0,000108 |
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| DNAAF3 | 9,167051 | 2,76E-16 |
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| NDRG4 | 9,14276 | 2,04E-08 |
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| LINC00669 | 9,127202 | 1,80E-07 |
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| BLNK | 9,107003 | 4,89E-06 |
| LINC00992 | 9,099839 | 1,57E-07 |
| ZNF876P | 9,095636 | 1,42E-07 |

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| NRG3 | 9,087924 | 2,62E-07 |
| SHANK1 | 9,074903 | 5,33E-07 |
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| CHGA | 9,038466 | 9,76E-09 |
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| ABCA12 | 8,934548 | 2,99E-08 |
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| LHX1 | 8,925827 | 4,45E-07 |
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| AEBP1 | 8,893221 | 7,27E-07 |
| RADIL | 8,892404 | 1,79E-06 |
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| SVIP | 8,887158 | 5,20E-15 |
| CALCR | 8,884156 | 6,98E-07 |
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| SERPINB5 | 8,839418 | 1,40E-05 |
| LCN2 | 8,835751 | 3,23E-06 |

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| PRODH | 8,83185 | 7,43E-05 |
| MCF2L | 8,831685 | 6,02E-07 |
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| MMP11 | 8,823969 | 6,28E-07 |
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| TPTE | 8,808062 | 7,99E-07 |
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| PKP1 | 8,792592 | 3,89E-12 |
| PLD6 | 8,790537 | 1,54E-18 |
| DSCAM | 8,787981 | 2,15E-06 |
| ADAMTS19 | 8,787722 | 8,07E-07 |
| PPL | 8,758003 | 6,47E-11 |
| ARHGEF37 | 8,75682 | 5,03E-08 |
| SLC25A21-1 | 8,746969 | 1,39E-05 |
| KRT23 | 8,734418 | 1,03E-06 |
| LINC00664 | 8,731125 | 2,32E-06 |
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| SIGIRR | 8,71851 | 1,71E-07 |
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| EFS | 8,710633 | 2,89E-14 |
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| CARD14 | 8,63387 | 3,17E-06 |
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| DACH1 | 8,628135 | 1,82E-06 |
| FCHO1 | 8,62472 | 5,49E-48 |
| MYRFL | 8,610504 | 3,64E-05 |
| FAM81B | 8,602409 | 3,02E-06 |
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| GREB1L | 8,568589 | 1,03E-06 |
| TM7SF2 | 8,56803 | 8,93E-52 |
| MYO7A | 8,552665 | 2,71E-06 |
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| LINC01006 | 8,535568 | 3,18E-06 |
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| PRRT4 | 8,522529 | 3,78E-06 |
| TMEM132f | 8,494611 | 0,000215 |
| FAM155B | 8,480267 | 1,87E-13 |
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| PAX2 | 8,443431 | 0,00015 |
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| PVALB | 8,434103 | 1,60E-05 |
| RASL11B | 8,433983 | 2,88E-13 |
| CES3 | 8,43121 | 6,76E-06 |
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| GUCY1B2 | 8,403746 | 2,06E-05 |
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| PIP5K1B | 8,38748 | 8,03E-06 |
| IGFL1 | 8,368845 | 0,00032 |
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| CCDC64 | 8,366617 | 5,07E-13 |
| ATP2A3 | 8,36593 | 2,76E-05 |
| SERPINA3 | 8,354908 | 1,92E-05 |
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| TESC | 8,353503 | 9,39E-06 |
| NODAL | 8,350848 | 1,48E-05 |
| PPP2R2C | 8,343402 | 1,10E-74 |
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| SLC6A14 | 8,327831 | 9,64E-06 |
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| CRACR2B | 8,2887 | 4,53E-18 |
| TRPM2-AS | 8,287204 | 1,08E-05 |
| GPR37L1 | 8,27392 | 1,45E-05 |
| HIST1H2BH | 8,270525 | 1,31E-05 |
| FOXA2 | 8,262029 | 1,22E-05 |
| AKR1C2 | 8,261782 | 4,76E-10 |
| PTK6 | 8,259555 | 4,96E-07 |
| SORL1 | 8,256916 | 1,98E-12 |
| HS6ST3 | 8,253478 | 1,49E-05 |
| MAPK15 | 8,239561 | 3,35E-05 |
| TARP | 8,234812 | 7,05E-05 |
| NELL2 | 8,234098 | 2,29E-05 |
| F7 | 8,232471 | 6,15E-05 |
| PAH | 8,227019 | 1,91E-05 |
| LIPA | 8,225091 | 5,91E-05 |
| UNC5A | 8,223509 | 1,71E-05 |
| SLC52A3 | 8,220589 | 2,63E-05 |
| KLHL35 | 8,210848 | 1,80E-05 |
| C2CD4D | 8,205005 | 1,92E-05 |
| LOC728673 | 8,180486 | 0,00011 |
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| LRG1 | 8,161452 | 0,000121 |
| FLT3 | 8,149887 | 2,16E-05 |
| TTC39A | 8,147831 | 5,43E-05 |
| CKMT1A | 8,1474 | 1,08E-22 |

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| TRPV6 | 8,146199 | 2,32E-05 |
| TEX19 | 8,146145 | 8,57E-07 |
| RENBP | 8,143655 | 3,54E-05 |
| WFDC2 | 8,134983 | 4,75E-05 |
| FOXI3 | 8,109154 | 2,98E-05 |
| VAMP8 | 8,099225 | 3,43E-34 |
| FA2H | 8,096887 | 1,09E-09 |
| POU6F2 | 8,091036 | 3,27E-05 |
| COLCA1 | 8,084504 | 3,58E-05 |
| IFIT3 | 8,082923 | 9,03E-05 |
| RAPGEF5 | 8,062148 | 4,03E-05 |
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| IGSF11 | 8,045618 | 3,56E-05 |
| TTYH1 | 8,037787 | 0,000168 |
| NOXA1 | 8,032895 | 0,000109 |
| APOA1 | 8,028889 | 4,58E-05 |
| MARVELD3 | 8,027258 | 2,86E-30 |
| SLC52A1 | 8,006725 | 0,000156 |
| MGC32805 | 8,005685 | 0,000145 |
| TENM4 | 7,998212 | 2,59E-06 |
| STK31 | 7,992194 | 6,83E-05 |
| GATA3-AS1 | 7,985983 | 5,56E-05 |
| CD8A | 7,977994 | 1,61E-06 |
| TFR2 | 7,971348 | 2,03E-06 |
| TH | 7,966514 | 9,09E-05 |
| RDM1 | 7,948966 | 7,13E-05 |
| XG | 7,946875 | 0,000756 |
| ADAMTSL3 | 7,945766 | 8,20E-05 |
| ADGRE2 | 7,941957 | 2,28E-06 |
| TMEM105 | 7,93714 | 0,000106 |
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| PMEL | 7,930398 | 1,42E-05 |
| LOC440461 | 7,927139 | 0,000147 |
| ARL11 | 7,925278 | 7,06E-05 |
| BARX2 | 7,912836 | 0,0003 |
| EMCN | 7,911873 | 7,86E-05 |
| LINC00885 | 7,908124 | 0,000373 |
| EWSAT1 | 7,895836 | 0,000134 |
| IGSF1 | 7,892342 | 0,000389 |
| LRRC10B | 7,878794 | 0,000161 |
| FAM3B | 7,875932 | 5,09E-16 |
| ATP8A1 | 7,870906 | 0,000114 |
| KRTAP4-1 | 7,860407 | 0,00015 |
| GPM6B | 7,854019 | 8,99E-05 |
| SIDT1 | 7,832202 | 6,78E-11 |
| CCT6B | 7,830771 | 3,60E-06 |
| SEPP1 | 7,825066 | 0,000387 |
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| CYP4F22 | 7,82295 | 0,00014 |
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| C19orf33 | 7,815112 | 7,62E-19 |
| CALML5 | 7,813271 | 0,000195 |
| GJB5 | 7,813129 | 0,000581 |
| CCSER1 | 7,810611 | 0,000138 |
| C17orf104 | 7,805871 | 1,16E-05 |
| RNF223 | 7,796929 | 1,24E-10 |
| SGCG | 7,796395 | 0,000293 |
| TLX1NB | 7,789734 | 0,000121 |
| GJD3 | 7,778159 | 0,000206 |
| HBA1 | 7,777769 | 7,44E-06 |
| TMC6 | 7,761111 | 2,64E-31 |
| TTC6 | 7,749204 | 0,000161 |
| KLB | 7,749204 | 0,000161 |
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| KIF12 | 7,735278 | 0,000162 |
| PRRG2 | 7,72974 | 5,54E-10 |
| CAPN9 | 7,727874 | 0,0002 |
| DEFB126 | 7,721212 | 0,000167 |
| FAM84B | 7,719291 | 5,00E-60 |
| VANGL2 | 7,714496 | 0,000182 |
| LMX1B | 7,711987 | 7,61E-15 |
| SMTNL2 | 7,700231 | 0,000208 |
| LY6G5C | 7,695686 | 0,000216 |
| CELF3 | 7,673878 | 0,000318 |
| PNMA6A | 7,673535 | 0,000275 |
| C2orf15 | 7,672674 | 3,14E-22 |
| PDGFB | 7,672541 | 1,44E-18 |
| FCGBP | 7,66317 | 0,000477 |
| ACTR3C | 7,640533 | 7,31E-06 |
| SYTL1 | 7,639905 | 7,84E-22 |
| SMPDL3B | 7,634803 | 4,66E-42 |
| GOLT1A | 7,63441 | 3,46E-10 |
| NEBL | 7,634259 | 1,06E-37 |
| COL26A1 | 7,630878 | 0,000708 |
| TTC9 | 7,627016 | 9,61E-46 |
| SLC5A5 | 7,626837 | 0,000568 |
| CEACAM5 | 7,609003 | 0,000641 |
| KCNJ4 | 7,608023 | 0,0003 |
| PLEKHA6 | 7,601151 | 1,01E-36 |
| NUP62CL | 7,600453 | 1,13E-05 |
| LINC00494 | 7,597256 | 0,000287 |
| LRRIQ1 | 7,593199 | 0,000301 |
| GADD45G | 7,576983 | 1,41E-11 |
| PGM5 | 7,574964 | 1,42E-05 |
| CNTNAP3 | 7,574928 | 0,000324 |
| IRF6 | 7,572653 | 3,26E-20 |
| LLGL2 | 7,572583 | 2,73E-99 |
| SMIM10L2 | 7,569862 | 0,000715 |
| KRTCAP3 | 7,569617 | 2,93E-05 |

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| CA4 | 7,565268 | 0,000413 |
| ZMAT1 | 7,560997 | 0,000134 |
| SAMD12-A | 7,555879 | 0,000425 |
| FAM69B | 7,550317 | 6,51E-10 |
| LINC00959 | 7,537105 | 1,21E-05 |
| FAM83F | 7,531069 | 0,000854 |
| LINC01132 | 7,530793 | 4,18E-05 |
| MIPOL1 | 7,527291 | 1,69E-17 |
| RGS16 | 7,523659 | 1,78E-15 |
| ADIRF | 7,515006 | 4,75E-22 |
| RNF208 | 7,512477 | 4,34E-25 |
| BRINP2 | 7,507628 | 0,000793 |
| PARD6A | 7,494912 | 2,53E-09 |
| NMNAT3 | 7,484871 | 0,000616 |
| SRCIN1 | 7,477111 | 1,48E-05 |
| KLF8 | 7,469626 | 0,000571 |
| MIR4664 | 7,463123 | 0,00051 |
| MARC1 | 7,449949 | 6,27E-37 |
| MMP25 | 7,445639 | 0,001008 |
| GJB2 | 7,43331 | 4,55E-15 |
| GALNT12 | 7,428349 | 2,06E-25 |
| PLA2G3 | 7,418329 | 8,10E-05 |
| SLC29A2 | 7,393181 | 2,35E-72 |
| IGFBP2 | 7,385031 | 4,01E-95 |
| LRFN5 | 7,379804 | 0,000724 |
| FBXO15 | 7,375015 | 2,41E-05 |
| ARHGEF4 | 7,370379 | 2,44E-05 |
| SSPO | 7,359208 | 0,001006 |
| PACRG | 7,347401 | 0,000852 |
| SOX11 | 7,343542 | 0,00093 |
| MYO1D | 7,342558 | 1,96E-48 |
| PDIA2 | 7,330594 | 0,000874 |
| SERPINB9 | 7,318514 | 0,000985 |
| CHDH | 7,306898 | 9,05E-14 |
| C19orf81 | 7,302843 | 3,24E-05 |
| SYT7 | 7,283569 | 6,65E-121 |
| PRSS16 | 7,274596 | 5,68E-19 |
| CTSH | 7,271008 | 3,53E-30 |
| PTPN6 | 7,236856 | 9,64E-30 |
| MTMR7 | 7,234617 | 4,15E-05 |
| MFAP3L | 7,215599 | 6,11E-17 |
| ESR1 | 7,213263 | 2,91E-90 |
| HES2 | 7,188075 | 8,56E-11 |
| ASCL4 | 7,183905 | 0,000159 |
| GRTP1 | 7,163469 | 6,81E-22 |
| TMEM178E | 7,144543 | 6,96E-16 |
| AREG | 7,140333 | 2,70E-22 |
| AP1G2 | 7,130318 | 5,95E-46 |
| STXBP2 | 7,130315 | 1,78E-50 |
| PCDH19 | 7,127594 | 0,000118 |

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| NUP210L | 7,124306 | 3,49E-21 |
| TGFA | 7,119404 | 2,55E-10 |
| SGPP2 | 7,095343 | 9,81E-05 |
| RND2 | 7,087736 | 2,23E-14 |
| MACROD2 | 7,080658 | 0,000122 |
| APCDD1 | 7,073009 | 2,28E-150 |
| MYH10 | 7,061379 | 2,90E-95 |
| SLC9A2 | 7,053841 | 8,16E-07 |
| SHC2 | 7,025935 | 0,000198 |
| TEX40 | 7,016979 | 0,000103 |
| XKRX | 6,995134 | 0,00019 |
| BMP8B | 6,992383 | 0,000116 |
| JUP | 6,980856 | 6,45E-77 |
| CYFIP2 | 6,980282 | 9,45E-26 |
| ASCL5 | 6,979145 | 0,000116 |
| TAPT1-AS1 | 6,977603 | 0,000118 |
| SLC24A3 | 6,971819 | 6,58E-11 |
| MAP7 | 6,943895 | 3,30E-58 |
| RUNDC3A- | 6,925675 | 1,01E-08 |
| DENND2D | 6,920858 | 2,69E-31 |
| SNAR-E | 6,91235 | 0,000281 |
| PEX11G | 6,910168 | 0,00024 |
| CAMK2B | 6,905645 | 1,37E-10 |
| NPY1R | 6,890461 | 1,21E-26 |
| RIMKLA | 6,888163 | 4,86E-13 |
| PRPH | 6,880054 | 1,52E-07 |
| ITGB4 | 6,877874 | 1,07E-54 |
| SLC25A21 | 6,866657 | 0,000197 |
| PKIB | 6,861312 | 9,83E-66 |
| ZNF730 | 6,858894 | 2,46E-07 |
| P2RY2 | 6,847294 | 1,29E-53 |
| ZNF98 | 6,844458 | 0,000337 |
| PLEKHA7 | 6,838324 | 5,28E-38 |
| SLC26A4-A' | 6,837449 | 3,14E-10 |
| MYO15B | 6,824341 | 0,000235 |
| LINC00649 | 6,815252 | 0,000222 |
| AMIGO1 | 6,813703 | 2,30E-07 |
| MUC1 | 6,81276 | 2,85E-31 |
| GYLTL1B | 6,812605 | 1,71E-41 |
| GRB7 | 6,800173 | 0,000349 |
| HCN4 | 6,787267 | 2,04E-12 |
| NCKAP5 | 6,77418 | 9,00E-10 |
| CPT1C | 6,769598 | 1,74E-06 |
| LOC28333E | 6,766516 | 0,000526 |
| LAMA5 | 6,747195 | 7,49E-119 |
| PCSK9 | 6,741894 | 5,53E-08 |
| CERS4 | 6,735718 | 2,18E-15 |
| NEB | 6,712771 | 2,67E-32 |
| KRT18 | 6,69601 | 1,25E-75 |
| N4BP3 | 6,689326 | 2,70E-38 |

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| ERVMER34 | 6,688441 | 1,35E-11 |
| MAML3 | 6,659202 | 2,80E-09 |
| BCAS3 | 6,656402 | 2,69E-111 |
| GRID1 | 6,63447 | 0,000518 |
| CYP1A1 | 6,610682 | 2,87E-08 |
| MARVELD2 | 6,607205 | 1,03E-46 |
| ZFP2 | 6,59261 | 0,000837 |
| PTP4A3 | 6,591209 | 1,04E-33 |
| SPTSSB | 6,540157 | 2,72E-25 |
| LYPD3 | 6,524072 | 3,44E-25 |
| PCDHB3 | 6,490967 | 3,17E-35 |
| ADGRV1 | 6,486729 | 2,49E-09 |
| ELF5 | 6,47932 | 5,44E-08 |
| MYO5C | 6,471855 | 9,63E-111 |
| RHOV | 6,460515 | 1,85E-24 |
| PDE9A | 6,450285 | 4,00E-06 |
| POTEF | 6,442483 | 0,000929 |
| ARHGEF16 | 6,431107 | 2,55E-38 |
| PARD6B | 6,421064 | 8,01E-90 |
| LOC148705 | 6,399633 | 3,43E-08 |
| DDIT4L | 6,394367 | 8,99E-15 |
| NUTM2A-A | 6,386043 | 1,92E-13 |
| FLT4 | 6,379815 | 2,98E-05 |
| TPD52L1 | 6,362162 | 2,25E-64 |
| MALRD1 | 6,359698 | 1,23E-08 |
| TMEM238 | 6,355039 | 3,48E-13 |
| KHK | 6,345511 | 4,79E-47 |
| FDXR | 6,340828 | 3,59E-27 |
| ARVCF | 6,336343 | 2,49E-41 |
| F11R | 6,323727 | 1,64E-125 |
| TP53TG1 | 6,322496 | 3,21E-25 |
| RAP1GAP2 | 6,311451 | 8,70E-43 |
| FAM174B | 6,30983 | 9,86E-26 |
| C9orf152 | 6,309106 | 1,59E-27 |
| SYNE4 | 6,251443 | 5,70E-34 |
| LMTK3 | 6,250339 | 1,71E-13 |
| C19orf57 | 6,24983 | 5,03E-05 |
| CGREF1 | 6,236894 | 1,81E-49 |
| C4orf19 | 6,23135 | 1,61E-05 |
| TNFAIP8L3 | 6,199209 | 3,18E-24 |
| NUDT7 | 6,196253 | 1,55E-05 |
| ZNF185 | 6,170264 | 3,48E-21 |
| ZP3 | 6,165715 | 5,28E-38 |
| CCDC88C | 6,161807 | 1,03E-55 |
| MTSS1 | 6,152723 | 2,65E-13 |
| VRK2 | 6,124443 | 1,36E-33 |
| BIK | 6,124198 | 1,25E-07 |
| CGN | 6,112954 | 1,89E-48 |
| ADCY1 | 6,111209 | 1,80E-21 |
| INHA | 6,104441 | 0,000352 |

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| SORBS1 | 6,094391 | 2,89E-05 |
| KLHL29 | 6,08606 | 4,80E-05 |
| NES | 6,070829 | 1,33E-19 |
| FAM83E | 6,06971 | 9,52E-05 |
| CKMT1B | 6,069641 | 3,94E-46 |
| MIR4737 | 6,063405 | 6,37E-05 |
| C2orf81 | 6,038763 | 6,82E-10 |
| FGFR4 | 6,0372 | 2,46E-59 |
| DLG3 | 6,004633 | 4,99E-74 |
| ADAMTS13 | 5,996542 | 1,99E-06 |
| TMEM52 | 5,991969 | 3,25E-10 |
| CTXN1 | 5,974623 | 2,54E-61 |
| STARD10 | 5,962318 | 7,72E-57 |
| KYNU | 5,905472 | 2,19E-23 |
| LLPH-AS1 | 5,905095 | 8,60E-05 |
| ALDOC | 5,899758 | 1,37E-26 |
| ZSCAN12P1 | 5,898727 | 4,96E-09 |
| PCDH1 | 5,882769 | 5,82E-37 |
| ACSS3 | 5,842497 | 2,49E-113 |
| ANXA3 | 5,839988 | 8,47E-08 |
| CELF5 | 5,831815 | 1,40E-06 |
| GSTO2 | 5,829613 | 1,53E-37 |
| ENTPD1 | 5,828168 | 1,10E-13 |
| ZNF385C | 5,8187 | 5,33E-06 |
| CSPG5 | 5,796263 | 1,44E-08 |
| HLA-DRB1 | 5,796008 | 2,10E-07 |
| PAIP2B | 5,794132 | 2,05E-26 |
| RBM47 | 5,787323 | 5,15E-51 |
| XK | 5,784482 | 1,88E-06 |
| DMKN | 5,777436 | 2,76E-18 |
| TENM1 | 5,775708 | 2,03E-05 |
| NRXN3 | 5,772173 | 1,90E-07 |
| CELSR2 | 5,76953 | 1,10E-85 |
| RIMS4 | 5,756278 | 3,63E-13 |
| GLDN | 5,7511 | 0,000244 |
| ACBD4 | 5,749028 | 0,000131 |
| WNK2 | 5,739795 | 1,04E-43 |
| NRARP | 5,733828 | 2,72E-23 |
| ITGA2B | 5,72789 | 6,04E-07 |
| VAV1 | 5,717267 | 3,54E-10 |
| ZNF296 | 5,697858 | 8,96E-25 |
| STAP2 | 5,695248 | 2,08E-59 |
| EHF | 5,68955 | 2,44E-14 |
| LSR | 5,67794 | 1,86E-111 |
| LOC101927 | 5,661457 | 3,19E-28 |
| PCDHA13 | 5,658009 | 1,99E-05 |
| AGMAT | 5,657983 | 5,48E-17 |
| TMEM191 | 5,656108 | 2,75E-29 |
| MAPK13 | 5,654328 | 1,04E-34 |
| NPNT | 5,647971 | 9,64E-31 |

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| PPM1E | 5,646595 | 1,82E-20 |
| CCDC170 | 5,637127 | 1,00E-11 |
| KCNN1 | 5,615851 | 0,000787 |
| DNAH3 | 5,615153 | 5,30E-06 |
| DHRS2 | 5,613245 | 1,76E-32 |
| HSD11B2 | 5,609266 | 6,07E-13 |
| C2CD4C | 5,588484 | 0,000793 |
| TRPV3 | 5,578756 | 1,77E-07 |
| FHIT | 5,570938 | 5,05E-10 |
| F12 | 5,570236 | 2,76E-87 |
| PPP1R9A | 5,566522 | 1,88E-47 |
| MYT1 | 5,556103 | 1,36E-07 |
| RAI2 | 5,503829 | 0,000138 |
| TNFRSF18 | 5,488142 | 1,94E-05 |
| CEBPA | 5,482538 | 3,89E-16 |
| KLHL13 | 5,480272 | 5,66E-07 |
| RAB3D | 5,476338 | 1,37E-63 |
| AMZ1 | 5,461607 | 3,29E-05 |
| EGFL7 | 5,458521 | 1,18E-29 |
| SLC37A1 | 5,458501 | 1,56E-26 |
| SLC27A5 | 5,454692 | 6,63E-36 |
| PKP3 | 5,448347 | 1,91E-71 |
| LPAR2 | 5,445682 | 2,87E-23 |
| GGT1 | 5,432148 | 3,10E-21 |
| LINGO1 | 5,43182 | 3,75E-44 |
| SLC2A4 | 5,41729 | 1,65E-05 |
| OCLN | 5,414574 | 6,19E-34 |
| PPFIBP2 | 5,413136 | 4,33E-20 |
| ERG | 5,393232 | 1,61E-05 |
| SLC27A3 | 5,386939 | 3,41E-43 |
| AP1M2 | 5,386193 | 5,40E-106 |
| KCNJ3 | 5,384381 | 3,94E-06 |
| PRAME | 5,373242 | 8,39E-10 |
| SPTBN2 | 5,367158 | 1,75E-56 |
| PRKCZ | 5,365196 | 4,73E-44 |
| MIF4GD | 5,361971 | 1,27E-11 |
| LMF1 | 5,359163 | 6,04E-25 |
| CACNA2D2 | 5,350919 | 0,0009 |
| ACTL10 | 5,350673 | 6,10E-06 |
| ISYNA1 | 5,34267 | 2,18E-57 |
| CNIH2 | 5,335135 | 1,20E-18 |
| ELMO3 | 5,331805 | 3,22E-32 |
| NAALADL2 | 5,32935 | 4,55E-18 |
| DGAT2 | 5,328111 | 2,96E-17 |
| DBNDD1 | 5,319144 | 1,72E-83 |
| HS6ST2 | 5,300247 | 2,63E-31 |
| ZFHX2 | 5,280343 | 0,000189 |
| TMEM254- | 5,277538 | 2,82E-07 |
| CRABP2 | 5,250061 | 5,81E-33 |
| EBP | 5,246229 | 8,21E-24 |

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| ARRDC4 | 5,242336 | 1,30E-24 |
| PLCH1 | 5,240381 | 3,99E-45 |
| MISP | 5,239051 | 5,86E-32 |
| MYO5B | 5,238126 | 6,16E-74 |
| PAX5 | 5,233822 | 0,000641 |
| CTSV | 5,229754 | 2,65E-08 |
| RNF43 | 5,221651 | 1,97E-104 |
| SYNPO2 | 5,213977 | 1,67E-21 |
| NUDT8 | 5,211426 | 1,52E-26 |
| TMEM163 | 5,204875 | 2,87E-05 |
| RASGRF1 | 5,201005 | 5,05E-28 |
| ACBD7 | 5,195201 | 6,93E-20 |
| OGDHL | 5,186127 | 7,19E-14 |
| FES | 5,179713 | 0,000393 |
| PROSER2 | 5,177551 | 3,84E-13 |
| EFNA3 | 5,174805 | 3,20E-28 |
| EEF1A2 | 5,167518 | 1,52E-71 |
| SEMA4A | 5,151566 | 4,43E-18 |
| ASS1 | 5,147417 | 1,87E-40 |
| ZFYVE28 | 5,145059 | 7,73E-14 |
| CDS1 | 5,138911 | 1,86E-51 |
| JMJD8 | 5,126135 | 1,93E-76 |
| GRB14 | 5,121981 | 1,31E-24 |
| LGR6 | 5,118988 | 3,15E-05 |
| GPLD1 | 5,115898 | 1,07E-06 |
| PRLR | 5,110059 | 3,09E-45 |
| MBP | 5,096394 | 0,0002 |
| CYP2R1 | 5,079998 | 7,65E-05 |
| PLEKHH1 | 5,074594 | 9,96E-30 |
| ABLIM2 | 5,073226 | 6,27E-05 |
| ENPP5 | 5,072214 | 9,81E-06 |
| FUT1 | 5,071605 | 1,80E-10 |
| PTPRO | 5,06379 | 1,16E-13 |
| EXPH5 | 5,059249 | 5,20E-11 |
| BTG2 | 5,058607 | 2,75E-26 |
| MANSC1 | 5,055516 | 5,91E-20 |
| GALNT18 | 5,053014 | 4,48E-11 |
| TTYH2 | 5,04902 | 1,95E-07 |
| SP6 | 5,043349 | 4,38E-29 |
| CXCL16 | 5,042359 | 1,52E-25 |
| FGFBP3 | 5,039527 | 0,000125 |
| RAB39B | 5,035586 | 0,000109 |
| TP73 | 5,032576 | 1,40E-09 |
| SP5 | 5,023961 | 3,15E-66 |
| SUSD2 | 5,02225 | 5,11E-08 |
| ZNF681 | 5,020147 | 8,64E-28 |
| SMKR1 | 5,014137 | 2,02E-18 |
| PEX1 | 5,01121 | 3,11E-37 |
| CCDC74B | 5,00704 | 5,67E-06 |
| ZNF165 | 5,000207 | 1,84E-38 |

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| RAB26 | 4,995313 | 5,09E-09 |
| RNASET2 | 4,977333 | 2,17E-32 |
| JAG2 | 4,973696 | 9,87E-39 |
| SELENBP1 | 4,963395 | 1,22E-48 |
| ZNF837 | 4,961305 | 5,21E-13 |
| ATP1A3 | 4,947622 | 5,14E-18 |
| ZNF610 | 4,946489 | 0,000376 |
| NFE2 | 4,883423 | 8,44E-07 |
| GATA3 | 4,87812 | 4,89E-85 |
| C15orf59 | 4,877496 | 8,31E-14 |
| KRT15 | 4,874518 | 2,81E-05 |
| IL17RE | 4,842322 | 9,39E-05 |
| ARRDC1 | 4,803396 | 1,94E-53 |
| FRAS1 | 4,796146 | 2,32E-28 |
| GOLGA7B | 4,792678 | 2,07E-11 |
| ALDH5A1 | 4,772294 | 4,30E-49 |
| DCDC2 | 4,754487 | 7,32E-10 |
| DKK1 | 4,745271 | 4,59E-15 |
| DMTN | 4,735985 | 2,04E-22 |
| ABAT | 4,735043 | 3,74E-12 |
| CDK18 | 4,728275 | 1,76E-20 |
| RPARP-AS1 | 4,710362 | 4,19E-09 |
| NRCAM | 4,702775 | 4,75E-22 |
| TMEM102 | 4,69674 | 7,13E-19 |
| RIPK4 | 4,695382 | 1,15E-14 |
| CADM4 | 4,67969 | 2,27E-25 |
| PCDHB4 | 4,675611 | 1,08E-05 |
| LOC100134 | 4,670682 | 6,81E-05 |
| AQP3 | 4,65706 | 0,000415 |
| RNFT2 | 4,654341 | 2,80E-10 |
| RPP25 | 4,644324 | 1,86E-42 |
| SH2B2 | 4,641624 | 4,69E-23 |
| CPNE7 | 4,633803 | 1,11E-12 |
| CDKN1A | 4,630765 | 5,00E-21 |
| NPW | 4,630559 | 3,42E-06 |
| MAST1 | 4,622833 | 4,20E-11 |
| LOC439994 | 4,613594 | 6,46E-07 |
| ZNF607 | 4,609864 | 1,20E-30 |
| ABCA2 | 4,592688 | 1,60E-50 |
| FMO5 | 4,588665 | 1,47E-05 |
| STMND1 | 4,57571 | 0,000457 |
| EFNB3 | 4,564878 | 2,24E-14 |
| PRSS27 | 4,563786 | 1,60E-05 |
| TRAPPC6A | 4,556654 | 1,53E-25 |
| SYNGR1 | 4,551718 | 1,19E-10 |
| ADRA2C | 4,550039 | 2,20E-43 |
| ACE | 4,548918 | 0,000316 |
| MARCH1 | 4,533785 | 6,96E-07 |
| DOCK6 | 4,529995 | 1,39E-50 |
| SEMA4G | 4,511691 | 1,28E-06 |

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| HOOK2 | 4,491354 | 2,03E-57 |
| PCDHGB5 | 4,484824 | 6,91E-06 |
| TNNT1 | 4,48329 | 3,91E-98 |
| H1FO | 4,47659 | 1,01E-24 |
| LDHD | 4,471135 | 3,88E-06 |
| ROGDI | 4,470557 | 2,98E-38 |
| KLHDC7B | 4,467543 | 1,07E-06 |
| LINC00052 | 4,457884 | 6,48E-06 |
| CRYL1 | 4,450999 | 2,82E-27 |
| RAB3IP | 4,445008 | 3,94E-79 |
| SCNN1A | 4,425829 | 7,32E-06 |
| MACROD1 | 4,414834 | 9,51E-30 |
| CHMP4C | 4,413778 | 7,33E-22 |
| CYB561 | 4,403265 | 1,37E-120 |
| ZNF711 | 4,402449 | 7,90E-10 |
| FAM117B | 4,379272 | 1,90E-27 |
| NAT8L | 4,378904 | 2,86E-18 |
| ZNF630 | 4,378285 | 1,02E-06 |
| SAMD10 | 4,374494 | 1,34E-08 |
| GATS | 4,371032 | 7,29E-13 |
| FBXO27 | 4,37084 | 8,24E-15 |
| TCEA3 | 4,365674 | 6,13E-50 |
| SEMA6B | 4,362857 | 5,81E-22 |
| GALNT3 | 4,360324 | 3,86E-45 |
| DPYSL4 | 4,35557 | 1,76E-08 |
| TLE2 | 4,355058 | 2,18E-40 |
| NKAIN1 | 4,352504 | 3,06E-21 |
| SEMA4D | 4,347635 | 4,48E-17 |
| RAB11FIP4 | 4,332295 | 9,35E-52 |
| ADGRG6 | 4,325911 | 4,93E-10 |
| FGD4 | 4,318837 | 1,59E-16 |
| SLC4A11 | 4,311527 | 5,11E-06 |
| HIST1H3G | 4,311418 | 0,000413 |
| VAV3 | 4,310812 | 1,39E-45 |
| IL17RD | 4,307114 | 8,48E-14 |
| UFSP1 | 4,299812 | 0,000151 |
| HSD17B8 | 4,288258 | 4,67E-14 |
| CYP4F11 | 4,28745 | 1,36E-05 |
| TGM1 | 4,287363 | 4,61E-06 |
| RHOF | 4,287153 | 7,75E-33 |
| ROCK1P1 | 4,275441 | 7,49E-05 |
| ARSG | 4,271836 | 4,95E-10 |
| PRTFDC1 | 4,258824 | 1,77E-05 |
| TMEM134 | 4,254002 | 8,27E-28 |
| CFAP53 | 4,252282 | 3,32E-05 |
| GJA3 | 4,251743 | 2,93E-07 |
| MFSD6 | 4,246338 | 3,44E-34 |
| CNKSRI | 4,24002 | 4,49E-13 |
| MYLIP | 4,238204 | 5,92E-33 |
| GSTZ1 | 4,238029 | 1,90E-64 |

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| ZDHC11 | 4,23689 | 0,000604 |
| LIN7A | 4,236046 | 1,11E-26 |
| GAA | 4,235217 | 5,41E-23 |
| DYRK1B | 4,234565 | 1,03E-24 |
| CNFN | 4,229779 | 0,000631 |
| IDNK | 4,226784 | 8,06E-14 |
| DENND6B | 4,224962 | 1,22E-08 |
| C11orf80 | 4,224581 | 1,32E-25 |
| PCDHA6 | 4,214077 | 1,14E-45 |
| SYNGR3 | 4,211778 | 3,24E-06 |
| SYBU | 4,203832 | 3,05E-08 |
| SULF2 | 4,189164 | 1,21E-51 |
| GREB1 | 4,189105 | 6,71E-43 |
| CACNB3 | 4,184531 | 4,14E-61 |
| MTL5 | 4,181216 | 1,59E-18 |
| DDR1 | 4,180633 | 4,73E-26 |
| BEND5 | 4,167405 | 1,42E-08 |
| LOC729737 | 4,165817 | 0,000356 |
| GDF15 | 4,138572 | 4,10E-16 |
| TUSC3 | 4,136439 | 5,37E-26 |
| ADAM11 | 4,125426 | 1,81E-14 |
| SHISA9 | 4,123604 | 1,08E-09 |
| MYEF2 | 4,123079 | 1,33E-26 |
| NOTCH3 | 4,122304 | 9,34E-75 |
| KSR2 | 4,114508 | 2,02E-06 |
| C6orf52 | 4,111551 | 1,61E-06 |
| RHOBTB1 | 4,105011 | 2,60E-89 |
| CA8 | 4,102387 | 3,63E-05 |
| GRHL3 | 4,100644 | 4,76E-17 |
| SEPT3 | 4,099905 | 3,03E-20 |
| DCLK1 | 4,079961 | 2,55E-34 |
| PTGES | 4,07284 | 2,40E-07 |
| ST8SIA4 | 4,051114 | 8,03E-10 |
| MFAP2 | 4,049109 | 4,87E-16 |
| EPB41L4B | 4,03142 | 1,59E-24 |
| ADAM22 | 4,031126 | 4,30E-28 |
| ELOVL7 | 4,027111 | 8,99E-34 |
| CSTA | 4,026083 | 1,42E-05 |
| THEM6 | 4,020077 | 1,65E-28 |
| ELL3 | 4,000791 | 4,70E-18 |
| LRRC75B | 3,996958 | 5,70E-14 |
| ZBTB42 | 3,993681 | 4,97E-38 |
| REPS2 | 3,993446 | 0,000178 |
| RASD1 | 3,993297 | 0,000372 |
| TKFC | 3,992868 | 3,71E-59 |
| ZSCAN16 | 3,990178 | 1,92E-25 |
| LAMP3 | 3,989213 | 5,65E-05 |
| FSD1 | 3,988371 | 4,17E-08 |
| CREB3L4 | 3,980307 | 9,59E-40 |
| MTUS1 | 3,98025 | 3,41E-38 |

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| ISM1 | 3,976567 | 1,83E-07 |
| ZNF554 | 3,976508 | 3,49E-07 |
| DLL1 | 3,975002 | 7,79E-05 |
| PIK3C2B | 3,960614 | 3,47E-42 |
| JAM2 | 3,959632 | 0,000352 |
| KIAA1324 | 3,958033 | 6,95E-15 |
| ALDH4A1 | 3,955705 | 5,38E-13 |
| KIFC2 | 3,955485 | 2,59E-29 |
| PALM3 | 3,9522 | 2,33E-05 |
| ZNF385A | 3,950695 | 1,03E-56 |
| INHBB | 3,944276 | 6,51E-09 |
| ZNF204P | 3,94091 | 3,21E-06 |
| HAGHL | 3,938422 | 1,73E-21 |
| ZNF48 | 3,932605 | 2,33E-17 |
| LIPT2 | 3,928181 | 3,51E-09 |
| KCNK6 | 3,927264 | 1,80E-13 |
| DOK4 | 3,92708 | 2,76E-23 |
| C3orf14 | 3,920241 | 4,26E-45 |
| ZBED6CL | 3,916398 | 0,000462 |
| TUBB4A | 3,915554 | 7,51E-07 |
| GLUD2 | 3,909687 | 7,64E-14 |
| HOXC-AS3 | 3,909417 | 0,000814 |
| TP53 | 3,907762 | 5,12E-35 |
| PRDX2 | 3,906912 | 1,45E-75 |
| PROCA1 | 3,901501 | 2,44E-05 |
| TMPRSS2 | 3,89875 | 5,88E-05 |
| EFEMP1 | 3,898045 | 3,24E-57 |
| DYNC1I1 | 3,894529 | 6,33E-37 |
| ZNF737 | 3,885203 | 2,35E-14 |
| CBS | 3,88321 | 1,36E-21 |
| RGAG4 | 3,882523 | 7,76E-07 |
| FRMD4B | 3,882365 | 3,24E-05 |
| AGAP2 | 3,881316 | 4,16E-16 |
| SH3GL3 | 3,879884 | 1,04E-05 |
| OLFM2 | 3,877211 | 4,40E-30 |
| FHDC1 | 3,873453 | 1,16E-11 |
| IDUA | 3,870702 | 1,09E-11 |
| TMEM229E | 3,858512 | 2,85E-06 |
| RALGPS1 | 3,858468 | 4,34E-12 |
| C17orf96 | 3,821624 | 5,26E-38 |
| TSPAN13 | 3,819946 | 2,15E-42 |
| KCNJ8 | 3,818901 | 2,99E-25 |
| JPH1 | 3,815418 | 2,51E-10 |
| SCAMP5 | 3,810859 | 2,18E-15 |
| NBEAL2 | 3,809646 | 2,02E-26 |
| EPS8L2 | 3,793789 | 6,95E-21 |
| ZNF793 | 3,785283 | 1,07E-16 |
| TCHH | 3,77985 | 0,000502 |
| MGAT4A | 3,77425 | 6,83E-15 |
| PLCG2 | 3,769274 | 5,14E-18 |

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| NCOA3 | 3,765591 | 3,33E-57 |
| CEL | 3,764773 | 0,000412 |
| PTPRG-AS1 | 3,760699 | 4,85E-09 |
| MPP7 | 3,752157 | 3,41E-33 |
| SIAE | 3,748566 | 2,65E-23 |
| SORT1 | 3,744569 | 1,15E-35 |
| SREBF1 | 3,741134 | 7,75E-48 |
| SPATA17 | 3,739926 | 4,15E-10 |
| KIAA0040 | 3,737245 | 1,27E-15 |
| ASAH2 | 3,737019 | 2,09E-15 |
| MFSD3 | 3,733817 | 6,86E-23 |
| PPM1D | 3,733174 | 2,30E-50 |
| CYBA | 3,729792 | 1,02E-50 |
| SEPT1 | 3,729676 | 1,72E-07 |
| GSTM3 | 3,727438 | 6,80E-15 |
| ONECUT1 | 3,71951 | 0,000317 |
| HSD3B7 | 3,719388 | 1,27E-35 |
| VGf | 3,715256 | 4,78E-16 |
| PHLPP1 | 3,714968 | 6,43E-35 |
| FAM86C2P | 3,712518 | 6,98E-11 |
| TRIM37 | 3,702672 | 4,57E-102 |
| BAMBI | 3,702493 | 1,29E-83 |
| RCOR2 | 3,692093 | 5,59E-12 |
| CCDC113 | 3,681156 | 7,27E-05 |
| STMN3 | 3,6771 | 6,93E-24 |
| ARHGAP4 | 3,676746 | 7,78E-07 |
| RPS6KL1 | 3,672593 | 9,38E-12 |
| C10orf35 | 3,662996 | 2,33E-11 |
| HEYL | 3,650698 | 0,000203 |
| FRAT1 | 3,643884 | 0,000301 |
| GCH1 | 3,641799 | 2,40E-20 |
| SALL2 | 3,640196 | 2,33E-22 |
| GSTM4 | 3,632268 | 3,89E-30 |
| PLEKHG1 | 3,632138 | 2,69E-07 |
| SH3YL1 | 3,620881 | 1,91E-29 |
| GRHL1 | 3,619196 | 4,36E-07 |
| LCA5L | 3,597153 | 0,000135 |
| SLC15A2 | 3,590664 | 0,000223 |
| CRMP1 | 3,589936 | 7,09E-08 |
| GFRA1 | 3,589909 | 4,63E-25 |
| FIRRE | 3,575327 | 1,80E-05 |
| ATHL1 | 3,574632 | 1,51E-05 |
| TGFBR3L | 3,564776 | 8,19E-07 |
| BBS2 | 3,561155 | 4,38E-16 |
| PRR5 | 3,560064 | 7,70E-10 |
| BOLA1 | 3,551888 | 8,58E-28 |
| PBX1 | 3,548846 | 1,35E-12 |
| CACNA1H | 3,541923 | 8,93E-41 |
| OSR2 | 3,539272 | 1,83E-07 |
| VPS37D | 3,537172 | 2,53E-05 |

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| RINL | 3,53272 | 3,38E-06 |
| NAAA | 3,531647 | 1,61E-18 |
| EGLN3 | 3,530178 | 8,51E-06 |
| NEURL1B | 3,529009 | 1,35E-25 |
| TP53INP1 | 3,523578 | 5,41E-09 |
| SLC7A2 | 3,521774 | 3,81E-36 |
| CASZ1 | 3,521165 | 1,88E-18 |
| FAM78A | 3,520008 | 0,000615 |
| ERV3-1 | 3,519024 | 1,25E-21 |
| LOC101927 | 3,517277 | 3,32E-09 |
| ZFP14 | 3,512765 | 1,45E-08 |
| GDPD1 | 3,511466 | 6,49E-06 |
| GPR160 | 3,508119 | 9,13E-13 |
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| C1orf233 | 3,505392 | 7,12E-32 |
| SLC37A4 | 3,500777 | 5,07E-26 |
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| BCAM | 3,500114 | 1,46E-30 |
| LAMA3 | 3,496438 | 3,87E-12 |
| BRSK1 | 3,495453 | 2,92E-10 |
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| SAMD12 | 3,491229 | 2,24E-11 |
| PGAP2 | 3,488295 | 2,12E-28 |
| ZNF443 | 3,488164 | 3,00E-12 |
| ZNF860 | 3,482466 | 3,55E-05 |
| ZNF311 | 3,477321 | 0,000239 |
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| TNS1 | 3,462473 | 4,15E-08 |
| TINCR | 3,461212 | 3,21E-05 |
| RMND5B | 3,460782 | 6,37E-43 |
| GPC2 | 3,459063 | 2,43E-06 |
| BMP2 | 3,443976 | 1,35E-31 |
| CITED4 | 3,43842 | 6,77E-05 |
| ANKRD18B | 3,4383 | 4,66E-08 |
| SLC24A1 | 3,431104 | 2,27E-19 |
| KCNH3 | 3,427806 | 0,0006 |
| DOC2A | 3,426183 | 8,11E-06 |
| GUCY1A3 | 3,423913 | 5,89E-15 |
| LRP5 | 3,421335 | 2,69E-59 |
| LOC339862 | 3,417703 | 8,35E-06 |
| ACTG2 | 3,417346 | 0,000539 |
| RPL39L | 3,415582 | 1,34E-27 |
| FAM227B | 3,415172 | 2,26E-11 |
| NDRG2 | 3,402297 | 9,63E-12 |
| PCDHB13 | 3,40222 | 2,10E-13 |
| PRICKLE2-A | 3,397186 | 0,000103 |
| METRNL | 3,391093 | 2,33E-29 |
| PDCD4 | 3,382 | 3,39E-35 |
| TPD52 | 3,381861 | 2,56E-35 |
| ZNF287 | 3,375658 | 2,34E-07 |

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| ALDH6A1 | 3,371426 | 6,48E-38 |
| CASKIN1 | 3,36947 | 2,83E-13 |
| RHPN1-AS1 | 3,368878 | 0,000192 |
| CABYR | 3,367216 | 1,10E-07 |
| ZCCHC12 | 3,362867 | 6,18E-05 |
| USP32 | 3,360569 | 1,26E-28 |
| TRPM4 | 3,35615 | 5,52E-24 |
| LENG9 | 3,346232 | 4,69E-18 |
| MDK | 3,34433 | 1,42E-54 |
| TLCD2 | 3,33986 | 2,29E-08 |
| AKTIP | 3,32044 | 1,39E-22 |
| DHTKD1 | 3,319216 | 5,50E-46 |
| LHPP | 3,316584 | 8,74E-14 |
| PACS2 | 3,313253 | 6,60E-43 |
| EFNA2 | 3,309908 | 0,000484 |
| JMY | 3,300897 | 2,97E-08 |
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| ARFGEF3 | 3,297298 | 6,80E-14 |
| ERICH2 | 3,287124 | 3,14E-13 |
| SH3GLB2 | 3,285931 | 2,73E-40 |
| TLCD1 | 3,285004 | 7,62E-31 |
| DNMT3B | 3,280487 | 2,33E-32 |
| SYNGR2 | 3,276716 | 1,52E-24 |
| WASF3 | 3,276466 | 4,05E-17 |
| HIST3H2A | 3,274164 | 5,65E-08 |
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| DAAM1 | 3,271013 | 3,59E-22 |
| ZNF397 | 3,262968 | 2,39E-17 |
| CCDC24 | 3,262652 | 5,53E-06 |
| PSD4 | 3,26213 | 5,53E-25 |
| OLMALINC | 3,253451 | 6,41E-12 |
| USP43 | 3,2519 | 3,57E-07 |
| RAP1GAP | 3,250463 | 1,08E-08 |
| GLIDR | 3,243191 | 1,42E-05 |
| ZNF329 | 3,243104 | 1,64E-12 |
| ISG20 | 3,240825 | 0,000602 |
| TRIM24 | 3,237319 | 2,14E-42 |
| SHF | 3,230161 | 2,56E-08 |
| C5 | 3,227935 | 6,08E-09 |
| WNT7B | 3,220912 | 4,52E-11 |
| ZDHHC24 | 3,219684 | 2,39E-11 |
| SUV420H2 | 3,212977 | 1,87E-13 |
| CYP2J2 | 3,211534 | 4,85E-11 |
| TMTC2 | 3,210446 | 3,27E-10 |
| PGM2L1 | 3,209226 | 7,33E-22 |
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| APPBP2 | 3,185957 | 1,43E-41 |
| SYT1 | 3,180869 | 1,58E-11 |
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| LRRC73 | 3,167136 | 2,86E-06 |
| TFAP2A | 3,16382 | 1,14E-60 |
| LRRC24 | 3,163703 | 6,38E-06 |
| RNF44 | 3,161581 | 4,68E-40 |
| SSH3 | 3,153327 | 7,35E-24 |
| HCG11 | 3,152104 | 1,51E-09 |
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| RB1 | 3,139358 | 1,17E-17 |
| THNSL2 | 3,136891 | 5,95E-10 |
| CD9 | 3,122986 | 1,70E-35 |
| MEX3A | 3,122893 | 2,10E-50 |
| MARCH9 | 3,119395 | 8,58E-20 |
| C1orf116 | 3,117685 | 0,00092 |
| MPND | 3,116772 | 2,96E-18 |
| USP18 | 3,115994 | 1,36E-08 |
| MACC1 | 3,115723 | 0,000639 |
| COL9A2 | 3,113186 | 1,44E-08 |
| B3GNT4 | 3,106236 | 0,000638 |
| PODXL2 | 3,106032 | 9,64E-34 |
| ATP6V1E2 | 3,10342 | 4,81E-08 |
| EFHD1 | 3,102404 | 1,25E-09 |
| SPSB4 | 3,102099 | 0,000493 |
| HEATR6 | 3,094853 | 3,76E-54 |
| GSE1 | 3,070245 | 1,91E-65 |
| SPATA2L | 3,069449 | 1,26E-22 |
| ASNS | 3,068524 | 2,09E-14 |
| SLC2A11 | 3,068289 | 7,42E-13 |
| DUS4L | 3,063131 | 1,84E-23 |
| PSMD6 | 3,059933 | 6,08E-49 |
| TDRKH | 3,056885 | 2,13E-14 |
| THAP9 | 3,047331 | 0,000143 |
| PSTPIP2 | 3,042228 | 1,18E-14 |
| MAP3K9 | 3,037207 | 5,01E-21 |
| GAB2 | 3,035133 | 2,18E-11 |
| NMB | 3,030343 | 2,12E-13 |
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| EPS8L1 | 3,024499 | 7,65E-08 |
| EDA2R | 3,02407 | 0,000122 |
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| BAIAP3 | 3,017077 | 9,86E-05 |
| CD24 | 3,016522 | 8,40E-35 |
| ADSSL1 | 3,012331 | 0,000723 |
| DNPH1 | 3,011221 | 1,49E-42 |
| ACSS1 | 3,011059 | 4,07E-06 |
| RTN4R | 3,003009 | 3,78E-08 |
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| ITPK1 | 2,998252 | 4,57E-45 |
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| HOMER2 | 2,996591 | 1,63E-34 |
| TBC1D9 | 2,995385 | 2,77E-31 |
| LRRC8B | 2,993984 | 2,71E-20 |
| MEIS3 | 2,976854 | 4,82E-05 |
| C1orf226 | 2,975763 | 4,64E-05 |
| ZNF347 | 2,97543 | 3,31E-08 |
| MREG | 2,973183 | 8,06E-20 |
| IQCH-AS1 | 2,971418 | 2,59E-12 |
| ALKBH2 | 2,970535 | 3,14E-25 |
| TMEM254 | 2,966261 | 6,27E-18 |
| TMEM132 | 2,964082 | 7,98E-17 |
| ARHGEF19 | 2,957853 | 1,98E-11 |
| TMEM141 | 2,956929 | 5,32E-39 |
| PCK2 | 2,955989 | 2,94E-07 |
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| PAN2 | 2,952552 | 1,79E-06 |
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| NHS | 2,951413 | 4,22E-08 |
| SEMA3F | 2,946458 | 5,19E-22 |
| SNHG9 | 2,946383 | 0,000427 |
| SMIM14 | 2,946186 | 5,67E-07 |
| LHX4 | 2,943774 | 6,40E-22 |
| VSIG10L | 2,9434 | 1,67E-08 |
| BBC3 | 2,942846 | 1,18E-09 |
| DHRS13 | 2,939547 | 5,79E-17 |
| PPP1R13B | 2,93659 | 6,10E-22 |
| LNX2 | 2,931609 | 1,93E-26 |
| ARF5 | 2,926053 | 6,36E-45 |
| IGFBP5 | 2,919536 | 2,18E-13 |
| MEPCE | 2,919533 | 1,66E-64 |
| PPDPF | 2,91402 | 3,00E-41 |
| ZNF799 | 2,910756 | 3,65E-05 |
| CA11 | 2,90839 | 0,000751 |
| PPM1L | 2,906251 | 2,27E-06 |
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| CPLX1 | 2,899548 | 9,36E-08 |
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| C20orf96 | 2,884477 | 6,11E-06 |
| C9orf116 | 2,867544 | 2,11E-09 |
| ZNF43 | 2,86594 | 6,99E-29 |
| THBS3 | 2,865464 | 9,77E-08 |
| CCDC121 | 2,864713 | 3,83E-05 |
| HIST1H2BD | 2,864074 | 2,74E-07 |
| PAQR4 | 2,859677 | 3,51E-48 |
| SLC16A13 | 2,857827 | 2,93E-08 |
| IMPA2 | 2,852908 | 2,14E-23 |
| EXD2 | 2,85174 | 3,06E-34 |

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| CCNG2 | 2,846286 | 3,62E-09 |
| ZNF217 | 2,842716 | 4,05E-34 |
| RASSF2 | 2,839258 | 0,000152 |
| ERMARD | 2,838391 | 8,45E-10 |
| RAD51C | 2,837551 | 2,86E-39 |
| RAB30 | 2,828326 | 1,40E-15 |
| ADAM15 | 2,823849 | 5,06E-44 |
| PI4K2B | 2,82378 | 2,71E-16 |
| FAM171A2 | 2,821379 | 1,87E-25 |
| SIAH2 | 2,815622 | 1,72E-27 |
| ZNF425 | 2,807035 | 5,37E-12 |
| DTWD1 | 2,806669 | 2,18E-18 |
| PFDN4 | 2,796228 | 8,93E-41 |
| DNASE2 | 2,793924 | 1,03E-28 |
| PCDHA7 | 2,792683 | 0,000222 |
| HCFC1R1 | 2,791878 | 1,59E-19 |
| TRPT1 | 2,790439 | 1,59E-13 |
| TMEM170F | 2,787093 | 4,50E-06 |
| LOC100233 | 2,786533 | 9,72E-06 |
| B4GALNT4 | 2,784012 | 8,04E-11 |
| CACFD1 | 2,773756 | 1,01E-14 |
| ZNF354A | 2,773344 | 3,23E-16 |
| KRT7 | 2,770591 | 0,00017 |
| SH3BP5 | 2,769539 | 3,07E-38 |
| ZNF33B | 2,769071 | 7,56E-16 |
| SLC39A4 | 2,768749 | 6,34E-17 |
| TRAPPC9 | 2,768691 | 2,57E-14 |
| APOE | 2,765318 | 0,000173 |
| STK32C | 2,765146 | 6,76E-14 |
| PAQR8 | 2,764043 | 6,17E-08 |
| PLXNB1 | 2,761175 | 2,42E-16 |
| TUBD1 | 2,760993 | 7,56E-16 |
| MSX2 | 2,757377 | 1,23E-16 |
| CHCHD5 | 2,754531 | 6,90E-15 |
| COMTD1 | 2,749623 | 1,35E-20 |
| MLLT3 | 2,749575 | 2,90E-09 |
| MAN2B1 | 2,748986 | 1,71E-25 |
| PLEKHF2 | 2,745576 | 9,57E-30 |
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| NOTCH1 | 2,736793 | 8,66E-41 |
| CCNO | 2,727183 | 1,23E-06 |
| LRRC20 | 2,721543 | 1,02E-08 |
| ACOT4 | 2,715962 | 5,63E-05 |
| FLJ23867 | 2,715659 | 1,57E-13 |
| DHCR7 | 2,715245 | 4,13E-22 |
| TNFRSF19 | 2,708826 | 9,66E-26 |
| ANKIB1 | 2,70353 | 2,10E-35 |
| ZNF836 | 2,700808 | 7,96E-09 |
| NR1H3 | 2,698818 | 1,38E-06 |
| ZNF391 | 2,698801 | 1,42E-05 |

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| SLC25A23 | 2,696868 | 2,22E-13 |
| TFAP2C | 2,693958 | 1,06E-25 |
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| ZC3H6 | 2,687605 | 9,37E-09 |
| AP1S1 | 2,686875 | 6,07E-16 |
| RPS6KB1 | 2,685357 | 5,68E-54 |
| ZNF253 | 2,68384 | 9,68E-23 |
| FAM213B | 2,680266 | 8,71E-15 |
| FGF12 | 2,676728 | 7,56E-07 |
| MMAB | 2,676188 | 5,04E-35 |
| CYP51A1 | 2,672525 | 1,63E-46 |
| PITPNC1 | 2,670276 | 4,63E-37 |
| NXPH4 | 2,669331 | 1,53E-19 |
| RHBDF1 | 2,668326 | 3,25E-13 |
| C16orf74 | 2,666871 | 1,96E-05 |
| PTPRU | 2,663977 | 4,31E-16 |
| BTBD11 | 2,662652 | 0,000118 |
| ZNF525 | 2,660633 | 1,15E-15 |
| C21orf33 | 2,66014 | 2,23E-20 |
| ZNF620 | 2,658566 | 1,01E-09 |
| GOLGA2P7 | 2,658339 | 5,36E-07 |
| CLU | 2,657316 | 2,26E-11 |
| FAM102B | 2,656839 | 2,34E-28 |
| AP4M1 | 2,652934 | 1,98E-17 |
| ACVR2B | 2,650949 | 2,39E-07 |
| MYCL | 2,650312 | 6,55E-05 |
| AR | 2,649434 | 4,13E-09 |
| NANOS1 | 2,646529 | 5,90E-15 |
| GATAD1 | 2,644443 | 3,92E-17 |
| PCBD1 | 2,642522 | 7,36E-27 |
| SNHG5 | 2,641256 | 3,24E-09 |
| ZNF736 | 2,640936 | 2,94E-13 |
| PRMT6 | 2,640198 | 2,59E-36 |
| C14orf28 | 2,640161 | 9,98E-05 |
| PSMG3-AS1 | 2,639537 | 4,47E-09 |
| NIPSNAP1 | 2,638794 | 2,59E-31 |
| SOCS1 | 2,638756 | 5,68E-05 |
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| ABLIM1 | 2,635893 | 3,78E-19 |
| CIART | 2,635165 | 2,30E-08 |
| TYSND1 | 2,63342 | 2,80E-26 |
| DHRS12 | 2,630791 | 1,00E-05 |
| NME3 | 2,63004 | 9,49E-09 |
| RMND5A | 2,624094 | 1,37E-22 |
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| ATP7B | 2,622214 | 0,000457 |
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| LOC729218 | 2,605968 | 1,99E-05 |
| KBTBD7 | 2,604204 | 5,48E-12 |
| CTPS2 | 2,603418 | 7,29E-23 |
| JHDM1D-A | 2,59681 | 2,40E-09 |
| MARCH2 | 2,595806 | 5,02E-07 |
| IRX5 | 2,593569 | 4,89E-18 |
| NKD1 | 2,592509 | 3,54E-21 |
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| NHP2 | 2,571124 | 4,29E-49 |
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| LINC00665 | 2,564591 | 1,40E-12 |
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| RALGAPA1 | 2,561042 | 1,92E-19 |
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| DGKE | 2,554872 | 5,21E-08 |
| ATG16L2 | 2,553907 | 0,000287 |
| ATXN7L3B | 2,550695 | 8,58E-41 |
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| TMTC4 | 2,543358 | 6,23E-12 |
| NUDT14 | 2,543045 | 9,44E-19 |
| TSNARE1 | 2,542798 | 8,68E-06 |
| ETNK2 | 2,539932 | 2,10E-09 |
| RALGDS | 2,534513 | 9,05E-15 |
| NMU | 2,533225 | 1,88E-05 |
| HIST2H2BE | 2,533049 | 1,75E-07 |
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| SYNE2 | 2,528506 | 3,22E-19 |
| IMMP2L | 2,524579 | 7,10E-08 |
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| THOC6 | 2,523174 | 5,70E-09 |
| DUSP2 | 2,513408 | 9,44E-05 |
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| KCTD1 | 2,509268 | 8,00E-13 |
| INADL | 2,507357 | 1,76E-20 |
| TMEM184 | 2,505825 | 1,27E-09 |
| MGST2 | 2,503656 | 1,42E-07 |

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| EPB41L5 | 2,502738 | 6,76E-25 |
| CCND1 | 2,501926 | 9,18E-23 |
| GRIP1 | 2,501557 | 3,92E-06 |
| FLJ10038 | 2,499819 | 4,36E-11 |
| ZNF74 | 2,496784 | 9,45E-18 |
| FUK | 2,494556 | 4,64E-07 |
| TMEM231 | 2,492532 | 2,31E-11 |
| BCL2L1 | 2,492423 | 6,91E-17 |
| LPIN3 | 2,487283 | 9,65E-14 |
| RPL17 | 2,476115 | 4,20E-11 |
| SAPCD2 | 2,475548 | 1,55E-17 |
| DOPEY2 | 2,47507 | 2,15E-21 |
| TSPAN14 | 2,473843 | 5,75E-21 |
| SLC29A3 | 2,473 | 1,32E-06 |
| KIF16B | 2,471875 | 4,74E-07 |
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| KIAA1958 | 2,470012 | 1,45E-14 |
| ZFP62 | 2,467946 | 1,15E-29 |
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| PTPRF | 2,462745 | 8,29E-32 |
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| ZNF33A | 2,459326 | 3,09E-22 |
| HILPDA | 2,457827 | 2,40E-14 |
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| CHD6 | 2,445018 | 5,37E-19 |
| XBP1 | 2,443145 | 3,19E-09 |
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| PYCARD | 2,441698 | 1,85E-09 |
| ANKRD13B | 2,440941 | 6,99E-19 |
| FAM221A | 2,437263 | 0,000393 |
| SBF2-AS1 | 2,435412 | 6,03E-05 |
| MAP2K6 | 2,42488 | 2,65E-05 |
| DECR2 | 2,421561 | 1,76E-15 |
| SLC29A4 | 2,420967 | 1,20E-14 |
| PRPF40B | 2,420561 | 7,29E-09 |
| ECI1 | 2,41686 | 7,37E-29 |
| TRIM33 | 2,416377 | 3,00E-24 |
| DSC2 | 2,413805 | 1,52E-23 |
| RAB33B | 2,413183 | 1,48E-07 |
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| H2AFX | 2,409042 | 1,12E-39 |
| PRKAR2B | 2,406566 | 5,95E-06 |
| NEK8 | 2,404945 | 0,000314 |
| PCYOX1L | 2,404623 | 6,95E-09 |
| MTERF1 | 2,404232 | 3,60E-10 |
| PRRT3 | 2,404216 | 0,000469 |
| OBFC1 | 2,402658 | 8,78E-10 |
| CUX1 | 2,402645 | 1,05E-28 |
| WRB | 2,40247 | 3,22E-13 |

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| MYB | 2,401653 | 0,001007 |
| ZHX2 | 2,398241 | 4,18E-14 |
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| TEAD2 | 2,395486 | 1,05E-17 |
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| DDB2 | 2,388354 | 2,70E-09 |
| HYKK | 2,386481 | 0,000918 |
| FIS1 | 2,380999 | 6,56E-29 |
| ZNF433 | 2,380529 | 7,19E-08 |
| MAPK11 | 2,379392 | 2,13E-05 |
| LINC00886 | 2,377127 | 0,000159 |
| IFT22 | 2,375835 | 9,89E-26 |
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| JUND | 2,372224 | 7,17E-12 |
| SCAMP1 | 2,371945 | 2,08E-18 |
| SLC25A40 | 2,371444 | 1,15E-10 |
| IQCK | 2,371088 | 2,46E-10 |
| MMP15 | 2,370882 | 9,07E-13 |
| RAC3 | 2,370323 | 1,14E-14 |
| ZNF879 | 2,367183 | 0,000395 |
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| TMEM54 | 2,361434 | 1,63E-15 |
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| H2AFY2 | 2,355861 | 1,50E-15 |
| HDDC3 | 2,34888 | 7,99E-14 |
| DYM | 2,348617 | 2,55E-24 |
| LAMTOR4 | 2,34264 | 4,28E-25 |
| FAM185A | 2,340786 | 6,82E-09 |
| TSPAN31 | 2,339792 | 2,70E-07 |
| ZSCAN21 | 2,336758 | 1,13E-17 |
| CUL7 | 2,336587 | 1,24E-14 |
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| ABCA7 | 2,329972 | 3,06E-06 |
| IFT140 | 2,329708 | 6,58E-07 |
| PODXL | 2,328166 | 1,58E-17 |
| TGIF1 | 2,327117 | 5,31E-14 |
| FAM86EP | 2,325164 | 5,02E-06 |
| SEZ6L2 | 2,321717 | 3,24E-12 |
| ADPRHL1 | 2,321332 | 5,99E-09 |
| ZFP90 | 2,321214 | 2,91E-16 |
| ZC3H8 | 2,318695 | 1,02E-07 |
| GTPBP10 | 2,318173 | 4,75E-15 |
| TUBA1A | 2,317211 | 1,33E-29 |
| ZKSCAN1 | 2,31568 | 8,95E-28 |
| MBNL3 | 2,307545 | 6,11E-12 |
| GALK1 | 2,307185 | 1,01E-17 |
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| TCEA2 | 2,305845 | 7,99E-09 |

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| MAPK8IP2 | 2,304389 | 8,75E-05 |
| TMEM87B | 2,30102 | 4,52E-14 |
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| OARD1 | 2,297713 | 3,92E-14 |
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| SLC7A5 | 2,2914 | 2,84E-30 |
| DUSP9 | 2,290664 | 3,09E-05 |
| SLC25A29 | 2,289634 | 7,71E-19 |
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| PTGR2 | 2,286797 | 1,98E-10 |
| EFR3B | 2,283129 | 5,53E-10 |
| PCDHB8 | 2,282386 | 9,54E-11 |
| ATP8B1 | 2,281898 | 7,98E-16 |
| TMEM198E | 2,28122 | 2,80E-05 |
| WWOX | 2,281003 | 1,20E-13 |
| FECH | 2,279936 | 1,29E-05 |
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| PALM | 2,273402 | 4,03E-08 |
| FAM117A | 2,273284 | 6,50E-10 |
| ZNF3 | 2,273077 | 2,23E-24 |
| LONRF1 | 2,272944 | 7,24E-08 |
| ZNF184 | 2,272674 | 4,14E-17 |
| ATP6V1C2 | 2,272078 | 1,36E-07 |
| P2RX4 | 2,271419 | 7,71E-18 |
| TNFAIP8L1 | 2,270344 | 3,63E-07 |
| SMARCD2 | 2,268583 | 1,02E-26 |
| ABHD11 | 2,263761 | 6,73E-16 |
| DDAH2 | 2,26259 | 1,18E-17 |
| OBSCN | 2,257052 | 1,85E-05 |
| ZNF652 | 2,254577 | 3,09E-21 |
| ZBTB12 | 2,25435 | 1,91E-06 |
| PRDX5 | 2,251075 | 2,22E-36 |
| GRAMD4 | 2,250362 | 6,29E-06 |
| PIK3R3 | 2,249706 | 9,80E-10 |
| HIST1H2BK | 2,248168 | 3,11E-05 |
| MAFIP | 2,248163 | 8,80E-07 |
| GPR27 | 2,246181 | 0,000667 |
| RTKN | 2,244324 | 5,63E-13 |
| ENTPD5 | 2,243949 | 1,53E-07 |
| THSD4 | 2,240914 | 7,97E-08 |
| SIRT5 | 2,239556 | 1,82E-14 |
| CECR5 | 2,238754 | 7,60E-24 |
| IGFLR1 | 2,238747 | 2,43E-05 |
| EVL | 2,236433 | 2,10E-18 |
| TRIB1 | 2,23457 | 2,64E-12 |
| TMCO6 | 2,231896 | 5,44E-07 |
| FBXW9 | 2,229421 | 1,96E-11 |
| GAMT | 2,226624 | 1,48E-11 |

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| MDM2 | 2,225816 | 3,76E-09 |
| WDR24 | 2,222755 | 8,11E-09 |
| PHKA1 | 2,221661 | 2,15E-07 |
| TRPS1 | 2,220883 | 3,62E-22 |
| CBX2 | 2,217371 | 8,00E-25 |
| ZNF114 | 2,216568 | 3,90E-09 |
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| LOC100506 | 2,214319 | 3,81E-05 |
| EPHB4 | 2,213832 | 1,95E-34 |
| PREX1 | 2,213316 | 7,08E-19 |
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| GCDH | 2,212438 | 4,51E-18 |
| GPT2 | 2,211957 | 6,19E-06 |
| CPNE3 | 2,211156 | 1,50E-20 |
| MAP3K14-1 | 2,206722 | 0,00035 |
| CEMIP | 2,206581 | 9,98E-07 |
| DBP | 2,206097 | 5,94E-11 |
| ZNF813 | 2,197734 | 1,69E-07 |
| LTBP4 | 2,196821 | 5,64E-10 |
| PEMT | 2,192313 | 9,98E-18 |
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| L2HGDH | 2,191514 | 9,64E-14 |
| ZNF517 | 2,187403 | 0,000551 |
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| LRRC23 | 2,185248 | 0,000538 |
| CXADR | 2,185136 | 8,10E-09 |
| SPPL2A | 2,184598 | 4,46E-23 |
| DPP3 | 2,184258 | 1,05E-15 |
| RNF157 | 2,183741 | 0,000168 |
| SPTLC2 | 2,183715 | 1,91E-20 |
| S100A16 | 2,183319 | 1,68E-10 |
| CROT | 2,178706 | 0,00048 |
| JOSD2 | 2,176924 | 1,99E-06 |
| MED12L | 2,174542 | 5,60E-05 |
| TMEM183F | 2,173988 | 2,82E-07 |
| LYPLAL1 | 2,17268 | 3,89E-08 |
| TMEM159 | 2,171748 | 2,44E-09 |
| TBCK | 2,171619 | 4,82E-14 |
| SLCO4A1 | 2,169869 | 7,91E-06 |
| SERINC5 | 2,168557 | 1,63E-10 |
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| SFI1 | 2,160392 | 3,42E-06 |
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| TMBIM4 | 2,158273 | 8,15E-14 |
| HSPB8 | 2,155464 | 1,24E-08 |
| PKN1 | 2,155328 | 7,49E-28 |
| MRPS25 | 2,154394 | 4,66E-23 |
| CBR4 | 2,153718 | 1,21E-11 |
| ZFYVE21 | 2,153047 | 2,24E-11 |
| ALKBH4 | 2,15247 | 1,55E-17 |

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| ARRB2 | 2,152402 | 4,76E-17 |
| WDR83 | 2,151794 | 1,27E-12 |
| ANGEL1 | 2,147876 | 2,36E-18 |
| MXI1 | 2,145883 | 9,76E-08 |
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| DBF4 | 2,139736 | 7,48E-20 |
| FLOT2 | 2,138985 | 8,54E-17 |
| FAM50B | 2,135868 | 9,02E-08 |
| MCM3AP- L | 2,13555 | 6,29E-08 |
| SLC25A39 | 2,132645 | 3,20E-35 |
| NPL | 2,131583 | 3,51E-06 |
| SLC48A1 | 2,130848 | 1,38E-06 |
| SPATA7 | 2,129072 | 7,38E-05 |
| FIBP | 2,125954 | 4,72E-24 |
| SERTAD4 | 2,125505 | 1,13E-05 |
| FBRSL1 | 2,124709 | 9,35E-26 |
| SPATA20 | 2,120514 | 6,05E-17 |
| FAM173A | 2,116408 | 4,03E-10 |
| PPP1R21 | 2,114971 | 3,83E-08 |
| SLC43A2 | 2,113561 | 3,74E-11 |
| TET2 | 2,111283 | 4,25E-12 |
| P4HTM | 2,106627 | 4,49E-11 |
| GAS8 | 2,105839 | 1,01E-10 |
| STUB1 | 2,103974 | 3,52E-28 |
| RNF215 | 2,103581 | 0,000197 |
| MYL12A | 2,099602 | 1,06E-23 |
| XPC | 2,098413 | 2,46E-17 |
| ZFP1 | 2,09494 | 6,06E-12 |
| GABPB1-AS | 2,093046 | 8,78E-06 |
| COPG2 | 2,091579 | 1,42E-14 |
| PRR14 | 2,090174 | 2,99E-19 |
| COQ2 | 2,087201 | 6,48E-11 |
| TMEM180 | 2,086691 | 9,37E-06 |
| SLC9A3R1 | 2,086148 | 1,52E-13 |
| SH3BGR | 2,086072 | 0,000404 |
| PLEKHH3 | 2,079477 | 2,18E-05 |
| ZNF888 | 2,076895 | 1,11E-08 |
| C1orf115 | 2,075794 | 3,22E-07 |
| PXN-AS1 | 2,06517 | 5,58E-06 |
| IMPDH1 | 2,063952 | 1,19E-19 |
| ATP9A | 2,062245 | 1,51E-22 |
| MYL12B | 2,061831 | 1,04E-29 |
| SLC44A1 | 2,061724 | 1,01E-20 |
| MYO18A | 2,061403 | 6,67E-09 |
| IQSEC1 | 2,054221 | 3,43E-17 |
| ACTR1B | 2,05391 | 1,99E-05 |
| D2HGDH | 2,052212 | 6,87E-08 |

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| NUDT4 | 2,051178 | 2,90E-15 |
| RILP | 2,050827 | 4,63E-05 |
| RAB11FIP1 | 2,05048 | 9,97E-13 |
| CAMK2N1 | 2,049931 | 7,99E-05 |
| RBSN | 2,049141 | 1,20E-14 |
| PNRC1 | 2,04814 | 1,72E-10 |
| B9D1 | 2,047831 | 4,04E-05 |
| RALBP1 | 2,047563 | 3,71E-15 |
| C8orf82 | 2,046148 | 2,23E-14 |
| CXorf23 | 2,044912 | 1,15E-07 |
| C9orf16 | 2,04393 | 4,20E-13 |
| BET1 | 2,042569 | 1,83E-07 |
| PCDHB6 | 2,038169 | 0,000827 |
| PHKB | 2,037131 | 3,06E-07 |
| GLCE | 2,036132 | 5,05E-18 |
| TMEM168 | 2,035624 | 4,35E-17 |
| SNHG8 | 2,033567 | 3,09E-05 |
| FAHD1 | 2,033139 | 2,20E-18 |
| NRSN2-AS1 | 2,032845 | 3,01E-05 |
| CMBL | 2,032363 | 9,67E-06 |
| DUSP16 | 2,031998 | 4,09E-19 |
| DLD | 2,028155 | 1,05E-12 |
| ZYG11A | 2,025623 | 0,000975 |
| ZNRF3 | 2,020852 | 5,09E-29 |
| STC1 | 2,019696 | 2,36E-12 |
| C2orf68 | 2,018387 | 6,33E-17 |
| KPTN | 2,017309 | 1,45E-06 |
| MBLAC2 | 2,016765 | 0,000496 |
| ITPR2 | 2,015499 | 1,42E-09 |
| HMG20B | 2,012787 | 9,12E-26 |
| NTHL1 | 2,011542 | 1,83E-11 |
| KATNAL2 | 2,01126 | 0,000424 |
| PDF | 2,011182 | 4,37E-06 |
| HOXC10 | 2,010998 | 1,01E-14 |
| PLA2G12A | 2,009136 | 6,94E-12 |
| CCDC85C | 2,009036 | 1,06E-20 |
| FAM210B | 2,004319 | 3,58E-08 |
| RAB6A | 2,004296 | 7,08E-14 |
| TMEM183 | 2,004038 | 1,63E-22 |
| ZNF783 | 2,004001 | 1,79E-07 |
| HAUS4 | 2,003035 | 6,35E-06 |
| ZNF688 | 2,000232 | 8,95E-07 |
| FAM195A | 1,999075 | 3,24E-18 |
| CAPN1 | 1,998882 | 3,87E-07 |
| C4orf48 | 1,996691 | 6,21E-07 |
| ZMYM2 | 1,994258 | 1,28E-22 |
| TET3 | 1,993538 | 6,16E-25 |
| GCSH | 1,992323 | 6,17E-17 |
| DCXR | 1,990985 | 2,44E-20 |
| OSBPL10 | 1,985807 | 7,70E-12 |

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| SEMA6A | 1,983625 | 7,49E-05 |
| PFKL | 1,98315 | 8,41E-19 |
| KRBA1 | 1,983034 | 1,68E-07 |
| CFD | 1,981082 | 0,000661 |
| PHLDA3 | 1,978925 | 0,000309 |
| ZNF641 | 1,978184 | 6,00E-07 |
| FBXO31 | 1,977104 | 3,53E-19 |
| EPB41L4A- | 1,975209 | 3,71E-06 |
| ZNRF1 | 1,971 | 1,01E-20 |
| TMEM150/ | 1,966107 | 2,20E-06 |
| SEMA3C | 1,962173 | 2,18E-20 |
| RNASEH1-/ | 1,962078 | 3,36E-10 |
| ZNF276 | 1,961753 | 1,43E-14 |
| TUBB3 | 1,960246 | 1,03E-28 |
| BCR | 1,958598 | 2,53E-09 |
| ZNF664 | 1,957711 | 1,23E-16 |
| CSDE1 | 1,956805 | 1,66E-16 |
| TSPAN17 | 1,956699 | 1,85E-13 |
| ITFG3 | 1,956052 | 1,50E-11 |
| RPUSD3 | 1,955138 | 2,57E-14 |
| CORO1B | 1,953091 | 7,57E-08 |
| MGC72080 | 1,952673 | 1,41E-09 |
| C16orf13 | 1,949542 | 4,58E-19 |
| MVD | 1,949524 | 3,68E-07 |
| APLP2 | 1,948641 | 5,91E-12 |
| DALRD3 | 1,94768 | 3,22E-07 |
| ULK3 | 1,947483 | 9,91E-11 |
| TTC30B | 1,946677 | 0,000212 |
| ZNF595 | 1,946319 | 1,26E-07 |
| ZNF239 | 1,941304 | 0,000499 |
| ANKRD16 | 1,940581 | 3,64E-06 |
| POLI | 1,939565 | 0,00014 |
| C7orf13 | 1,9394 | 1,93E-05 |
| LOC104968 | 1,939395 | 0,000375 |
| SLC25A10 | 1,937869 | 1,75E-19 |
| DTD1 | 1,935195 | 2,08E-14 |
| RNF130 | 1,932586 | 1,40E-14 |
| BRCA2 | 1,932489 | 4,38E-07 |
| CC2D1A | 1,929781 | 1,51E-12 |
| C14orf169 | 1,929414 | 1,37E-10 |
| PMS2P1 | 1,929255 | 1,99E-07 |
| SPR | 1,9206 | 7,71E-18 |
| KLHDC4 | 1,919695 | 5,60E-17 |
| ALPK1 | 1,916213 | 3,55E-05 |
| NT5C | 1,912349 | 8,03E-09 |
| PEX11B | 1,911073 | 1,10E-12 |
| ZSWIM7 | 1,910325 | 2,84E-09 |
| MTHFD2 | 1,909982 | 2,56E-06 |
| DTNA | 1,909242 | 2,13E-07 |
| CLMN | 1,908993 | 2,57E-08 |

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| TPCN2 | 1,90484 | 0,000312 |
| PLD2 | 1,90433 | 3,39E-05 |
| ADCK2 | 1,904253 | 4,29E-11 |
| CD320 | 1,904199 | 1,36E-15 |
| LMBR1 | 1,902846 | 4,10E-15 |
| TMEM216 | 1,901014 | 2,63E-05 |
| TRAP1 | 1,89938 | 3,97E-26 |
| GIGYF1 | 1,898956 | 3,89E-05 |
| HAGH | 1,894491 | 2,11E-07 |
| MAGI1 | 1,894322 | 5,48E-09 |
| SNX27 | 1,893894 | 9,24E-19 |
| FAM53B | 1,893867 | 1,15E-21 |
| HBP1 | 1,893151 | 1,49E-05 |
| SEPW1 | 1,892617 | 1,83E-08 |
| UBN2 | 1,885754 | 1,59E-11 |
| SLC22A5 | 1,885237 | 3,07E-07 |
| DHODH | 1,884965 | 1,22E-10 |
| RASA1 | 1,883772 | 2,11E-09 |
| KIAA1549 | 1,881756 | 4,74E-09 |
| SFXN2 | 1,880868 | 2,08E-07 |
| HOXC13 | 1,880363 | 2,89E-05 |
| GSTK1 | 1,879914 | 3,30E-08 |
| PIK3R2 | 1,8799 | 5,09E-10 |
| GNB2 | 1,879444 | 4,60E-20 |
| MKS1 | 1,877969 | 1,74E-08 |
| UNKL | 1,876338 | 1,36E-09 |
| THOC7 | 1,875239 | 5,26E-21 |
| TBC1D5 | 1,874357 | 9,30E-13 |
| PAQR5 | 1,873603 | 6,19E-05 |
| PIEZO1 | 1,87308 | 4,32E-13 |
| ACP6 | 1,872481 | 4,71E-07 |
| RNASEH2A | 1,870628 | 5,52E-20 |
| TES | 1,870369 | 4,41E-08 |
| FAM149B1 | 1,868862 | 3,62E-06 |
| UHRF1BP1 | 1,868771 | 1,88E-09 |
| RBM48 | 1,868029 | 5,04E-05 |
| ATXN3 | 1,865296 | 7,76E-07 |
| AADAT | 1,86182 | 1,37E-07 |
| NADK2 | 1,85876 | 1,24E-11 |
| WIBG | 1,856223 | 4,09E-13 |
| MYO6 | 1,854099 | 3,02E-20 |
| USP6NL | 1,853609 | 5,13E-12 |
| TTC19 | 1,85162 | 7,04E-12 |
| PPCDC | 1,851452 | 2,30E-07 |
| C20orf27 | 1,849498 | 1,64E-20 |
| CYB5D2 | 1,849045 | 2,92E-08 |
| TRAPPC2L | 1,847447 | 3,37E-15 |
| SPATA33 | 1,846886 | 1,96E-09 |
| SPIRE2 | 1,845057 | 0,000265 |
| RBM38 | 1,842843 | 2,12E-14 |

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| HMHA1 | 1,837955 | 7,94E-06 |
| ZNF572 | 1,835975 | 0,000659 |
| RPS3 | 1,835934 | 1,68E-15 |
| LINC01521 | 1,834249 | 0,000685 |
| IFI30 | 1,833452 | 1,94E-08 |
| ZFP69B | 1,83134 | 4,63E-05 |
| ZNF552 | 1,82973 | 0,000907 |
| SETMAR | 1,828047 | 1,86E-10 |
| N4BP2 | 1,827022 | 3,87E-06 |
| ZNF37BP | 1,825624 | 8,89E-05 |
| PRSS23 | 1,823838 | 6,95E-09 |
| FAM222A | 1,823275 | 7,72E-12 |
| LINC01004 | 1,817787 | 0,000739 |
| DANCR | 1,817711 | 4,00E-10 |
| PVRL1 | 1,817504 | 8,65E-07 |
| NFXL1 | 1,815723 | 7,76E-05 |
| CHCHD10 | 1,814073 | 4,17E-19 |
| CBLL1 | 1,813919 | 8,57E-13 |
| PXYLP1 | 1,81364 | 0,000195 |
| SNHG25 | 1,809447 | 2,44E-05 |
| SUMF1 | 1,808913 | 2,50E-07 |
| MCM7 | 1,807716 | 1,33E-16 |
| FAM134B | 1,807421 | 0,000856 |
| MRPL11 | 1,806468 | 1,49E-20 |
| ZNF138 | 1,8051 | 6,20E-10 |
| SLC50A1 | 1,803743 | 1,20E-14 |
| GLUL | 1,803293 | 2,27E-18 |
| AXIN2 | 1,802006 | 7,62E-19 |
| TRIAP1 | 1,8017 | 1,33E-10 |
| PATZ1 | 1,800782 | 1,89E-10 |
| MZT2A | 1,799285 | 3,68E-07 |
| SFT2D3 | 1,798247 | 4,51E-06 |
| MAN2A2 | 1,796217 | 9,47E-06 |
| LYSMD2 | 1,796023 | 1,04E-09 |
| ACTR6 | 1,795106 | 6,88E-11 |
| PPP1R16A | 1,795033 | 4,08E-09 |
| PEX10 | 1,789174 | 1,44E-13 |
| ERMP1 | 1,788889 | 2,49E-07 |
| ATP5S | 1,78787 | 0,000138 |
| SLC25A15 | 1,786721 | 1,38E-08 |
| EHMT2 | 1,785871 | 2,13E-24 |
| WDR59 | 1,782655 | 4,99E-10 |
| PECR | 1,780711 | 4,75E-05 |
| NFIA | 1,780319 | 1,62E-06 |
| GNPTAB | 1,780076 | 1,95E-14 |
| C14orf1 | 1,779046 | 4,56E-06 |
| KIF27 | 1,777702 | 0,000414 |
| ZRANB3 | 1,777016 | 2,34E-05 |
| TET1 | 1,775689 | 0,000315 |
| TLE3 | 1,772646 | 1,75E-21 |

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| SLC12A9 | 1,769796 | 6,06E-06 |
| CCS | 1,769106 | 0,00028 |
| RCOR1 | 1,766899 | 1,81E-14 |
| PPAP2A | 1,764088 | 4,48E-07 |
| ARPC1B | 1,763175 | 5,10E-10 |
| WDR83OS | 1,760768 | 7,74E-19 |
| ARHGEF3 | 1,760545 | 1,67E-08 |
| TMEM243 | 1,759703 | 4,03E-05 |
| ZFH3 | 1,758663 | 4,54E-11 |
| ZNF524 | 1,756572 | 7,16E-06 |
| ZFAS1 | 1,756349 | 0,000978 |
| TMEM170A | 1,75631 | 9,39E-05 |
| EMB | 1,755324 | 7,13E-11 |
| KLHDC2 | 1,754786 | 9,60E-08 |
| WDR60 | 1,753781 | 6,82E-07 |
| VTI1B | 1,753633 | 7,25E-11 |
| CRNDE | 1,751787 | 0,000118 |
| CASP6 | 1,751759 | 1,54E-08 |
| PRKAR1B | 1,750418 | 1,21E-16 |
| ATMIN | 1,750178 | 5,93E-16 |
| ADD3 | 1,749647 | 4,19E-09 |
| GPR153 | 1,746415 | 9,06E-06 |
| LRRC75A-A | 1,746218 | 1,05E-07 |
| C12orf66 | 1,745607 | 0,000101 |
| ZNF687 | 1,745124 | 3,16E-20 |
| CRIP2 | 1,744888 | 3,30E-16 |
| SRD5A3 | 1,744536 | 2,42E-09 |
| HMG1 | 1,74279 | 1,52E-20 |
| COA5 | 1,740389 | 9,38E-10 |
| PSMD5-AS1 | 1,738834 | 4,80E-05 |
| GIN5 | 1,734278 | 8,93E-11 |
| RSBN1 | 1,734077 | 1,90E-11 |
| XPOT | 1,733912 | 9,31E-12 |
| ACACB | 1,733896 | 0,000135 |
| ATXN7L1 | 1,733583 | 9,85E-08 |
| MLYCD | 1,732661 | 2,63E-07 |
| HIPK1 | 1,729947 | 4,30E-16 |
| TMEM129 | 1,729452 | 2,18E-05 |
| NDUFA7 | 1,72832 | 9,73E-08 |
| COG5 | 1,72825 | 2,28E-14 |
| ZNF766 | 1,72766 | 1,22E-12 |
| TCF25 | 1,72755 | 3,48E-15 |
| DCLRE1B | 1,727541 | 2,68E-10 |
| MTHFR | 1,725476 | 1,46E-05 |
| ZNF624 | 1,724365 | 0,000976 |
| POLR2J | 1,723672 | 1,37E-11 |
| TRNT1 | 1,723652 | 6,57E-05 |
| GPHN | 1,720603 | 5,31E-12 |
| ISOC1 | 1,72057 | 3,78E-12 |
| RNF187 | 1,720464 | 2,61E-08 |

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| FAM172A | 1,715962 | 1,17E-07 |
| PRICKLE2 | 1,715857 | 2,28E-05 |
| C14orf2 | 1,714192 | 6,49E-18 |
| ATP5D | 1,711968 | 2,96E-18 |
| SLC26A11 | 1,711233 | 0,000151 |
| SLC2A4RG | 1,7096 | 9,99E-15 |
| ZNF485 | 1,704718 | 0,000194 |
| ENDOG | 1,703823 | 4,60E-09 |
| PPM1A | 1,703019 | 6,29E-07 |
| TMEM37 | 1,702418 | 8,79E-06 |
| TST | 1,701228 | 0,000567 |
| GRK6 | 1,700232 | 1,86E-19 |
| HEATR5A | 1,698098 | 6,57E-08 |
| FAM189B | 1,697484 | 8,85E-10 |
| DTNB | 1,696495 | 7,52E-09 |
| SHROOM3 | 1,693848 | 2,41E-11 |
| ATP5A1 | 1,693419 | 2,87E-23 |
| PYCR1 | 1,692536 | 1,62E-11 |
| KIAA0195 | 1,690288 | 7,87E-09 |
| LOXL3 | 1,690267 | 0,000224 |
| SPATA13 | 1,687815 | 1,55E-06 |
| FERMT1 | 1,686332 | 8,03E-05 |
| ISOC2 | 1,686328 | 2,76E-19 |
| PTPRS | 1,685469 | 1,74E-13 |
| RPSAP58 | 1,685406 | 3,22E-15 |
| SCML2 | 1,684653 | 0,0007 |
| ACAA1 | 1,683916 | 3,42E-06 |
| PUS7 | 1,683416 | 1,81E-10 |
| SAYSD1 | 1,68158 | 5,51E-08 |
| ENSA | 1,681421 | 1,07E-22 |
| MARCH8 | 1,681049 | 1,28E-05 |
| ANK3 | 1,680761 | 6,55E-08 |
| EIF2D | 1,675928 | 4,62E-13 |
| NBPF1 | 1,6743 | 1,53E-06 |
| GTF3A | 1,674053 | 1,07E-18 |
| TSPAN33 | 1,67395 | 9,38E-05 |
| MANEAL | 1,673615 | 1,35E-09 |
| CDC25B | 1,673612 | 6,97E-14 |
| PPP1R35 | 1,673349 | 2,36E-06 |
| ICAM3 | 1,672661 | 0,000314 |
| ATP5J2 | 1,671828 | 8,17E-10 |
| ZNF816 | 1,671338 | 5,34E-05 |
| TRPM7 | 1,669232 | 1,93E-19 |
| DNAJC30 | 1,667505 | 2,39E-07 |
| FUT8 | 1,667096 | 1,50E-14 |
| TRIM4 | 1,666799 | 4,77E-07 |
| LAMTOR2 | 1,665688 | 1,82E-12 |
| NLN | 1,665655 | 2,12E-14 |
| SHTN1 | 1,665494 | 5,59E-15 |
| ENDOV | 1,664402 | 2,44E-06 |

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| CAMK2N2 | 1,663811 | 0,000651 |
| FBXL19 | 1,663763 | 2,66E-13 |
| ULK1 | 1,663334 | 5,13E-08 |
| NOL3 | 1,661308 | 1,13E-07 |
| TTC12 | 1,659495 | 0,000623 |
| MPG | 1,659007 | 3,42E-11 |
| G6PC3 | 1,657362 | 1,83E-11 |
| RBL2 | 1,653021 | 5,87E-09 |
| EFCAB11 | 1,652874 | 9,10E-06 |
| NIPAL2 | 1,651711 | 0,000437 |
| ZNF14 | 1,650307 | 0,000154 |
| ZNF277 | 1,648854 | 8,74E-07 |
| LTBP3 | 1,648382 | 6,01E-08 |
| FAM175A | 1,647399 | 9,76E-08 |
| TRAF4 | 1,646999 | 8,00E-13 |
| PLXDC2 | 1,646834 | 1,51E-05 |
| CCDC115 | 1,64499 | 7,70E-08 |
| CTC1 | 1,644876 | 9,17E-08 |
| ABHD17C | 1,644094 | 0,000626 |
| RPL22L1 | 1,643909 | 6,20E-07 |
| CHST15 | 1,643672 | 2,01E-09 |
| TMOD2 | 1,64313 | 4,44E-05 |
| DCTPP1 | 1,642036 | 2,16E-13 |
| ALDH3A2 | 1,640401 | 1,84E-17 |
| RALGPS2 | 1,639781 | 6,46E-09 |
| HMBS | 1,638692 | 2,23E-12 |
| VPS72 | 1,635462 | 2,98E-08 |
| KNOP1 | 1,635214 | 1,86E-09 |
| EZH1 | 1,635135 | 0,000769 |
| ZSCAN2 | 1,635122 | 9,09E-09 |
| ZNF720 | 1,635019 | 0,000123 |
| IER5L | 1,633869 | 3,39E-05 |
| CALM1 | 1,632352 | 7,93E-10 |
| LRRC1 | 1,632016 | 2,04E-08 |
| PNMA1 | 1,630979 | 1,06E-10 |
| CHCHD6 | 1,630505 | 8,04E-06 |
| PAPSS1 | 1,629269 | 1,77E-05 |
| GID8 | 1,627188 | 2,16E-17 |
| BDH1 | 1,626953 | 2,44E-11 |
| C14orf80 | 1,626784 | 1,08E-10 |
| INPP4B | 1,626274 | 1,92E-05 |
| ZNF821 | 1,625996 | 7,19E-05 |
| CHMP1B | 1,623617 | 1,82E-11 |
| GABBR1 | 1,623241 | 0,00079 |
| GPX4 | 1,622008 | 5,29E-20 |
| CDH24 | 1,621851 | 8,06E-09 |
| RPL13 | 1,61737 | 8,67E-14 |
| DPAGT1 | 1,615532 | 2,09E-12 |
| MFSD9 | 1,615493 | 4,83E-05 |
| NSD1 | 1,615293 | 6,24E-16 |

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| C12orf73 | 1,613635 | 0,000195 |
| EBAG9 | 1,612681 | 1,91E-08 |
| ERMAP | 1,611004 | 0,000899 |
| WDR34 | 1,61057 | 5,92E-17 |
| MSRB1 | 1,609883 | 3,78E-06 |
| ZFPM1 | 1,60938 | 3,72E-06 |
| YEATS4 | 1,608328 | 6,96E-06 |
| NDUFV1 | 1,606715 | 8,68E-14 |
| SMPD2 | 1,606566 | 0,000497 |
| SNAPC5 | 1,60576 | 2,53E-06 |
| LIG1 | 1,605663 | 3,30E-13 |
| SLC39A6 | 1,605592 | 7,10E-08 |
| HDHD2 | 1,605339 | 3,49E-06 |
| SOS2 | 1,604938 | 6,49E-07 |
| CTAGE5 | 1,604838 | 0,000951 |
| CDK2AP2 | 1,60342 | 6,78E-11 |
| SETDB1 | 1,601843 | 1,30E-12 |
| AKAP9 | 1,601383 | 6,22E-07 |
| HEXDC | 1,600995 | 0,000229 |
| ADRBK2 | 1,60074 | 1,66E-05 |
| BPHL | 1,600008 | 1,50E-07 |
| MAPK8IP1 | 1,595586 | 1,10E-08 |
| ZFP30 | 1,587723 | 0,000235 |
| ASMTL | 1,587099 | 6,82E-06 |
| RNF103 | 1,586805 | 9,15E-06 |
| TMEM120/ | 1,585463 | 1,12E-06 |
| SEC11C | 1,585223 | 1,17E-06 |
| RAB1B | 1,584323 | 1,90E-06 |
| ZNF91 | 1,584207 | 3,55E-09 |
| BCAS2 | 1,584164 | 1,20E-16 |
| IQGAP3 | 1,584156 | 0,000236 |
| NPM3 | 1,583593 | 9,95E-08 |
| SMAGP | 1,582926 | 2,02E-09 |
| ACSF3 | 1,581826 | 1,56E-10 |
| LYRM1 | 1,58173 | 3,46E-06 |
| MXD3 | 1,581474 | 8,57E-06 |
| ZNF490 | 1,574291 | 0,000348 |
| CHCHD4 | 1,574256 | 4,87E-06 |
| PDCD2 | 1,573336 | 1,36E-14 |
| ONECUT2 | 1,572192 | 3,78E-06 |
| ANXA4 | 1,571865 | 1,03E-08 |
| NARS2 | 1,570482 | 1,28E-07 |
| PCDHB16 | 1,570138 | 0,000133 |
| HSPA4L | 1,568353 | 0,000522 |
| ACTR3B | 1,567716 | 1,56E-08 |
| TMEM265 | 1,565851 | 9,68E-06 |
| ZNF429 | 1,56551 | 2,94E-06 |
| PBX2 | 1,562145 | 2,15E-13 |
| PPFIA3 | 1,561481 | 7,52E-11 |
| SMDT1 | 1,55971 | 7,89E-05 |

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| ZNF764 | 1,558599 | 1,02E-05 |
| CYB5A | 1,556601 | 3,70E-06 |
| EAPP | 1,554809 | 3,91E-09 |
| DGCR6L | 1,551807 | 4,83E-11 |
| PNPO | 1,551323 | 2,57E-08 |
| RPLP0 | 1,549083 | 3,69E-18 |
| TCTN1 | 1,545753 | 2,86E-07 |
| ANKEF1 | 1,544823 | 1,15E-07 |
| GDE1 | 1,544799 | 4,89E-10 |
| AHCY | 1,543915 | 2,72E-10 |
| PPP1R3D | 1,543339 | 2,79E-05 |
| EBPL | 1,542646 | 0,000122 |
| TMOD3 | 1,542362 | 9,50E-12 |
| PFKFB2 | 1,542327 | 1,86E-06 |
| THAP5 | 1,541725 | 2,06E-09 |
| CUL9 | 1,540075 | 2,51E-07 |
| METTL4 | 1,537601 | 7,37E-05 |
| SQLE | 1,53663 | 1,23E-12 |
| MLST8 | 1,536595 | 5,50E-14 |
| PCLO | 1,536313 | 7,58E-06 |
| FAM102A | 1,535864 | 7,72E-12 |
| RHOB | 1,532373 | 2,99E-09 |
| MAPK3 | 1,530696 | 1,18E-05 |
| B3GNT2 | 1,529971 | 7,09E-05 |
| ZNF616 | 1,528642 | 9,84E-09 |
| TPBG | 1,528623 | 7,80E-14 |
| ILVBL | 1,527468 | 4,14E-14 |
| HR | 1,527185 | 5,41E-09 |
| AK4 | 1,526671 | 5,05E-08 |
| RPS29 | 1,525823 | 1,38E-07 |
| PCNXL3 | 1,525462 | 7,25E-11 |
| CLNS1A | 1,524606 | 4,57E-15 |
| ECHS1 | 1,524305 | 1,89E-12 |
| ZNF627 | 1,523422 | 5,37E-09 |
| CIRBP | 1,523411 | 6,72E-06 |
| SOX12 | 1,522995 | 2,09E-15 |
| ZBTB25 | 1,521851 | 0,000474 |
| PCYOX1 | 1,521459 | 5,25E-08 |
| RABIF | 1,521343 | 8,39E-08 |
| FAR2 | 1,520309 | 3,58E-07 |
| ADCY3 | 1,519559 | 7,73E-10 |
| ZNF675 | 1,516391 | 2,06E-06 |
| SIKE1 | 1,516336 | 1,34E-13 |
| BCL7C | 1,515885 | 1,53E-10 |
| PSEN1 | 1,51418 | 5,55E-11 |
| LMTK2 | 1,508559 | 2,15E-11 |
| MAP3K11 | 1,506943 | 6,33E-06 |
| SLC22A23 | 1,505695 | 1,06E-12 |
| PTPMT1 | 1,504631 | 1,71E-10 |
| SLC25A1 | 1,504579 | 5,21E-08 |

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| ZNF205 | 1,504514 | 7,03E-09 |
| CHD3 | 1,503458 | 1,37E-12 |
| PPP1CA | 1,499916 | 1,49E-18 |
| NDUFB10 | 1,498652 | 1,56E-12 |
| INTS3 | 1,49795 | 4,02E-10 |
| INTS2 | 1,496846 | 1,24E-08 |
| DNAAF2 | 1,495762 | 6,98E-10 |
| PDE4DIP | 1,494538 | 1,06E-05 |
| ITGA2 | 1,494087 | 9,95E-05 |
| PSME1 | 1,492963 | 7,28E-10 |
| ZNF704 | 1,492468 | 2,78E-07 |
| FRAT2 | 1,492144 | 0,000513 |
| ELMOD2 | 1,489231 | 7,44E-08 |
| VPS13A | 1,488285 | 8,86E-08 |
| EXOC6 | 1,487957 | 8,05E-06 |
| ZNHIT1 | 1,487181 | 5,27E-05 |
| SIMC1 | 1,484965 | 0,000306 |
| ZNF84 | 1,484252 | 1,16E-08 |
| RDH13 | 1,48391 | 2,17E-08 |
| CCDC71L | 1,483587 | 0,000769 |
| ADRBK1 | 1,483144 | 4,62E-08 |
| EPM2AIP1 | 1,480913 | 3,04E-05 |
| C6orf120 | 1,480514 | 4,56E-07 |
| ADAT1 | 1,47927 | 2,13E-11 |
| NUBP2 | 1,478648 | 8,77E-12 |
| ADI1 | 1,477876 | 1,41E-11 |
| POLR1D | 1,476078 | 1,86E-14 |
| TLDC1 | 1,475403 | 3,29E-05 |
| CCPG1 | 1,475025 | 6,71E-05 |
| ANAPC16 | 1,472985 | 1,92E-11 |
| ORC5 | 1,472818 | 4,09E-05 |
| IMPACT | 1,472815 | 4,64E-07 |
| SYPL1 | 1,472575 | 7,44E-11 |
| PCDHB14 | 1,471393 | 4,31E-05 |
| CFAP36 | 1,469565 | 2,36E-06 |
| BRWD1 | 1,469072 | 4,08E-09 |
| PKMYT1 | 1,468509 | 4,71E-08 |
| MDM4 | 1,466459 | 2,28E-05 |
| HIP1R | 1,465527 | 1,04E-07 |
| ARSD | 1,464476 | 0,000567 |
| SCARB2 | 1,461615 | 3,08E-09 |
| RABL2B | 1,461185 | 0,000371 |
| CNOT6 | 1,460618 | 2,39E-11 |
| CCNJ | 1,460076 | 2,50E-08 |
| GLI4 | 1,458828 | 0,000759 |
| CASKIN2 | 1,458788 | 2,82E-10 |
| TMEM187 | 1,458302 | 0,000982 |
| STRBP | 1,457851 | 3,38E-09 |
| FRS2 | 1,456657 | 5,76E-06 |
| MED13L | 1,455878 | 1,67E-07 |

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| MTMR14 | 1,45435 | 9,84E-06 |
| PAXIP1-AS1 | 1,452012 | 0,00058 |
| ZNF718 | 1,451624 | 3,46E-05 |
| ZKSCAN5 | 1,45098 | 2,65E-07 |
| MTA3 | 1,450309 | 7,78E-09 |
| PIGQ | 1,448367 | 7,80E-07 |
| PTBP3 | 1,447328 | 7,39E-09 |
| CPT1A | 1,447157 | 3,56E-13 |
| OS9 | 1,443966 | 1,70E-05 |
| C4orf3 | 1,443024 | 5,33E-05 |
| JUNB | 1,442203 | 0,000198 |
| MTIF3 | 1,441651 | 8,31E-07 |
| FAM120B | 1,441401 | 1,18E-06 |
| SOS1 | 1,440184 | 2,74E-09 |
| DTD2 | 1,438529 | 0,000387 |
| TMEM241 | 1,438004 | 5,00E-07 |
| DMXL2 | 1,437112 | 8,99E-11 |
| VPS4B | 1,43643 | 1,28E-09 |
| TMEM186 | 1,436155 | 3,11E-05 |
| ZNF703 | 1,435863 | 9,62E-13 |
| SETD6 | 1,435755 | 6,41E-05 |
| TRIM59 | 1,435709 | 7,66E-05 |
| PP7080 | 1,43563 | 9,47E-06 |
| NUDCD2 | 1,434983 | 1,50E-07 |
| AKT1 | 1,434803 | 6,66E-08 |
| EIF4EBP2 | 1,433774 | 9,05E-06 |
| CABLES2 | 1,432036 | 9,99E-07 |
| HAUS1 | 1,430817 | 4,08E-06 |
| AP4E1 | 1,430691 | 9,82E-08 |
| COX18 | 1,429547 | 1,30E-05 |
| MCCC2 | 1,428335 | 2,53E-08 |
| COX6C | 1,428309 | 1,23E-10 |
| RETSAT | 1,427911 | 3,08E-07 |
| ATP13A2 | 1,426477 | 2,58E-06 |
| OXSM | 1,425818 | 0,000115 |
| RPS25 | 1,425259 | 4,18E-10 |
| GPD1L | 1,425129 | 1,82E-05 |
| ZNF480 | 1,42404 | 3,18E-06 |
| ZNF286A | 1,423224 | 2,82E-08 |
| KDM5B | 1,423219 | 2,92E-06 |
| ESYT2 | 1,421289 | 6,55E-12 |
| TGIF2 | 1,420834 | 7,28E-06 |
| H3F3AP4 | 1,420488 | 2,06E-09 |
| SMYD2 | 1,420216 | 0,000322 |
| FAM86C1 | 1,420025 | 1,43E-06 |
| VPS35 | 1,418895 | 1,27E-13 |
| ADCK1 | 1,418661 | 7,61E-05 |
| DBN1 | 1,418411 | 1,12E-15 |
| UNG | 1,416136 | 3,08E-10 |
| ZDHHC12 | 1,416053 | 3,78E-06 |

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| LOC90784 | 1,412956 | 1,00E-07 |
| REL | 1,412032 | 8,33E-05 |
| PCMTD2 | 1,41152 | 0,000787 |
| KIAA1522 | 1,411177 | 2,17E-13 |
| APOA1BP | 1,41102 | 1,73E-09 |
| C22orf29 | 1,409395 | 0,000173 |
| BRK1 | 1,408909 | 2,92E-11 |
| MIPEP | 1,408843 | 8,57E-08 |
| MZT2B | 1,408597 | 2,76E-08 |
| NFIB | 1,406256 | 1,30E-06 |
| SUV420H1 | 1,404569 | 6,38E-11 |
| RPLP1 | 1,404294 | 5,45E-06 |
| COX14 | 1,403056 | 1,43E-06 |
| TRMT10A | 1,402448 | 0,00094 |
| ADGRL1 | 1,402058 | 4,08E-11 |
| FAM45A | 1,401654 | 3,35E-06 |
| ACADSB | 1,401202 | 3,47E-05 |
| MLLT4 | 1,40021 | 3,17E-06 |
| ZNF710 | 1,400147 | 6,75E-08 |
| KCTD3 | 1,399346 | 1,21E-11 |
| YIF1A | 1,399211 | 3,74E-12 |
| NAMPT | 1,396604 | 8,12E-09 |
| PRUNE | 1,39609 | 1,01E-09 |
| SRR | 1,393544 | 0,000557 |
| MFSD10 | 1,389426 | 4,71E-08 |
| SYNJ2BP | 1,38836 | 0,000195 |
| CEP68 | 1,387581 | 8,03E-06 |
| SIPA1L1 | 1,386683 | 2,79E-11 |
| NPR3 | 1,386128 | 0,000368 |
| FBXW8 | 1,385672 | 4,25E-08 |
| HSCB | 1,383644 | 2,35E-05 |
| FAM110A | 1,383427 | 0,000118 |
| MXD4 | 1,383272 | 0,000929 |
| MED28 | 1,382231 | 8,05E-08 |
| UBAC1 | 1,381132 | 1,69E-11 |
| S100A10 | 1,380711 | 2,49E-09 |
| LRFN4 | 1,380081 | 2,55E-09 |
| DHPS | 1,379804 | 8,72E-08 |
| SFXN4 | 1,379125 | 8,84E-08 |
| SCARB1 | 1,377498 | 9,12E-07 |
| GRN | 1,376396 | 0,000113 |
| HSD17B4 | 1,376273 | 1,93E-07 |
| SRI | 1,37416 | 8,90E-07 |
| ZNF254 | 1,374146 | 2,34E-05 |
| TNPO2 | 1,373216 | 5,15E-05 |
| METTL8 | 1,372768 | 3,24E-05 |
| LY6E | 1,372409 | 2,93E-05 |
| CTBP2 | 1,371843 | 3,07E-12 |
| TM7SF3 | 1,371455 | 1,44E-06 |
| TRMT112 | 1,368434 | 1,13E-08 |

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| ZNF394 | 1,368214 | 0,000645 |
| NSMCE4A | 1,367228 | 3,41E-06 |
| STX6 | 1,366745 | 1,51E-10 |
| WDR54 | 1,366023 | 4,77E-05 |
| MAPK6 | 1,364969 | 1,66E-11 |
| POLR1A | 1,364301 | 1,30E-08 |
| STX10 | 1,363146 | 2,98E-06 |
| SGPL1 | 1,362901 | 2,33E-09 |
| KREMEN1 | 1,362842 | 0,000204 |
| VIPAS39 | 1,362097 | 1,71E-07 |
| TCF3 | 1,360946 | 5,26E-13 |
| ANKRD50 | 1,360407 | 1,33E-06 |
| ABHD14B | 1,360277 | 8,12E-06 |
| RPL41 | 1,360262 | 4,01E-12 |
| NEDD1 | 1,359517 | 1,28E-07 |
| PARP16 | 1,358969 | 0,000132 |
| PCCB | 1,358779 | 3,81E-11 |
| AGA | 1,358565 | 0,000949 |
| PLEKHA1 | 1,358066 | 0,000669 |
| LIG3 | 1,357278 | 2,98E-09 |
| NAPG | 1,356531 | 1,25E-05 |
| ARPP19 | 1,35592 | 1,46E-13 |
| GABPB1 | 1,355614 | 8,22E-07 |
| VPS50 | 1,35335 | 0,000229 |
| CHEK2 | 1,352619 | 9,92E-05 |
| CCDC53 | 1,350969 | 0,000546 |
| KIAA1671 | 1,349825 | 2,34E-05 |
| CCNI | 1,348452 | 1,77E-08 |
| LEF1 | 1,347016 | 5,29E-06 |
| RAB11FIP3 | 1,345601 | 6,19E-05 |
| ESCO1 | 1,345598 | 4,66E-07 |
| EXOC4 | 1,343408 | 4,35E-08 |
| AHR | 1,342473 | 6,09E-10 |
| FAM120AC | 1,340297 | 3,23E-06 |
| PIP4K2C | 1,340205 | 1,92E-05 |
| POLR2G | 1,340152 | 1,11E-10 |
| RPAIN | 1,336928 | 1,65E-08 |
| TMEM64 | 1,336395 | 2,47E-10 |
| SAC3D1 | 1,335956 | 6,02E-07 |
| TAB3 | 1,335508 | 0,000101 |
| KRCC1 | 1,335024 | 8,66E-06 |
| FLYWCH2 | 1,334891 | 9,85E-07 |
| LPCAT3 | 1,332333 | 0,000121 |
| NDUFB1 | 1,32956 | 4,19E-07 |
| NDUFS8 | 1,329363 | 8,40E-11 |
| MRM1 | 1,328454 | 0,000449 |
| MIS18BP1 | 1,328224 | 0,000116 |
| TMEM251 | 1,32697 | 5,50E-07 |
| KDM6B | 1,326799 | 1,59E-08 |
| CENPH | 1,326506 | 0,000394 |

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| ASB13 | 1,325568 | 2,50E-06 |
| TCAF1 | 1,325269 | 5,50E-06 |
| KLHL36 | 1,32288 | 1,31E-08 |
| HIGD2A | 1,321822 | 5,89E-13 |
| PAFAH1B3 | 1,320679 | 7,66E-10 |
| PPAP2C | 1,320635 | 9,67E-06 |
| PSRC1 | 1,319806 | 2,53E-05 |
| ISCU | 1,319281 | 1,67E-07 |
| DHX40 | 1,319265 | 1,48E-09 |
| CCDC90B | 1,318993 | 4,77E-05 |
| BBS10 | 1,318799 | 0,000447 |
| MYD88 | 1,3185 | 1,60E-05 |
| MSH3 | 1,316345 | 7,33E-06 |
| DNMT3A | 1,315263 | 1,10E-08 |
| ACVR1B | 1,314888 | 6,79E-07 |
| NLRX1 | 1,314639 | 6,28E-05 |
| DDX6 | 1,313418 | 1,25E-07 |
| LINC01184 | 1,3112 | 6,13E-05 |
| MSMO1 | 1,307317 | 0,000779 |
| HDHD3 | 1,30702 | 2,20E-05 |
| CIPC | 1,305592 | 5,41E-05 |
| CTDSPL | 1,305335 | 2,00E-06 |
| POLR2J3 | 1,305099 | 0,00099 |
| GABPB2 | 1,304988 | 0,000186 |
| MSL3P1 | 1,304961 | 0,000311 |
| BCL7A | 1,304773 | 1,62E-07 |
| LINC00938 | 1,303275 | 0,000963 |
| LEO1 | 1,299512 | 1,36E-11 |
| CHMP4A | 1,297951 | 7,27E-06 |
| PEX26 | 1,296685 | 1,05E-08 |
| C19orf60 | 1,295582 | 1,68E-06 |
| GTF2I | 1,295255 | 1,57E-11 |
| FBXL15 | 1,295053 | 0,000164 |
| FAM133B | 1,294892 | 0,000108 |
| PICK1 | 1,294728 | 6,77E-05 |
| PANK1 | 1,293338 | 1,26E-05 |
| COX20 | 1,292111 | 6,70E-06 |
| BLVRB | 1,29186 | 0,000742 |
| RNF169 | 1,289095 | 1,16E-05 |
| PLXNA3 | 1,288459 | 0,000268 |
| ZMYND11 | 1,288326 | 8,33E-06 |
| PIGV | 1,288209 | 0,000594 |
| RPS15A | 1,287591 | 2,06E-08 |
| ERP29 | 1,287022 | 1,34E-06 |
| SIVA1 | 1,286808 | 4,38E-07 |
| IGSF3 | 1,286523 | 0,000466 |
| PTRHD1 | 1,28582 | 5,14E-05 |
| COX5B | 1,285643 | 1,92E-10 |
| TRIM41 | 1,285045 | 2,52E-06 |
| MVK | 1,283493 | 0,000464 |

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| PHKA2 | 1,282427 | 3,17E-05 |
| USP8 | 1,282385 | 5,79E-12 |
| CAT | 1,28111 | 1,05E-07 |
| ATP5G2 | 1,280033 | 2,95E-11 |
| DEPDC1B | 1,279336 | 9,88E-06 |
| COL18A1 | 1,278955 | 6,74E-09 |
| AFTPH | 1,278944 | 1,43E-07 |
| SRPK2 | 1,278799 | 4,42E-10 |
| RPS3A | 1,278333 | 2,44E-05 |
| NDUFA3 | 1,277125 | 1,38E-06 |
| TARS2 | 1,276639 | 1,45E-06 |
| FMNL2 | 1,27526 | 4,70E-06 |
| RHBDD2 | 1,274024 | 5,08E-07 |
| TMEM161/ | 1,27358 | 8,54E-05 |
| NBPF3 | 1,271929 | 0,000498 |
| ALDH16A1 | 1,271799 | 2,14E-06 |
| PRDM4 | 1,271686 | 3,14E-12 |
| BCKDK | 1,271599 | 3,43E-08 |
| CCDC85B | 1,270974 | 3,29E-10 |
| RAB40C | 1,270699 | 4,49E-05 |
| ZNF768 | 1,269273 | 1,10E-08 |
| PAWR | 1,269038 | 0,000354 |
| GSKIP | 1,268565 | 4,76E-05 |
| TRIM56 | 1,268552 | 0,000126 |
| SELO | 1,268534 | 8,58E-06 |
| MDH2 | 1,268188 | 3,31E-09 |
| C11orf73 | 1,267401 | 3,44E-06 |
| COX7C | 1,267023 | 2,82E-12 |
| YIPF2 | 1,266281 | 3,55E-07 |
| DCP2 | 1,26421 | 5,76E-09 |
| NOA1 | 1,261262 | 3,81E-05 |
| TTC39C | 1,260415 | 4,51E-05 |
| YDJC | 1,260406 | 1,67E-06 |
| CARM1 | 1,259114 | 1,28E-09 |
| ARF3 | 1,255603 | 1,56E-08 |
| SMUG1 | 1,253212 | 7,75E-05 |
| TTC8 | 1,252787 | 4,41E-05 |
| TAMM41 | 1,252624 | 3,78E-06 |
| SEH1L | 1,251557 | 2,12E-07 |
| CTNNBIP1 | 1,24822 | 1,09E-05 |
| KIAA0100 | 1,247515 | 4,07E-05 |
| ATXN1L | 1,247326 | 5,32E-09 |
| COX4I1 | 1,244938 | 1,31E-11 |
| TRMT5 | 1,244457 | 7,57E-08 |
| ARL8A | 1,241869 | 8,32E-09 |
| NLK | 1,240583 | 6,17E-05 |
| GPATCH2 | 1,240273 | 4,75E-07 |
| SLC25A13 | 1,239923 | 4,80E-06 |
| TMEM160 | 1,23824 | 0,00091 |
| BANF1 | 1,238064 | 6,46E-08 |

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| TMED3 | 1,234651 | 8,69E-07 |
| FASN | 1,233407 | 0,000561 |
| NAGLU | 1,23316 | 4,25E-05 |
| PDCL3 | 1,232179 | 3,33E-06 |
| CMTM8 | 1,230932 | 0,000475 |
| MAP2K5 | 1,230211 | 7,47E-06 |
| MAZ | 1,229903 | 9,19E-10 |
| SEL1L | 1,228654 | 3,88E-11 |
| PSMD7 | 1,228027 | 1,27E-11 |
| UQCRC2 | 1,227683 | 8,01E-12 |
| ARL2 | 1,227584 | 0,000139 |
| ANAPC1 | 1,22668 | 4,03E-09 |
| CHRNA5 | 1,226287 | 1,29E-06 |
| CNNM4 | 1,220082 | 6,47E-06 |
| TOB1 | 1,21928 | 6,48E-05 |
| MKL2 | 1,218097 | 4,25E-06 |
| GNAS | 1,21703 | 1,61E-11 |
| MRPS33 | 1,216835 | 8,85E-07 |
| BCL2L11 | 1,216296 | 2,33E-05 |
| KAT2A | 1,215664 | 3,16E-09 |
| NRAS | 1,214509 | 8,06E-07 |
| PPA2 | 1,213836 | 2,12E-06 |
| NIT2 | 1,21322 | 0,000152 |
| RPIA | 1,211951 | 1,35E-05 |
| TMEM260 | 1,210796 | 0,000981 |
| RPS2 | 1,210586 | 1,17E-13 |
| NDUFB7 | 1,210264 | 5,70E-10 |
| YES1 | 1,208687 | 2,66E-06 |
| POGZ | 1,207278 | 2,62E-05 |
| ARHGAP39 | 1,20722 | 0,000349 |
| ITPKB | 1,206918 | 0,00062 |
| NDST2 | 1,205224 | 0,000567 |
| RASSF7 | 1,20451 | 0,000313 |
| ZBTB41 | 1,199786 | 0,000231 |
| PTPN18 | 1,198427 | 7,59E-08 |
| ZNF83 | 1,197672 | 0,000157 |
| HADH | 1,197671 | 0,000143 |
| ABCB6 | 1,19658 | 0,00061 |
| NBN | 1,195848 | 7,26E-09 |
| ZMIZ1 | 1,19577 | 1,88E-05 |
| PAAF1 | 1,195536 | 1,22E-06 |
| NR2F2 | 1,191998 | 1,49E-06 |
| EFTUD1 | 1,188514 | 2,65E-05 |
| AFG3L2 | 1,188442 | 5,17E-10 |
| FAM207A | 1,187486 | 1,18E-07 |
| PRKRIR | 1,186497 | 6,31E-08 |
| HMGA1 | 1,18581 | 5,97E-08 |
| ARFRP1 | 1,185502 | 2,34E-05 |
| LRSAM1 | 1,183968 | 0,000534 |
| ZNF107 | 1,183475 | 1,28E-06 |

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| WDR48 | 1,182382 | 0,000702 |
| IFT43 | 1,182074 | 6,97E-05 |
| KDM2A | 1,181242 | 2,99E-08 |
| TRRAP | 1,18067 | 3,03E-10 |
| ATP11C | 1,17982 | 2,45E-05 |
| GCC1 | 1,17953 | 1,91E-07 |
| SLC19A1 | 1,179092 | 2,43E-08 |
| C12orf57 | 1,17871 | 0,000181 |
| DDX41 | 1,178672 | 9,78E-10 |
| ZNHIT3 | 1,177838 | 0,000109 |
| PANK3 | 1,177112 | 3,96E-05 |
| PIGM | 1,175116 | 0,000358 |
| SETD5 | 1,17488 | 1,23E-05 |
| SREBF2 | 1,174314 | 3,18E-09 |
| HMGB2 | 1,173745 | 0,00062 |
| ZNF444 | 1,172698 | 2,44E-06 |
| HMGCS1 | 1,171385 | 0,000451 |
| TMED10 | 1,171221 | 1,50E-07 |
| GNPNAT1 | 1,169639 | 7,45E-07 |
| LPCAT1 | 1,168685 | 3,72E-06 |
| TSEN54 | 1,16861 | 7,54E-05 |
| BAG5 | 1,168262 | 1,88E-06 |
| KAT8 | 1,167139 | 0,000563 |
| TMEM97 | 1,166472 | 9,30E-08 |
| TMEM106C | 1,165785 | 1,32E-08 |
| KLF5 | 1,165713 | 3,04E-06 |
| ZNF680 | 1,158871 | 0,000651 |
| PSPC1 | 1,157804 | 4,64E-06 |
| LLGL1 | 1,157745 | 0,000265 |
| LRCH4 | 1,156144 | 1,97E-06 |
| FAM89B | 1,156115 | 3,64E-06 |
| PROSER1 | 1,154066 | 1,36E-09 |
| STX17 | 1,152959 | 4,21E-05 |
| NDUFC1 | 1,15289 | 8,23E-05 |
| MED21 | 1,151209 | 3,98E-05 |
| EMP2 | 1,150063 | 0,000375 |
| RPL32 | 1,149064 | 3,37E-07 |
| EZH2 | 1,148959 | 0,000319 |
| RINT1 | 1,147859 | 0,000118 |
| DGKZ | 1,147452 | 1,20E-06 |
| SMCHD1 | 1,145716 | 2,76E-06 |
| CRBN | 1,145158 | 0,000223 |
| MIB1 | 1,143133 | 9,60E-06 |
| RBM4 | 1,142697 | 5,99E-07 |
| POP7 | 1,14261 | 0,000289 |
| RBM8A | 1,138522 | 6,49E-09 |
| FNBP1L | 1,137775 | 1,05E-06 |
| ZNF160 | 1,136983 | 0,000103 |
| ZNF213 | 1,134405 | 9,02E-06 |
| BRF1 | 1,132477 | 0,000763 |

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| COX6A1 | 1,132275 | 5,87E-10 |
| NUP107 | 1,131013 | 1,56E-05 |
| SETD1B | 1,130488 | 5,76E-07 |
| NPRL3 | 1,130262 | 2,40E-08 |
| OXNAD1 | 1,129799 | 0,000546 |
| JTB | 1,128527 | 1,56E-07 |
| ACSL3 | 1,128116 | 0,00066 |
| PRR7 | 1,127059 | 9,12E-05 |
| C11orf30 | 1,126697 | 2,73E-05 |
| CENPBD1 | 1,125591 | 9,80E-05 |
| LTA4H | 1,125326 | 4,87E-06 |
| SPIDR | 1,123675 | 2,78E-06 |
| IGF1R | 1,123396 | 4,36E-07 |
| MLLT6 | 1,123267 | 8,57E-07 |
| LDB1 | 1,123077 | 1,06E-06 |
| MRPL57 | 1,122237 | 8,76E-08 |
| EEF1G | 1,120717 | 5,27E-11 |
| KARS | 1,120598 | 1,37E-07 |
| BRD7 | 1,119594 | 3,70E-07 |
| USP54 | 1,119239 | 2,16E-05 |
| ZNF689 | 1,117082 | 0,000155 |
| AP5S1 | 1,116507 | 2,97E-05 |
| TRAPPC4 | 1,113173 | 3,96E-05 |
| PHPT1 | 1,113136 | 2,18E-07 |
| IRX3 | 1,112743 | 4,98E-06 |
| SPG21 | 1,112516 | 4,95E-08 |
| PPP1R26 | 1,112499 | 0,000332 |
| RPRD1A | 1,110543 | 2,63E-05 |
| HSDL1 | 1,108184 | 0,000269 |
| AEN | 1,1079 | 1,46E-08 |
| PDAP1 | 1,107832 | 5,51E-08 |
| RPS6KB2 | 1,107646 | 3,49E-05 |
| PRDM15 | 1,107356 | 0,000208 |
| C7orf73 | 1,104022 | 1,87E-07 |
| SLC44A2 | 1,103166 | 3,37E-06 |
| RNF149 | 1,102819 | 4,61E-06 |
| TXLNG | 1,102365 | 0,000161 |
| CMTR2 | 1,101752 | 3,01E-05 |
| C16orf58 | 1,101658 | 1,84E-08 |
| EEF2K | 1,101624 | 2,60E-06 |
| HMGB3 | 1,101622 | 8,19E-10 |
| RGL2 | 1,101375 | 4,79E-05 |
| CBX5 | 1,101168 | 5,00E-06 |
| METTL9 | 1,098987 | 7,50E-07 |
| ZFP36L2 | 1,098478 | 0,000945 |
| FANCD2 | 1,097068 | 0,000196 |
| C9orf114 | 1,096502 | 2,65E-05 |
| GLTSCR1L | 1,096394 | 4,19E-05 |
| DICER1 | 1,091426 | 0,000277 |
| ZNF592 | 1,091135 | 4,54E-06 |

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| ZNF518A | 1,088821 | 0,000317 |
| VPS52 | 1,086363 | 6,31E-08 |
| MLH3 | 1,085281 | 0,000247 |
| TBC1D9B | 1,083073 | 4,05E-08 |
| RAD23A | 1,082126 | 1,88E-07 |
| RBCK1 | 1,081933 | 2,26E-07 |
| NUMA1 | 1,080998 | 2,23E-07 |
| EEF1B2 | 1,080138 | 2,73E-05 |
| TBL2 | 1,079487 | 2,55E-06 |
| SSSCA1 | 1,078989 | 0,000648 |
| VPS51 | 1,077312 | 1,21E-06 |
| SLC9A3R2 | 1,076564 | 1,20E-05 |
| UBQLN4 | 1,076159 | 1,68E-07 |
| KIAA1109 | 1,07615 | 2,82E-05 |
| EIF2B2 | 1,075791 | 2,17E-07 |
| MTHFD1 | 1,074766 | 2,85E-10 |
| RFX7 | 1,074153 | 7,47E-05 |
| ADGRG1 | 1,073976 | 1,86E-06 |
| TMEM258 | 1,073789 | 7,61E-05 |
| PPP4R3A | 1,073723 | 2,30E-07 |
| BNIP3 | 1,073357 | 2,71E-06 |
| STRA13 | 1,072092 | 6,83E-07 |
| NAA30 | 1,069888 | 1,75E-05 |
| LUC7L2 | 1,068389 | 0,000809 |
| RPRD2 | 1,067892 | 7,04E-07 |
| CBLB | 1,067084 | 0,00025 |
| DHRS7 | 1,06575 | 1,01E-05 |
| PEX13 | 1,064849 | 0,000217 |
| GOT1 | 1,064783 | 8,50E-07 |
| SMIM20 | 1,063712 | 0,000486 |
| TATDN1 | 1,063499 | 1,07E-05 |
| NEO1 | 1,062883 | 1,18E-06 |
| LSS | 1,06196 | 0,000408 |
| DBI | 1,061353 | 9,83E-08 |
| TSFM | 1,061244 | 4,10E-06 |
| PEBP1 | 1,060848 | 1,34E-08 |
| CLN6 | 1,05914 | 6,54E-08 |
| USP34 | 1,059055 | 2,05E-08 |
| MLH1 | 1,058634 | 3,78E-06 |
| SRSF8 | 1,058024 | 0,000448 |
| APH1A | 1,056461 | 7,58E-09 |
| ATP5L | 1,055816 | 1,21E-07 |
| TOP1MT | 1,055697 | 9,00E-08 |
| GLRX5 | 1,055507 | 7,79E-05 |
| TEX264 | 1,055287 | 3,47E-05 |
| RBFA | 1,053769 | 0,000118 |
| DNPEP | 1,052996 | 4,68E-07 |
| PYCRL | 1,05122 | 8,46E-05 |
| MED13 | 1,050917 | 3,70E-08 |
| EIF4B | 1,050278 | 5,28E-10 |

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| VPS25 | 1,050161 | 1,73E-06 |
| SGSM2 | 1,049582 | 0,000562 |
| PHKG2 | 1,049461 | 0,000222 |
| TEAD3 | 1,049099 | 0,000445 |
| BUD31 | 1,048871 | 1,09E-07 |
| KBTBD6 | 1,047985 | 0,000244 |
| CAMKK2 | 1,043704 | 2,06E-06 |
| BRD3 | 1,043665 | 1,86E-05 |
| NUCKS1 | 1,042526 | 1,61E-07 |
| ZNF32 | 1,039959 | 0,000244 |
| HECTD4 | 1,0396 | 0,000111 |
| RMDN1 | 1,038781 | 2,60E-05 |
| SLC38A1 | 1,036229 | 1,55E-07 |
| RFNG | 1,036015 | 0,000884 |
| TAF6 | 1,034226 | 9,20E-07 |
| PSMB1 | 1,03396 | 5,40E-06 |
| DAG1 | 1,033374 | 6,69E-05 |
| FKBP5 | 1,033039 | 0,000221 |
| NETO2 | 1,032448 | 4,09E-06 |
| SLC29A1 | 1,031361 | 3,75E-05 |
| RPL31 | 1,029152 | 8,20E-06 |
| RTN3 | 1,028056 | 5,30E-06 |
| PACS1 | 1,026227 | 1,11E-05 |
| NDUFB2 | 1,025784 | 1,01E-06 |
| COPS6 | 1,025062 | 7,88E-08 |
| IDE | 1,024741 | 2,34E-05 |
| FAM111B | 1,024129 | 0,000497 |
| TTLL5 | 1,022598 | 3,68E-05 |
| RHBDF2 | 1,021422 | 0,000172 |
| ZNF629 | 1,021301 | 4,37E-06 |
| AGAP2-AS1 | 1,018671 | 0,000284 |
| TUBGCP2 | 1,016625 | 3,60E-06 |
| ZNF252P | 1,014933 | 2,98E-06 |
| SHFM1 | 1,0144 | 8,89E-07 |
| PTMS | 1,014124 | 9,62E-05 |
| ANAPC15 | 1,013963 | 1,14E-05 |
| TOR3A | 1,013155 | 9,29E-06 |
| SAMD1 | 1,01256 | 4,91E-05 |
| ASCC1 | 1,011985 | 2,97E-05 |
| ALDH7A1 | 1,011626 | 2,22E-06 |
| MICU2 | 1,010552 | 3,44E-05 |
| TP53I13 | 1,009589 | 0,000876 |
| HMGCR | 1,008632 | 9,69E-06 |
| MON1B | 1,005775 | 3,98E-05 |
| SP1 | 1,004844 | 1,77E-06 |
| PAXIP1 | 1,004021 | 0,000157 |
| MIF | 1,003984 | 4,95E-07 |
| GATC | 1,002518 | 6,24E-05 |
| WBSCR22 | 1,002485 | 8,04E-07 |
| KMT2E | 1,002206 | 1,97E-05 |

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| PHB2 | 1,001821 | 8,79E-08 |
| TRAPPC13 | 1,001748 | 0,00057 |
| C5orf30 | 0,999577 | 0,000139 |
| FAM136A | 0,998542 | 5,86E-07 |
| PFDN5 | 0,996741 | 5,60E-07 |
| IREB2 | 0,995943 | 0,000116 |
| TPT1 | 0,994465 | 5,56E-05 |
| POR | 0,993755 | 2,42E-05 |
| PPM1B | 0,992503 | 0,000681 |
| TRIP6 | 0,9923 | 5,68E-06 |
| PCNX | 0,991025 | 2,75E-05 |
| ZNF282 | 0,991009 | 2,67E-06 |
| PPIL2 | 0,990156 | 4,91E-05 |
| ARID2 | 0,986893 | 0,000459 |
| METTL2A | 0,986141 | 8,19E-05 |
| ZNF358 | 0,984665 | 0,000105 |
| TIMELESS | 0,984533 | 3,53E-05 |
| FOXRED2 | 0,984423 | 0,000149 |
| ARMT1 | 0,984301 | 4,25E-05 |
| SMURF1 | 0,983237 | 8,26E-06 |
| OTUB1 | 0,980276 | 2,73E-06 |
| TADA3 | 0,978652 | 1,04E-06 |
| GIPC1 | 0,977224 | 0,000599 |
| RNF115 | 0,976446 | 6,37E-05 |
| RPL36AL | 0,974743 | 7,84E-05 |
| ECSIT | 0,974272 | 3,19E-05 |
| MRPL41 | 0,972891 | 1,80E-05 |
| RPL37 | 0,972885 | 0,000259 |
| MED20 | 0,970206 | 0,000277 |
| PMVK | 0,969769 | 0,000376 |
| FBXO21 | 0,966976 | 0,000336 |
| MTMR12 | 0,966476 | 0,000622 |
| MTMR3 | 0,966009 | 0,000249 |
| TRAK2 | 0,965676 | 0,000177 |
| PCF11 | 0,965644 | 0,000546 |
| SERPINB6 | 0,960136 | 4,95E-07 |
| IFT46 | 0,960054 | 3,30E-05 |
| ABHD16A | 0,957914 | 0,000335 |
| POLR1B | 0,955994 | 4,13E-05 |
| HSPB1 | 0,955718 | 0,000203 |
| TOP2B | 0,955612 | 8,18E-07 |
| SMARCA4 | 0,955064 | 0,000195 |
| ATP5I | 0,954863 | 1,48E-06 |
| GPR137 | 0,94989 | 0,000525 |
| CELSR1 | 0,947332 | 0,000785 |
| RNF181 | 0,947309 | 0,000141 |
| TELO2 | 0,947038 | 3,03E-05 |
| BCKDHA | 0,94577 | 0,000222 |
| SS18 | 0,943029 | 1,18E-05 |
| FGFR1OP | 0,942938 | 0,000555 |

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| FBXL14 | 0,94258 | 0,000875 |
| SLC3A2 | 0,941889 | 5,68E-07 |
| LMNB1 | 0,941614 | 1,72E-05 |
| MTMR4 | 0,941188 | 4,87E-05 |
| LTBP1 | 0,941018 | 7,69E-06 |
| DNAJA2 | 0,940069 | 0,000973 |
| ZBTB1 | 0,939398 | 8,62E-06 |
| POLR2I | 0,93912 | 8,72E-05 |
| AGPAT3 | 0,935995 | 0,000185 |
| ARPC1A | 0,935697 | 0,000133 |
| VPS37C | 0,932631 | 0,000282 |
| CFDP1 | 0,931638 | 2,94E-05 |
| MBTPS1 | 0,930695 | 1,82E-06 |
| AAAS | 0,930616 | 1,28E-05 |
| PRPSAP1 | 0,930435 | 9,92E-05 |
| ORC2 | 0,929908 | 0,000732 |
| MRPL49 | 0,929882 | 4,06E-05 |
| FAM127B | 0,927955 | 3,38E-06 |
| NELFCD | 0,927428 | 6,11E-05 |
| KAT5 | 0,926862 | 0,00013 |
| PSMD9 | 0,926124 | 9,94E-05 |
| IQCE | 0,926089 | 2,32E-05 |
| ESD | 0,924728 | 8,72E-07 |
| JAGN1 | 0,924704 | 8,30E-05 |
| TSC2 | 0,924692 | 0,000173 |
| ZFP41 | 0,924189 | 0,000418 |
| SSNA1 | 0,9241 | 9,72E-05 |
| IMMT | 0,917551 | 1,15E-06 |
| EPB41L1 | 0,914588 | 0,000472 |
| MRPL21 | 0,912379 | 2,13E-05 |
| RUSC1 | 0,911025 | 0,000237 |
| MRPL16 | 0,910663 | 0,000641 |
| TIMM10B | 0,910281 | 0,000155 |
| CNOT11 | 0,910182 | 1,28E-05 |
| CANX | 0,909323 | 3,24E-06 |
| MRPL35 | 0,908403 | 6,01E-05 |
| BTG1 | 0,908324 | 0,000232 |
| IMP3 | 0,906248 | 1,13E-05 |
| TRAF7 | 0,905173 | 2,09E-06 |
| KIAA0196 | 0,905044 | 1,83E-05 |
| CHD1L | 0,904507 | 0,000386 |
| LAGE3 | 0,903135 | 0,000125 |
| ZNF24 | 0,902879 | 0,000192 |
| HIP1 | 0,902595 | 0,000164 |
| LRRC45 | 0,902299 | 0,000894 |
| PRKAG1 | 0,901408 | 0,000229 |
| SMARCC1 | 0,898987 | 2,80E-06 |
| DIRAS1 | 0,898094 | 0,000925 |
| DDB1 | 0,897938 | 0,000447 |
| TUG1 | 0,89793 | 7,42E-06 |

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| PGP | 0,897834 | 0,000161 |
| TCEB2 | 0,896393 | 0,00037 |
| PIGU | 0,896053 | 0,000286 |
| SEPHS2 | 0,894707 | 1,47E-05 |
| DNAJC2 | 0,893511 | 0,000116 |
| MYBL2 | 0,890702 | 6,32E-07 |
| NUDT16L1 | 0,890466 | 0,000466 |
| HNRNPF | 0,888554 | 9,39E-06 |
| CAMSAP1 | 0,887987 | 2,68E-05 |
| SEPHS1 | 0,887025 | 0,000761 |
| C19orf43 | 0,88638 | 4,36E-07 |
| ZNF618 | 0,885956 | 5,08E-06 |
| PGLS | 0,885387 | 0,000348 |
| CCZ1B | 0,882088 | 0,000188 |
| CFLAR | 0,879666 | 0,000618 |
| NDUFB9 | 0,879323 | 0,000939 |
| ATP5H | 0,875075 | 0,000417 |
| ATRAID | 0,873051 | 2,15E-05 |
| RPS23 | 0,868589 | 0,000612 |
| SPAG7 | 0,864686 | 0,000644 |
| ZNF398 | 0,863334 | 8,16E-05 |
| GGCX | 0,861674 | 0,000158 |
| ESYT1 | 0,85753 | 1,90E-06 |
| PMPCB | 0,857222 | 9,16E-05 |
| MRGBP | 0,856449 | 0,000349 |
| MRPS21 | 0,855905 | 8,33E-06 |
| LAMTOR1 | 0,855674 | 0,000823 |
| CNOT2 | 0,855237 | 2,26E-05 |
| GIT1 | 0,854883 | 2,98E-05 |
| DNAJC10 | 0,853824 | 0,000389 |
| CDC42SE2 | 0,853447 | 0,000212 |
| DECR1 | 0,852164 | 0,000271 |
| UBXN4 | 0,851857 | 1,90E-05 |
| SYAP1 | 0,851815 | 0,000238 |
| CDC42BPB | 0,850083 | 1,27E-05 |
| CTCF | 0,849429 | 0,00023 |
| COX8A | 0,848171 | 1,34E-05 |
| DLST | 0,840485 | 0,000137 |
| RNMTL1 | 0,837469 | 0,000816 |
| PTPN2 | 0,837246 | 0,000295 |
| RUFY1 | 0,834904 | 0,0007 |
| ANXA7 | 0,834265 | 1,98E-05 |
| SORD | 0,834089 | 1,80E-05 |
| TSTA3 | 0,833885 | 5,26E-05 |
| RPL34 | 0,8336 | 0,000162 |
| RPSA | 0,831109 | 8,05E-07 |
| ARFGAP2 | 0,829647 | 0,000223 |
| TAF11 | 0,827676 | 0,000649 |
| FKBP3 | 0,827524 | 8,42E-05 |
| CASP2 | 0,825571 | 0,000185 |

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| SUDS3 | 0,825054 | 0,000514 |
| ADK | 0,820405 | 0,000203 |
| FAU | 0,818349 | 9,29E-06 |
| HSBP1 | 0,816899 | 2,84E-05 |
| MARCKSL1 | 0,814719 | 5,95E-06 |
| DYNLL2 | 0,813319 | 2,94E-05 |
| PRRC2B | 0,811679 | 0,000393 |
| ARL6IP1 | 0,811285 | 0,000114 |
| CNOT8 | 0,811104 | 0,000308 |
| TMEM167A | 0,808604 | 0,000974 |
| FNBP1 | 0,803591 | 0,000464 |
| TK1 | 0,803222 | 4,10E-05 |
| CUEDC2 | 0,801401 | 0,000218 |
| MKKS | 0,800866 | 0,000431 |
| RFC2 | 0,80081 | 5,22E-05 |
| MKRN1 | 0,800318 | 0,000536 |
| RPL3 | 0,79624 | 0,000414 |
| SRCAP | 0,793808 | 8,46E-06 |
| IMP4 | 0,78941 | 3,29E-05 |
| KIAA1191 | 0,788241 | 0,000106 |
| WDR61 | 0,785348 | 0,000456 |
| DLG5 | 0,783641 | 5,98E-05 |
| SNTB1 | 0,781619 | 0,000726 |
| AP3B1 | 0,780533 | 0,000879 |
| RPL14 | 0,77918 | 0,000162 |
| MRPL4 | 0,775387 | 0,000144 |
| GTPBP6 | 0,774347 | 0,0007 |
| SPATS2 | 0,773552 | 0,000856 |
| RABL6 | 0,773093 | 0,000296 |
| KMT2D | 0,771455 | 3,54E-05 |
| LLPH | 0,769458 | 0,000225 |
| CAND1 | 0,764578 | 0,000292 |
| MRPS34 | 0,76367 | 0,000185 |
| NAA60 | 0,761237 | 0,000359 |
| PPP1R14B | 0,760681 | 0,000184 |
| YIPF3 | 0,76062 | 0,000322 |
| SMYD5 | 0,760582 | 0,000942 |
| DCAF7 | 0,758469 | 0,000581 |
| CFL1 | 0,758327 | 0,000162 |
| SNRPE | 0,755952 | 3,96E-05 |
| C12orf10 | 0,739937 | 0,001003 |
| NSUN5 | 0,73922 | 0,001 |
| SIN3A | 0,735559 | 0,000393 |
| NDUFV3 | 0,734394 | 0,000432 |
| SCAF11 | 0,730003 | 0,000531 |
| FEM1B | 0,728481 | 0,000593 |
| NGRN | 0,723681 | 0,000512 |
| SAP130 | 0,714698 | 0,000242 |
| ZMYND8 | 0,712124 | 0,000779 |
| RPL8 | 0,708618 | 2,71E-05 |

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| FDPS | 0,69666 | 0,000176 |
| PSMC2 | 0,695901 | 0,00056 |
| ATL3 | 0,693759 | 0,00076 |
| TDG | 0,692034 | 0,000735 |
| HN1L | 0,691199 | 0,000223 |
| H3F3B | 0,690924 | 0,000143 |
| IST1 | 0,690065 | 0,000572 |
| GDI2 | 0,689826 | 0,000833 |
| CTNNA1 | 0,685507 | 0,000181 |
| NDUFA13 | 0,680234 | 0,000629 |
| LRPPRC | 0,669189 | 0,000151 |
| COX5A | 0,667661 | 0,000847 |
| CCNF | 0,658456 | 0,001008 |
| LAPTM4B | 0,644746 | 0,000742 |
| FBR5 | 0,641975 | 0,000534 |
| TOP1 | 0,641314 | 0,000216 |
| BPTF | 0,639529 | 0,000439 |
| PSMD4 | 0,637512 | 0,000361 |
| EIF1AX | 0,633959 | 0,000774 |
| USP39 | 0,633232 | 0,000806 |
| GNB2L1 | 0,63186 | 0,000478 |
| HMGB1 | 0,619785 | 0,000389 |
| PABPC1 | 0,605979 | 0,000403 |
| CCT5 | -0,61262 | 0,00056 |
| AATF | -0,61427 | 0,000939 |
| PSMD11 | -0,62376 | 0,000798 |
| ETF1 | -0,63006 | 0,000694 |
| TIMM50 | -0,63618 | 0,000724 |
| SRF | -0,64048 | 0,000836 |
| SYNCRIP | -0,64329 | 0,000843 |
| UBE2M | -0,64342 | 0,000867 |
| C11orf58 | -0,64462 | 0,000584 |
| SAE1 | -0,65015 | 0,000413 |
| KXD1 | -0,65023 | 0,000927 |
| BOP1 | -0,65236 | 0,000422 |
| PPIA | -0,65698 | 0,000144 |
| RRP36 | -0,65988 | 0,000705 |
| NCKAP1 | -0,67624 | 0,000557 |
| NDC1 | -0,67766 | 0,000892 |
| RPL11 | -0,68088 | 8,19E-05 |
| ZBTB4 | -0,6876 | 0,000999 |
| PAF1 | -0,69443 | 0,000149 |
| HSF1 | -0,69548 | 8,83E-05 |
| NUP93 | -0,69981 | 0,000404 |
| RRP7A | -0,69984 | 0,000752 |
| HNRNPA2B | -0,7046 | 8,26E-05 |
| PSMD13 | -0,70629 | 0,000261 |
| GMPS | -0,7073 | 0,00035 |
| ASXL1 | -0,71032 | 0,00025 |
| STIP1 | -0,71112 | 0,000437 |

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| HNRNPU | -0,71833 | 0,000991 |
| SLC35E1 | -0,7188 | 0,000792 |
| IDH3A | -0,71897 | 0,000519 |
| SEC63 | -0,721 | 0,000115 |
| ADIPOR2 | -0,72358 | 0,000579 |
| PSMD3 | -0,73079 | 4,00E-05 |
| PPP1R37 | -0,73422 | 0,000624 |
| MDN1 | -0,73617 | 0,00037 |
| PARP1 | -0,73819 | 0,000181 |
| MFAP3 | -0,7412 | 0,000513 |
| CTNNBL1 | -0,74162 | 0,000233 |
| EIF4G3 | -0,74176 | 0,000409 |
| MFSD12 | -0,74901 | 0,000319 |
| FSCN1 | -0,74965 | 0,000406 |
| TOMM40 | -0,75182 | 1,84E-05 |
| ARPC5L | -0,75272 | 0,000326 |
| SAR1A | -0,75325 | 0,000223 |
| C6orf89 | -0,75466 | 0,000392 |
| YTHDF2 | -0,75521 | 7,48E-05 |
| MAP4 | -0,75789 | 4,95E-05 |
| SLC31A1 | -0,75803 | 0,000262 |
| MAGED2 | -0,75831 | 0,000365 |
| RTN4 | -0,75954 | 0,000402 |
| PHRF1 | -0,75984 | 7,92E-05 |
| SNRNP70 | -0,76055 | 0,000182 |
| TFG | -0,76241 | 8,16E-05 |
| DHX30 | -0,76385 | 0,000177 |
| RANGAP1 | -0,76461 | 9,80E-05 |
| DDX52 | -0,76947 | 0,000995 |
| SENP5 | -0,7711 | 0,000172 |
| COPS3 | -0,77156 | 0,000228 |
| SF3A1 | -0,77527 | 0,00015 |
| GAPVD1 | -0,77707 | 0,00024 |
| H2AFV | -0,77807 | 0,000429 |
| BAK1 | -0,78021 | 0,000153 |
| EIF2S3 | -0,78168 | 9,72E-06 |
| PSMA7 | -0,78293 | 1,21E-05 |
| DOT1L | -0,78326 | 0,000618 |
| BABAM1 | -0,78608 | 0,000824 |
| NPC1 | -0,78775 | 0,000538 |
| UQCC1 | -0,78965 | 0,000999 |
| GARS | -0,79127 | 4,11E-05 |
| EEF1A1 | -0,79127 | 1,81E-05 |
| PAFAH1B1 | -0,79159 | 2,01E-05 |
| SEC62 | -0,79207 | 7,21E-05 |
| CD99 | -0,7929 | 0,000899 |
| POLRMT | -0,79328 | 0,00014 |
| DTL | -0,7936 | 0,000797 |
| RERE | -0,79451 | 5,43E-05 |
| DHX37 | -0,79518 | 3,43E-05 |

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| XPO7 | -0,79853 | 0,000393 |
| COX7A2 | -0,80113 | 0,000708 |
| KIF3B | -0,80124 | 0,000848 |
| ENTPD6 | -0,80216 | 0,000321 |
| TPD52L2 | -0,80257 | 4,60E-05 |
| MTCH1 | -0,80278 | 0,000121 |
| CCAR2 | -0,80289 | 2,27E-05 |
| DHX36 | -0,8033 | 0,000154 |
| SMG9 | -0,8035 | 0,000128 |
| B4GALT1 | -0,80719 | 2,50E-05 |
| PRIM2 | -0,80724 | 0,000758 |
| FMR1 | -0,8109 | 0,000964 |
| MTDH | -0,81108 | 0,000286 |
| NUP50 | -0,81302 | 0,000478 |
| TSSC4 | -0,81656 | 0,000823 |
| PDCD5 | -0,81692 | 0,000156 |
| USP48 | -0,81754 | 0,000281 |
| PSMB3 | -0,81978 | 0,000173 |
| SYF2 | -0,82159 | 0,00073 |
| TGS1 | -0,82296 | 0,000247 |
| COX7B | -0,82606 | 4,86E-05 |
| PPIH | -0,82654 | 0,00034 |
| NCAPH2 | -0,82728 | 5,23E-05 |
| MRPL34 | -0,828 | 0,000222 |
| RAB27A | -0,82892 | 0,000675 |
| RANBP3 | -0,82941 | 0,000213 |
| SLC20A1 | -0,82987 | 7,06E-05 |
| RCN1 | -0,83204 | 1,28E-05 |
| CENPO | -0,83384 | 0,000567 |
| ZNF106 | -0,83465 | 2,80E-05 |
| TANC1 | -0,83628 | 0,000154 |
| GTSE1 | -0,83684 | 0,000619 |
| SRP14 | -0,83706 | 0,000185 |
| RARS | -0,83781 | 0,000368 |
| CHKA | -0,83948 | 0,000113 |
| SENP6 | -0,84055 | 0,000631 |
| LEMD2 | -0,84096 | 1,44E-05 |
| GSK3A | -0,84228 | 2,61E-05 |
| IFT57 | -0,84648 | 0,000121 |
| ATR | -0,84858 | 0,000164 |
| DBR1 | -0,84859 | 0,000581 |
| SERBP1 | -0,85005 | 0,000395 |
| KBTBD2 | -0,85176 | 5,28E-05 |
| HOMER3 | -0,8521 | 0,000168 |
| TRIM32 | -0,8522 | 0,001005 |
| GTPBP1 | -0,85383 | 0,000813 |
| ATXN2 | -0,85396 | 0,000217 |
| DCAF10 | -0,85411 | 0,000493 |
| MAP2K1 | -0,85474 | 2,66E-05 |
| RCC1 | -0,85491 | 1,39E-05 |

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| EIF3I | -0,85558 | 6,80E-05 |
| RTF1 | -0,85562 | 3,21E-05 |
| DCUN1D5 | -0,85634 | 0,000299 |
| RRP9 | -0,85669 | 6,81E-05 |
| POLR2H | -0,85716 | 4,59E-05 |
| GTF2H1 | -0,85813 | 0,000221 |
| AGPAT5 | -0,85845 | 0,000285 |
| EIF3M | -0,86032 | 1,22E-05 |
| VEZF1 | -0,86181 | 3,46E-05 |
| RALA | -0,86192 | 0,000306 |
| ERO1A | -0,86305 | 0,000165 |
| NEDD4 | -0,86363 | 0,000996 |
| DDHD2 | -0,86375 | 0,00057 |
| NCSTN | -0,86411 | 0,000506 |
| RSPRY1 | -0,86712 | 0,000433 |
| MRPL20 | -0,86931 | 0,000309 |
| MLLT1 | -0,86996 | 1,51E-05 |
| QRSL1 | -0,8706 | 0,000597 |
| SNRPB2 | -0,87282 | 9,34E-06 |
| GTF2F1 | -0,87366 | 2,40E-05 |
| PSMC4 | -0,87381 | 7,33E-07 |
| NCL | -0,87394 | 7,70E-07 |
| TYMS | -0,87402 | 1,55E-05 |
| TNRC6A | -0,87505 | 0,000317 |
| STOML2 | -0,87545 | 2,56E-06 |
| ACKR3 | -0,87701 | 1,54E-05 |
| BCCIP | -0,8781 | 7,14E-06 |
| RNF111 | -0,88005 | 0,000634 |
| FAM3C | -0,88089 | 0,000205 |
| APIP | -0,88121 | 0,000963 |
| DUSP3 | -0,8813 | 8,33E-05 |
| VBP1 | -0,88138 | 2,80E-05 |
| GDI1 | -0,88209 | 2,72E-05 |
| UMPS | -0,88238 | 9,02E-05 |
| HIF1A | -0,88301 | 3,75E-05 |
| SLC35F6 | -0,88392 | 0,000739 |
| PPIE | -0,88446 | 9,79E-05 |
| ATG12 | -0,88453 | 0,000289 |
| TAB2 | -0,88463 | 0,000286 |
| PSMC3IP | -0,88576 | 0,000774 |
| NUP62 | -0,88665 | 7,12E-05 |
| LINC01420 | -0,88706 | 0,000522 |
| TMED4 | -0,88748 | 7,00E-05 |
| COPS5 | -0,88775 | 0,000596 |
| UBAP2 | -0,88811 | 0,000238 |
| ZSWIM6 | -0,88972 | 0,000693 |
| ZZZ3 | -0,88977 | 0,000508 |
| NOC4L | -0,89036 | 5,84E-05 |
| PELO | -0,89121 | 0,000215 |
| TMEM2 | -0,89201 | 0,000936 |

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| TBC1D20 | -0,89324 | 0,00056 |
| CARKD | -0,89426 | 0,000587 |
| KPNA2 | -0,89441 | 1,41E-05 |
| ERP44 | -0,8951 | 3,30E-05 |
| PRPF4 | -0,89622 | 6,24E-06 |
| RAC1 | -0,89669 | 1,53E-07 |
| GLIS2 | -0,897 | 0,000493 |
| CUL1 | -0,89761 | 1,40E-05 |
| TMEM57 | -0,89807 | 0,000754 |
| PSMA1 | -0,89903 | 5,16E-06 |
| TOR1B | -0,90038 | 0,000283 |
| KIF20B | -0,90203 | 3,90E-05 |
| PROSC | -0,90241 | 0,000707 |
| RNF4 | -0,90285 | 7,14E-06 |
| DVL1 | -0,90315 | 7,02E-05 |
| TUBA1C | -0,90577 | 1,85E-06 |
| RPF2 | -0,90748 | 0,000233 |
| ACER3 | -0,90794 | 0,000213 |
| TBRG4 | -0,90924 | 0,000306 |
| GAK | -0,91028 | 1,38E-06 |
| DESI1 | -0,91035 | 2,64E-05 |
| HEBP1 | -0,91323 | 0,000122 |
| NRD1 | -0,91475 | 1,21E-05 |
| FAM50A | -0,91484 | 6,25E-06 |
| UBE2A | -0,91524 | 4,28E-06 |
| EXOSC9 | -0,91583 | 0,000342 |
| CDCA8 | -0,91589 | 0,000874 |
| ZDHC5 | -0,91593 | 3,02E-06 |
| TAF12 | -0,91593 | 0,000192 |
| VPS39 | -0,9162 | 0,000788 |
| GOLGA7 | -0,91633 | 6,38E-05 |
| USP12 | -0,91763 | 0,000431 |
| DLGAP4 | -0,91856 | 2,16E-05 |
| SGTA | -0,91868 | 9,93E-07 |
| SRRM1 | -0,91881 | 8,95E-05 |
| GSR | -0,91986 | 0,000177 |
| SSBP3 | -0,9206 | 8,41E-05 |
| CWC22 | -0,92138 | 0,000166 |
| HAUS8 | -0,92151 | 0,000942 |
| HGS | -0,92252 | 2,85E-06 |
| XPO6 | -0,92285 | 3,74E-07 |
| ZNF644 | -0,92311 | 3,92E-05 |
| CCDC97 | -0,92343 | 1,31E-05 |
| KHSRP | -0,92466 | 3,28E-06 |
| MCM8 | -0,92507 | 0,000103 |
| ATG16L1 | -0,92603 | 0,000883 |
| ITSN1 | -0,92625 | 0,001003 |
| TMEM222 | -0,929 | 5,26E-05 |
| STRAP | -0,93011 | 2,38E-05 |
| UBQLN1 | -0,93018 | 9,52E-07 |

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| NDEL1 | -0,9316 | 0,000127 |
| RBPMS | -0,93167 | 0,00012 |
| SIK3 | -0,93287 | 2,67E-05 |
| TUBB6 | -0,93746 | 0,000128 |
| LRRC59 | -0,93782 | 6,80E-06 |
| DUSP14 | -0,93791 | 7,50E-05 |
| ANKRD27 | -0,93865 | 7,07E-05 |
| BET1L | -0,93988 | 0,00025 |
| ZHX1 | -0,94032 | 0,000799 |
| ABCF1 | -0,94142 | 0,000164 |
| MRPL13 | -0,94283 | 7,89E-05 |
| PLEKHO1 | -0,94307 | 9,11E-06 |
| RAB3GAP2 | -0,94429 | 2,96E-05 |
| URGCP | -0,94448 | 0,000987 |
| LSM10 | -0,94494 | 0,00045 |
| GMNN | -0,94582 | 3,42E-05 |
| SNRPA1 | -0,94633 | 1,18E-06 |
| UBE2E3 | -0,9476 | 1,39E-05 |
| RYK | -0,94813 | 0,00021 |
| UBN1 | -0,94827 | 1,86E-06 |
| NEK2 | -0,9483 | 0,000569 |
| SLC39A7 | -0,94835 | 7,17E-05 |
| PEF1 | -0,94852 | 3,87E-06 |
| RGS3 | -0,94922 | 0,000802 |
| RNGTT | -0,94954 | 0,000184 |
| ZW10 | -0,94969 | 0,000261 |
| SF3B6 | -0,95055 | 0,000508 |
| PEAK1 | -0,9506 | 0,000148 |
| ZNF584 | -0,95075 | 0,000602 |
| PTDSS1 | -0,9512 | 0,00063 |
| C9orf3 | -0,95134 | 0,000551 |
| GPATCH4 | -0,9516 | 1,78E-05 |
| MOSPD1 | -0,95243 | 0,000395 |
| RPP30 | -0,95278 | 4,82E-05 |
| DDX17 | -0,95368 | 7,62E-08 |
| SMC5 | -0,95768 | 0,000584 |
| NUDCD3 | -0,95769 | 2,66E-06 |
| PLXNA1 | -0,95822 | 2,64E-05 |
| ARHGEF1 | -0,959 | 2,14E-05 |
| TMED7 | -0,96136 | 1,09E-05 |
| DDX47 | -0,96328 | 3,05E-06 |
| MTG2 | -0,96386 | 8,19E-06 |
| TIMM13 | -0,96592 | 7,87E-06 |
| RHOA | -0,96614 | 4,42E-07 |
| MED27 | -0,96714 | 0,000166 |
| UBR3 | -0,96741 | 0,000613 |
| ORMDL1 | -0,96753 | 2,18E-05 |
| FBXL3 | -0,96813 | 4,21E-05 |
| CDCA2 | -0,96879 | 0,000607 |
| ANKRD40 | -0,96966 | 0,000106 |

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| TRMT2A | -0,9739 | 2,72E-05 |
| TXNDC12 | -0,97467 | 3,53E-06 |
| YBX1 | -0,97539 | 0,000714 |
| PARK7 | -0,97557 | 2,98E-05 |
| COASY | -0,97573 | 2,30E-06 |
| HERC2 | -0,97575 | 4,18E-07 |
| KIDINS220 | -0,97583 | 3,77E-07 |
| C1orf174 | -0,97707 | 0,000851 |
| LACTB2 | -0,97728 | 0,000981 |
| MTMR9 | -0,97748 | 0,00013 |
| GNA11 | -0,97768 | 3,25E-06 |
| LPGAT1 | -0,97786 | 0,000495 |
| MUM1 | -0,97823 | 0,00012 |
| TRMT61B | -0,97973 | 0,000729 |
| TAGLN2 | -0,97988 | 1,89E-08 |
| CNOT7 | -0,98027 | 3,23E-06 |
| ATAD3A | -0,98059 | 1,05E-07 |
| PRKD3 | -0,98074 | 2,98E-05 |
| NDFIP2 | -0,98113 | 0,000282 |
| AUTS2 | -0,98136 | 1,26E-05 |
| BFAR | -0,98164 | 9,98E-06 |
| B3GALNT1 | -0,98245 | 0,000325 |
| TBC1D13 | -0,98247 | 0,000177 |
| MAP1S | -0,98323 | 0,000857 |
| PDIA5 | -0,98419 | 0,000106 |
| SPOP | -0,98454 | 0,000201 |
| TTI2 | -0,98472 | 0,000592 |
| FRG1 | -0,98581 | 0,0008 |
| DYNLRB1 | -0,98587 | 1,39E-05 |
| NFIC | -0,98606 | 2,25E-07 |
| TP53BP1 | -0,98855 | 0,000102 |
| ZMPSTE24 | -0,98876 | 0,000239 |
| GOSR1 | -0,9895 | 2,63E-05 |
| NUAK1 | -0,98977 | 0,000984 |
| NDUFA10 | -0,99101 | 2,82E-07 |
| URB1 | -0,99329 | 3,10E-06 |
| IFNGR1 | -0,9935 | 0,000483 |
| CUL4A | -0,99434 | 2,06E-05 |
| PTPN1 | -0,99501 | 1,96E-05 |
| WDFY1 | -0,99525 | 2,03E-05 |
| VKORC1L1 | -0,9953 | 8,29E-07 |
| UBLCP1 | -0,99545 | 9,81E-06 |
| OPA3 | -0,99562 | 2,46E-05 |
| ENAH | -0,99609 | 0,000296 |
| FH | -0,99726 | 6,98E-07 |
| MCFD2 | -0,99787 | 8,19E-07 |
| BRI3 | -0,99833 | 2,40E-06 |
| TUSC1 | -0,99846 | 0,000283 |
| CHMP5 | -0,99933 | 0,00025 |
| SZRD1 | -0,99935 | 5,11E-05 |

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| USE1 | -1,00086 | 0,000731 |
| FABP5 | -1,00105 | 2,76E-06 |
| GOLGA4 | -1,00141 | 3,67E-05 |
| ISCA1 | -1,00153 | 1,09E-05 |
| EXOSC2 | -1,00226 | 1,15E-06 |
| UBE2J1 | -1,00327 | 7,96E-05 |
| DNTTIP1 | -1,00362 | 0,000111 |
| PARP2 | -1,00406 | 1,29E-05 |
| HPCAL1 | -1,00497 | 9,84E-06 |
| TCP1 | -1,00532 | 2,48E-07 |
| FAH | -1,00604 | 1,33E-05 |
| COPB1 | -1,0062 | 1,95E-07 |
| DSCR3 | -1,0062 | 0,000199 |
| FBXO46 | -1,00732 | 0,000195 |
| FTSJ1 | -1,00846 | 3,05E-06 |
| CHMP7 | -1,00984 | 8,02E-07 |
| AK2 | -1,01003 | 2,11E-08 |
| FBXL18 | -1,01012 | 9,39E-06 |
| FARP1 | -1,01098 | 1,59E-05 |
| ENDOD1 | -1,01103 | 0,00014 |
| DAGLB | -1,01269 | 4,83E-06 |
| HMGXB4 | -1,01382 | 6,08E-06 |
| SACS | -1,016 | 5,69E-05 |
| TM9SF2 | -1,01746 | 0,000856 |
| ZNF503 | -1,01906 | 6,87E-07 |
| TRMT6 | -1,0194 | 2,01E-05 |
| SLC35A2 | -1,01976 | 0,000242 |
| C19orf47 | -1,02276 | 0,000166 |
| CCDC93 | -1,02418 | 0,000364 |
| NCAPH | -1,02545 | 1,14E-07 |
| UBE2R2 | -1,02614 | 1,24E-07 |
| SDF4 | -1,0269 | 0,000641 |
| TBX3 | -1,02947 | 2,24E-06 |
| NOCT | -1,02987 | 0,000774 |
| MFN1 | -1,0306 | 0,000283 |
| UBIAD1 | -1,0313 | 5,30E-05 |
| IGBP1 | -1,03247 | 0,000252 |
| PBX3 | -1,03258 | 0,000798 |
| ATP6V1E1 | -1,03318 | 5,79E-05 |
| SUPT5H | -1,03378 | 3,18E-06 |
| KDEL2 | -1,03415 | 3,11E-05 |
| PDLIM1 | -1,03529 | 2,02E-07 |
| CYCS | -1,03689 | 1,51E-07 |
| RHOB2 | -1,0373 | 5,51E-06 |
| NDUFA4 | -1,04062 | 0,000129 |
| RBM26 | -1,04245 | 1,29E-05 |
| SEC24A | -1,04255 | 5,20E-05 |
| DFFA | -1,04259 | 4,07E-07 |
| ATG5 | -1,04389 | 1,53E-05 |
| MZT1 | -1,04523 | 0,000211 |

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| MPLKIP | -1,04655 | 0,000457 |
| C4orf46 | -1,04733 | 0,000866 |
| ORC1 | -1,04742 | 0,000103 |
| PDHX | -1,05045 | 0,000126 |
| RBM42 | -1,05065 | 4,42E-07 |
| CCNC | -1,05134 | 0,000618 |
| UHRF1 | -1,05169 | 0,000433 |
| CSTF2 | -1,05173 | 3,51E-07 |
| SLBP | -1,05248 | 3,06E-06 |
| FBXL5 | -1,05359 | 0,000158 |
| LRRC42 | -1,05378 | 2,48E-06 |
| HSPG2 | -1,05384 | 0,000787 |
| ARHGAP11 | -1,0542 | 1,51E-05 |
| FAM122A | -1,05526 | 0,000808 |
| SMIM12 | -1,05579 | 6,17E-06 |
| PLS3 | -1,05627 | 5,31E-06 |
| YIPF5 | -1,05711 | 1,91E-05 |
| NOP10 | -1,0582 | 1,42E-07 |
| AIG1 | -1,05897 | 5,79E-06 |
| SLC4A1AP | -1,06019 | 5,30E-06 |
| COPG1 | -1,0602 | 1,57E-06 |
| RPS6KC1 | -1,06148 | 8,23E-05 |
| TMEM41A | -1,06162 | 2,97E-06 |
| PQLC1 | -1,06205 | 3,25E-05 |
| STK25 | -1,06391 | 8,09E-07 |
| ANKRD54 | -1,06414 | 0,000111 |
| QRICH1 | -1,06416 | 2,23E-07 |
| TEAD1 | -1,06496 | 4,15E-06 |
| RNF219 | -1,06561 | 0,000138 |
| RPAP1 | -1,0657 | 9,78E-07 |
| PSMD8 | -1,06606 | 3,51E-09 |
| RBMS1 | -1,06618 | 9,61E-05 |
| HSPA5 | -1,06743 | 4,77E-10 |
| TMEM70 | -1,0681 | 1,73E-05 |
| PPIL4 | -1,07098 | 6,19E-06 |
| NOSIP | -1,07207 | 4,05E-08 |
| ITGB1BP1 | -1,07359 | 1,89E-05 |
| C9orf40 | -1,07372 | 0,000427 |
| ARHGAP17 | -1,07429 | 3,45E-07 |
| TOMM5 | -1,07467 | 6,42E-07 |
| IKBKG | -1,07572 | 2,17E-05 |
| DCAF12 | -1,07603 | 1,51E-06 |
| EIF2B5 | -1,07693 | 8,46E-06 |
| RNF25 | -1,07757 | 2,94E-06 |
| HPS5 | -1,0786 | 0,000898 |
| FOXJ3 | -1,07927 | 4,63E-07 |
| ZNF292 | -1,08096 | 1,18E-05 |
| GNL3L | -1,0814 | 1,47E-06 |
| RABL3 | -1,08142 | 0,000158 |
| POLR2C | -1,08201 | 2,95E-08 |

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| PFDN2 | -1,08323 | 1,84E-06 |
| RRM2 | -1,08474 | 3,03E-08 |
| YARS | -1,08484 | 1,78E-05 |
| RAB34 | -1,08554 | 6,41E-05 |
| MGAT1 | -1,08666 | 4,07E-05 |
| PHF19 | -1,08731 | 2,36E-06 |
| ZCCHC17 | -1,08863 | 5,05E-05 |
| NOC2L | -1,0897 | 3,14E-06 |
| NCDN | -1,0906 | 1,56E-07 |
| CHAF1A | -1,09122 | 2,57E-06 |
| CSNK1A1 | -1,09142 | 2,21E-06 |
| KLHL18 | -1,09236 | 0,000191 |
| QKI | -1,093 | 0,000952 |
| TANK | -1,09409 | 9,17E-06 |
| SEC61A1 | -1,09457 | 0,00052 |
| TBPL1 | -1,09468 | 0,00032 |
| RLF | -1,09598 | 3,83E-06 |
| WDR45B | -1,09817 | 9,62E-05 |
| RAB2A | -1,09985 | 1,84E-07 |
| CTPS1 | -1,10167 | 4,40E-07 |
| PJA2 | -1,10175 | 9,20E-06 |
| SNX4 | -1,10187 | 1,42E-06 |
| ITCH | -1,10324 | 1,59E-08 |
| ST6GALNA4 | -1,10483 | 0,000733 |
| TBCCD1 | -1,10495 | 0,00037 |
| SHC1 | -1,10578 | 3,98E-09 |
| SMG5 | -1,10637 | 1,64E-09 |
| NFX1 | -1,10894 | 1,82E-08 |
| TMEM263 | -1,10991 | 4,10E-05 |
| LMNB2 | -1,11212 | 0,000168 |
| SEP15 | -1,11262 | 5,01E-08 |
| PIGK | -1,11277 | 0,000473 |
| MFHAS1 | -1,1131 | 2,24E-06 |
| USP24 | -1,11512 | 1,87E-06 |
| CPTP | -1,11526 | 1,53E-05 |
| VDAC3 | -1,11528 | 2,40E-06 |
| AP1S2 | -1,11566 | 0,000719 |
| USP11 | -1,11652 | 3,64E-07 |
| FUCA2 | -1,11678 | 0,000195 |
| ANAPC13 | -1,11688 | 0,000888 |
| AP2M1 | -1,1169 | 1,71E-05 |
| ACTG1 | -1,11743 | 0,000212 |
| SNX18 | -1,11881 | 0,000195 |
| MARK4 | -1,11934 | 0,000208 |
| SIK2 | -1,1211 | 0,000126 |
| DTYMK | -1,12167 | 0,000165 |
| GNB1 | -1,12215 | 1,37E-10 |
| CTSC | -1,12311 | 3,44E-07 |
| TAF2 | -1,12325 | 7,99E-08 |
| SUPT7L | -1,12453 | 9,99E-07 |

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| PDIA3 | -1,12505 | 1,16E-06 |
| APOOL | -1,12528 | 1,05E-05 |
| PSMD1 | -1,12578 | 1,37E-07 |
| OGFOD3 | -1,12834 | 1,82E-06 |
| RPN1 | -1,12839 | 1,03E-06 |
| TRIP12 | -1,12938 | 0,000374 |
| BLMH | -1,12952 | 3,82E-07 |
| WDR62 | -1,13066 | 2,09E-05 |
| DYNC2H1 | -1,13083 | 0,000428 |
| CCT8 | -1,13191 | 7,84E-11 |
| SUGT1 | -1,13388 | 6,93E-05 |
| USP13 | -1,13405 | 2,75E-07 |
| VCP | -1,13745 | 4,90E-05 |
| WBP11 | -1,13788 | 1,74E-08 |
| MTFR1L | -1,13791 | 1,24E-05 |
| SP140L | -1,13797 | 2,96E-05 |
| ACADM | -1,13833 | 9,94E-06 |
| SAMD8 | -1,13841 | 5,16E-05 |
| TNKS | -1,13905 | 8,88E-07 |
| COPS2 | -1,1394 | 1,33E-06 |
| ELOVL1 | -1,13962 | 5,04E-05 |
| GNL1 | -1,14003 | 1,47E-08 |
| FAM72B | -1,14216 | 0,000616 |
| FAM57A | -1,14237 | 0,00037 |
| UTP18 | -1,14308 | 9,85E-08 |
| EPS15L1 | -1,14354 | 3,04E-06 |
| ATP13A3 | -1,14397 | 5,05E-10 |
| COQ10B | -1,14496 | 0,000293 |
| ELK1 | -1,14535 | 6,51E-06 |
| TNPO1 | -1,14551 | 1,16E-08 |
| TRAPPC3 | -1,14608 | 2,34E-06 |
| MAK16 | -1,14629 | 0,000288 |
| AGFG1 | -1,14698 | 2,14E-06 |
| MED15 | -1,14763 | 8,79E-08 |
| PSMA2 | -1,14776 | 9,83E-10 |
| FLNA | -1,14867 | 4,07E-09 |
| ACTR3 | -1,14906 | 6,55E-06 |
| SNX3 | -1,14914 | 1,07E-05 |
| RNF126 | -1,1493 | 5,51E-05 |
| CCNE2 | -1,14951 | 3,83E-05 |
| RAB23 | -1,14961 | 1,57E-05 |
| FN3KRP | -1,14999 | 2,95E-07 |
| SAMD4B | -1,15133 | 3,16E-05 |
| MINOS1 | -1,15167 | 0,000356 |
| SERPINH1 | -1,15196 | 4,25E-08 |
| SERINC1 | -1,1527 | 5,73E-05 |
| NDUFAF3 | -1,15443 | 5,28E-08 |
| SLC33A1 | -1,15449 | 1,69E-06 |
| WWTR1 | -1,15576 | 4,41E-08 |
| FBXO30 | -1,15642 | 0,00022 |

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| RBM18 | -1,15691 | 3,78E-06 |
| LTV1 | -1,15736 | 0,000659 |
| TMEM259 | -1,15745 | 3,69E-08 |
| ZBTB43 | -1,15844 | 3,38E-06 |
| DNAJC13 | -1,15895 | 1,40E-05 |
| GRAMD1A | -1,15995 | 8,25E-09 |
| EIF2A | -1,16064 | 2,11E-06 |
| LASP1 | -1,16255 | 4,12E-05 |
| UBE2W | -1,16442 | 3,84E-06 |
| PLCB4 | -1,16535 | 0,000122 |
| CIC | -1,16554 | 3,76E-09 |
| PPP1R8 | -1,16558 | 9,62E-09 |
| USP33 | -1,16588 | 6,84E-06 |
| PKNOX1 | -1,16593 | 7,54E-06 |
| SURF4 | -1,16604 | 1,77E-06 |
| PWP2 | -1,16643 | 1,53E-06 |
| SIN3B | -1,16666 | 1,78E-07 |
| CDK17 | -1,16698 | 0,000606 |
| MFAP1 | -1,16803 | 4,92E-05 |
| HPS3 | -1,16814 | 1,27E-06 |
| ACTB | -1,16818 | 2,15E-05 |
| TFDP2 | -1,1682 | 3,69E-07 |
| DPP9 | -1,16832 | 7,19E-07 |
| RND3 | -1,16854 | 5,07E-05 |
| FKBP15 | -1,16907 | 1,00E-07 |
| SUN1 | -1,16916 | 1,54E-09 |
| DHDDS | -1,16959 | 0,001001 |
| PDLIM7 | -1,17054 | 2,21E-06 |
| DNAJC8 | -1,17099 | 1,92E-08 |
| EIF3D | -1,17107 | 4,61E-08 |
| DCTN6 | -1,17372 | 1,79E-06 |
| PRPS2 | -1,175 | 3,48E-05 |
| ALYREF | -1,17543 | 2,00E-10 |
| LPP | -1,17649 | 2,62E-06 |
| DNAJC16 | -1,17748 | 5,05E-05 |
| AKIRIN2 | -1,17816 | 1,53E-05 |
| DMWD | -1,17897 | 3,41E-06 |
| HIAT1 | -1,17902 | 1,91E-07 |
| MTMR2 | -1,17967 | 9,04E-06 |
| NUS1 | -1,18289 | 7,28E-07 |
| CAPZB | -1,18308 | 2,47E-05 |
| HK2 | -1,18332 | 0,000791 |
| PHF20L1 | -1,18359 | 1,54E-09 |
| TSR2 | -1,18399 | 1,52E-08 |
| SHB | -1,18514 | 4,79E-10 |
| TMCO1 | -1,1852 | 6,22E-05 |
| MRPL47 | -1,18521 | 3,19E-07 |
| MYDGF | -1,18609 | 2,28E-06 |
| PTAR1 | -1,18682 | 0,000115 |
| FOXK1 | -1,18757 | 1,84E-07 |

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| INTS9 | -1,18982 | 2,17E-06 |
| STARD3 | -1,19084 | 0,000383 |
| ARID4B | -1,191 | 8,77E-05 |
| SERTAD2 | -1,19116 | 6,55E-08 |
| DIEXF | -1,19186 | 0,000417 |
| HEATR1 | -1,19255 | 5,59E-07 |
| PAK1IP1 | -1,19274 | 2,36E-06 |
| DIS3 | -1,19443 | 2,01E-06 |
| ORMDL3 | -1,1992 | 0,000119 |
| NCAPD3 | -1,1998 | 1,08E-06 |
| STK24 | -1,20144 | 1,69E-09 |
| PHACTR4 | -1,20166 | 4,73E-10 |
| TM2D2 | -1,20218 | 6,13E-07 |
| NONO | -1,20239 | 1,05E-08 |
| ACOT7 | -1,20251 | 5,83E-06 |
| LDHA | -1,20275 | 3,12E-09 |
| GPKOW | -1,20348 | 0,000113 |
| YAP1 | -1,20363 | 1,71E-06 |
| MAP3K3 | -1,20371 | 0,00013 |
| MAD2L2 | -1,20388 | 0,000189 |
| EXT2 | -1,20461 | 6,81E-05 |
| SIPA1L3 | -1,20534 | 1,05E-09 |
| RWDD1 | -1,20627 | 8,97E-07 |
| TRAF3IP1 | -1,2079 | 2,69E-07 |
| BAP1 | -1,20854 | 1,58E-10 |
| ZMYM6 | -1,20935 | 0,000239 |
| ATG3 | -1,20979 | 6,25E-09 |
| HAT1 | -1,21002 | 6,65E-10 |
| UBAC2 | -1,21015 | 2,62E-07 |
| CC2D1B | -1,21037 | 1,49E-06 |
| EXO5 | -1,2105 | 0,000232 |
| RNF220 | -1,21182 | 8,51E-10 |
| USP4 | -1,21223 | 2,34E-05 |
| CHCHD2 | -1,21247 | 7,67E-13 |
| CASP7 | -1,21359 | 0,000282 |
| KANK2 | -1,21436 | 1,13E-07 |
| CCZ1 | -1,21447 | 1,67E-06 |
| KIF18A | -1,21457 | 5,14E-05 |
| FAN1 | -1,21493 | 0,000681 |
| KAT6A | -1,2163 | 3,36E-06 |
| PI4K2A | -1,21776 | 5,41E-05 |
| DDX10 | -1,21864 | 3,58E-09 |
| CAP2 | -1,21885 | 1,67E-07 |
| ALG3 | -1,21938 | 6,33E-05 |
| PHC2 | -1,21963 | 2,45E-06 |
| LAPTM4A | -1,21971 | 9,41E-10 |
| TMEM51 | -1,22021 | 1,61E-05 |
| OXCT1 | -1,22379 | 1,54E-06 |
| ERCC2 | -1,22602 | 1,39E-05 |
| DAB2IP | -1,22622 | 7,53E-09 |

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| NF2 | -1,2273 | 4,95E-07 |
| MKL1 | -1,22793 | 8,68E-09 |
| INTS10 | -1,22845 | 7,64E-07 |
| UTP6 | -1,23103 | 7,77E-09 |
| CDV3 | -1,23114 | 4,75E-07 |
| CEP152 | -1,23137 | 0,000846 |
| MORC3 | -1,23166 | 0,000254 |
| SLC36A1 | -1,23174 | 1,43E-05 |
| STX2 | -1,23341 | 9,26E-05 |
| PLEKHG2 | -1,23363 | 3,64E-07 |
| DDX56 | -1,23425 | 4,24E-10 |
| ARHGEF7 | -1,23453 | 2,20E-06 |
| EXOSC3 | -1,23534 | 1,34E-06 |
| RAB7A | -1,23805 | 0,000109 |
| PITPNB | -1,23836 | 4,31E-11 |
| GLMN | -1,23956 | 0,000456 |
| NEK7 | -1,23987 | 3,22E-06 |
| ZFAND5 | -1,23988 | 2,58E-09 |
| ARIH2 | -1,24053 | 3,20E-09 |
| SLC25A46 | -1,24054 | 2,84E-06 |
| BCL3 | -1,24109 | 0,000127 |
| BNIP2 | -1,24138 | 1,27E-05 |
| ITGB1 | -1,24327 | 2,95E-07 |
| TRMU | -1,24362 | 1,61E-05 |
| ASCC3 | -1,245 | 0,000332 |
| ISY1 | -1,24576 | 2,15E-05 |
| TMEM38B | -1,24587 | 2,97E-05 |
| TMEM248 | -1,24626 | 2,09E-09 |
| THAP4 | -1,24628 | 5,04E-09 |
| HK1 | -1,24733 | 1,59E-05 |
| ACTN4 | -1,24734 | 1,69E-06 |
| GNL3 | -1,24803 | 3,38E-05 |
| CSPP1 | -1,24943 | 0,000265 |
| KDM5C | -1,24961 | 1,41E-10 |
| HDHD1 | -1,24966 | 0,000861 |
| TSC22D2 | -1,24967 | 1,77E-06 |
| RIC8A | -1,2503 | 8,96E-12 |
| PHIP | -1,25177 | 1,18E-07 |
| DEDD2 | -1,25336 | 6,67E-05 |
| BAG4 | -1,25368 | 2,44E-05 |
| GPATCH3 | -1,25513 | 0,000306 |
| UBE3A | -1,25593 | 2,90E-10 |
| FAM49B | -1,25639 | 7,87E-10 |
| RUNX2 | -1,25768 | 1,24E-07 |
| AP2A2 | -1,25933 | 5,61E-09 |
| CCDC14 | -1,26133 | 0,000394 |
| GAS6 | -1,26183 | 0,000236 |
| PRPF38A | -1,26198 | 4,77E-11 |
| FLVCR1 | -1,26275 | 0,000314 |
| APTX | -1,2634 | 1,66E-06 |

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| CD99L2 | -1,26348 | 2,69E-05 |
| MAP3K7 | -1,26619 | 1,65E-08 |
| CDK11B | -1,26704 | 5,73E-07 |
| DNTTIP2 | -1,26956 | 2,32E-10 |
| TRIO | -1,26972 | 5,75E-09 |
| TMEM138 | -1,27089 | 3,70E-08 |
| SNTA1 | -1,27301 | 2,83E-05 |
| SOCS6 | -1,27322 | 1,47E-05 |
| LMNA | -1,27329 | 0,000111 |
| UHRF2 | -1,27432 | 0,000554 |
| SSFA2 | -1,27579 | 1,06E-09 |
| CDC37L1 | -1,27586 | 2,45E-05 |
| HAUS6 | -1,27693 | 6,29E-07 |
| TJAP1 | -1,27853 | 0,000374 |
| CHAF1B | -1,27919 | 6,06E-07 |
| DHX16 | -1,27963 | 1,38E-10 |
| HDAC1 | -1,27982 | 7,56E-11 |
| PPP5C | -1,28107 | 7,88E-09 |
| MMS22L | -1,28294 | 9,95E-06 |
| RAP1A | -1,28354 | 1,24E-07 |
| RLIM | -1,2846 | 9,00E-11 |
| APEX2 | -1,28534 | 8,76E-09 |
| NIPA2 | -1,28553 | 5,53E-07 |
| MALSU1 | -1,28634 | 3,66E-05 |
| PNP | -1,28673 | 8,14E-10 |
| ERCC6L | -1,28677 | 2,49E-07 |
| TTK | -1,28776 | 1,73E-07 |
| EFCAB2 | -1,28799 | 0,000981 |
| TOM1L2 | -1,28894 | 0,000159 |
| TFB2M | -1,28937 | 5,43E-05 |
| BNIP3L | -1,29027 | 0,000905 |
| HSPA13 | -1,29032 | 5,39E-05 |
| EPHX1 | -1,29052 | 0,000121 |
| MTO1 | -1,29108 | 9,78E-07 |
| AIDA | -1,29139 | 4,37E-05 |
| EBNA1BP2 | -1,29221 | 1,74E-13 |
| ZRANB2 | -1,29222 | 1,30E-10 |
| NOL4L | -1,29247 | 1,82E-07 |
| HIATL1 | -1,29289 | 9,22E-09 |
| MORF4L2 | -1,29364 | 3,65E-12 |
| PHF8 | -1,29467 | 1,31E-07 |
| BAHD1 | -1,29476 | 4,83E-07 |
| C20orf24 | -1,29507 | 5,41E-08 |
| SLC9A1 | -1,29678 | 6,34E-11 |
| KIAA2013 | -1,29687 | 7,60E-09 |
| HSD17B12 | -1,29695 | 2,00E-09 |
| SATB2 | -1,29869 | 1,64E-06 |
| DNAJB2 | -1,30179 | 8,06E-09 |
| CEP89 | -1,30194 | 3,18E-06 |
| ACVR1 | -1,30251 | 4,75E-05 |

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| SKI | -1,30274 | 7,45E-10 |
| KIAA0020 | -1,30412 | 2,44E-05 |
| RABGEF1 | -1,30647 | 3,62E-08 |
| SBNO2 | -1,30716 | 7,70E-08 |
| SDHB | -1,30754 | 3,67E-09 |
| MRPL32 | -1,30952 | 6,52E-08 |
| CASP8AP2 | -1,31071 | 2,55E-06 |
| IPO5 | -1,31086 | 1,44E-13 |
| MLPH | -1,31291 | 3,65E-09 |
| CADM1 | -1,3159 | 2,30E-08 |
| C1orf112 | -1,31649 | 1,34E-06 |
| SLC25A22 | -1,31657 | 2,88E-07 |
| ARHGEF18 | -1,31711 | 1,16E-08 |
| IKBKB | -1,3173 | 0,00021 |
| UBA2 | -1,3185 | 3,14E-08 |
| CASC4 | -1,31904 | 8,33E-09 |
| ZNF234 | -1,31939 | 0,000678 |
| UBE2V2 | -1,31969 | 3,64E-06 |
| PFKP | -1,31995 | 5,68E-07 |
| ITGAV | -1,31998 | 5,08E-06 |
| MYCBP2 | -1,32113 | 1,35E-08 |
| MIER2 | -1,32149 | 4,42E-06 |
| MRTO4 | -1,32229 | 1,11E-12 |
| DONSON | -1,3236 | 2,75E-06 |
| CWC25 | -1,32391 | 5,83E-07 |
| TOPBP1 | -1,32422 | 2,11E-11 |
| EIF4A2 | -1,32554 | 0,00036 |
| ZNF275 | -1,32629 | 2,15E-07 |
| ANKLE2 | -1,32729 | 5,68E-10 |
| DOCK7 | -1,32859 | 4,57E-09 |
| ACBD3 | -1,3292 | 5,44E-09 |
| AHCTF1 | -1,32964 | 5,86E-06 |
| ARFGAP1 | -1,32968 | 5,96E-08 |
| TIMM17A | -1,33171 | 1,12E-07 |
| ACTN1 | -1,33179 | 6,04E-07 |
| PLEKHM2 | -1,33206 | 3,00E-12 |
| OSBPL2 | -1,33333 | 5,93E-09 |
| MSANTD3 | -1,33432 | 2,14E-06 |
| WASF2 | -1,33434 | 2,35E-13 |
| ERI1 | -1,33456 | 2,89E-08 |
| GPATCH1 | -1,3349 | 3,75E-07 |
| CDC42 | -1,33807 | 9,64E-10 |
| KPNA1 | -1,33844 | 2,83E-08 |
| TXN | -1,33867 | 1,10E-05 |
| RAPH1 | -1,3404 | 1,07E-05 |
| MFN2 | -1,34078 | 9,17E-13 |
| S1PR2 | -1,34189 | 0,000608 |
| RAI14 | -1,34441 | 1,72E-06 |
| NASP | -1,34585 | 1,06E-14 |
| MRPS22 | -1,34614 | 4,18E-09 |

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| ADAM17 | -1,34641 | 7,53E-10 |
| CBFB | -1,34671 | 1,30E-10 |
| REXO1 | -1,34673 | 5,25E-12 |
| C1orf216 | -1,34687 | 6,66E-06 |
| SLC23A2 | -1,34752 | 2,50E-08 |
| CCDC58 | -1,3476 | 6,44E-08 |
| PJA1 | -1,34809 | 0,000137 |
| CAPZA1 | -1,35026 | 2,71E-11 |
| ATP1B3 | -1,35056 | 1,67E-14 |
| CITED2 | -1,35122 | 4,06E-05 |
| COPA | -1,35123 | 1,61E-10 |
| TMEM87A | -1,3538 | 4,32E-11 |
| QSOX2 | -1,35435 | 1,64E-05 |
| RNF216P1 | -1,35441 | 1,50E-06 |
| DNAJC11 | -1,35479 | 9,87E-13 |
| PLP2 | -1,35551 | 8,62E-11 |
| NCLN | -1,35679 | 1,07E-12 |
| MIER1 | -1,35682 | 3,88E-08 |
| IRS1 | -1,35682 | 4,18E-10 |
| SYMPK | -1,35902 | 6,83E-14 |
| SPG20 | -1,35911 | 3,67E-07 |
| DENND5A | -1,36 | 3,60E-05 |
| LEPROTL1 | -1,36011 | 6,11E-06 |
| KIFAP3 | -1,36115 | 4,42E-06 |
| TOE1 | -1,36168 | 0,000107 |
| UBAP1 | -1,3647 | 2,05E-08 |
| SLC9A6 | -1,36507 | 0,000666 |
| ANXA5 | -1,3651 | 3,23E-13 |
| KIAA1524 | -1,36548 | 8,31E-09 |
| DBNL | -1,36569 | 1,18E-05 |
| MDC1 | -1,36569 | 7,12E-12 |
| ZNF512 | -1,36656 | 9,34E-07 |
| MPZL1 | -1,36674 | 5,95E-14 |
| SSH1 | -1,36882 | 5,71E-10 |
| SEMA7A | -1,36952 | 3,64E-06 |
| TMEM30A | -1,37189 | 2,64E-05 |
| SUV39H1 | -1,37189 | 2,50E-09 |
| FAXC | -1,37341 | 0,000224 |
| NECAP2 | -1,3786 | 1,42E-09 |
| B3GALT6 | -1,37888 | 3,10E-08 |
| BLOC1S6 | -1,37899 | 3,55E-09 |
| EXOSC10 | -1,3805 | 1,70E-10 |
| KLHL2 | -1,38056 | 0,000162 |
| MYADM | -1,38064 | 0,000163 |
| CDC42BPA | -1,38072 | 1,56E-06 |
| BRF2 | -1,38112 | 2,78E-07 |
| ATG4B | -1,38119 | 5,75E-09 |
| GNAI2 | -1,3819 | 7,96E-06 |
| DEPDC1 | -1,38202 | 3,17E-07 |
| UBXN8 | -1,38215 | 2,77E-05 |

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| LSM1 | -1,38247 | 1,14E-06 |
| SLC25A32 | -1,38276 | 1,03E-06 |
| KIF4A | -1,38299 | 2,41E-12 |
| PBDC1 | -1,38403 | 8,03E-09 |
| AP1M1 | -1,38649 | 1,75E-06 |
| RNF170 | -1,38668 | 0,000407 |
| SRPRB | -1,38679 | 1,17E-13 |
| EXO1 | -1,39012 | 1,22E-09 |
| SHQ1 | -1,3902 | 7,46E-07 |
| TMEM39B | -1,39049 | 6,49E-06 |
| TCEB1 | -1,39146 | 1,99E-12 |
| ATG9A | -1,3939 | 2,45E-06 |
| MTF2 | -1,39456 | 2,86E-06 |
| HDAC7 | -1,39477 | 2,84E-10 |
| PDGFA | -1,39504 | 1,64E-07 |
| SAT2 | -1,39533 | 1,73E-06 |
| GFM1 | -1,39662 | 4,68E-12 |
| GTF2B | -1,39691 | 6,76E-07 |
| GADD45A | -1,39712 | 4,78E-07 |
| HBS1L | -1,39903 | 2,40E-12 |
| MRPL37 | -1,39999 | 6,24E-08 |
| REXO2 | -1,40182 | 2,32E-05 |
| CLSTN1 | -1,40335 | 1,24E-09 |
| VPS37B | -1,40349 | 6,05E-10 |
| WDR47 | -1,40531 | 8,56E-06 |
| NUDT16 | -1,40718 | 2,16E-06 |
| ASB6 | -1,40814 | 2,56E-09 |
| C16orf70 | -1,40932 | 1,62E-05 |
| GPN2 | -1,40943 | 6,40E-10 |
| TMED5 | -1,41061 | 5,64E-08 |
| TRAM1 | -1,41109 | 1,49E-05 |
| PPARA | -1,41138 | 0,000167 |
| SLC39A13 | -1,41525 | 7,58E-07 |
| LYRM2 | -1,41763 | 1,13E-10 |
| LDAH | -1,41795 | 5,91E-08 |
| BUB1B | -1,41888 | 1,14E-05 |
| ERICH1 | -1,41905 | 3,62E-07 |
| TMEM59 | -1,42199 | 2,17E-06 |
| KPNA6 | -1,42441 | 1,62E-11 |
| EIF3J | -1,42458 | 4,53E-12 |
| MGAT5 | -1,42518 | 3,74E-09 |
| ARFGEF1 | -1,42601 | 3,35E-10 |
| VAMP3 | -1,42728 | 5,10E-05 |
| IPO9 | -1,42782 | 5,34E-10 |
| EMC1 | -1,42848 | 6,08E-09 |
| PLK2 | -1,42879 | 0,000171 |
| TMCO3 | -1,42973 | 6,13E-06 |
| TOMM40L | -1,43021 | 2,59E-06 |
| TAF5L | -1,43094 | 3,83E-10 |
| EFNB1 | -1,4315 | 5,97E-06 |

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| SLC16A9 | -1,43409 | 0,000238 |
| ITGA6 | -1,43492 | 2,18E-05 |
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| BBX | -1,43564 | 1,52E-07 |
| COPB2 | -1,43657 | 2,40E-07 |
| GTF2A2 | -1,43695 | 1,85E-12 |
| KIF2C | -1,43896 | 2,35E-09 |
| TBC1D23 | -1,43906 | 5,01E-07 |
| CCM2 | -1,43965 | 4,71E-09 |
| YEATS2 | -1,44017 | 0,000258 |
| CEP85 | -1,44164 | 0,000277 |
| SYTL2 | -1,44175 | 3,36E-08 |
| MICA | -1,44469 | 2,11E-06 |
| BCL2L2 | -1,44516 | 8,14E-07 |
| SKIL | -1,44596 | 9,05E-08 |
| SH3BP5L | -1,44618 | 5,15E-11 |
| XPNPEP1 | -1,44878 | 2,14E-07 |
| RAD54L | -1,4493 | 1,81E-06 |
| SLC20A2 | -1,44963 | 3,61E-11 |
| PTS | -1,45005 | 1,78E-05 |
| CREB3 | -1,45106 | 1,59E-05 |
| PLEC | -1,45246 | 0,000705 |
| LYPD1 | -1,45284 | 0,000585 |
| FAM65A | -1,45425 | 1,37E-11 |
| NME7 | -1,45457 | 6,08E-05 |
| IMPAD1 | -1,4554 | 5,85E-12 |
| LOC101925 | -1,45668 | 0,001006 |
| ARID1B | -1,45985 | 4,37E-10 |
| TBC1D2B | -1,46214 | 1,71E-09 |
| ABCD3 | -1,46272 | 1,72E-10 |
| RRAS2 | -1,463 | 9,28E-06 |
| TBL1XR1 | -1,46496 | 1,43E-08 |
| INPP5B | -1,46567 | 0,000281 |
| UBR1 | -1,4663 | 0,000226 |
| ZNF283 | -1,46686 | 0,00023 |
| CENPW | -1,46731 | 3,46E-07 |
| MYEOV2 | -1,4674 | 3,46E-10 |
| NCS1 | -1,47111 | 4,94E-15 |
| LBR | -1,47159 | 5,90E-10 |
| SH3GL1 | -1,47415 | 2,24E-10 |
| SQSTM1 | -1,47442 | 3,37E-05 |
| STK4 | -1,47469 | 4,21E-13 |
| DMAP1 | -1,47569 | 2,27E-05 |
| ABCC4 | -1,47579 | 6,84E-10 |
| LPIN1 | -1,47806 | 0,000786 |
| MELK | -1,47905 | 2,87E-14 |
| LANCL2 | -1,48078 | 5,19E-12 |
| STOM | -1,48092 | 1,02E-10 |
| PLEKHA3 | -1,48144 | 3,44E-05 |
| PIP4K2A | -1,48369 | 2,02E-07 |

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| NFAT5 | -1,48375 | 7,60E-06 |
| SSH2 | -1,48499 | 6,32E-07 |
| FAM76A | -1,48512 | 0,00099 |
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| ADAM10 | -1,48561 | 2,37E-12 |
| SMU1 | -1,48745 | 1,03E-13 |
| LRRC47 | -1,48757 | 1,14E-08 |
| TMEM50A | -1,48827 | 2,51E-11 |
| MPRIIP | -1,48976 | 1,75E-11 |
| MAGOH | -1,49095 | 2,15E-13 |
| ZYX | -1,49219 | 4,66E-10 |
| EDEM1 | -1,49367 | 4,61E-10 |
| ICMT | -1,4939 | 2,56E-15 |
| MANEA | -1,49439 | 0,000116 |
| SGCB | -1,4946 | 5,31E-09 |
| NSMAF | -1,49464 | 7,52E-11 |
| GIN3 | -1,49571 | 5,21E-05 |
| YIPF6 | -1,49733 | 4,64E-12 |
| LMF2 | -1,49757 | 3,72E-08 |
| FUCA1 | -1,49945 | 1,46E-05 |
| DOCK1 | -1,50068 | 1,78E-08 |
| GNL2 | -1,50073 | 2,93E-13 |
| MAD1L1 | -1,50181 | 1,50E-16 |
| GBF1 | -1,50184 | 2,66E-06 |
| HIC2 | -1,50227 | 0,000448 |
| NUP43 | -1,50395 | 2,18E-08 |
| PFN2 | -1,50431 | 6,19E-17 |
| PSMB2 | -1,50445 | 8,06E-18 |
| FOXC1 | -1,50514 | 4,85E-08 |
| SDCCAG8 | -1,50522 | 4,58E-06 |
| ANXA6 | -1,50905 | 2,06E-05 |
| B4GALT4 | -1,51037 | 7,35E-10 |
| GOPC | -1,5121 | 4,67E-12 |
| YRDC | -1,51281 | 1,32E-08 |
| DDAH1 | -1,51299 | 0,000142 |
| TOX2 | -1,51305 | 3,76E-06 |
| KRBOX4 | -1,51313 | 0,00013 |
| DNAJB11 | -1,51375 | 6,31E-15 |
| SNAP23 | -1,51515 | 2,54E-07 |
| SOWAHC | -1,5159 | 0,000547 |
| UTP11L | -1,5161 | 3,38E-11 |
| ATP11B | -1,51839 | 8,76E-13 |
| PGS1 | -1,51861 | 5,87E-07 |
| GBE1 | -1,52097 | 4,56E-07 |
| KLHL5 | -1,52215 | 8,66E-09 |
| MIR4435-2 | -1,52279 | 1,73E-06 |
| ENO1 | -1,52358 | 4,81E-09 |
| PPP1R9B | -1,52436 | 4,57E-17 |
| ERC2 | -1,52481 | 4,20E-05 |
| MIA3 | -1,52495 | 6,42E-13 |

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| HOXB7 | -1,52597 | 5,71E-07 |
| NOTCH2 | -1,52611 | 6,13E-16 |
| FNIP1 | -1,52842 | 7,92E-12 |
| IP6K1 | -1,52852 | 3,63E-14 |
| TNFRSF12A | -1,52883 | 0,000234 |
| ETV6 | -1,52945 | 4,65E-09 |
| CDC20 | -1,531 | 9,77E-20 |
| PCBP4 | -1,53179 | 3,14E-09 |
| PRDM2 | -1,53193 | 1,62E-09 |
| MIB2 | -1,53235 | 4,06E-06 |
| BACH1 | -1,53334 | 3,42E-06 |
| YAE1D1 | -1,53372 | 3,22E-05 |
| ARID5A | -1,53516 | 8,13E-06 |
| TRIM5 | -1,53539 | 0,000679 |
| FAM129B | -1,53697 | 8,17E-13 |
| OSBPL5 | -1,53793 | 2,62E-06 |
| EIF5A2 | -1,53822 | 5,25E-08 |
| NOD1 | -1,53834 | 8,73E-06 |
| LRRC40 | -1,53938 | 1,90E-06 |
| TNK2 | -1,54003 | 9,60E-05 |
| TMEM181 | -1,54368 | 4,04E-11 |
| PPP2R2A | -1,54451 | 8,37E-15 |
| SGK223 | -1,54663 | 2,15E-08 |
| ALG14 | -1,54874 | 0,000163 |
| ARRDC1-AS | -1,55022 | 3,84E-05 |
| LUZP1 | -1,55186 | 1,50E-05 |
| MAGT1 | -1,55232 | 2,12E-14 |
| TOLLIP | -1,5527 | 2,21E-05 |
| WDR76 | -1,55352 | 3,61E-07 |
| ARMCX3 | -1,55462 | 3,33E-08 |
| UBQLN2 | -1,55565 | 3,04E-13 |
| NSRP1 | -1,55566 | 3,02E-11 |
| ATP6V0B | -1,55663 | 1,92E-17 |
| HDLBP | -1,55682 | 1,28E-09 |
| PLEKHA5 | -1,55723 | 7,78E-09 |
| VASP | -1,55866 | 4,49E-16 |
| COPS7B | -1,55913 | 7,70E-09 |
| ZAK | -1,56111 | 4,48E-11 |
| LATS2 | -1,56116 | 1,99E-07 |
| ANTXR1 | -1,56135 | 7,16E-17 |
| CCDC137 | -1,56189 | 4,21E-08 |
| SEC23A | -1,56434 | 2,38E-08 |
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| RER1 | -1,56473 | 2,05E-15 |
| EIF2B3 | -1,5651 | 3,14E-06 |
| HMGXB3 | -1,56519 | 2,55E-18 |
| ESCO2 | -1,56637 | 3,73E-09 |
| SNRNP40 | -1,56677 | 2,22E-12 |
| AMPD2 | -1,56766 | 1,00E-08 |
| CXXC5 | -1,56829 | 4,04E-06 |

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| MPDZ | -1,56829 | 1,67E-06 |
| DIAPH3 | -1,56902 | 3,88E-05 |
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| LY6G5B | -1,57088 | 0,000473 |
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| GTF2E2 | -1,57196 | 1,20E-15 |
| FAM73A | -1,57334 | 1,63E-05 |
| CLN8 | -1,57472 | 2,99E-10 |
| SEPT2 | -1,57639 | 1,10E-17 |
| TPM4 | -1,57893 | 3,67E-18 |
| NEDD4L | -1,57898 | 1,72E-07 |
| SEPN1 | -1,57914 | 8,03E-17 |
| RBFOX2 | -1,58351 | 1,61E-16 |
| LAS1L | -1,58552 | 2,78E-11 |
| STXBP1 | -1,5862 | 3,53E-09 |
| GIN5 | -1,58802 | 4,54E-12 |
| HUS1 | -1,58824 | 2,54E-07 |
| BAG3 | -1,58983 | 3,35E-06 |
| NMNAT1 | -1,59025 | 7,42E-06 |
| ZBTB17 | -1,59055 | 1,45E-11 |
| TLN1 | -1,59092 | 1,23E-13 |
| TRIT1 | -1,59328 | 1,49E-08 |
| GNG5 | -1,59489 | 2,83E-14 |
| SPAG9 | -1,59637 | 1,85E-10 |
| BICD2 | -1,59927 | 3,97E-12 |
| STXBP5 | -1,59963 | 1,31E-06 |
| SNTB2 | -1,60156 | 1,46E-09 |
| HSPA12A | -1,60347 | 0,000134 |
| POLQ | -1,60505 | 9,90E-07 |
| TBC1D4 | -1,6056 | 0,000339 |
| MSX1 | -1,60706 | 2,57E-06 |
| PGK1 | -1,60835 | 4,55E-17 |
| QSOX1 | -1,60867 | 3,15E-11 |
| ITPR1PL2 | -1,60979 | 4,75E-11 |
| POLR3D | -1,61001 | 1,66E-08 |
| KCTD9 | -1,61038 | 1,09E-10 |
| PRKACB | -1,61322 | 3,46E-07 |
| PDLIM2 | -1,61362 | 7,28E-06 |
| CHSY1 | -1,61568 | 1,48E-09 |
| TMEM39A | -1,61625 | 2,63E-07 |
| SHCBP1 | -1,62311 | 4,81E-14 |
| PTPN21 | -1,62843 | 5,04E-09 |
| LOXL1-AS1 | -1,63063 | 0,000836 |
| MTERF4 | -1,63134 | 7,12E-10 |
| HIPK2 | -1,63266 | 1,11E-05 |
| LEPROT | -1,63321 | 7,43E-12 |
| ATP6V1H | -1,63507 | 7,48E-12 |
| DNAJC24 | -1,63791 | 2,73E-05 |
| CLDND1 | -1,63873 | 4,11E-10 |
| NR2F1 | -1,63897 | 2,38E-05 |

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| MLF1 | -1,64047 | 3,45E-08 |
| CD58 | -1,64159 | 9,22E-07 |
| HCFC2 | -1,6421 | 0,000459 |
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| OTUD3 | -1,64247 | 2,98E-07 |
| PAM | -1,64407 | 2,17E-08 |
| MBTPS2 | -1,64644 | 1,86E-11 |
| STAT3 | -1,64798 | 3,31E-06 |
| APOBEC3B | -1,65166 | 2,20E-05 |
| FGFR2 | -1,65523 | 5,91E-06 |
| EMC7 | -1,6553 | 6,97E-10 |
| R3HCC1 | -1,65587 | 1,27E-09 |
| DR1 | -1,66195 | 2,78E-10 |
| HGSNAT | -1,66215 | 3,50E-06 |
| TTC28 | -1,66249 | 7,65E-06 |
| TYRO3 | -1,66266 | 6,38E-17 |
| CHPF2 | -1,66283 | 1,35E-08 |
| CRISPLD2 | -1,66393 | 9,52E-09 |
| NUMBL | -1,665 | 3,12E-13 |
| PLEKHM1 | -1,66988 | 1,18E-06 |
| ARF4 | -1,67302 | 1,56E-06 |
| YKT6 | -1,67334 | 2,42E-19 |
| CYB5R3 | -1,67336 | 1,72E-10 |
| LOC100506 | -1,67765 | 0,000381 |
| HIVEP2 | -1,67886 | 1,17E-08 |
| CMPK1 | -1,68012 | 6,69E-09 |
| RIC1 | -1,68051 | 6,00E-08 |
| JAG1 | -1,68239 | 1,43E-06 |
| DAPK3 | -1,6834 | 1,41E-16 |
| RAPGEF1 | -1,68387 | 2,04E-12 |
| CSNK1D | -1,68634 | 7,42E-17 |
| SRSF4 | -1,68772 | 3,98E-14 |
| NABP1 | -1,68902 | 2,49E-08 |
| MYH9 | -1,68934 | 2,46E-12 |
| HTRA1 | -1,6905 | 8,08E-11 |
| NCEH1 | -1,69218 | 1,61E-06 |
| POMK | -1,69266 | 0,000639 |
| PPARG | -1,69331 | 0,000956 |
| DIXDC1 | -1,6934 | 1,44E-05 |
| TAF9B | -1,69427 | 1,46E-06 |
| SLC16A1 | -1,69561 | 3,14E-16 |
| MCPH1 | -1,69637 | 8,30E-13 |
| PIBF1 | -1,69744 | 2,82E-05 |
| SVIL-AS1 | -1,69875 | 7,37E-11 |
| UBA3 | -1,69999 | 1,43E-13 |
| FAM135A | -1,70097 | 0,000331 |
| ASB1 | -1,70169 | 3,56E-14 |
| AKIRIN1 | -1,70286 | 1,13E-15 |
| TRIM35 | -1,70307 | 1,09E-09 |
| POLR1E | -1,70338 | 1,23E-13 |

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| LRIG1 | -1,70393 | 5,28E-10 |
| ELP3 | -1,70411 | 6,94E-17 |
| DMPK | -1,7042 | 2,93E-06 |
| CLTA | -1,70623 | 1,30E-17 |
| FXR1 | -1,70746 | 6,35E-13 |
| C1orf52 | -1,71045 | 7,37E-09 |
| PRKAR2A | -1,71151 | 1,75E-08 |
| FAM20C | -1,71389 | 1,86E-10 |
| B4GALT5 | -1,71607 | 1,85E-14 |
| LDLRAP1 | -1,71715 | 8,28E-07 |
| SLC36A4 | -1,71843 | 1,78E-05 |
| C2orf74 | -1,71944 | 5,89E-06 |
| USP16 | -1,72019 | 1,95E-17 |
| SNX30 | -1,72042 | 2,45E-11 |
| PML | -1,72081 | 4,42E-05 |
| BICD1 | -1,72204 | 8,78E-07 |
| PSMD2 | -1,72421 | 1,14E-16 |
| HCCS | -1,72524 | 1,02E-10 |
| PANK2 | -1,72666 | 5,01E-12 |
| PTP4A2 | -1,72737 | 2,12E-18 |
| TTLL7 | -1,72855 | 1,34E-05 |
| PLIN3 | -1,72944 | 8,85E-05 |
| KCNG1 | -1,73077 | 2,15E-05 |
| PLOD1 | -1,7325 | 3,77E-12 |
| FBXO10 | -1,733 | 5,02E-07 |
| BRWD3 | -1,73376 | 0,000183 |
| SSR3 | -1,73419 | 3,24E-16 |
| PHF13 | -1,7342 | 6,20E-14 |
| ATAD5 | -1,73454 | 7,95E-06 |
| MAMLD1 | -1,73639 | 0,000359 |
| SUN2 | -1,73936 | 5,13E-17 |
| CD83 | -1,73956 | 2,01E-05 |
| PTBP2 | -1,73971 | 2,78E-06 |
| CAB39 | -1,74037 | 1,03E-17 |
| SWAP70 | -1,74175 | 9,34E-10 |
| SDC1 | -1,74243 | 3,34E-15 |
| TYW3 | -1,74268 | 4,05E-16 |
| MBOAT2 | -1,74492 | 1,11E-11 |
| PTPRG | -1,74929 | 2,87E-10 |
| HDAC8 | -1,74992 | 7,49E-07 |
| AHI1 | -1,7505 | 2,84E-07 |
| ITGB5 | -1,75392 | 4,51E-06 |
| GNA12 | -1,75552 | 4,96E-19 |
| WWC2 | -1,76331 | 1,66E-09 |
| WSB2 | -1,76695 | 2,96E-05 |
| FURIN | -1,76757 | 1,24E-16 |
| FHL3 | -1,76863 | 2,86E-11 |
| ZMYM6NB | -1,7697 | 0,000723 |
| ACSL1 | -1,77058 | 1,42E-14 |
| MCOLN1 | -1,77108 | 7,69E-09 |

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| E2F7 | -1,77113 | 8,26E-10 |
| NOL6 | -1,77139 | 7,13E-13 |
| TEX15 | -1,77179 | 1,46E-07 |
| GANC | -1,77542 | 9,10E-06 |
| ANXA2 | -1,77557 | 1,04E-26 |
| COPRS | -1,7773 | 4,31E-18 |
| ZNF266 | -1,77961 | 1,25E-07 |
| PPP1R7 | -1,78137 | 5,47E-10 |
| ELOVL5 | -1,78269 | 1,96E-23 |
| STIM1 | -1,78407 | 9,17E-17 |
| USP1 | -1,78475 | 8,72E-12 |
| CEP170 | -1,7881 | 8,64E-13 |
| FAM195B | -1,78974 | 2,13E-08 |
| NPLOC4 | -1,79126 | 1,00E-22 |
| SEC14L1 | -1,79136 | 3,17E-12 |
| ANKRD10 | -1,79202 | 2,76E-09 |
| ZNF462 | -1,79293 | 6,36E-09 |
| DAGLA | -1,79323 | 0,00016 |
| XYLT1 | -1,79478 | 9,78E-10 |
| GPAT3 | -1,79609 | 0,000855 |
| NUDC | -1,7965 | 2,51E-10 |
| BIN3 | -1,79712 | 2,17E-09 |
| SH3GLB1 | -1,79957 | 1,15E-15 |
| C1GALT1 | -1,80162 | 5,21E-14 |
| RPF1 | -1,80431 | 1,02E-14 |
| NTN4 | -1,80485 | 0,000748 |
| OAT | -1,80546 | 1,23E-05 |
| RAB29 | -1,80568 | 3,32E-09 |
| POFUT1 | -1,80767 | 2,25E-16 |
| MAP7D3 | -1,81178 | 2,74E-21 |
| ACOT9 | -1,81456 | 8,00E-13 |
| TFDP1 | -1,81564 | 1,59E-23 |
| TSPAN4 | -1,81614 | 9,34E-07 |
| ANO6 | -1,81822 | 2,04E-13 |
| SF3A3 | -1,81964 | 3,11E-10 |
| PEX14 | -1,82155 | 1,48E-13 |
| USB1 | -1,82225 | 2,82E-07 |
| BMF | -1,82302 | 1,00E-05 |
| TMEM201 | -1,82651 | 2,71E-15 |
| SLC35G1 | -1,82703 | 0,000899 |
| RASL10B | -1,82741 | 0,000357 |
| GOLIM4 | -1,83058 | 1,47E-13 |
| MUL1 | -1,83095 | 1,14E-15 |
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| SLC41A1 | -1,83284 | 4,73E-15 |
| RANBP6 | -1,83287 | 7,19E-09 |
| UBE2J2 | -1,83698 | 6,66E-23 |
| NKX6-1 | -1,8389 | 0,000563 |
| KAZN | -1,83945 | 1,31E-09 |
| PPARD | -1,84024 | 5,03E-08 |

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| TGFB1 | -1,843 | 3,49E-15 |
| BAG2 | -1,8463 | 2,86E-14 |
| LPCAT4 | -1,84672 | 2,51E-06 |
| LRRC8E | -1,8505 | 3,35E-09 |
| TPP2 | -1,85105 | 7,61E-18 |
| ARHGDI A | -1,85106 | 1,50E-13 |
| DTX3L | -1,85119 | 2,49E-07 |
| RMDN3 | -1,85316 | 5,17E-10 |
| ZNF274 | -1,85374 | 7,23E-12 |
| SNX25 | -1,85384 | 5,59E-08 |
| SLC25A12 | -1,85491 | 1,72E-10 |
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| EEF1E1 | -1,86171 | 0,000706 |
| AFF3 | -1,86212 | 0,000181 |
| CNST | -1,86438 | 7,46E-08 |
| DNAJA1 | -1,86465 | 2,60E-11 |
| EHD4 | -1,86553 | 7,03E-15 |
| ENTHD2 | -1,86564 | 2,25E-06 |
| ZNF827 | -1,86892 | 9,67E-06 |
| RELT | -1,86992 | 1,04E-09 |
| CCNJL | -1,87267 | 1,45E-05 |
| TOMM34 | -1,87397 | 3,61E-16 |
| LMAN2L | -1,87428 | 1,65E-15 |
| ATP10D | -1,8744 | 5,44E-05 |
| GRIN2D | -1,87593 | 2,47E-05 |
| B3GLCT | -1,87633 | 6,82E-08 |
| SLIT2 | -1,87793 | 0,000544 |
| HECA | -1,88114 | 3,49E-06 |
| TRMT13 | -1,88166 | 0,000693 |
| C19orf12 | -1,88326 | 3,68E-13 |
| EVI5 | -1,88386 | 1,80E-07 |
| CENPQ | -1,88438 | 4,97E-08 |
| TMEM56 | -1,88535 | 2,32E-05 |
| C12orf4 | -1,88546 | 4,93E-11 |
| ILKAP | -1,88836 | 7,74E-11 |
| TPRA1 | -1,88929 | 1,68E-20 |
| ZNF230 | -1,8899 | 0,000287 |
| FAM214B | -1,89017 | 1,48E-08 |
| IFIT5 | -1,89034 | 0,0003 |
| SPATS2L | -1,89217 | 3,14E-14 |
| CCDC18 | -1,89262 | 0,000144 |
| WIP1 | -1,89591 | 3,65E-06 |
| UROD | -1,89632 | 6,04E-15 |
| CDC14B | -1,89693 | 6,89E-10 |
| C16orf45 | -1,89887 | 3,95E-05 |
| PQLC2 | -1,90464 | 1,71E-10 |
| RNF145 | -1,90514 | 1,08E-06 |
| SHROOM1 | -1,90637 | 1,09E-10 |

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| IFNGR2 | -1,90679 | 3,22E-09 |
| IKBIP | -1,90701 | 4,95E-05 |
| RRAGC | -1,91311 | 2,05E-14 |
| ERCC1 | -1,91612 | 1,45E-20 |
| GPAT4 | -1,91651 | 1,50E-12 |
| MPP6 | -1,91764 | 2,79E-16 |
| MAML2 | -1,91783 | 4,63E-05 |
| ANXA2P2 | -1,91791 | 0,00012 |
| NFATC4 | -1,91908 | 4,92E-07 |
| MACF1 | -1,92064 | 1,42E-23 |
| MYO9B | -1,92238 | 4,77E-11 |
| TWISTNB | -1,92392 | 1,82E-18 |
| SGK1 | -1,92419 | 0,000217 |
| CTNNAL1 | -1,92721 | 1,14E-09 |
| TNFRSF10B | -1,93185 | 4,88E-19 |
| ALAS1 | -1,93229 | 1,91E-13 |
| UAP1 | -1,93517 | 3,35E-12 |
| CAPN10 | -1,93528 | 3,13E-07 |
| LOC100125 | -1,94118 | 9,97E-12 |
| AHDC1 | -1,94475 | 1,55E-18 |
| ELF4 | -1,94951 | 2,46E-10 |
| COTL1 | -1,95139 | 2,83E-19 |
| SLC45A3 | -1,95253 | 2,72E-08 |
| WNT11 | -1,95635 | 0,000376 |
| ITPKA | -1,9568 | 0,000203 |
| TGFB3 | -1,9582 | 0,000513 |
| KIF1B | -1,95841 | 5,66E-12 |
| CCDC50 | -1,96251 | 1,40E-13 |
| DLC1 | -1,96298 | 5,02E-14 |
| SLFN5 | -1,96361 | 2,14E-08 |
| SIRT2 | -1,96644 | 1,12E-09 |
| EIF2AK4 | -1,9668 | 3,12E-22 |
| C12orf75 | -1,96952 | 6,60E-14 |
| RDX | -1,96993 | 5,87E-13 |
| ABL2 | -1,97009 | 1,37E-20 |
| CDK6 | -1,97025 | 0,000495 |
| ST3GAL4 | -1,97454 | 4,80E-08 |
| PLSCR1 | -1,97473 | 5,37E-15 |
| DOCK5 | -1,97536 | 1,25E-12 |
| IPO13 | -1,97628 | 2,00E-09 |
| DNMBP | -1,97907 | 1,42E-08 |
| USP40 | -1,98023 | 3,15E-17 |
| ANLN | -1,98238 | 2,18E-22 |
| ETHE1 | -1,9862 | 5,55E-10 |
| ARNTL | -1,98672 | 1,12E-05 |
| TXLNA | -1,98679 | 3,60E-17 |
| AAK1 | -1,9891 | 1,24E-11 |
| PANK4 | -1,991 | 1,21E-13 |
| FMNL3 | -1,99328 | 4,46E-17 |
| FBLIM1 | -1,99446 | 4,16E-07 |

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| SCCPDH | -1,99603 | 3,07E-12 |
| TMX3 | -1,99741 | 3,21E-13 |
| TSHZ3 | -2,00004 | 0,000939 |
| CARD10 | -2,00109 | 1,67E-08 |
| DCTN3 | -2,0023 | 6,18E-15 |
| RRAS | -2,00445 | 0,000102 |
| CALU | -2,00603 | 1,51E-20 |
| TUBGCP3 | -2,00735 | 2,02E-20 |
| NOL9 | -2,00737 | 4,01E-14 |
| ODF2L | -2,00813 | 2,05E-15 |
| LCA5 | -2,00936 | 0,000823 |
| BACE1 | -2,01315 | 2,22E-13 |
| DDA1 | -2,01331 | 4,23E-20 |
| SNX9 | -2,01599 | 6,16E-20 |
| ADORA2B | -2,01822 | 7,04E-05 |
| PPP2CB | -2,01865 | 2,30E-24 |
| SEPT7 | -2,01875 | 1,57E-25 |
| RASSF5 | -2,01968 | 0,000512 |
| KANK1 | -2,02231 | 2,08E-14 |
| ARFGAP3 | -2,02565 | 4,12E-12 |
| SNHG3 | -2,02573 | 2,02E-06 |
| SH3BGR13 | -2,02577 | 8,86E-08 |
| ZSCAN20 | -2,02654 | 1,24E-05 |
| FGD1 | -2,02658 | 7,06E-24 |
| ABHD6 | -2,02844 | 2,17E-05 |
| U2SURP | -2,02906 | 1,08E-32 |
| PYGO1 | -2,02966 | 2,81E-05 |
| LOC103611 | -2,0316 | 0,000631 |
| HDAC5 | -2,03296 | 4,82E-16 |
| RBM24 | -2,03473 | 3,29E-06 |
| PBK | -2,03475 | 6,70E-12 |
| CHST14 | -2,0354 | 6,59E-13 |
| LRRFIP1 | -2,03677 | 3,66E-29 |
| PITHD1 | -2,03915 | 1,56E-19 |
| VPS37A | -2,04192 | 2,76E-19 |
| KAT2B | -2,04298 | 1,01E-05 |
| ZNF530 | -2,04304 | 1,90E-06 |
| ADAM9 | -2,04535 | 6,74E-21 |
| SDC2 | -2,0478 | 5,32E-20 |
| CYLD | -2,0563 | 0,000743 |
| RDH10 | -2,05655 | 3,48E-09 |
| BIRC2 | -2,06012 | 8,01E-12 |
| RELB | -2,06262 | 2,57E-06 |
| MEF2D | -2,06936 | 4,96E-11 |
| CCDC126 | -2,06957 | 2,61E-05 |
| DLEU2 | -2,07049 | 0,000678 |
| SCMH1 | -2,07371 | 1,83E-05 |
| LACTB | -2,07407 | 0,000178 |
| PSD3 | -2,07738 | 2,41E-19 |
| SNX8 | -2,07755 | 8,20E-16 |

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| PDE4A | -2,08025 | 1,61E-11 |
| EFCAB7 | -2,08034 | 4,69E-05 |
| TCF19 | -2,0879 | 1,65E-27 |
| CLCN6 | -2,08808 | 8,30E-05 |
| SZT2 | -2,09285 | 2,62E-11 |
| SBDS | -2,09394 | 8,46E-27 |
| UBA5 | -2,09524 | 3,40E-21 |
| PPP3CC | -2,09749 | 3,74E-14 |
| IL13RA1 | -2,1034 | 3,00E-15 |
| FAT1 | -2,10539 | 3,07E-12 |
| JPH3 | -2,10594 | 3,00E-12 |
| AKR1C1 | -2,10787 | 0,000709 |
| ABCB7 | -2,1094 | 2,56E-14 |
| TCEB3 | -2,1097 | 6,49E-24 |
| FOXP1 | -2,11064 | 1,62E-21 |
| OGFRL1 | -2,12269 | 3,80E-12 |
| HECTD2 | -2,12416 | 4,18E-07 |
| CTSB | -2,12797 | 3,47E-11 |
| LPXN | -2,12819 | 5,12E-07 |
| ARL16 | -2,13232 | 4,10E-15 |
| ST5 | -2,13343 | 3,58E-08 |
| SEC61G | -2,13514 | 1,22E-09 |
| STK17A | -2,13567 | 2,28E-21 |
| SLC25A20 | -2,13904 | 6,96E-06 |
| PMEPA1 | -2,14107 | 1,45E-20 |
| SLC35D1 | -2,14231 | 3,59E-14 |
| SLC2A10 | -2,14371 | 1,20E-10 |
| HSPB11 | -2,14443 | 4,73E-13 |
| CHORDC1 | -2,14924 | 5,76E-24 |
| GPRC5B | -2,15213 | 0,000287 |
| LINC00623 | -2,15383 | 3,27E-07 |
| GNG12 | -2,15618 | 2,42E-17 |
| TAP2 | -2,15677 | 1,49E-14 |
| SHISA4 | -2,15948 | 0,000732 |
| PGM3 | -2,1661 | 2,56E-14 |
| SLC25A37 | -2,16849 | 3,07E-14 |
| IMPA1 | -2,16933 | 2,21E-15 |
| STARD8 | -2,16976 | 0,000406 |
| C15orf41 | -2,17229 | 1,06E-06 |
| PMAIP1 | -2,17532 | 2,00E-08 |
| GADD45B | -2,17825 | 0,000213 |
| CERK | -2,17965 | 6,24E-10 |
| PITPNM2 | -2,18003 | 5,00E-10 |
| RBPMS2 | -2,18007 | 3,30E-11 |
| TMEM44 | -2,1803 | 1,13E-09 |
| SMC4 | -2,1818 | 4,31E-28 |
| CCND3 | -2,18217 | 3,61E-07 |
| HOXC4 | -2,18263 | 0,000183 |
| SMYD3 | -2,18338 | 1,27E-09 |
| TUBB2A | -2,18358 | 6,47E-06 |

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| STEAP1 | -2,18406 | 0,000687 |
| SUSD1 | -2,18711 | 4,54E-10 |
| VCL | -2,18713 | 3,94E-11 |
| TMEM104 | -2,18801 | 1,89E-13 |
| FGFRL1 | -2,18858 | 1,02E-33 |
| TK2 | -2,18925 | 2,08E-08 |
| FOXO3 | -2,19143 | 1,41E-09 |
| CORO1C | -2,19201 | 1,11E-29 |
| HLA-F | -2,19425 | 0,000779 |
| CDK14 | -2,19433 | 2,05E-05 |
| CSRNP1 | -2,19435 | 7,17E-14 |
| RIMS3 | -2,2001 | 1,23E-05 |
| SLC30A7 | -2,20704 | 1,21E-15 |
| ENTPD4 | -2,20834 | 2,95E-23 |
| SERPINB8 | -2,20981 | 1,84E-06 |
| TYMP | -2,21175 | 0,000234 |
| CCT6A | -2,21501 | 2,66E-31 |
| CYTH3 | -2,21598 | 1,12E-20 |
| ANKH | -2,21682 | 3,52E-19 |
| RTCA | -2,21699 | 4,29E-22 |
| PFKFB3 | -2,21864 | 4,47E-10 |
| JMJD6 | -2,22357 | 3,16E-12 |
| LOC101927 | -2,23239 | 0,000327 |
| CPEB4 | -2,24004 | 1,59E-05 |
| TSHZ1 | -2,2405 | 1,72E-12 |
| HACD1 | -2,24505 | 8,19E-10 |
| TMEM55A | -2,2473 | 4,80E-12 |
| ITPR1 | -2,24965 | 6,27E-13 |
| ARL4C | -2,25299 | 1,27E-22 |
| S100A6 | -2,25311 | 1,13E-11 |
| PCDHGC3 | -2,25496 | 7,45E-15 |
| MEIS1 | -2,2582 | 0,000797 |
| SLC17A5 | -2,26314 | 6,75E-09 |
| LTBP2 | -2,26563 | 5,74E-06 |
| HYI | -2,26683 | 4,19E-06 |
| CLSPN | -2,26741 | 8,05E-21 |
| TIGD7 | -2,26808 | 1,17E-07 |
| WDR90 | -2,26919 | 0,000998 |
| TCEAL3 | -2,27344 | 3,44E-15 |
| SORBS3 | -2,27361 | 3,13E-23 |
| NEK6 | -2,27376 | 5,80E-29 |
| TTN-AS1 | -2,27618 | 1,90E-05 |
| MOCOS | -2,27734 | 2,52E-08 |
| LOC10013C | -2,27873 | 0,000417 |
| GPR180 | -2,27976 | 1,71E-19 |
| DLX1 | -2,28571 | 1,06E-12 |
| COLGALT1 | -2,28772 | 1,42E-39 |
| PAK1 | -2,2938 | 1,17E-11 |
| CAP1 | -2,29385 | 8,14E-24 |
| EOGT | -2,29536 | 1,61E-09 |

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| FZD7 | -2,29635 | 1,22E-18 |
| SH2D5 | -2,29708 | 0,000312 |
| ADCY9 | -2,30274 | 9,45E-15 |
| TMSB4X | -2,30452 | 5,75E-35 |
| FMNL1 | -2,30575 | 1,67E-15 |
| DYRK3 | -2,30789 | 3,73E-15 |
| ZC2HC1A | -2,30916 | 8,32E-08 |
| MAPKBP1 | -2,30969 | 1,55E-10 |
| SAMD11 | -2,31125 | 5,95E-06 |
| FAM114A1 | -2,31586 | 3,89E-07 |
| TREX1 | -2,31763 | 7,60E-08 |
| ST3GAL3 | -2,31774 | 1,65E-08 |
| SMARCD3 | -2,31931 | 5,07E-13 |
| HHLA3 | -2,32535 | 3,27E-13 |
| RLTPR | -2,32606 | 1,00E-10 |
| MFGE8 | -2,32611 | 6,04E-12 |
| ATP8B2 | -2,32973 | 3,03E-24 |
| COPS8 | -2,32997 | 1,47E-26 |
| C11orf63 | -2,33181 | 2,14E-09 |
| FNTA | -2,33184 | 2,02E-29 |
| SFXN3 | -2,33253 | 4,45E-11 |
| ANKRD13C | -2,33799 | 3,03E-20 |
| LIMD2 | -2,33922 | 1,94E-05 |
| METRNL | -2,34178 | 3,75E-34 |
| CHM | -2,34251 | 1,36E-07 |
| POMZP3 | -2,34252 | 1,51E-14 |
| FNDC3B | -2,34376 | 7,57E-22 |
| SMS | -2,34411 | 7,44E-22 |
| FERMT2 | -2,34907 | 4,65E-26 |
| JAK1 | -2,35013 | 1,41E-20 |
| STOML1 | -2,35027 | 1,44E-09 |
| KCNJ14 | -2,35356 | 4,61E-06 |
| TMCC1-AS1 | -2,35932 | 0,000163 |
| RGS5 | -2,36812 | 6,08E-05 |
| TEX30 | -2,36941 | 1,08E-14 |
| TRAM2 | -2,3719 | 2,83E-39 |
| BHLHE40 | -2,37235 | 4,29E-26 |
| BTG3 | -2,38085 | 1,28E-07 |
| BIVM | -2,38156 | 2,28E-06 |
| EXTL3 | -2,38425 | 2,97E-33 |
| PCDHGB2 | -2,38918 | 3,56E-07 |
| FGF18 | -2,38952 | 0,000194 |
| CHST7 | -2,39288 | 3,98E-05 |
| IRF1 | -2,39433 | 7,71E-13 |
| MED8 | -2,39539 | 6,36E-26 |
| GPX8 | -2,39848 | 1,14E-24 |
| FTL | -2,39888 | 3,02E-11 |
| ECHDC1 | -2,40079 | 1,18E-17 |
| KCNQ5 | -2,40351 | 4,51E-05 |
| ZNF223 | -2,40539 | 0,000135 |

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| LINC01128 | -2,407 | 6,08E-10 |
| MTCL1 | -2,40791 | 7,83E-12 |
| SLC12A8 | -2,40881 | 5,83E-16 |
| SBF2 | -2,41162 | 5,99E-08 |
| GFPT2 | -2,41674 | 2,03E-09 |
| TUB | -2,4198 | 2,14E-13 |
| SCRN1 | -2,42432 | 6,33E-37 |
| NXPE3 | -2,42617 | 6,27E-06 |
| ENC1 | -2,4271 | 6,08E-18 |
| RABGGTB | -2,43454 | 6,67E-28 |
| SPSB1 | -2,43786 | 8,68E-07 |
| GOLM1 | -2,44098 | 1,98E-35 |
| GPR68 | -2,44406 | 4,92E-08 |
| EFHD2 | -2,44476 | 3,01E-23 |
| CPOX | -2,44775 | 5,33E-11 |
| POFUT2 | -2,449 | 3,26E-17 |
| TCF12 | -2,44936 | 1,93E-17 |
| SDC4 | -2,44969 | 2,95E-18 |
| PHLDB1 | -2,45086 | 5,05E-32 |
| ARMC9 | -2,45646 | 1,71E-25 |
| FAF1 | -2,45805 | 5,69E-13 |
| CAPRIN2 | -2,46388 | 4,70E-17 |
| CFL2 | -2,46456 | 1,73E-19 |
| RTTN | -2,46833 | 3,71E-10 |
| AHNAK2 | -2,46886 | 2,30E-15 |
| KLF13 | -2,47342 | 5,37E-38 |
| OSMR | -2,47381 | 3,10E-11 |
| IL6ST | -2,47696 | 4,17E-19 |
| DUSP7 | -2,48431 | 1,67E-09 |
| TIPARP | -2,48493 | 1,91E-20 |
| CAMK2D | -2,48825 | 6,45E-19 |
| MYO10 | -2,49005 | 9,64E-30 |
| BEND6 | -2,49115 | 1,08E-05 |
| EVA1B | -2,49492 | 7,57E-07 |
| FAM89A | -2,49558 | 1,38E-05 |
| DLX2 | -2,49663 | 7,00E-14 |
| DCLK2 | -2,49768 | 0,000106 |
| KLHL21 | -2,49781 | 2,14E-34 |
| PLAGL1 | -2,4984 | 2,57E-10 |
| SDCBP | -2,49847 | 6,81E-16 |
| TACC1 | -2,49862 | 9,00E-38 |
| HOXC9 | -2,50045 | 5,53E-06 |
| PRPS1 | -2,50095 | 1,71E-25 |
| CHST12 | -2,50432 | 7,06E-24 |
| MYO1E | -2,51007 | 5,87E-10 |
| NAV2 | -2,51706 | 8,82E-18 |
| CD59 | -2,5174 | 1,20E-12 |
| CKAP4 | -2,51766 | 7,64E-50 |
| SEC14L2 | -2,52034 | 4,54E-07 |
| ARNTL2 | -2,52789 | 3,92E-13 |

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| LACC1 | -2,52831 | 8,12E-09 |
| PDP1 | -2,52987 | 2,76E-28 |
| GLS | -2,53261 | 5,02E-31 |
| MAFG | -2,53667 | 1,70E-27 |
| PLEKHO2 | -2,53696 | 3,12E-14 |
| SRGAP2D | -2,54075 | 8,05E-09 |
| RIN3 | -2,54574 | 4,44E-10 |
| INAFM2 | -2,54698 | 4,69E-09 |
| TIAM2 | -2,54944 | 3,02E-11 |
| QPCT | -2,55168 | 5,77E-07 |
| SETBP1 | -2,55565 | 0,000272 |
| IFFO2 | -2,55867 | 2,88E-21 |
| CIRBP-AS1 | -2,56025 | 0,000439 |
| TPST2 | -2,56299 | 1,60E-15 |
| KLF12 | -2,56348 | 3,50E-13 |
| SHROOM2 | -2,56822 | 9,53E-14 |
| DGKD | -2,56889 | 8,85E-29 |
| PRNP | -2,57325 | 3,30E-20 |
| NFIL3 | -2,57418 | 1,14E-06 |
| MFSD1 | -2,57837 | 9,64E-18 |
| ARPIN | -2,58162 | 2,29E-11 |
| PARVA | -2,58176 | 8,62E-22 |
| RILPL2 | -2,58646 | 2,53E-05 |
| SLC35E4 | -2,59108 | 7,64E-15 |
| ABHD2 | -2,59128 | 3,83E-23 |
| GULP1 | -2,59252 | 1,86E-05 |
| SEPT10 | -2,59612 | 4,14E-08 |
| TIMP3 | -2,59833 | 3,13E-13 |
| DNAJC3 | -2,60028 | 6,05E-18 |
| FKBP7 | -2,60241 | 3,54E-11 |
| PRKD1 | -2,60407 | 2,92E-06 |
| ATL1 | -2,60419 | 0,000106 |
| KDELC1 | -2,60647 | 1,77E-15 |
| MT2A | -2,6086 | 2,70E-38 |
| ZIC2 | -2,60911 | 2,26E-12 |
| RECK | -2,61141 | 5,65E-05 |
| LRP12 | -2,61466 | 1,97E-28 |
| ADGRE5 | -2,61779 | 9,00E-13 |
| PHEX | -2,62029 | 0,000679 |
| SMAP2 | -2,62033 | 7,84E-11 |
| TFPI | -2,6216 | 6,72E-06 |
| TTC14 | -2,62183 | 1,36E-17 |
| CAPG | -2,62328 | 8,83E-36 |
| TRIM7 | -2,6258 | 6,32E-06 |
| KCTD7 | -2,62633 | 6,71E-13 |
| PVR | -2,62908 | 2,58E-13 |
| TAPBPL | -2,63144 | 0,000402 |
| LIMA1 | -2,63149 | 1,23E-13 |
| ANKMY2 | -2,63261 | 2,94E-20 |
| RUNX1 | -2,63323 | 1,40E-38 |

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| SYNJ1 | -2,63512 | 1,06E-16 |
| KIAA0355 | -2,63791 | 1,44E-22 |
| ITM2C | -2,63902 | 5,02E-21 |
| MEG3 | -2,6416 | 0,00066 |
| STEAP3 | -2,66356 | 1,54E-22 |
| LOC103091 | -2,66763 | 4,35E-07 |
| STARD3NL | -2,67029 | 3,19E-17 |
| UAP1L1 | -2,6712 | 3,02E-19 |
| GLIPR2 | -2,67156 | 1,19E-10 |
| SLCO3A1 | -2,67859 | 2,63E-21 |
| HOXC6 | -2,68654 | 6,43E-09 |
| ZNF222 | -2,68738 | 3,01E-05 |
| GRB10 | -2,68828 | 4,82E-06 |
| IL1RAP | -2,69091 | 3,88E-06 |
| RBMS2 | -2,69134 | 1,24E-14 |
| B3GNTL1 | -2,69241 | 4,46E-10 |
| MICAL1 | -2,71079 | 2,28E-09 |
| PPAP2B | -2,71403 | 2,06E-12 |
| DAAM2 | -2,71418 | 1,87E-08 |
| C8orf48 | -2,71481 | 4,85E-08 |
| LINC00641 | -2,71504 | 1,29E-12 |
| ID3 | -2,71516 | 2,28E-14 |
| OAS2 | -2,71719 | 0,000923 |
| CDKN2B | -2,72269 | 6,57E-15 |
| ZBTB47 | -2,72539 | 0,000108 |
| CLTCL1 | -2,72575 | 8,57E-13 |
| SOCS3 | -2,729 | 7,91E-18 |
| SCN1B | -2,73002 | 8,63E-05 |
| LOC90768 | -2,73547 | 1,06E-12 |
| MGAT5B | -2,73772 | 1,80E-10 |
| LHFPL2 | -2,73857 | 2,16E-32 |
| APBA1 | -2,73874 | 6,33E-11 |
| DNAJC3-AS | -2,74005 | 3,51E-05 |
| TOR4A | -2,74109 | 9,61E-13 |
| RGL1 | -2,74494 | 2,04E-15 |
| RTN4RL2 | -2,74869 | 1,94E-05 |
| SERINC2 | -2,75879 | 1,08E-16 |
| BASP1 | -2,76458 | 1,79E-07 |
| GALNT2 | -2,76578 | 1,30E-43 |
| SMCO4 | -2,76728 | 1,87E-08 |
| LGALS3 | -2,77378 | 2,81E-12 |
| SMIM3 | -2,77592 | 7,51E-27 |
| ADORA1 | -2,77655 | 1,99E-08 |
| WNT5A | -2,77889 | 6,25E-19 |
| MCC | -2,78092 | 2,21E-15 |
| CEP19 | -2,78644 | 5,86E-11 |
| DNAJB5 | -2,79072 | 1,42E-08 |
| SDCBP2-AS | -2,80055 | 3,15E-05 |
| CPM | -2,80344 | 4,52E-05 |
| KIF13B | -2,80582 | 1,11E-08 |

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| CLN5 | -2,80905 | 9,31E-13 |
| L3MBTL3 | -2,81076 | 8,01E-16 |
| SMAD3 | -2,81329 | 7,27E-19 |
| C14orf159 | -2,8143 | 1,04E-07 |
| HOXA4 | -2,81522 | 8,38E-09 |
| LGALS1 | -2,81637 | 1,56E-19 |
| BTN2A1 | -2,82112 | 4,74E-11 |
| CTSL | -2,8224 | 5,49E-17 |
| PORCN | -2,82763 | 1,10E-10 |
| IL15RA | -2,82905 | 9,39E-09 |
| BTN3A1 | -2,82984 | 0,000188 |
| TIAM1 | -2,83299 | 1,22E-17 |
| GNPDA2 | -2,83846 | 2,49E-13 |
| EYA2 | -2,84375 | 2,93E-08 |
| CCDC82 | -2,84775 | 2,38E-10 |
| KCNMA1 | -2,85122 | 1,79E-08 |
| NUPL2 | -2,85169 | 3,31E-09 |
| SRPX | -2,85814 | 0,000518 |
| KIF26B | -2,85976 | 2,92E-11 |
| NXN | -2,86706 | 9,27E-43 |
| CNTLN | -2,87148 | 6,91E-17 |
| OSTM1 | -2,87251 | 1,17E-08 |
| CPQ | -2,87506 | 2,03E-06 |
| FAM92A1 | -2,88067 | 2,13E-08 |
| SOX9 | -2,88397 | 2,53E-05 |
| PPP1R18 | -2,88863 | 7,08E-34 |
| MAMSTR | -2,89644 | 3,64E-06 |
| P4HA2 | -2,89771 | 7,06E-21 |
| ANKRD44 | -2,89998 | 4,15E-05 |
| OPTN | -2,90045 | 2,17E-07 |
| TRIP10 | -2,90082 | 1,97E-18 |
| PTPN14 | -2,90416 | 1,19E-41 |
| AKAP7 | -2,90418 | 4,71E-05 |
| MIR22HG | -2,90566 | 4,36E-11 |
| ZFAT | -2,91393 | 1,33E-31 |
| IL6R | -2,91765 | 0,000255 |
| FRRS1 | -2,92091 | 7,90E-06 |
| CAV2 | -2,93639 | 1,40E-17 |
| HERC3 | -2,93772 | 8,19E-10 |
| PCOLCE2 | -2,93835 | 7,09E-14 |
| ITGA3 | -2,94032 | 5,72E-56 |
| TIMP1 | -2,94142 | 4,00E-08 |
| HOXB9 | -2,94565 | 0,00062 |
| HIVEP3 | -2,94787 | 2,35E-05 |
| B2M | -2,94991 | 3,38E-20 |
| HNMT | -2,95041 | 1,16E-06 |
| HTATSF1P2 | -2,95342 | 1,12E-07 |
| CLCF1 | -2,95846 | 6,15E-05 |
| ST6GALNA4 | -2,95916 | 1,20E-12 |
| CHIC1 | -2,96313 | 8,82E-10 |

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| CDKN2C | -2,96347 | 3,20E-43 |
| DEGS1 | -2,96539 | 2,26E-25 |
| TGFB2 | -2,97049 | 1,19E-21 |
| ZNF155 | -2,97498 | 1,20E-08 |
| SOAT1 | -2,97605 | 5,44E-41 |
| SNORA73A | -2,97791 | 4,91E-05 |
| CD82 | -2,98559 | 1,87E-24 |
| ARHGEF10 | -2,98601 | 3,60E-17 |
| KIAA1549L | -2,99429 | 8,86E-10 |
| SH3BGR1 | -2,99469 | 4,94E-24 |
| ADGRB2 | -2,99589 | 2,03E-17 |
| ANK2 | -3,00156 | 1,32E-06 |
| SH2D4A | -3,00248 | 9,02E-46 |
| MX2 | -3,00427 | 1,43E-07 |
| FLOT1 | -3,00649 | 2,41E-52 |
| FAM219A | -3,00652 | 9,56E-15 |
| ATP6V1B2 | -3,00709 | 6,46E-57 |
| SQRDL | -3,00836 | 1,25E-11 |
| DENND5B | -3,01756 | 3,15E-22 |
| LOC389831 | -3,0197 | 3,42E-15 |
| FGFR1 | -3,02053 | 1,74E-58 |
| ITPR1 | -3,02269 | 7,05E-11 |
| IGFBP6 | -3,02852 | 4,60E-05 |
| GPATCH11 | -3,02859 | 6,67E-33 |
| VEPH1 | -3,02912 | 2,33E-06 |
| PTHLH | -3,03324 | 5,11E-10 |
| GYG2 | -3,04013 | 1,80E-10 |
| HMG5 | -3,04619 | 0,000357 |
| AMIGO3 | -3,05141 | 7,72E-18 |
| PLD2 | -3,05751 | 7,83E-57 |
| TNFAIP3 | -3,06335 | 6,72E-08 |
| KIAA0930 | -3,06364 | 1,87E-29 |
| FAM13A | -3,06884 | 1,60E-08 |
| SH3BP4 | -3,07788 | 4,98E-41 |
| ZIC5 | -3,07832 | 2,32E-05 |
| DNM1 | -3,07981 | 2,09E-30 |
| PPP1R15A | -3,08103 | 3,01E-29 |
| FNIP2 | -3,08889 | 3,45E-08 |
| SLC22A15 | -3,08969 | 7,83E-05 |
| SYNPO | -3,09677 | 3,64E-10 |
| SLC37A2 | -3,097 | 6,86E-06 |
| ARHGAP24 | -3,09798 | 2,25E-07 |
| FAM49A | -3,10003 | 0,000683 |
| PEA15 | -3,10311 | 4,97E-45 |
| CMTM7 | -3,10875 | 1,45E-12 |
| TMEM140 | -3,11048 | 5,57E-05 |
| EPHX4 | -3,11112 | 3,80E-05 |
| LRRC8C | -3,1177 | 1,10E-12 |
| HOOK3 | -3,12525 | 2,11E-31 |
| FMN1 | -3,13188 | 1,47E-10 |

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| HSPA6 | -3,1395 | 5,93E-05 |
| OAF | -3,14036 | 9,78E-25 |
| EPHB2 | -3,14279 | 1,63E-64 |
| DDX60L | -3,16222 | 3,57E-13 |
| KIAA1024 | -3,16315 | 1,38E-06 |
| LDLRAD4 | -3,1676 | 0,000162 |
| GPC4 | -3,16849 | 1,02E-37 |
| LMO7 | -3,18128 | 6,45E-43 |
| ROR1 | -3,18201 | 1,43E-13 |
| SLC39A14 | -3,18252 | 1,61E-17 |
| NIPAL3 | -3,18362 | 1,99E-18 |
| RGS2 | -3,18547 | 2,78E-09 |
| AKR1B10 | -3,20333 | 0,00063 |
| PEX6 | -3,20665 | 1,24E-11 |
| ARAP3 | -3,20742 | 6,58E-09 |
| CD44 | -3,21251 | 6,91E-53 |
| ZBTB38 | -3,21845 | 2,61E-42 |
| FAM126A | -3,21944 | 1,09E-25 |
| ARMCX1 | -3,22048 | 9,20E-12 |
| EXTL2 | -3,22331 | 3,42E-26 |
| TRIM47 | -3,22526 | 2,32E-21 |
| CRIM1 | -3,22804 | 1,47E-25 |
| DCBLD1 | -3,24234 | 5,21E-28 |
| HS3ST3B1 | -3,24533 | 4,73E-23 |
| MAP7D1 | -3,24966 | 8,50E-43 |
| P3H2 | -3,25244 | 2,41E-43 |
| STPG1 | -3,25683 | 1,38E-26 |
| CYP4V2 | -3,2572 | 3,64E-07 |
| ANKRD13A | -3,25898 | 1,68E-21 |
| PDGFC | -3,25939 | 4,03E-10 |
| FSTL3 | -3,25965 | 1,28E-19 |
| STK17B | -3,26844 | 4,82E-40 |
| NKX3-1 | -3,26929 | 2,23E-17 |
| GXYLT2 | -3,26963 | 1,33E-13 |
| PGM1 | -3,27006 | 4,32E-33 |
| ZFP37 | -3,28436 | 3,69E-06 |
| ECE1 | -3,28712 | 6,24E-53 |
| PALM2 | -3,29498 | 1,20E-06 |
| WNK3 | -3,30404 | 0,000383 |
| C16orf62 | -3,31257 | 2,18E-31 |
| SLC7A8 | -3,32626 | 2,75E-20 |
| ETV4 | -3,33406 | 0,000156 |
| NAV1 | -3,33458 | 4,98E-14 |
| DDX11L2 | -3,33846 | 0,000896 |
| LINC00152 | -3,33997 | 1,17E-11 |
| HNRNPU-A | -3,34238 | 3,25E-10 |
| FAM225A | -3,34625 | 0,000704 |
| LOC101925 | -3,34777 | 0,000596 |
| CARS2 | -3,34844 | 2,55E-68 |
| THRB | -3,34926 | 1,93E-16 |

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| HOXD8 | -3,35115 | 3,20E-06 |
| LOC344887 | -3,35148 | 0,001006 |
| GPC1 | -3,35423 | 9,41E-52 |
| GABARAPL | -3,35811 | 3,46E-05 |
| PCOLCE | -3,36205 | 2,09E-36 |
| ANO7 | -3,36221 | 2,12E-05 |
| ADGRL2 | -3,36488 | 2,20E-38 |
| DLG4 | -3,36893 | 9,67E-13 |
| SNAI1 | -3,36986 | 6,84E-16 |
| AHRR | -3,37398 | 2,61E-08 |
| ALPL | -3,37659 | 1,16E-07 |
| RCAN2 | -3,39687 | 3,74E-05 |
| GALNT10 | -3,40887 | 8,15E-71 |
| RRAGD | -3,41302 | 4,55E-20 |
| LRRK1 | -3,41435 | 2,26E-15 |
| PKDCC | -3,4194 | 0,000284 |
| SMPD1 | -3,43822 | 1,09E-13 |
| STRIP2 | -3,44243 | 3,65E-17 |
| CMTM3 | -3,44517 | 2,49E-21 |
| ZNF532 | -3,45683 | 5,33E-55 |
| C3 | -3,46684 | 0,000566 |
| LINC-PINT | -3,46939 | 2,08E-05 |
| SPEG | -3,47269 | 1,42E-19 |
| RHOBTB2 | -3,47434 | 1,07E-38 |
| ZNF697 | -3,48161 | 1,73E-33 |
| FAM198B | -3,49064 | 1,16E-49 |
| FKBP14 | -3,49483 | 4,87E-49 |
| ZNF382 | -3,50902 | 1,16E-05 |
| SLC6A8 | -3,51672 | 1,50E-21 |
| SPRY2 | -3,51717 | 2,24E-18 |
| DCBLD2 | -3,52407 | 3,63E-41 |
| TLN2 | -3,52452 | 9,36E-33 |
| GOLGA8B | -3,52469 | 9,24E-06 |
| SH3RF2 | -3,52749 | 4,70E-11 |
| MITF | -3,52851 | 9,49E-06 |
| PCDHB17P | -3,52915 | 9,10E-06 |
| CPEB1 | -3,53066 | 4,93E-15 |
| MAP3K14 | -3,53293 | 1,48E-21 |
| COL6A1 | -3,53357 | 6,43E-72 |
| CRAT | -3,53359 | 2,05E-12 |
| MT1X | -3,5365 | 7,03E-58 |
| SLFN11 | -3,54345 | 7,26E-23 |
| ACO1 | -3,544 | 4,84E-27 |
| SH3PXD2B | -3,54512 | 5,22E-59 |
| LCTL | -3,55029 | 1,76E-06 |
| CCR1 | -3,55178 | 8,42E-05 |
| SIPA1 | -3,55758 | 1,61E-32 |
| PITX2 | -3,55819 | 7,29E-13 |
| CEP112 | -3,55832 | 6,64E-17 |
| ZCCHC24 | -3,55915 | 2,41E-16 |

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| CUEDC1 | -3,55962 | 2,34E-68 |
| LAMB3 | -3,55982 | 0,000199 |
| HLA-A | -3,56923 | 1,15E-41 |
| UBASH3B | -3,57276 | 1,02E-16 |
| PALLD | -3,57492 | 3,10E-33 |
| TNS3 | -3,57524 | 3,69E-31 |
| FAM13C | -3,57696 | 6,63E-05 |
| MAP1B | -3,57702 | 1,29E-22 |
| CADPS2 | -3,57936 | 0,000165 |
| DNAJB4 | -3,5845 | 3,28E-12 |
| EXT1 | -3,58455 | 6,41E-51 |
| NDRG1 | -3,586 | 1,47E-42 |
| MICB | -3,59409 | 5,70E-23 |
| SIK1 | -3,59551 | 0,000332 |
| SYNJ2 | -3,59604 | 4,38E-68 |
| ARMC4 | -3,6001 | 0,000572 |
| LRP1 | -3,6006 | 7,42E-11 |
| CCDC88A | -3,61209 | 1,89E-47 |
| PXDN | -3,61588 | 2,82E-46 |
| BTN3A3 | -3,61687 | 1,07E-06 |
| PTPRB | -3,61776 | 0,000276 |
| ACSL4 | -3,62118 | 3,61E-42 |
| DYSF | -3,63922 | 4,84E-07 |
| WTIP | -3,64055 | 3,37E-23 |
| BMP1 | -3,6408 | 1,31E-60 |
| ELL2 | -3,64403 | 4,98E-33 |
| RARB | -3,65022 | 6,31E-09 |
| AGPAT4 | -3,65305 | 1,08E-12 |
| ATAD3B | -3,65323 | 8,62E-25 |
| PLEKHF1 | -3,65645 | 9,29E-14 |
| ULBP3 | -3,66286 | 1,72E-08 |
| TPM1 | -3,66671 | 2,04E-98 |
| ELFN2 | -3,68181 | 9,36E-11 |
| SYDE1 | -3,6829 | 5,74E-41 |
| GLRB | -3,68856 | 4,83E-09 |
| FOSL2 | -3,70529 | 2,30E-56 |
| GBP2 | -3,70853 | 1,04E-05 |
| PLXND1 | -3,71261 | 1,20E-39 |
| LYST | -3,71783 | 3,56E-20 |
| TRIM22 | -3,71797 | 0,000248 |
| GNB4 | -3,72158 | 1,04E-45 |
| RAB31 | -3,72355 | 2,04E-21 |
| PXDC1 | -3,72693 | 3,73E-53 |
| FRMD5 | -3,73425 | 2,85E-26 |
| SASH1 | -3,73653 | 1,20E-18 |
| VOPP1 | -3,7397 | 1,14E-60 |
| PLEKHA2 | -3,74471 | 1,49E-31 |
| MB21D1 | -3,77563 | 4,16E-33 |
| PCDHB5 | -3,77924 | 3,20E-05 |
| MRAS | -3,78045 | 1,67E-36 |

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| PROCR | -3,78255 | 5,63E-08 |
| LIF | -3,8009 | 1,46E-11 |
| EVC2 | -3,80308 | 5,15E-13 |
| GLI3 | -3,80411 | 1,84E-43 |
| ARL4D | -3,81837 | 1,67E-31 |
| MAPRE2 | -3,82033 | 3,43E-32 |
| SHOX2 | -3,82124 | 1,55E-35 |
| TMEM133 | -3,82624 | 4,04E-05 |
| HDAC4 | -3,82672 | 1,78E-11 |
| RPLP0P2 | -3,83043 | 2,50E-11 |
| SEC14L1P1 | -3,83107 | 6,80E-06 |
| SLC12A4 | -3,83267 | 2,08E-10 |
| RAB11FIP5 | -3,83849 | 3,72E-19 |
| ISPD | -3,85119 | 1,40E-05 |
| CCDC106 | -3,86041 | 1,91E-11 |
| IL6 | -3,86244 | 0,000234 |
| CGNL1 | -3,86263 | 7,65E-07 |
| TCF7 | -3,86487 | 5,22E-46 |
| SH2B3 | -3,86954 | 1,46E-50 |
| EHD2 | -3,86964 | 7,72E-66 |
| RASA3 | -3,8791 | 2,11E-48 |
| COPZ2 | -3,88535 | 3,08E-21 |
| FAM171A1 | -3,90173 | 2,11E-55 |
| AMIGO2 | -3,90287 | 1,48E-65 |
| TRPC1 | -3,90355 | 1,33E-17 |
| MXRA7 | -3,90956 | 1,08E-38 |
| COL27A1 | -3,92025 | 6,45E-15 |
| IL4R | -3,93292 | 7,43E-27 |
| C5orf56 | -3,93653 | 2,53E-05 |
| AKAP12 | -3,94018 | 8,98E-36 |
| GPNMB | -3,94093 | 1,06E-33 |
| UPP1 | -3,94351 | 1,76E-11 |
| TRIM6 | -3,94933 | 9,68E-06 |
| SPHK1 | -3,95457 | 9,26E-62 |
| SPOCK1 | -3,95684 | 2,56E-22 |
| SUGCT | -3,96763 | 3,07E-08 |
| ELK3 | -3,977 | 1,72E-28 |
| MAFB | -3,98747 | 3,10E-37 |
| TRIB2 | -3,98849 | 1,82E-41 |
| DSC1 | -3,99617 | 1,89E-08 |
| MARCKS | -4,00348 | 1,76E-75 |
| CHSY3 | -4,02352 | 4,12E-22 |
| DACT3 | -4,0259 | 2,80E-05 |
| HOXA1 | -4,04308 | 2,48E-15 |
| TBXA2R | -4,04478 | 0,00049 |
| FAM72C | -4,055 | 9,82E-10 |
| PRICKLE1 | -4,06162 | 7,34E-10 |
| IL1R1 | -4,06203 | 3,21E-11 |
| HOXA7 | -4,06792 | 2,66E-07 |
| CHST3 | -4,07249 | 5,29E-12 |

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| RCAN1 | -4,08598 | 6,85E-40 |
| PPM1K | -4,0968 | 5,59E-20 |
| UCHL1 | -4,11548 | 5,68E-08 |
| FOXD1 | -4,12038 | 3,78E-12 |
| ICAM1 | -4,12178 | 9,35E-18 |
| PTRF | -4,12421 | 1,62E-70 |
| HOXA-AS2 | -4,1257 | 4,53E-05 |
| ZNF264 | -4,12973 | 3,49E-30 |
| IGFBP3 | -4,13859 | 3,07E-14 |
| BCAR3 | -4,14113 | 2,20E-64 |
| APLN | -4,14736 | 1,39E-05 |
| SYNDIG1 | -4,14823 | 4,08E-06 |
| TAGLN | -4,15251 | 6,48E-22 |
| FAM101B | -4,15382 | 9,01E-49 |
| RAB3B | -4,16447 | 3,24E-36 |
| ELMOD1 | -4,16495 | 1,16E-05 |
| PCDHB7 | -4,17204 | 0,000137 |
| TMEM255f | -4,17597 | 5,64E-05 |
| CDC42EP3 | -4,17844 | 1,23E-49 |
| P3H1 | -4,17953 | 1,10E-80 |
| APBB1 | -4,18303 | 2,26E-22 |
| MX1 | -4,19587 | 1,62E-19 |
| TIMP2 | -4,20348 | 2,54E-93 |
| PAG1 | -4,20449 | 3,71E-30 |
| HOXC8 | -4,21169 | 3,06E-08 |
| F3 | -4,2196 | 4,55E-25 |
| FHOD3 | -4,22999 | 2,81E-11 |
| COL24A1 | -4,23078 | 0,000276 |
| ARHGEF6 | -4,23575 | 1,96E-28 |
| FZD8 | -4,24149 | 1,55E-10 |
| HMCN1 | -4,24459 | 3,91E-37 |
| NCF2 | -4,25259 | 1,99E-05 |
| CUBN | -4,26548 | 5,84E-05 |
| TGFB2 | -4,26797 | 1,54E-12 |
| HBEGF | -4,28068 | 3,02E-42 |
| SEMA3A | -4,28884 | 1,12E-10 |
| BTN3A2 | -4,29105 | 4,27E-12 |
| CLIC2 | -4,29483 | 8,79E-06 |
| GPB1 | -4,29536 | 1,45E-20 |
| ZNF880 | -4,29653 | 6,47E-14 |
| KRT81 | -4,31227 | 3,84E-05 |
| PELI2 | -4,31887 | 6,54E-05 |
| S100A4 | -4,31909 | 1,78E-50 |
| CLCN4 | -4,32167 | 3,33E-27 |
| ITGB2 | -4,33929 | 4,14E-10 |
| SYNM | -4,34355 | 4,61E-41 |
| APOL1 | -4,36225 | 2,06E-06 |
| NDNF | -4,3722 | 1,77E-39 |
| MGLL | -4,3797 | 3,92E-27 |
| EPHA2 | -4,38078 | 6,37E-35 |

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| MEF2C | -4,39084 | 1,54E-26 |
| PTGR1 | -4,40329 | 2,70E-38 |
| SLC16A3 | -4,40509 | 1,26E-22 |
| RUSC2 | -4,41873 | 3,09E-44 |
| MSRB3 | -4,42689 | 4,42E-39 |
| FAT4 | -4,43277 | 6,37E-14 |
| BIRC3 | -4,4371 | 1,47E-09 |
| IGF2BP2 | -4,44229 | 1,48E-81 |
| PCDH10 | -4,44903 | 1,91E-07 |
| SORBS2 | -4,4581 | 1,01E-10 |
| P2RX7 | -4,45983 | 0,000505 |
| EPDR1 | -4,46229 | 5,97E-53 |
| STARD9 | -4,47031 | 2,41E-14 |
| FILIP1L | -4,47055 | 4,10E-31 |
| TBC1D2 | -4,47344 | 6,76E-29 |
| PLIN2 | -4,47631 | 1,36E-57 |
| SLC16A7 | -4,49895 | 8,32E-12 |
| ZNF221 | -4,50344 | 3,11E-05 |
| MEFV | -4,50876 | 3,14E-05 |
| APOLD1 | -4,52063 | 4,46E-08 |
| C10orf11 | -4,52885 | 1,26E-09 |
| SLC2A3 | -4,52978 | 1,28E-11 |
| CPVL | -4,54273 | 8,96E-12 |
| HOTAIRM1 | -4,54842 | 6,14E-14 |
| C17orf51 | -4,55346 | 3,82E-25 |
| PLEKHA4 | -4,57246 | 1,77E-17 |
| KCTD12 | -4,57606 | 1,56E-44 |
| CYP26B1 | -4,58434 | 3,66E-10 |
| ABCC9 | -4,5883 | 5,61E-06 |
| SNX7 | -4,60947 | 1,13E-42 |
| HDX | -4,64724 | 1,95E-08 |
| SAMD9L | -4,64859 | 0,000215 |
| ARMCX2 | -4,6608 | 1,52E-30 |
| LETM2 | -4,66313 | 5,82E-22 |
| WIPF1 | -4,67487 | 1,30E-43 |
| ZNF365 | -4,69329 | 5,43E-09 |
| ZNF513 | -4,69425 | 3,14E-16 |
| MICAL2 | -4,70688 | 3,64E-72 |
| PROS1 | -4,71472 | 8,86E-11 |
| GNB3 | -4,72801 | 0,00089 |
| LCAT | -4,73643 | 0,000151 |
| ASPH | -4,7532 | 3,97E-70 |
| TSPAN10 | -4,77092 | 6,31E-15 |
| VASN | -4,77361 | 1,31E-21 |
| PCDHGC5 | -4,77636 | 1,85E-08 |
| TRIM9 | -4,7779 | 5,24E-08 |
| PTPN22 | -4,78185 | 7,41E-11 |
| CAV1 | -4,79642 | 6,41E-62 |
| DSE | -4,7983 | 6,47E-70 |
| CAMK4 | -4,80963 | 3,01E-14 |

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| PRRT3-AS1 | -4,81588 | 0,000487 |
| DUSP10 | -4,81635 | 1,08E-25 |
| KIAA1614 | -4,81764 | 0,000443 |
| ABLIM3 | -4,81807 | 5,79E-37 |
| PXK | -4,8213 | 1,47E-26 |
| HOXB6 | -4,83413 | 5,17E-10 |
| SOX30 | -4,84387 | 0,000824 |
| DOCK10 | -4,84912 | 2,42E-36 |
| SH3RF3 | -4,85431 | 7,61E-07 |
| S100A2 | -4,8559 | 6,86E-13 |
| LOXL1 | -4,87333 | 4,40E-71 |
| UGT8 | -4,88373 | 6,19E-05 |
| ADAMTS15 | -4,88848 | 1,03E-23 |
| MCAM | -4,89488 | 4,60E-36 |
| HLA-B | -4,89575 | 5,75E-27 |
| NAP1L5 | -4,89738 | 8,52E-06 |
| C1R | -4,90316 | 4,88E-26 |
| YOD1 | -4,9058 | 1,06E-18 |
| SELM | -4,91552 | 4,68E-89 |
| ZNF284 | -4,92084 | 3,24E-05 |
| THBS1 | -4,92542 | 1,24E-42 |
| XKR6 | -4,93088 | 1,91E-06 |
| FAM46A | -4,9347 | 1,80E-53 |
| PRR5L | -4,9361 | 3,64E-50 |
| MLLT11 | -4,94826 | 7,55E-40 |
| ELFN1 | -4,96944 | 1,36E-38 |
| WLS | -4,99401 | 8,15E-64 |
| LINC00673 | -5,00378 | 3,10E-07 |
| GNAI1 | -5,01362 | 5,67E-51 |
| SP100 | -5,02581 | 0,000276 |
| CORO2B | -5,02685 | 5,98E-11 |
| EPB41L2 | -5,04989 | 1,57E-100 |
| GPR176 | -5,05299 | 1,08E-34 |
| ZDHHC2 | -5,05872 | 2,46E-20 |
| SYNE1 | -5,06384 | 1,70E-31 |
| SIRPA | -5,0767 | 1,80E-108 |
| EDIL3 | -5,08344 | 8,82E-17 |
| CDKN1C | -5,10359 | 0,000981 |
| ANGPTL4 | -5,10505 | 8,25E-21 |
| TPST1 | -5,10702 | 5,36E-88 |
| PGF | -5,14161 | 2,60E-15 |
| MCOLN3 | -5,1719 | 2,17E-06 |
| NKX3-2 | -5,17576 | 2,95E-12 |
| SYTL3 | -5,19074 | 4,85E-39 |
| ST3GAL2 | -5,2062 | 2,13E-55 |
| KIF7 | -5,21619 | 0,000243 |
| GNG2 | -5,21754 | 1,38E-06 |
| EEPD1 | -5,22012 | 8,38E-30 |
| ULBP2 | -5,22019 | 3,91E-15 |
| RIN1 | -5,22045 | 8,31E-38 |

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| PCSK5 | -5,22414 | 0,000113 |
| RNASEH2B | -5,22915 | 0,000145 |
| SPRED1 | -5,22946 | 1,61E-41 |
| NEK10 | -5,24067 | 7,90E-05 |
| DNM3 | -5,24117 | 1,55E-10 |
| IRAK2 | -5,24288 | 1,10E-06 |
| FHL2 | -5,2435 | 9,95E-20 |
| ZC3H12C | -5,24755 | 8,98E-28 |
| PLCE1 | -5,25187 | 2,00E-17 |
| PSMB9 | -5,25622 | 1,99E-30 |
| MN1 | -5,25623 | 1,90E-08 |
| IL15 | -5,25794 | 0,00044 |
| MRVI1 | -5,25805 | 5,36E-06 |
| SPRY4 | -5,26824 | 4,30E-32 |
| PMP22 | -5,27766 | 1,46E-37 |
| TRO | -5,28248 | 3,59E-06 |
| LYN | -5,28681 | 1,41E-34 |
| C3orf52 | -5,29382 | 6,33E-15 |
| COL16A1 | -5,29428 | 8,34E-32 |
| FXD5 | -5,2951 | 5,81E-108 |
| HCP5 | -5,31298 | 5,88E-09 |
| NTNG1 | -5,31311 | 5,09E-05 |
| EGFR | -5,3154 | 5,48E-83 |
| TRABD2A | -5,32098 | 7,56E-09 |
| ANKRD33B | -5,32506 | 8,59E-16 |
| DSEL | -5,34848 | 4,85E-39 |
| CAPN2 | -5,35547 | 2,99E-37 |
| APOL3 | -5,36835 | 3,38E-05 |
| COL5A2 | -5,37812 | 2,33E-99 |
| SLC1A3 | -5,38516 | 2,07E-79 |
| STEAP2 | -5,42249 | 5,14E-07 |
| SPTLC3 | -5,43443 | 1,75E-17 |
| GRASP | -5,44644 | 0,000153 |
| SMARCA1 | -5,44737 | 5,64E-52 |
| PIK3CD | -5,45822 | 2,72E-36 |
| CTSS | -5,46936 | 6,96E-07 |
| CD274 | -5,47644 | 7,17E-07 |
| CHN2 | -5,47803 | 2,20E-07 |
| EVA1A | -5,48421 | 3,73E-24 |
| CRYBG3 | -5,48819 | 3,98E-35 |
| VIM-AS1 | -5,5211 | 8,88E-74 |
| RFTN1 | -5,52427 | 4,30E-63 |
| WNT5B | -5,52458 | 3,70E-40 |
| LIX1L | -5,53403 | 1,25E-68 |
| LAMC2 | -5,53631 | 5,27E-65 |
| POPDC3 | -5,5481 | 2,10E-15 |
| BAIAP2L2 | -5,57297 | 6,64E-08 |
| ARHGEF40 | -5,57486 | 3,01E-31 |
| PTGFR | -5,59798 | 0,000159 |
| TGM2 | -5,60552 | 2,49E-24 |

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| IL21R | -5,60556 | 2,65E-24 |
| ANGPT1 | -5,61289 | 7,90E-27 |
| TM4SF1 | -5,62071 | 4,31E-73 |
| ZNF528 | -5,62437 | 2,00E-13 |
| CD109 | -5,63872 | 1,20E-55 |
| ME3 | -5,65962 | 2,17E-15 |
| SHISA2 | -5,67418 | 2,08E-71 |
| COL6A2 | -5,6894 | 3,68E-128 |
| MTAP | -5,7036 | 1,34E-29 |
| EGFLAM | -5,71655 | 6,53E-29 |
| PDZRN3 | -5,71904 | 6,49E-118 |
| SERPINE2 | -5,72005 | 1,09E-100 |
| CALD1 | -5,72025 | 1,13E-31 |
| FPR1 | -5,72498 | 1,31E-07 |
| LOX | -5,73454 | 2,62E-88 |
| RBMS3 | -5,75336 | 3,87E-17 |
| PNPLA3 | -5,76167 | 3,53E-06 |
| ENPP1 | -5,77104 | 6,67E-45 |
| LOC79160 | -5,77412 | 0,00037 |
| APOL6 | -5,80119 | 2,00E-44 |
| HAS2 | -5,80453 | 2,43E-07 |
| DRAXIN | -5,80835 | 9,47E-06 |
| C1QTNF2 | -5,80836 | 2,93E-13 |
| HTR7 | -5,81065 | 5,42E-25 |
| LAPTM5 | -5,81286 | 2,77E-06 |
| GLIPR1 | -5,81445 | 1,80E-41 |
| ARHGAP23 | -5,83787 | 1,34E-44 |
| APCDD1L- <i>A</i> | -5,84021 | 0,00021 |
| MAF | -5,84186 | 8,50E-50 |
| VEGFC | -5,85169 | 4,91E-32 |
| B3GNT9 | -5,85201 | 3,34E-26 |
| ARHGAP22 | -5,85416 | 3,72E-13 |
| SLC7A7 | -5,85457 | 7,43E-06 |
| NFASC | -5,86013 | 4,18E-10 |
| C10orf10 | -5,86733 | 0,000182 |
| PYGL | -5,88987 | 4,53E-06 |
| SEC16B | -5,89772 | 1,33E-05 |
| RAB32 | -5,90382 | 1,51E-51 |
| IGF2BP1 | -5,91253 | 2,47E-35 |
| CD68 | -5,94497 | 7,74E-39 |
| TUBA4A | -5,98675 | 3,03E-30 |
| TP73-AS1 | -5,99693 | 1,29E-10 |
| LOC101927 | -6,001 | 1,78E-17 |
| LOXL2 | -6,00256 | 2,20E-28 |
| TMEM45A | -6,01648 | 9,51E-34 |
| SCARF2 | -6,0499 | 1,36E-103 |
| NLRC5 | -6,05032 | 1,36E-34 |
| HOXA2 | -6,05785 | 2,09E-13 |
| SYNC | -6,06042 | 1,17E-67 |
| DACT1 | -6,06401 | 5,24E-22 |

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| MAP1A | -6,06771 | 3,65E-36 |
| KLHL4 | -6,07588 | 4,95E-05 |
| ADAMTS6 | -6,0812 | 0,000105 |
| RCN3 | -6,09623 | 9,36E-56 |
| AOX1 | -6,13341 | 9,50E-06 |
| FHL1 | -6,14218 | 1,16E-79 |
| GAS1 | -6,14825 | 2,52E-19 |
| MCTP2 | -6,15525 | 4,82E-16 |
| SNPH | -6,15785 | 6,49E-07 |
| PLA2G4A | -6,16101 | 8,44E-05 |
| PLCL2 | -6,16533 | 2,20E-11 |
| RIN2 | -6,18639 | 4,89E-72 |
| ACAN | -6,20956 | 2,04E-05 |
| PHACTR1 | -6,23358 | 2,25E-05 |
| C1S | -6,24673 | 2,83E-14 |
| DNM3OS | -6,24868 | 2,93E-07 |
| ADAM19 | -6,27079 | 6,52E-142 |
| ECM1 | -6,27968 | 4,98E-31 |
| ZNF469 | -6,31945 | 2,87E-42 |
| MYLK | -6,32017 | 1,02E-135 |
| PLEKHG4B | -6,32998 | 1,80E-51 |
| CSF1 | -6,33165 | 2,25E-85 |
| SLC4A4 | -6,3371 | 6,21E-11 |
| GEM | -6,34737 | 5,08E-89 |
| EMILIN2 | -6,36931 | 2,39E-46 |
| HLA-H | -6,39662 | 5,49E-06 |
| TMEM200E | -6,40084 | 2,62E-13 |
| FENDRR | -6,44181 | 1,33E-13 |
| MRC2 | -6,45537 | 1,56E-55 |
| FOSL1 | -6,47656 | 3,43E-64 |
| COL7A1 | -6,50659 | 1,43E-39 |
| SOGA3 | -6,51368 | 5,70E-12 |
| CUX2 | -6,5221 | 2,98E-06 |
| C1RL | -6,52601 | 1,72E-10 |
| GRIK2 | -6,53113 | 2,81E-06 |
| CTHRC1 | -6,55624 | 1,14E-69 |
| PRRX2 | -6,57181 | 4,29E-37 |
| LMO7-AS1 | -6,57331 | 2,84E-15 |
| BEAN1 | -6,57441 | 0,000733 |
| CSF1R | -6,57523 | 1,06E-10 |
| GABRQ | -6,58273 | 1,19E-11 |
| PLAUR | -6,5891 | 4,63E-50 |
| C11orf70 | -6,5988 | 0,000657 |
| NRROS | -6,60863 | 4,76E-12 |
| P2RY1 | -6,61232 | 1,61E-06 |
| DOCK2 | -6,61403 | 6,60E-09 |
| ROBO1 | -6,62579 | 3,86E-68 |
| ADM | -6,63322 | 1,10E-48 |
| FLJ22447 | -6,63344 | 2,10E-27 |
| DPP4 | -6,63643 | 1,87E-17 |

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| LINC00862 | -6,64979 | 3,37E-25 |
| CYS1 | -6,66726 | 0,000681 |
| GJA1 | -6,69949 | 8,53E-13 |
| CDH2 | -6,70258 | 2,80E-50 |
| ANTXR2 | -6,70861 | 2,77E-27 |
| SLIT3 | -6,73095 | 1,28E-11 |
| BICC1 | -6,75315 | 1,50E-56 |
| SPOCD1 | -6,78642 | 4,00E-05 |
| ACOT2 | -6,79218 | 2,57E-29 |
| ZNF426 | -6,79293 | 2,07E-13 |
| NLRP1 | -6,79478 | 0,000387 |
| CRYGS | -6,79508 | 3,01E-14 |
| SVEP1 | -6,79719 | 1,20E-17 |
| SH3PXD2A | -6,80971 | 4,76E-120 |
| HAPLN3 | -6,83208 | 5,75E-16 |
| BEX1 | -6,83778 | 0,000279 |
| ROR2 | -6,87068 | 4,43E-24 |
| PRKCA | -6,88573 | 1,16E-170 |
| CGB5 | -6,88718 | 0,000222 |
| TGFB111 | -6,89036 | 2,44E-06 |
| MID1 | -6,89723 | 2,64E-72 |
| PTGS2 | -6,90154 | 2,10E-11 |
| FBXO32 | -6,90842 | 2,49E-63 |
| TNFRSF11B | -6,92891 | 4,07E-125 |
| LINC00857 | -6,95448 | 1,34E-07 |
| TDO2 | -6,96113 | 0,00017 |
| INPP1 | -6,99545 | 5,57E-07 |
| ZNF717 | -6,99946 | 1,27E-07 |
| LOC101928 | -7,014 | 2,78E-19 |
| DKK3 | -7,0309 | 4,22E-94 |
| NEK9 | -7,05967 | 2,84E-05 |
| TMBIM1 | -7,06794 | 4,43E-45 |
| HOXD11 | -7,06841 | 7,45E-28 |
| KIFC3 | -7,06918 | 6,19E-50 |
| ITGA5 | -7,07486 | 1,07E-232 |
| SPANXB1 | -7,09995 | 0,000102 |
| COL5A1 | -7,111 | 2,34E-86 |
| IL11 | -7,13434 | 4,61E-43 |
| OLFML2B | -7,13886 | 3,26E-40 |
| BDNF | -7,14259 | 9,21E-48 |
| ETV5 | -7,14888 | 2,62E-88 |
| EPAS1 | -7,15406 | 3,05E-86 |
| LINC01605 | -7,16723 | 7,77E-47 |
| C1QTNF1 | -7,16929 | 1,59E-19 |
| TNFAIP2 | -7,16999 | 7,60E-54 |
| MPP1 | -7,17991 | 3,11E-60 |
| ABHD8 | -7,18051 | 2,29E-61 |
| BIN1 | -7,18395 | 1,30E-97 |
| ST6GAL2 | -7,1907 | 2,74E-19 |
| ZBTB18 | -7,20582 | 6,82E-49 |

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| PAPPA2 | -7,21227 | 6,66E-05 |
| TMTC1 | -7,22537 | 1,21E-11 |
| TBX15 | -7,23373 | 3,40E-37 |
| ZNF521 | -7,25236 | 3,07E-15 |
| PLXDC1 | -7,25889 | 6,44E-05 |
| FMN2 | -7,31118 | 4,31E-20 |
| ALDH2 | -7,31425 | 1,24E-61 |
| DNER | -7,31682 | 3,31E-12 |
| BRINP1 | -7,33328 | 9,11E-09 |
| ENPP2 | -7,3371 | 9,82E-19 |
| TMEM173 | -7,33785 | 6,58E-05 |
| DAB2 | -7,34277 | 3,47E-40 |
| MILR1 | -7,35876 | 4,01E-05 |
| GSTP1 | -7,37214 | 4,75E-58 |
| DPYSL3 | -7,38107 | 1,38E-148 |
| GIPC2 | -7,38795 | 0,000997 |
| ZEB1 | -7,39875 | 1,50E-49 |
| NALCN | -7,40245 | 0,000943 |
| HEG1 | -7,40948 | 7,98E-07 |
| ADRA1D | -7,41557 | 2,61E-05 |
| MIR221 | -7,41638 | 0,000817 |
| PRSS12 | -7,4168 | 6,49E-13 |
| BMPER | -7,42087 | 0,000814 |
| ZBTB20 | -7,42134 | 1,46E-36 |
| SV2A | -7,43046 | 3,47E-79 |
| RRAD | -7,43771 | 0,000811 |
| KCNJ12 | -7,44866 | 0,000757 |
| ANXA1 | -7,44953 | 1,56E-246 |
| ADAMTS10 | -7,45305 | 0,000691 |
| MUC13 | -7,45609 | 0,00068 |
| TNIP3 | -7,46121 | 2,50E-09 |
| JAZF1 | -7,47226 | 6,17E-66 |
| PLSCR4 | -7,47436 | 2,04E-05 |
| FGF2 | -7,47633 | 3,29E-16 |
| UCN2 | -7,47946 | 2,75E-05 |
| LINC01291 | -7,48452 | 0,000608 |
| ZNF69 | -7,48582 | 0,000662 |
| PPP1R3C | -7,49029 | 2,75E-09 |
| ZNF788 | -7,49066 | 2,56E-13 |
| PPP1R3G | -7,49407 | 2,25E-05 |
| GCNT2 | -7,50485 | 7,05E-13 |
| MICU3 | -7,50653 | 0,000554 |
| PWAR5 | -7,5124 | 0,000552 |
| LOC101927 | -7,52003 | 0,000823 |
| FLJ31356 | -7,52657 | 0,000599 |
| COL5A3 | -7,53111 | 0,000501 |
| VCAN | -7,53707 | 1,66E-67 |
| LURAP1L-A | -7,54304 | 1,89E-05 |
| CYP27C1 | -7,54728 | 0,000811 |
| ZNF660 | -7,54958 | 0,00046 |

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| CDA | -7,55693 | 0,000589 |
| HLX | -7,56282 | 1,04E-09 |
| ZSCAN23 | -7,57224 | 0,000492 |
| ABCA13 | -7,59415 | 0,00038 |
| CSRP3 | -7,60405 | 0,000507 |
| LINC00693 | -7,60791 | 0,000383 |
| GAPLINC | -7,60911 | 0,000362 |
| LINC00622 | -7,61944 | 6,22E-10 |
| LINC01204 | -7,62001 | 0,000342 |
| LYNX1 | -7,62158 | 0,000433 |
| SELPLG | -7,6258 | 7,48E-19 |
| IL10 | -7,63044 | 0,000422 |
| ROS1 | -7,63083 | 0,000351 |
| TMEM236 | -7,63315 | 0,000397 |
| DCN | -7,63521 | 0,000549 |
| BAALC | -7,63892 | 0,000376 |
| ECM2 | -7,63892 | 0,000376 |
| LOC100128 | -7,64391 | 0,000329 |
| FLJ32255 | -7,65448 | 8,90E-22 |
| SEMA5A | -7,65455 | 0,000294 |
| ARHGAP20 | -7,65605 | 0,000329 |
| ITK | -7,66733 | 0,000395 |
| KCNT2 | -7,67299 | 0,000292 |
| ABI3BP | -7,67299 | 0,000292 |
| GCNT4 | -7,67823 | 0,000304 |
| FOXQ1 | -7,67976 | 5,23E-22 |
| HS3ST2 | -7,69233 | 0,000265 |
| PRDM8 | -7,69233 | 0,000265 |
| FAM225B | -7,69455 | 0,000307 |
| NOX4 | -7,69491 | 0,000269 |
| DHRS9 | -7,69604 | 0,000244 |
| LOC101925 | -7,7093 | 0,00055 |
| LINC01138 | -7,71013 | 2,81E-10 |
| JPH2 | -7,71673 | 7,48E-06 |
| CLIP4 | -7,72071 | 5,19E-23 |
| LINC00942 | -7,72092 | 7,67E-06 |
| CPNE5 | -7,72477 | 0,000329 |
| ZNF625-ZN | -7,72732 | 0,000307 |
| PAQR9 | -7,74992 | 0,000197 |
| C7orf57 | -7,74992 | 0,000197 |
| TFCP2 | -7,75602 | 0,000325 |
| ACTC1 | -7,76007 | 0,000581 |
| CARD16 | -7,76334 | 0,000197 |
| HEPH | -7,76432 | 0,000272 |
| KLHL38 | -7,76616 | 0,000232 |
| IL7 | -7,77908 | 0,000192 |
| COL4A2-AS | -7,78491 | 0,000239 |
| CFI | -7,79552 | 0,000283 |
| GABRA3 | -7,79832 | 0,000875 |
| MT1L | -7,80602 | 0,000349 |

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| LINC00460 | -7,82324 | 0,00014 |
| HRCT1 | -7,82324 | 0,00014 |
| PADI1 | -7,83233 | 0,000157 |
| PDGFD | -7,83834 | 0,000129 |
| MME | -7,8439 | 4,27E-06 |
| C10orf90 | -7,84785 | 4,00E-06 |
| LRCH2 | -7,84867 | 0,000123 |
| SLFN13 | -7,85098 | 0,000121 |
| NRP2 | -7,85586 | 2,41E-108 |
| KCNJ2 | -7,86447 | 0,000147 |
| HHIP-AS1 | -7,8648 | 0,00012 |
| AIM2 | -7,86541 | 0,000279 |
| BHLHE41 | -7,86806 | 3,91E-06 |
| VGLL2 | -7,86938 | 0,000123 |
| DOK5 | -7,87265 | 0,000109 |
| RNF217 | -7,874 | 1,66E-15 |
| KLHL3 | -7,87684 | 0,000157 |
| HOXB3 | -7,87946 | 1,67E-15 |
| ADTRP | -7,88141 | 0,000138 |
| LOC101928 | -7,884 | 0,000111 |
| HCRTR2 | -7,90296 | 0,000103 |
| TICAM2 | -7,90839 | 9,22E-05 |
| ARHGAP31 | -7,91725 | 9,25E-05 |
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| BTBD19 | -7,92574 | 9,47E-06 |
| TSLP | -7,92922 | 8,42E-05 |
| COL12A1 | -7,94168 | 1,97E-65 |
| CD70 | -7,94306 | 4,93E-11 |
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| HSPB3 | -7,96239 | 7,74E-05 |
| CXCL5 | -7,96832 | 0,000143 |
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| PID1 | -7,97563 | 1,89E-16 |
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| DGKG | -7,97817 | 2,96E-11 |
| TMEM100 | -7,98193 | 0,000148 |
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| FOXF1 | -8,04214 | 1,13E-05 |
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| FOXC2 | -8,04536 | 1,61E-06 |
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| PDZRN3-AS | -8,15987 | 2,87E-05 |
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| ZFP28 | -8,98096 | 3,50E-07 |
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| GBP1 | -8,98568 | 4,69E-13 |
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| HOXB5 | -9,04163 | 2,63E-07 |
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| TNFSF10 | -9,07819 | 1,15E-08 |
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| RUNX1T1 | -9,09167 | 2,55E-07 |
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| ADAMTS5 | -9,12473 | 1,81E-07 |
| COL3A1 | -9,1295 | 1,79E-141 |
| LINC00601 | -9,13337 | 2,25E-07 |
| CFH | -9,17538 | 4,44E-15 |
| PTPRR | -9,22608 | 1,21E-07 |
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| ARSJ | -9,27403 | 1,50E-23 |
| CDO1 | -9,28823 | 6,11E-08 |
| RGS20 | -9,28896 | 7,70E-08 |
| PDCD1LG2 | -9,30511 | 5,51E-08 |
| MDFIC | -9,30664 | 4,39E-22 |
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| MIR646HG | -9,31857 | 1,51E-07 |
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| ANXA8L1 | -9,34467 | 5,14E-08 |

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| LOC100507 | -9,35026 | 6,29E-08 |
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| FOXL2NB | -9,35857 | 4,07E-08 |
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| EDNRA | -9,37165 | 5,11E-08 |
| ZNF503-AS | -9,37662 | 3,66E-08 |
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| ZNF667-AS | -9,38932 | 3,40E-08 |
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| TNC | -9,42416 | 3,02E-56 |
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| RFX8 | -9,48915 | 1,17E-07 |
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| GPX7 | -9,49693 | 3,15E-08 |
| FGF1 | -9,512 | 1,69E-08 |
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| ILDR2 | -9,52153 | 5,59E-55 |
| OSR1 | -9,54387 | 1,14E-09 |
| ALX4 | -9,54888 | 1,35E-08 |
| SLITRK3 | -9,57726 | 1,15E-08 |
| SDHAF3 | -9,62158 | 1,00E-08 |
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| GALNT13 | -9,63663 | 9,38E-09 |
| EVI2B | -9,64026 | 9,62E-09 |
| DKK2 | -9,64504 | 1,45E-08 |
| GLIS3 | -9,65169 | 1,19E-07 |
| NTF3 | -9,65285 | 8,42E-09 |
| GPC6 | -9,65625 | 1,71E-26 |
| MAB21L2 | -9,65758 | 7,45E-09 |
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| AGMO | -9,69862 | 5,70E-09 |
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| ZCCHC5 | -9,71162 | 5,34E-09 |
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| EPSTI1 | -9,7175 | 1,79E-18 |
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| PDE1C | -9,7486 | 5,48E-09 |
| SERPINB7 | -9,75142 | 5,08E-09 |
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| CLMP | -9,81177 | 9,13E-35 |
| TLR6 | -9,82805 | 3,16E-09 |
| NTM | -9,84028 | 2,72E-09 |
| COL8A1 | -9,8542 | 5,10E-19 |
| MAP1LC3A | -9,8681 | 2,13E-09 |
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| SERPINE1 | -9,91486 | 3,01E-11 |
| FOXL1 | -9,91506 | 1,75E-09 |
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| SCG2 | -9,9308 | 1,47E-09 |
| LAMA4 | -9,95567 | 1,76E-09 |
| GDF6 | -9,95995 | 1,55E-10 |
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| LPAR3 | -9,97018 | 1,16E-09 |
| MIR31HG | -9,97496 | 1,14E-09 |
| ZNF662 | -9,98712 | 1,35E-09 |
| ZNF626 | -10,0259 | 8,34E-10 |
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| AGPS | -10,0694 | 2,80E-59 |
| ETV1 | -10,0847 | 6,61E-11 |
| GSPT2 | -10,0852 | 8,05E-10 |
| CDKN2A | -10,0855 | 5,60E-20 |
| TMEM200/ | -10,0936 | 7,07E-10 |
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| LHFPL4 | -10,1523 | 5,29E-10 |
| ZNF804A | -10,1554 | 7,11E-10 |
| NEGR1 | -10,1607 | 3,87E-10 |
| AFAP1L1 | -10,1608 | 1,95E-20 |
| KCNJ15 | -10,1651 | 3,74E-10 |
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| SYT14 | -10,179 | 6,62E-10 |
| CSPG4 | -10,1813 | 1,20E-07 |
| MIR100HG | -10,1815 | 5,56E-11 |
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| ZNF502 | -10,2002 | 3,08E-10 |
| NEFL | -10,2023 | 3,36E-10 |
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| HOXD9 | -10,2147 | 7,90E-10 |
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| S1PR1 | -10,2209 | 4,74E-10 |
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| PSG5 | -10,2405 | 2,46E-10 |
| IGFN1 | -10,2454 | 6,84E-10 |
| FAM26E | -10,2579 | 2,37E-10 |
| DEPDC7 | -10,2736 | 1,95E-10 |
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| FNDC1 | -10,3104 | 1,13E-09 |
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| SLFN12 | -10,3382 | 1,40E-10 |
| TPM2 | -10,3608 | 5,45E-227 |
| ARSE | -10,4006 | 1,20E-10 |
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| LRRC4 | -10,6337 | 2,35E-11 |
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| GBP3 | -10,7233 | 2,28E-12 |
| PTN | -10,7256 | 1,84E-11 |
| ZNF506 | -10,7352 | 2,52E-11 |
| DMRTA2 | -10,7516 | 1,89E-12 |
| CARD6 | -10,7584 | 1,29E-11 |
| MOXD1 | -10,7597 | 1,26E-11 |
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| COL4A2 | -10,8125 | 9,47E-130 |

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| STK32B | -10,857 | 6,11E-12 |
| AASS | -10,8859 | 5,16E-12 |
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| TWIST2 | -10,9094 | 4,48E-12 |
| SIGLEC15 | -10,93 | 4,03E-12 |
| EVI2A | -10,9312 | 4,05E-12 |
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| CLEC2B | -10,9795 | 3,99E-12 |
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| DLX6 | -10,9951 | 2,95E-12 |
| FRG1CP | -11,011 | 2,45E-12 |
| AGT | -11,0151 | 2,90E-12 |
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| CHST2 | -11,0791 | 1,75E-12 |
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| PRKCDBP | -11,1854 | 8,64E-13 |
| LINC00667 | -11,1869 | 9,73E-13 |
| GREM2 | -11,2219 | 8,14E-13 |
| HMGA2 | -11,2274 | 1,42E-13 |
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| FOXL2 | -11,2767 | 5,15E-13 |
| C5orf42 | -11,2816 | 4,91E-13 |
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| PIEZO2 | -11,3389 | 3,92E-13 |
| SRGN | -11,3513 | 7,33E-14 |
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| GPR1 | -11,3584 | 3,06E-13 |
| WT1 | -11,3653 | 2,97E-13 |
| FLRT2 | -11,3862 | 7,42E-14 |
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| LPAR1 | -11,4489 | 2,24E-13 |
| CGB8 | -11,4637 | 1,62E-13 |
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| EBF1 | -11,4924 | 2,55E-13 |
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| PSG4 | -11,5123 | 1,35E-13 |
| THBS2 | -11,5155 | 1,23E-13 |
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| HECW1 | -11,6152 | 9,29E-14 |
| PAX6 | -11,6155 | 6,91E-14 |
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| NKX2-5 | -11,7153 | 3,89E-14 |
| SRPX2 | -11,7155 | 5,29E-14 |
| C8orf88 | -11,7297 | 3,26E-14 |
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| EPHA5 | -11,7799 | 2,48E-14 |
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| TNFRSF10C | -11,9178 | 1,18E-14 |
| MSN | -11,9413 | 1,04E-12 |
| FAP | -11,9807 | 2,78E-14 |
| CDH11 | -12,0131 | 8,61E-15 |
| GNE | -12,0409 | 5,82E-15 |
| PTPRM | -12,0443 | 6,56E-15 |
| IFI16 | -12,0507 | 2,28E-29 |
| MMP2 | -12,0628 | 9,85E-43 |
| CYTL1 | -12,0899 | 4,82E-15 |
| ARHGAP31 | -12,09 | 1,13E-15 |
| VGLL3 | -12,1194 | 8,53E-15 |
| COL4A1 | -12,1502 | 1,24E-43 |
| LRRC15 | -12,1697 | 2,34E-15 |
| DFNA5 | -12,1794 | 2,06E-15 |
| EFEMP2 | -12,2019 | 1,90E-15 |
| GRAMD1B | -12,2084 | 1,74E-15 |
| EMC10 | -12,2538 | 1,87E-15 |
| EYA4 | -12,2702 | 1,21E-15 |
| FBXL7 | -12,2788 | 1,20E-15 |
| GLIS1 | -12,2811 | 1,58E-15 |
| EPHA3 | -12,3067 | 9,65E-16 |
| ZCCHC11 | -12,3412 | 7,90E-16 |
| VSTM4 | -12,3593 | 7,06E-16 |
| HRH1 | -12,4047 | 5,27E-16 |
| CYBRD1 | -12,4117 | 5,48E-16 |
| ZNF518B | -12,4262 | 4,96E-16 |
| SLC35G2 | -12,4474 | 3,99E-16 |
| FOXG1 | -12,4691 | 4,46E-16 |
| IGFBP7 | -12,4873 | 7,73E-16 |
| HOXA10 | -12,4915 | 2,96E-16 |
| GALNT5 | -12,5189 | 2,96E-16 |
| ALPK2 | -12,5458 | 2,15E-16 |
| ITGA4 | -12,5491 | 2,14E-16 |
| DDR2 | -12,5532 | 2,01E-16 |
| PVRL3 | -12,587 | 1,76E-16 |
| KANK4 | -12,5922 | 1,66E-16 |

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| AK5 | -12,5943 | 1,59E-16 |
| ATP10A | -12,6394 | 1,18E-16 |
| MMP3 | -12,6585 | 2,24E-16 |
| LZTS1 | -12,6955 | 8,82E-17 |
| TLR4 | -12,7471 | 8,61E-17 |
| NRN1 | -12,7494 | 6,52E-17 |
| SIGMAR1 | -12,7552 | 6,07E-33 |
| PDGFRB | -12,8091 | 4,01E-17 |
| SGCE | -12,8374 | 3,36E-17 |
| C2CD2 | -12,84 | 3,30E-17 |
| ITGA11 | -12,8567 | 4,00E-17 |
| MSC | -12,9708 | 1,50E-17 |
| EVC | -12,9758 | 1,52E-17 |
| TCF4 | -13,0621 | 8,29E-18 |
| CNRIP1 | -13,1081 | 6,77E-18 |
| SUSD5 | -13,1115 | 6,75E-18 |
| ZEB2 | -13,1449 | 8,01E-18 |
| NRIP3 | -13,2443 | 2,60E-18 |
| TCEAL8 | -13,2478 | 2,50E-18 |
| AKT3 | -13,251 | 3,95E-18 |
| MXRA8 | -13,2648 | 2,18E-18 |
| IL7R | -13,3025 | 1,73E-18 |
| LAYN | -13,326 | 1,71E-18 |
| IGF2BP3 | -13,3443 | 1,31E-18 |
| PPAPDC1A | -13,4133 | 8,29E-19 |
| RAC2 | -13,4229 | 7,75E-19 |
| WISP1 | -13,4272 | 8,80E-19 |
| AXL | -13,547 | 1,05E-53 |
| ANGPTL2 | -13,5528 | 3,71E-19 |
| NNMT | -13,5733 | 2,91E-19 |
| KIAA1644 | -13,5996 | 2,49E-19 |
| TMEM246 | -13,6746 | 1,56E-19 |
| TNFRSF9 | -13,7662 | 8,08E-20 |
| EPB41L3 | -13,769 | 9,24E-20 |
| MT1E | -13,7799 | 7,70E-20 |
| ZFHX4 | -13,8183 | 5,75E-20 |
| ADAMTS1 | -13,8528 | 1,54E-20 |
| NID1 | -13,9073 | 3,54E-20 |
| FOXF2 | -13,9445 | 2,46E-20 |
| ANPEP | -14,0927 | 1,01E-20 |
| ETS1 | -14,2401 | 3,69E-21 |
| COL6A3 | -14,2872 | 7,57E-139 |
| HSPB7 | -14,3247 | 1,92E-21 |
| WBP5 | -14,339 | 1,78E-21 |
| NRG1 | -14,5311 | 5,07E-22 |
| PLAU | -14,5707 | 3,55E-22 |
| DZIP1 | -14,5835 | 3,35E-22 |
| CNN3 | -14,6273 | 8,72E-23 |
| MYL9 | -14,6755 | 1,70E-22 |
| GPX1 | -14,7816 | 1,06E-22 |

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| CDK15 | -14,7895 | 9,11E-23 |
| NT5E | -15,0776 | 1,02E-23 |
| KIRREL | -15,1678 | 5,89E-24 |
| SNAI2 | -15,3398 | 1,74E-24 |
| COL1A2 | -16,6956 | 7,50E-29 |
| FLNC | -17,0246 | 4,70E-30 |
| SPARC | -17,7422 | 1,25E-32 |

UO31

| Gene | log2FoldCh FDR | |
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| APCDD1 | 16,25276 | 1,73E-27 |
| BMP7 | 15,74618 | 5,48E-26 |
| FBP1 | 14,90931 | 4,17E-23 |
| TFF1 | 14,57842 | 6,32E-21 |
| TSPYL5 | 14,36734 | 1,06E-21 |
| CDH3 | 14,23128 | 1,64E-21 |
| SYT7 | 14,18583 | 3,80E-21 |
| GRHL2 | 14,06451 | 2,26E-20 |
| RAB25 | 14,02088 | 1,64E-20 |
| ATP2A3 | 13,93789 | 8,17E-07 |
| MYH14 | 13,88023 | 1,40E-19 |
| ESRP1 | 13,84411 | 3,83E-20 |
| TJP3 | 13,52048 | 5,42E-18 |
| TMEM30B | 13,22945 | 2,70E-18 |
| LRFN4 | 13,14899 | 3,19E-18 |
| UQCRH | 13,08733 | 2,67E-18 |
| DSCAM-AS | 13,07804 | 1,71E-10 |
| RTN4RL1 | 12,85922 | 2,19E-17 |
| BSPRY | 12,81131 | 4,10E-17 |
| CACNA1H | 12,75613 | 3,85E-17 |
| S100A14 | 12,72701 | 8,81E-31 |
| GGT6 | 12,70549 | 1,10E-15 |
| LINGO1 | 12,52785 | 1,80E-16 |
| IRX2 | 12,44365 | 3,06E-16 |
| SYNE4 | 12,4388 | 2,65E-16 |
| FXD3 | 12,39029 | 9,13E-09 |
| ALDH3B2 | 12,34419 | 6,58E-15 |
| SPDEF | 12,34387 | 1,17E-14 |
| SPTSSB | 12,32359 | 1,11E-14 |
| SYK | 12,21346 | 1,24E-15 |
| CKMT1B | 12,17336 | 1,43E-15 |
| KIF26A | 12,12105 | 9,78E-15 |
| PCSK6 | 12,0779 | 3,39E-15 |
| ATP2C2 | 12,07105 | 4,97E-15 |
| TMEM150C | 12,00861 | 6,71E-15 |
| CBFA2T3 | 12,00219 | 3,92E-15 |
| RBBP8NL | 11,97759 | 7,71E-15 |
| FAM83G | 11,95046 | 5,25E-15 |
| NOTCH3 | 11,92484 | 1,24E-65 |
| FAM83B | 11,91498 | 6,52E-15 |
| C15orf59 | 11,91128 | 4,68E-14 |
| HUNK | 11,84707 | 9,47E-15 |
| YBX2 | 11,84007 | 5,77E-15 |
| DNAJA4 | 11,80285 | 2,29E-14 |
| OLFM1 | 11,77709 | 1,43E-14 |
| HENMT1 | 11,68735 | 2,50E-14 |
| ZFP3 | 11,67774 | 2,99E-14 |
| GYLTL1B | 11,66021 | 2,46E-14 |

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| PCDHB8 | 11,57181 | 5,80E-14 |
| CKMT1A | 11,55224 | 5,48E-14 |
| ALOX15 | 11,54656 | 2,36E-12 |
| TMEM45B | 11,53212 | 6,10E-14 |
| CLDN7 | 11,52895 | 1,75E-39 |
| RASGEF1A | 11,47873 | 1,31E-13 |
| HSPA1A | 11,46364 | 7,94E-33 |
| SMIM22 | 11,43684 | 1,69E-13 |
| AQP3 | 11,34447 | 4,71E-07 |
| ASCL2 | 11,31949 | 1,13E-12 |
| C5orf38 | 11,30999 | 4,64E-13 |
| PCP4 | 11,30407 | 2,96E-13 |
| ASCL4 | 11,25651 | 3,83E-13 |
| OVOL1 | 11,18839 | 1,79E-12 |
| ARHGDIG | 11,15954 | 5,70E-13 |
| NUP210L | 11,13421 | 7,35E-13 |
| EFS | 11,12882 | 7,99E-13 |
| TDRD1 | 11,11119 | 7,37E-13 |
| PRR15L | 11,07817 | 7,45E-13 |
| DPYSL5 | 10,98947 | 2,53E-12 |
| KCNK15 | 10,97296 | 2,07E-12 |
| PGR | 10,92583 | 1,66E-10 |
| C5AR2 | 10,90125 | 1,48E-11 |
| MB | 10,89862 | 2,48E-12 |
| NRXN2 | 10,87858 | 3,00E-12 |
| SLC9A2 | 10,86741 | 1,29E-33 |
| PCDHB13 | 10,82165 | 4,47E-12 |
| NAALADL2 | 10,81204 | 6,86E-12 |
| LRP2 | 10,80176 | 2,86E-06 |
| FUT1 | 10,76197 | 1,06E-10 |
| RET | 10,7316 | 8,06E-11 |
| LMX1B | 10,72053 | 7,14E-12 |
| CDH1 | 10,68521 | 1,88E-137 |
| SPESP1 | 10,67511 | 1,70E-11 |
| KCNH2 | 10,66951 | 9,47E-12 |
| CCDC64B | 10,65317 | 1,95E-11 |
| TMEM125 | 10,61178 | 1,32E-11 |
| ASS1 | 10,5756 | 2,05E-95 |
| WNT11 | 10,56267 | 3,46E-10 |
| ODAM | 10,52964 | 2,11E-11 |
| CEACAM21 | 10,52011 | 2,48E-11 |
| TDRD5 | 10,49831 | 4,33E-11 |
| TSPEAR | 10,48663 | 7,59E-11 |
| CHGA | 10,45211 | 3,26E-11 |
| DPYSL4 | 10,42426 | 1,35E-10 |
| SLC9B2 | 10,42333 | 4,70E-11 |
| PCDHA10 | 10,40117 | 6,03E-11 |
| SLC1A2 | 10,39742 | 1,30E-11 |
| ADGRB1 | 10,36658 | 1,35E-11 |
| FAR2 | 10,35474 | 1,42E-11 |

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| SCN4A | 10,33945 | 2,48E-09 |
| CASC9 | 10,32816 | 6,69E-11 |
| AARD | 10,27272 | 9,36E-11 |
| CHRM1 | 10,24918 | 5,37E-10 |
| HIST3H2A | 10,24293 | 1,09E-10 |
| HR | 10,2218 | 6,02E-21 |
| RNF223 | 10,2205 | 1,67E-10 |
| CNTNAP2 | 10,21922 | 1,91E-10 |
| PRR15 | 10,15782 | 2,93E-10 |
| KRTAP3-1 | 10,1558 | 1,10E-09 |
| C18orf63 | 10,13036 | 3,17E-10 |
| RERG | 10,12034 | 2,22E-10 |
| XYLT1 | 10,04083 | 3,59E-10 |
| ZNF732 | 9,980511 | 1,14E-09 |
| TC2N | 9,959165 | 1,73E-26 |
| BATF | 9,958711 | 1,48E-09 |
| FAR2P1 | 9,876881 | 9,42E-09 |
| EPHB3 | 9,871924 | 2,78E-10 |
| KCNC3 | 9,864927 | 7,73E-19 |
| SLC9A4 | 9,85833 | 9,09E-09 |
| SLC26A4-A' | 9,85432 | 1,01E-09 |
| CXCL12 | 9,851755 | 1,17E-09 |
| DEGS2 | 9,851737 | 1,33E-09 |
| MISP | 9,845735 | 5,90E-08 |
| KIF1A | 9,838404 | 2,98E-19 |
| PRIMA1 | 9,826784 | 7,10E-09 |
| NMU | 9,817473 | 1,74E-09 |
| CHST8 | 9,762624 | 1,64E-09 |
| POF1B | 9,757512 | 6,67E-17 |
| ZNF311 | 9,746658 | 1,19E-08 |
| MUCL1 | 9,737752 | 1,13E-06 |
| MATK | 9,728849 | 2,45E-43 |
| S100P | 9,722392 | 5,54E-07 |
| BCL11B | 9,689256 | 2,92E-35 |
| JPH3 | 9,68321 | 2,58E-09 |
| PTK6 | 9,673988 | 3,26E-09 |
| TMPRSS13 | 9,673394 | 7,35E-10 |
| ILDR1 | 9,663267 | 4,97E-10 |
| TUBA3E | 9,630514 | 7,32E-09 |
| KLHDC7B | 9,623463 | 3,53E-09 |
| ZG16B | 9,602035 | 5,48E-08 |
| PCDHB6 | 9,600011 | 5,90E-09 |
| UQCRHL | 9,591384 | 5,05E-09 |
| C10orf82 | 9,5863 | 8,23E-09 |
| FSD1 | 9,583216 | 5,17E-09 |
| MUC5B | 9,576451 | 4,83E-09 |
| ACTG2 | 9,555175 | 1,58E-07 |
| PPM1E | 9,539995 | 3,60E-20 |
| CHRM3 | 9,523483 | 6,36E-09 |
| MYT1 | 9,509067 | 6,95E-09 |

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| MANSC4 | 9,498872 | 1,54E-06 |
| RIMS4 | 9,498207 | 4,41E-09 |
| TNFAIP8L3 | 9,497655 | 1,19E-15 |
| ADAMTS19 | 9,496364 | 8,97E-26 |
| GPR158 | 9,491156 | 8,23E-09 |
| IRX4 | 9,489016 | 1,82E-08 |
| DLX5 | 9,488963 | 1,04E-17 |
| FAM19A5 | 9,467611 | 1,60E-08 |
| C9orf152 | 9,459761 | 1,39E-16 |
| TMC4 | 9,457185 | 2,95E-24 |
| PCDHGB5 | 9,430857 | 1,04E-08 |
| PPP2R2C | 9,416208 | 1,57E-55 |
| FUT9 | 9,411018 | 1,16E-08 |
| CRLF1 | 9,402744 | 1,73E-08 |
| SUSD2 | 9,402116 | 4,10E-08 |
| DDX43 | 9,397957 | 1,85E-08 |
| CD8A | 9,394124 | 1,27E-08 |
| GPR27 | 9,391538 | 1,75E-08 |
| FIRRE | 9,387858 | 5,95E-08 |
| TUBA3D | 9,387318 | 3,15E-08 |
| ESR1 | 9,374839 | 7,74E-53 |
| SULT2B1 | 9,356721 | 9,96E-17 |
| ADGRE2 | 9,347491 | 2,09E-08 |
| KCNK5 | 9,342983 | 1,05E-07 |
| PLA2G4F | 9,330872 | 1,64E-06 |
| PRSS8 | 9,299197 | 1,40E-74 |
| GPX2 | 9,290648 | 9,67E-06 |
| LRP3 | 9,282291 | 1,44E-07 |
| ZNF354C | 9,256252 | 3,30E-08 |
| FCGR1A | 9,23195 | 2,85E-07 |
| C17orf104 | 9,229277 | 2,27E-07 |
| CELF5 | 9,206995 | 9,25E-08 |
| AKR1C2 | 9,206805 | 5,28E-08 |
| CPT1C | 9,202431 | 1,51E-07 |
| EYA2 | 9,195503 | 2,07E-07 |
| HBA1 | 9,193176 | 1,05E-07 |
| RGS6 | 9,19055 | 7,91E-08 |
| TLE2 | 9,184745 | 3,64E-24 |
| FGB | 9,176661 | 2,53E-05 |
| ONECUT1 | 9,174621 | 1,16E-07 |
| LGR6 | 9,174178 | 7,56E-08 |
| CA8 | 9,1738 | 7,85E-08 |
| INHA | 9,148659 | 1,20E-05 |
| CNGB3 | 9,143975 | 7,62E-08 |
| LOC339862 | 9,141717 | 6,14E-08 |
| RIC3 | 9,122826 | 1,16E-07 |
| PALM3 | 9,098637 | 6,63E-08 |
| LINC00992 | 9,07085 | 9,07E-08 |
| BLNK | 9,070655 | 4,29E-06 |
| ADIRF | 9,068311 | 8,38E-18 |

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| DNAH3 | 9,067209 | 1,27E-07 |
| CXXC4 | 9,065586 | 1,12E-07 |
| NRG3 | 9,055512 | 1,60E-07 |
| C1orf210 | 9,008528 | 2,26E-07 |
| LINC00858 | 8,990878 | 3,65E-07 |
| ADRA2C | 8,978619 | 5,92E-49 |
| CRABP1 | 8,969711 | 5,75E-07 |
| TACSTD2 | 8,960975 | 4,11E-82 |
| SPSB4 | 8,958987 | 3,96E-07 |
| GRIK3 | 8,930797 | 1,14E-06 |
| NPNT | 8,922948 | 7,91E-21 |
| MAOB | 8,922788 | 9,01E-07 |
| DEF6 | 8,917976 | 1,77E-08 |
| RPRM | 8,912911 | 6,87E-07 |
| S100A9 | 8,898911 | 8,14E-05 |
| HTR2C | 8,898862 | 2,01E-07 |
| KIAA1257 | 8,882001 | 4,19E-07 |
| RADIL | 8,866194 | 1,24E-06 |
| PCDHA5 | 8,860842 | 2,49E-07 |
| CALCR | 8,851969 | 4,08E-07 |
| KCNMB2-A | 8,848239 | 2,52E-07 |
| LOC100288 | 8,84821 | 3,15E-07 |
| SNCAIP | 8,842129 | 2,61E-07 |
| KCNV1 | 8,837568 | 1,18E-06 |
| PLA2G3 | 8,835851 | 2,85E-06 |
| ESRP2 | 8,805211 | 3,88E-67 |
| SERPINB5 | 8,803137 | 1,18E-05 |
| TMPRSS4 | 8,798217 | 6,20E-07 |
| MPPED2 | 8,788784 | 1,84E-06 |
| TPTE | 8,779205 | 4,46E-07 |
| LOC644915 | 8,766351 | 6,83E-07 |
| FLT4 | 8,765186 | 1,95E-06 |
| ERG | 8,763363 | 4,03E-07 |
| ADAMTS19 | 8,756884 | 4,35E-07 |
| DSCAM | 8,754499 | 1,38E-06 |
| TENM1 | 8,733281 | 9,49E-07 |
| STMND1 | 8,73324 | 5,18E-07 |
| PACSIN1 | 8,728872 | 2,52E-13 |
| ENTPD2 | 8,725112 | 7,55E-14 |
| CCL5 | 8,706746 | 1,31E-05 |
| FRMPD1 | 8,695789 | 7,11E-07 |
| LINC00052 | 8,693484 | 4,71E-07 |
| CCDC83 | 8,689507 | 1,08E-06 |
| MARVELD3 | 8,657178 | 2,44E-27 |
| FAAH2 | 8,651887 | 1,07E-06 |
| LOC100134 | 8,621515 | 1,00E-06 |
| OVOL2 | 8,607221 | 7,33E-07 |
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| TBC1D30 | 8,543722 | 1,12E-62 |
| BCAS1 | 8,543395 | 0,00018 |

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| MSI1 | 8,538763 | 1,26E-51 |
| IGF1 | 8,535202 | 1,48E-06 |
| PCDH19 | 8,528231 | 3,61E-06 |
| FAM83E | 8,510019 | 4,59E-06 |
| ASCL1 | 8,500992 | 2,44E-07 |
| PRRT4 | 8,493896 | 2,08E-06 |
| BRSK2 | 8,493859 | 2,74E-06 |
| RFTN2 | 8,487245 | 3,61E-06 |
| NOTUM | 8,480507 | 9,46E-13 |
| TMEM132f | 8,471908 | 0,000201 |
| LOC100130 | 8,464261 | 2,41E-06 |
| CST1 | 8,463119 | 1,42E-13 |
| NPR3 | 8,462136 | 7,41E-14 |
| ZNF704 | 8,459974 | 1,30E-39 |
| CEBPA-AS1 | 8,435804 | 5,38E-06 |
| HLA-DRB5 | 8,413875 | 4,76E-06 |
| RGMA | 8,411193 | 3,89E-13 |
| SLC22A11 | 8,403938 | 1,67E-05 |
| PVALB | 8,40001 | 1,06E-05 |
| ASCL5 | 8,399247 | 2,70E-06 |
| NMUR2 | 8,392816 | 2,89E-06 |
| TCHHL1 | 8,387889 | 0,000317 |
| HRK | 8,385101 | 0,00011 |
| UNC5C | 8,380102 | 1,40E-05 |
| GUCY1B2 | 8,377821 | 1,40E-05 |
| EPPK1 | 8,377734 | 1,43E-34 |
| TOX2 | 8,374672 | 2,22E-07 |
| TNNT1 | 8,372155 | 5,00E-148 |
| ARHGAP4 | 8,367415 | 3,25E-07 |
| EPN3 | 8,36132 | 4,33E-73 |
| SOX18 | 8,355776 | 3,39E-06 |
| LLPH-AS1 | 8,345854 | 3,54E-06 |
| GATA5 | 8,339897 | 4,26E-06 |
| ITGA2B | 8,338746 | 8,44E-07 |
| SNAR-E | 8,338447 | 1,14E-05 |
| IGFL1 | 8,331303 | 0,000299 |
| SERPINA3 | 8,321177 | 1,22E-05 |
| HPN | 8,319268 | 9,61E-13 |
| NODAL | 8,317743 | 8,92E-06 |
| WIF1 | 8,317348 | 4,47E-05 |
| LOC102723 | 8,306885 | 5,02E-06 |
| SLC6A14 | 8,296569 | 5,14E-06 |
| CLCA2 | 8,29237 | 0,000134 |
| INHBB | 8,257057 | 5,20E-18 |
| HOXD12 | 8,247269 | 3,80E-05 |
| CILP2 | 8,234898 | 1,14E-05 |
| RORC | 8,231287 | 8,99E-06 |
| MYO15B | 8,226968 | 7,35E-06 |
| HS6ST3 | 8,224865 | 8,13E-06 |
| SLC27A3 | 8,223498 | 2,57E-56 |

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| FES | 8,219784 | 6,80E-06 |
| FAM46C | 8,219013 | 7,57E-14 |
| F7 | 8,207175 | 4,37E-05 |
| TARP | 8,199625 | 5,13E-05 |
| LINC01124 | 8,194949 | 1,40E-05 |
| GLDN | 8,193448 | 9,85E-06 |
| DHRS2 | 8,189261 | 5,10E-30 |
| SLC52A3 | 8,187579 | 1,56E-05 |
| BST2 | 8,185768 | 3,73E-21 |
| IGFBP2 | 8,182129 | 1,80E-84 |
| EPHA10 | 8,168242 | 5,61E-07 |
| PART1 | 8,144717 | 1,32E-05 |
| LOC100996 | 8,136356 | 1,51E-05 |
| ESPN | 8,132849 | 7,95E-18 |
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| PTP4A3 | 8,123533 | 1,30E-27 |
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| CBLC | 8,118273 | 8,55E-07 |
| TRPV6 | 8,117058 | 1,23E-05 |
| FOXI3 | 8,0776 | 1,61E-05 |
| AR | 8,066918 | 4,85E-23 |
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| KCNN1 | 8,061609 | 3,55E-05 |
| COLCA1 | 8,052622 | 1,98E-05 |
| KRTAP5-AS | 8,047778 | 8,72E-15 |
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| ACOXL | 7,967365 | 7,20E-05 |
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| KRT16 | 7,958857 | 0,000137 |
| MAFB | 7,952646 | 6,64E-19 |
| SNCB | 7,92035 | 0,000319 |
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| XG | 7,909792 | 0,000646 |
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| BARX2 | 7,888115 | 0,00022 |

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| EMCN | 7,880152 | 4,30E-05 |
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| JAKMIP3 | 7,849668 | 4,75E-05 |
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| KRTAP4-1 | 7,827021 | 9,17E-05 |
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| TTN-AS1 | 7,636287 | 0,000122 |
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| KCNJ4 | 7,576427 | 0,000167 |
| CEACAM5 | 7,574311 | 0,000436 |
| GADD45G | 7,571515 | 2,73E-12 |
| LINC00494 | 7,567395 | 0,000155 |
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| CA4 | 7,537524 | 0,000241 |
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| NKD2 | 7,257563 | 2,98E-13 |
| HAGLROS | 7,256226 | 0,000584 |
| PTPRQ | 7,253415 | 0,000599 |
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| SLC22A23 | 7,245945 | 6,23E-91 |
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| FGF12 | 7,059273 | 1,93E-17 |
| PCDHB14 | 7,056352 | 1,09E-27 |
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| UCP2 | 6,935456 | 1,28E-126 |
| SYTL1 | 6,913169 | 3,43E-28 |
| C2orf54 | 6,896589 | 2,60E-06 |
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| PDE3B | 6,773377 | 6,22E-17 |
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| TP53I11 | 6,746541 | 9,52E-66 |
| ELL3 | 6,743801 | 1,08E-20 |
| FIBCD1 | 6,715264 | 2,49E-14 |
| PLXNA4 | 6,689089 | 1,77E-17 |
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| ABCG1 | 6,649338 | 1,07E-35 |
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| GAL | 6,596618 | 2,39E-71 |
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| HTR6 | 6,463518 | 0,00055 |
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| ENTPD1 | 6,346953 | 6,31E-15 |
| PAX9 | 6,336048 | 1,36E-08 |
| DNAAF3 | 6,330092 | 4,66E-33 |
| COLEC12 | 6,304834 | 2,02E-27 |
| EGR3 | 6,286542 | 1,13E-05 |
| KRTCAP3 | 6,274912 | 3,07E-32 |
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| GALM | 6,150547 | 6,45E-14 |
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| KAZALD1 | 6,136316 | 4,12E-08 |
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| HOXC13-AS1 | 5,889124 | 3,77E-07 |
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| LTBP1 | 5,854787 | 1,14E-90 |
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| OLFM2 | 5,79635 | 7,17E-38 |
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| RGAG4 | 5,612255 | 3,59E-07 |
| CIART | 5,591331 | 3,61E-21 |
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| LINC01547 | 5,456245 | 2,77E-10 |
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| GOLT1A | 5,445639 | 4,95E-15 |
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| FAM83H-A | 5,39582 | 2,14E-54 |
| ARHGAP44 | 5,391058 | 6,42E-22 |
| GOLGA7B | 5,38782 | 6,14E-13 |
| GPM6B | 5,381555 | 0,00028 |
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| PLCB1 | 5,305955 | 2,52E-26 |
| RAP1GAP | 5,304541 | 1,03E-15 |
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| PALM | 5,17319 | 2,21E-29 |
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| EFR3B | 5,126864 | 2,48E-27 |
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| F12 | 5,074979 | 1,43E-92 |
| NMNAT2 | 5,069453 | 1,45E-12 |
| RAB3D | 5,064505 | 1,05E-59 |
| NUPR1 | 5,045574 | 1,73E-15 |
| VGF | 5,039764 | 1,91E-28 |
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| HNRNPLL | 5,032476 | 2,13E-34 |
| BCAS3 | 5,02216 | 3,20E-76 |
| MYCL | 5,019182 | 2,01E-10 |
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| SOBP | 5,007625 | 3,93E-09 |
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| FREM2 | 4,992439 | 1,07E-143 |
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| TBX2-AS1 | 4,898252 | 2,07E-11 |
| JUP | 4,895337 | 1,62E-41 |
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| PCDHB16 | 4,878507 | 2,56E-27 |
| KLRG2 | 4,85735 | 3,16E-08 |
| PKIB | 4,855494 | 7,99E-50 |
| CBX2 | 4,853516 | 5,40E-103 |
| RORA | 4,85114 | 1,14E-26 |
| SRRM3 | 4,8473 | 4,80E-07 |
| NRARP | 4,832727 | 1,70E-21 |
| TMPRSS2 | 4,830942 | 3,93E-09 |
| RAB26 | 4,829262 | 3,57E-09 |
| RPP25 | 4,815145 | 6,44E-60 |
| MPP7 | 4,813533 | 1,01E-47 |
| AKR1E2 | 4,809411 | 3,30E-06 |
| C15orf65 | 4,800786 | 2,04E-08 |
| SBK1 | 4,793009 | 4,38E-91 |
| ARTN | 4,789856 | 3,44E-06 |
| DKK1 | 4,777282 | 7,64E-14 |
| TMEM254- | 4,756818 | 1,15E-07 |
| LYSMD2 | 4,753732 | 5,95E-45 |
| SPATA17 | 4,716789 | 1,61E-23 |
| TSTD1 | 4,713959 | 3,21E-40 |
| MALRD1 | 4,712122 | 1,85E-08 |
| UNC5B | 4,708758 | 1,76E-08 |
| SLC27A2 | 4,696577 | 1,37E-43 |
| PCDHGA10 | 4,693503 | 0,000136 |
| LDHD | 4,688177 | 1,24E-06 |
| ZBTB7C | 4,683896 | 1,81E-05 |
| STXBP6 | 4,673735 | 1,00E-12 |
| FAAH | 4,670414 | 1,20E-25 |
| ST14 | 4,655744 | 7,33E-47 |
| SELM | 4,65334 | 1,82E-06 |
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| AEBP1 | 4,609508 | 1,38E-06 |
| ZNF204P | 4,592671 | 5,89E-06 |
| RNF157 | 4,583556 | 9,30E-11 |

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| KIF5C | 4,580017 | 6,71E-06 |
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| PPFIA3 | 4,534016 | 5,17E-35 |
| SH3YL1 | 4,525652 | 1,48E-48 |
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| AIF1L | 4,521972 | 5,61E-85 |
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| MFAP2 | 4,458415 | 1,23E-22 |
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| JHDM1D-A | 4,452623 | 1,23E-12 |
| EMID1 | 4,452582 | 2,02E-08 |
| NRCAM | 4,446369 | 4,99E-23 |
| NELL2 | 4,43658 | 0,000326 |
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| PCSK1N | 4,414672 | 1,63E-33 |
| KRT17 | 4,413753 | 5,68E-08 |
| C1orf21 | 4,412862 | 2,34E-13 |
| SEMA4A | 4,412042 | 7,74E-28 |
| IFITM10 | 4,407075 | 0,000151 |
| MGAT4A | 4,403843 | 2,08E-19 |
| ERICH2 | 4,394114 | 1,61E-20 |
| RHOB | 4,393092 | 2,28E-70 |
| RASD1 | 4,392781 | 3,27E-06 |
| KCNJ8 | 4,384684 | 2,81E-50 |
| TRPV3 | 4,378235 | 1,12E-07 |
| LCP1 | 4,374179 | 3,15E-15 |
| IFI30 | 4,371441 | 8,71E-42 |
| ZNF165 | 4,367751 | 3,55E-36 |
| CEMIP | 4,363461 | 3,99E-16 |
| HOXC13 | 4,360755 | 3,84E-20 |
| ATP1A3 | 4,358551 | 2,02E-15 |
| GPLD1 | 4,358538 | 1,33E-06 |
| ADGRL1 | 4,350616 | 2,11E-104 |
| ZNF879 | 4,350355 | 9,18E-07 |
| EPCAM | 4,348497 | 2,38E-93 |
| EFHD1 | 4,341371 | 5,25E-19 |
| SEMA6A | 4,341098 | 2,76E-15 |
| PLEKHA7 | 4,338117 | 9,79E-46 |
| HIST2H2AC | 4,337836 | 0,000259 |
| FBXO15 | 4,335376 | 1,29E-06 |
| ABCC2 | 4,329267 | 2,27E-06 |
| KIAA1211L | 4,324069 | 0,000442 |
| EFNA3 | 4,313914 | 1,07E-26 |

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| HIST2H2BE | 4,311449 | 5,82E-15 |
| ADAMTS17 | 4,307017 | 3,92E-05 |
| SMPDL3B | 4,306185 | 1,91E-45 |
| REEP6 | 4,302961 | 3,07E-40 |
| ZBTB42 | 4,293847 | 1,11E-43 |
| C1orf233 | 4,288149 | 6,27E-47 |
| ALDH5A1 | 4,285657 | 4,19E-46 |
| SYT1 | 4,28516 | 4,64E-19 |
| TUB | 4,277657 | 2,10E-06 |
| STARD10 | 4,273569 | 1,46E-32 |
| CDH18 | 4,267716 | 0,000259 |
| BGN | 4,264109 | 2,35E-08 |
| S100A4 | 4,255078 | 0,000193 |
| CACNG4 | 4,244274 | 4,27E-26 |
| TP73 | 4,233575 | 1,13E-06 |
| C21orf58 | 4,232305 | 9,91E-17 |
| MARCH1 | 4,22542 | 9,77E-06 |
| ARHGEF16 | 4,221823 | 2,28E-31 |
| YPEL1 | 4,20095 | 4,55E-05 |
| MYH7B | 4,200136 | 6,69E-06 |
| ASAH2 | 4,191448 | 1,60E-19 |
| RAB3IL1 | 4,154187 | 1,87E-15 |
| PODXL2 | 4,148177 | 1,79E-59 |
| CNKSRI | 4,141298 | 1,56E-14 |
| C17orf96 | 4,136378 | 1,84E-30 |
| ACKR3 | 4,133332 | 2,76E-53 |
| NCOA3 | 4,132875 | 1,15E-78 |
| ADPRHL1 | 4,130645 | 4,59E-21 |
| HCN2 | 4,110127 | 2,73E-18 |
| PCDHGB2 | 4,109858 | 0,000441 |
| HIST1H2BD | 4,107942 | 3,10E-13 |
| SYT3 | 4,102478 | 6,97E-08 |
| SERPINI1 | 4,09737 | 1,66E-06 |
| FGFR4 | 4,095316 | 8,00E-36 |
| SOX2 | 4,089004 | 2,43E-18 |
| USP32 | 4,077312 | 1,57E-43 |
| RASL11B | 4,049234 | 2,45E-17 |
| CPLX1 | 4,049026 | 6,17E-16 |
| SAPCD2 | 4,047526 | 6,02E-43 |
| RUNDC3A | 4,045775 | 1,16E-07 |
| TMEM238 | 4,037224 | 7,41E-15 |
| GRID1 | 4,034844 | 0,000437 |
| RND2 | 4,028203 | 6,86E-15 |
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| HIST1H2AC | 4,012819 | 1,39E-08 |
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| C12orf56 | 3,992825 | 8,64E-12 |
| NANOS1 | 3,990586 | 4,39E-29 |
| SLC27A5 | 3,983608 | 2,97E-32 |

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| NHLRC1 | 3,967162 | 3,65E-05 |
| CRABP2 | 3,966487 | 1,65E-19 |
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| IMPA2 | 3,95525 | 3,32E-41 |
| AK7 | 3,954617 | 8,15E-42 |
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| RAB39B | 3,94817 | 0,000487 |
| SLC15A2 | 3,943918 | 9,93E-06 |
| HIST1H2BK | 3,939591 | 2,36E-13 |
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| ZNF790-AS | 3,931081 | 1,05E-11 |
| MAP2K6 | 3,92919 | 1,97E-07 |
| GABPB1-AS | 3,926283 | 5,05E-16 |
| LINC01006 | 3,892855 | 2,35E-05 |
| SPPL2A | 3,883393 | 6,51E-57 |
| COL9A3 | 3,883268 | 1,66E-06 |
| WFDC2 | 3,852664 | 0,000862 |
| DGAT2 | 3,84665 | 1,62E-15 |
| MAML3 | 3,843805 | 7,60E-10 |
| SLC16A14 | 3,842402 | 1,06E-07 |
| S1PR3 | 3,842087 | 8,16E-13 |
| IRX3 | 3,836737 | 2,28E-35 |
| IGSF10 | 3,831219 | 0,000138 |
| FOXA1 | 3,830582 | 1,58E-96 |
| SELENBP1 | 3,821968 | 1,68E-39 |
| CLDN4 | 3,821422 | 1,59E-31 |
| FRMD6-AS | 3,820461 | 3,19E-06 |
| MAPK8IP2 | 3,811875 | 1,19E-10 |
| FMO5 | 3,810205 | 3,81E-05 |
| RNF125 | 3,795984 | 5,75E-06 |
| SLC43A2 | 3,789647 | 1,50E-31 |
| CREB3L4 | 3,787559 | 1,48E-42 |
| MAST1 | 3,780597 | 1,72E-11 |
| SRCIN1 | 3,750903 | 1,48E-06 |
| PCDH1 | 3,732306 | 6,28E-27 |
| HIST1H1C | 3,73096 | 5,63E-07 |
| FAM78A | 3,730262 | 0,000104 |
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| RPS6KL1 | 3,719453 | 1,06E-16 |
| GLUD2 | 3,707191 | 2,42E-13 |
| TUBD1 | 3,7046 | 5,19E-33 |
| CEACAM1 | 3,704261 | 3,20E-12 |
| DTWD1 | 3,703059 | 7,70E-29 |
| APPBP2 | 3,700496 | 2,13E-95 |
| PKP3 | 3,698591 | 3,13E-38 |
| COL9A2 | 3,692701 | 6,92E-12 |
| CCDC74B | 3,672276 | 6,47E-05 |
| PSMG3-AS | 3,669083 | 6,15E-16 |
| CCDC78 | 3,668795 | 1,00E-06 |
| FAM227B | 3,666267 | 4,16E-14 |

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| HOOK2 | 3,665886 | 1,91E-64 |
| IRX5 | 3,662356 | 2,67E-33 |
| RHOBTB1 | 3,662181 | 1,72E-83 |
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| RINL | 3,64486 | 5,72E-05 |
| ADAMTS13 | 3,618169 | 9,36E-05 |
| FLJ10038 | 3,614934 | 2,75E-21 |
| LENG9 | 3,614481 | 3,34E-26 |
| HS3ST3B1 | 3,598227 | 8,12E-06 |
| NGEF | 3,597016 | 0,000738 |
| FAM222A | 3,59608 | 7,41E-31 |
| FA2H | 3,594132 | 4,05E-06 |
| RNF165 | 3,591736 | 1,01E-07 |
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| CPT1A | 3,577461 | 1,50E-75 |
| SCML2 | 3,574119 | 1,38E-12 |
| ABCA12 | 3,570582 | 4,20E-18 |
| C19orf81 | 3,564877 | 1,22E-05 |
| TFAP2A | 3,558483 | 6,22E-94 |
| EDA | 3,537204 | 6,80E-05 |
| RNF144A | 3,534372 | 8,02E-15 |
| AGAP2 | 3,526119 | 1,77E-15 |
| SIAH2 | 3,520993 | 6,50E-42 |
| C19orf33 | 3,520213 | 3,30E-15 |
| LINC00960 | 3,515671 | 1,12E-07 |
| TBX2 | 3,511265 | 5,38E-25 |
| LOC283335 | 3,506812 | 2,74E-17 |
| FAM174B | 3,506803 | 1,12E-12 |
| RASGRF1 | 3,506656 | 2,14E-21 |
| CELSR3 | 3,505649 | 1,88E-22 |
| MYB | 3,503059 | 8,15E-09 |
| GNG7 | 3,500444 | 1,57E-05 |
| TTC9 | 3,500257 | 2,20E-27 |
| GDPD3 | 3,499187 | 1,71E-05 |
| TCF7L1 | 3,496759 | 3,36E-10 |
| SAMD11 | 3,495837 | 3,96E-07 |
| EML6 | 3,486963 | 2,51E-05 |
| PPFIBP2 | 3,474035 | 3,55E-16 |
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| ZBTB46 | 3,449533 | 0,000587 |
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| VAV1 | 3,439466 | 6,73E-09 |
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| ADGRL2 | 3,433547 | 9,69E-10 |
| P2RY6 | 3,431714 | 0,000382 |
| PRSS22 | 3,431487 | 1,91E-06 |
| PCDHGB1 | 3,426397 | 1,27E-09 |
| TRPS1 | 3,420781 | 1,74E-73 |

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| TRAPPC6A | 3,41464 | 8,42E-27 |
| TGM1 | 3,41395 | 0,000202 |
| ANKRD34A | 3,401497 | 6,84E-11 |
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| ZSCAN31 | 3,380589 | 1,26E-15 |
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| PPM1D | 3,374625 | 8,01E-61 |
| FGFR3 | 3,368207 | 1,18E-19 |
| FAM46B | 3,364071 | 1,30E-13 |
| MREG | 3,357187 | 4,77E-36 |
| SOX13 | 3,341751 | 1,72E-17 |
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| IRF6 | 3,327678 | 6,31E-18 |
| TRIM37 | 3,324236 | 1,87E-86 |
| SYT12 | 3,322977 | 3,66E-13 |
| RBPMS2 | 3,318744 | 1,79E-07 |
| DUSP2 | 3,317625 | 3,72E-07 |
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| GSE1 | 3,291457 | 6,94E-84 |
| MAST4 | 3,291213 | 1,58E-07 |
| SLC9A3R2 | 3,282602 | 1,96E-44 |
| JAG2 | 3,276742 | 3,77E-21 |
| EPB41L5 | 3,27543 | 2,21E-45 |
| BRIP1 | 3,274908 | 5,41E-55 |
| C1QTNF9B | 3,274016 | 3,67E-11 |
| RNF44 | 3,27153 | 5,68E-47 |
| LCMT2 | 3,267496 | 8,18E-22 |
| OBSCN | 3,26679 | 3,61E-11 |
| RPS6KB1 | 3,258127 | 2,73E-75 |
| ICOSLG | 3,257999 | 2,69E-08 |
| LEO1 | 3,257922 | 2,31E-73 |
| TM7SF2 | 3,256218 | 1,02E-14 |
| SYNPO2 | 3,249664 | 1,94E-10 |
| MAPK6 | 3,247095 | 1,72E-75 |
| ZNF497 | 3,242809 | 7,60E-09 |
| VASH2 | 3,238978 | 9,15E-09 |
| PLEKHB1 | 3,237132 | 1,30E-08 |
| JMY | 3,229979 | 1,64E-08 |
| ZNF433 | 3,226089 | 1,43E-12 |
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| LRRC37A3 | 3,224642 | 1,00E-06 |
| PLEKHG6 | 3,222883 | 2,68E-08 |
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| MZF1-AS1 | 3,211841 | 1,10E-07 |
| TSPAN13 | 3,207037 | 4,11E-37 |

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| ZP3 | 3,202662 | 5,77E-25 |
| CRTC1 | 3,196219 | 1,10E-32 |
| CGN | 3,196044 | 1,53E-30 |
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| HEYL | 3,185108 | 0,000491 |
| ZSCAN16 | 3,182325 | 3,66E-21 |
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| RALGPS1 | 3,175 | 3,07E-18 |
| RSPH1 | 3,17404 | 0,000222 |
| HEATR6 | 3,168136 | 1,17E-59 |
| DGKE | 3,16313 | 1,80E-11 |
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| DBP | 3,151616 | 1,28E-21 |
| FAM102B | 3,151221 | 6,95E-46 |
| SULT1A1 | 3,148429 | 2,94E-06 |
| C6orf52 | 3,143871 | 9,78E-06 |
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| XBP1 | 3,122667 | 2,56E-14 |
| FAM214A | 3,122186 | 4,53E-08 |
| RAB11FIP4 | 3,11974 | 1,99E-38 |
| CFAP44 | 3,114629 | 0,000233 |
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| USP18 | 3,102776 | 4,38E-07 |
| C12orf57 | 3,089241 | 1,33E-24 |
| PDCD4 | 3,086742 | 1,30E-31 |
| DUSP9 | 3,08674 | 2,58E-09 |
| ACSS3 | 3,0833 | 4,17E-57 |
| KLF5 | 3,077283 | 3,90E-47 |
| PREX1 | 3,071571 | 5,07E-33 |
| RASSF5 | 3,063677 | 0,000599 |
| LOC100134 | 3,062947 | 0,000762 |
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| PIK3C2B | 3,047819 | 1,26E-30 |
| ATP6V1C2 | 3,043943 | 1,73E-12 |
| CAMK2N2 | 3,04044 | 5,16E-13 |
| GRIN2D | 3,039382 | 1,04E-06 |
| PRDX2 | 3,038257 | 3,79E-51 |
| ADAM22 | 3,038242 | 1,34E-16 |
| TNFRSF19 | 3,034088 | 1,10E-33 |
| DLL1 | 3,033533 | 0,00043 |
| FOS | 3,026324 | 0,00025 |
| NUDT8 | 3,02555 | 7,41E-15 |
| C14orf169 | 3,022917 | 2,11E-19 |
| TMEM216 | 3,018865 | 8,56E-10 |
| DHRS13 | 3,017365 | 2,38E-18 |
| BOLA1 | 3,017251 | 5,12E-24 |
| SEMA3F | 3,012534 | 4,11E-25 |
| ZCCHC12 | 3,009224 | 0,000266 |
| SLC22A17 | 3,008271 | 3,61E-05 |

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| GSTZ1 | 3,006892 | 4,91E-37 |
| LHX2 | 2,985015 | 0,000308 |
| TNRC6C | 2,981762 | 1,49E-37 |
| PITPNC1 | 2,979948 | 4,35E-52 |
| TPBG | 2,978153 | 1,61E-43 |
| C1orf115 | 2,975455 | 4,95E-12 |
| KCNK6 | 2,974521 | 1,52E-10 |
| MROH6 | 2,974014 | 2,67E-11 |
| VPS9D1-AS | 2,972787 | 4,06E-32 |
| GJA3 | 2,970489 | 9,15E-08 |
| DAAM1 | 2,968514 | 3,06E-33 |
| GAD1 | 2,96292 | 9,61E-13 |
| PCDH18 | 2,959993 | 1,15E-06 |
| LRRC24 | 2,959435 | 4,11E-06 |
| DYRK1B | 2,957247 | 1,00E-25 |
| GGT1 | 2,956185 | 1,94E-18 |
| ARHGEF19 | 2,952293 | 1,82E-15 |
| CASKIN1 | 2,951793 | 1,67E-11 |
| ACBD7 | 2,947091 | 7,75E-14 |
| ST8SIA4 | 2,93774 | 4,54E-06 |
| TGFB3 | 2,923492 | 0,000619 |
| PFDN4 | 2,922798 | 4,49E-64 |
| PDE4DIP | 2,921863 | 8,77E-19 |
| AMH | 2,901752 | 4,09E-05 |
| HOXC-AS3 | 2,896669 | 0,00021 |
| NPDC1 | 2,888749 | 6,14E-50 |
| IGFBP5 | 2,888261 | 3,77E-14 |
| PIK3R3 | 2,885542 | 1,75E-16 |
| HCG11 | 2,879715 | 8,39E-13 |
| TRPM7 | 2,876323 | 2,73E-59 |
| A1BG-AS1 | 2,873333 | 4,22E-09 |
| LAGE3 | 2,871279 | 1,97E-34 |
| TOB2P1 | 2,870313 | 0,000615 |
| CAMK2B | 2,862869 | 1,20E-08 |
| SERINC5 | 2,860044 | 4,78E-18 |
| SDHAF1 | 2,851624 | 2,26E-17 |
| GSG1L | 2,849657 | 4,99E-05 |
| CSAD | 2,847382 | 1,62E-08 |
| HECW2 | 2,846463 | 8,41E-12 |
| KRT8 | 2,845808 | 2,26E-18 |
| KLHDC9 | 2,837808 | 5,01E-05 |
| RABL2A | 2,837319 | 5,88E-06 |
| BCAS2 | 2,836136 | 2,41E-62 |
| P2RY2 | 2,831311 | 5,58E-20 |
| IGSF5 | 2,828348 | 0,000143 |
| MAP3K14- l | 2,826681 | 1,43E-07 |
| FUT8-AS1 | 2,826678 | 5,97E-05 |
| A1BG | 2,826123 | 1,53E-06 |
| MDM4 | 2,822768 | 4,89E-17 |
| RAD51C | 2,81663 | 2,42E-50 |

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| CABYR | 2,814396 | 7,97E-06 |
| PAIP2B | 2,81391 | 2,37E-12 |
| CNIH2 | 2,813232 | 2,73E-12 |
| ALDH3A2 | 2,806942 | 1,49E-52 |
| PAX8-AS1 | 2,798683 | 2,48E-13 |
| SMIM14 | 2,795273 | 3,14E-07 |
| LOC90784 | 2,794811 | 5,03E-30 |
| HSD3B7 | 2,789312 | 6,75E-30 |
| RAB3A | 2,782729 | 1,21E-06 |
| ZBTB12 | 2,77781 | 7,25E-09 |
| RNF122 | 2,773511 | 2,86E-12 |
| PSMD6 | 2,770866 | 1,09E-43 |
| G6PD | 2,769616 | 3,26E-06 |
| SUV420H2 | 2,767876 | 1,39E-16 |
| KALRN | 2,76395 | 2,16E-06 |
| RTN4R | 2,761517 | 2,42E-10 |
| BSN | 2,759337 | 0,000247 |
| GLUL | 2,756833 | 4,97E-71 |
| C10orf35 | 2,75194 | 3,63E-08 |
| CSPG5 | 2,751609 | 1,48E-07 |
| LAMP3 | 2,750296 | 0,000201 |
| CLU | 2,745295 | 9,50E-13 |
| ABCB6 | 2,744693 | 3,16E-18 |
| PCAT7 | 2,743471 | 3,56E-05 |
| KCNS3 | 2,739181 | 0,00053 |
| SDHAP2 | 2,733153 | 5,78E-08 |
| NXPH4 | 2,728804 | 1,58E-21 |
| SLC48A1 | 2,71683 | 7,51E-10 |
| SPIRE2 | 2,714698 | 1,85E-07 |
| HSD11B2 | 2,70515 | 7,69E-08 |
| LONRF2 | 2,703525 | 5,38E-10 |
| SHF | 2,69968 | 1,41E-06 |
| ACTL10 | 2,690634 | 2,67E-05 |
| KNDC1 | 2,687612 | 0,000109 |
| OSR2 | 2,679434 | 4,73E-07 |
| DENND2C | 2,674613 | 0,000175 |
| CACFD1 | 2,672958 | 1,28E-16 |
| RNF208 | 2,672209 | 1,65E-14 |
| DMXL2 | 2,668567 | 8,17E-34 |
| EPB41L4B | 2,666593 | 7,94E-20 |
| DDIT4L | 2,666255 | 2,13E-07 |
| YBEY | 2,665017 | 8,22E-07 |
| ZNF703 | 2,660797 | 2,89E-34 |
| C22orf46 | 2,646439 | 1,06E-16 |
| ZNF397 | 2,638027 | 6,99E-15 |
| DDAH2 | 2,633352 | 3,80E-23 |
| MARVELD2 | 2,632863 | 1,05E-15 |
| SLC26A11 | 2,631401 | 2,67E-09 |
| PRSS16 | 2,62947 | 1,55E-09 |
| DCXR | 2,628687 | 6,81E-36 |

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| SMKR1 | 2,627022 | 1,47E-09 |
| MYLIP | 2,623517 | 1,90E-17 |
| SH3BP5 | 2,62265 | 7,88E-41 |
| RNASEL | 2,614255 | 7,57E-13 |
| SIGIRR | 2,604935 | 1,93E-23 |
| KRT18 | 2,597355 | 2,74E-12 |
| MEX3A | 2,594273 | 1,82E-52 |
| KLHDC2 | 2,594211 | 5,92E-15 |
| FAM69B | 2,591689 | 2,71E-06 |
| B3GNT4 | 2,590538 | 3,32E-05 |
| TXNIP | 2,589387 | 3,74E-05 |
| TFR2 | 2,585652 | 2,68E-05 |
| TSPAN15 | 2,5849 | 1,79E-13 |
| SESN3 | 2,582043 | 5,23E-05 |
| PANX2 | 2,5808 | 0,000466 |
| PRICKLE2-A | 2,580566 | 0,000521 |
| CRYL1 | 2,577968 | 2,65E-19 |
| ZNF385A | 2,576257 | 9,84E-33 |
| PRMT6 | 2,573421 | 3,48E-45 |
| ICA1 | 2,573333 | 4,52E-18 |
| MED12L | 2,572764 | 3,31E-07 |
| MSX2 | 2,572078 | 2,32E-15 |
| EDN1 | 2,568117 | 7,43E-07 |
| CENPBD1 | 2,565132 | 5,09E-17 |
| GABPB1 | 2,562733 | 3,52E-21 |
| ETS2 | 2,560641 | 1,21E-25 |
| COBL | 2,56013 | 1,18E-10 |
| HEIH | 2,555355 | 5,01E-10 |
| PLEKHF2 | 2,549929 | 1,65E-31 |
| EGFL7 | 2,543019 | 9,21E-17 |
| SLC29A3 | 2,541892 | 2,50E-09 |
| SALL4 | 2,538152 | 3,43E-06 |
| TLCD1 | 2,526538 | 2,84E-27 |
| ZNF793 | 2,522245 | 1,25E-11 |
| GPR153 | 2,513291 | 2,33E-12 |
| CXCL16 | 2,513202 | 3,68E-13 |
| GCH1 | 2,510149 | 2,13E-16 |
| ZMIZ1 | 2,509308 | 6,02E-23 |
| PTGES | 2,501548 | 1,07E-05 |
| WDR83 | 2,499766 | 1,66E-18 |
| SOX4 | 2,497254 | 1,23E-30 |
| IQCH-AS1 | 2,496979 | 5,43E-12 |
| TMOD3 | 2,496762 | 4,08E-46 |
| LNX2 | 2,487886 | 6,04E-31 |
| FRAS1 | 2,487232 | 6,48E-14 |
| TEAD2 | 2,485486 | 6,62E-19 |
| ADRBK2 | 2,485228 | 5,91E-10 |
| SCAMP5 | 2,484553 | 2,55E-07 |
| ISM1 | 2,482841 | 0,000125 |
| ZBED9 | 2,481031 | 1,44E-07 |

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| TMEM183F | 2,478751 | 1,29E-10 |
| CCDC57 | 2,475797 | 2,66E-15 |
| ENPP5 | 2,475242 | 8,16E-05 |
| KIAA1211 | 2,474011 | 7,65E-10 |
| ISOC2 | 2,472649 | 7,82E-41 |
| NPW | 2,471566 | 0,000428 |
| TLCD2 | 2,470805 | 5,40E-07 |
| KBTBD7 | 2,468439 | 1,98E-13 |
| FAM110A | 2,467388 | 2,46E-09 |
| FUOM | 2,46705 | 3,71E-09 |
| SP6 | 2,457958 | 1,24E-10 |
| FAM171A2 | 2,450381 | 2,40E-27 |
| ARRDC4 | 2,449157 | 8,08E-08 |
| NIPAL2 | 2,447387 | 1,91E-08 |
| CASKIN2 | 2,445484 | 2,56E-27 |
| NAT8L | 2,437331 | 6,71E-12 |
| KIAA1324L | 2,434519 | 1,51E-21 |
| ITPK1 | 2,434229 | 2,37E-35 |
| ZNF253 | 2,4339 | 1,00E-19 |
| SLC39A4 | 2,430337 | 3,02E-15 |
| LIN7B | 2,42938 | 1,62E-05 |
| TMEM52 | 2,427843 | 0,000281 |
| SLC4A8 | 2,423074 | 0,0003 |
| ATXN7L2 | 2,421176 | 3,47E-10 |
| RLTPR | 2,419231 | 0,000463 |
| PPCDC | 2,416785 | 6,26E-11 |
| TET3 | 2,415168 | 7,96E-40 |
| TRIM36 | 2,415055 | 1,16E-14 |
| FRAT2 | 2,414768 | 1,41E-08 |
| TRPM4 | 2,41275 | 6,34E-23 |
| LSR | 2,40489 | 2,85E-26 |
| ZNF239 | 2,400309 | 2,33E-05 |
| PNRC1 | 2,396631 | 8,23E-16 |
| PLEKHH1 | 2,395303 | 1,25E-20 |
| DNASE2 | 2,39137 | 1,02E-30 |
| NHP2 | 2,389932 | 6,32E-49 |
| BAHCC1 | 2,38761 | 2,43E-05 |
| MTIF3 | 2,386428 | 1,31E-17 |
| SMAD6 | 2,384647 | 8,49E-07 |
| KRBA2 | 2,38447 | 0,000896 |
| B4GALNT4 | 2,383864 | 1,31E-09 |
| TMC6 | 2,383427 | 3,18E-15 |
| MDH2 | 2,382753 | 1,56E-32 |
| TMEM44-A | 2,381935 | 0,000149 |
| MEST | 2,381458 | 1,69E-41 |
| ZNF711 | 2,380725 | 1,62E-10 |
| BLVRB | 2,375308 | 1,89E-10 |
| LPAR2 | 2,371817 | 2,32E-27 |
| RAC3 | 2,362147 | 3,89E-15 |
| ZNF737 | 2,352056 | 2,17E-07 |

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| C5 | 2,348149 | 6,04E-06 |
| CCDC71L | 2,346679 | 7,81E-08 |
| SH2D3A | 2,341491 | 1,83E-06 |
| MPND | 2,341477 | 7,27E-16 |
| CSDE1 | 2,341375 | 7,42E-27 |
| FAM53B | 2,34105 | 1,26E-36 |
| ALKBH2 | 2,340665 | 3,30E-18 |
| ZSWIM7 | 2,340525 | 1,61E-13 |
| ZNF391 | 2,336516 | 0,000597 |
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| ANO8 | 2,334518 | 3,78E-12 |
| ZFP14 | 2,331344 | 6,82E-09 |
| SLC29A2 | 2,327156 | 2,82E-14 |
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| SEMA4C | 2,317932 | 1,06E-17 |
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| ZNF630 | 2,308412 | 2,83E-05 |
| MEPCE | 2,308175 | 5,16E-49 |
| UFSP1 | 2,307231 | 0,000298 |
| C21orf33 | 2,304218 | 8,54E-18 |
| UBE2Q2P2 | 2,30392 | 0,000251 |
| ZNF217 | 2,300805 | 3,51E-41 |
| MNX1 | 2,299428 | 1,98E-10 |
| C2orf76 | 2,298511 | 3,20E-05 |
| TMEM121 | 2,296943 | 0,000442 |
| ENDOV | 2,294306 | 6,39E-14 |
| ZNF836 | 2,291937 | 1,82E-10 |
| JUNB | 2,291179 | 3,05E-09 |
| GGACT | 2,290097 | 0,00011 |
| DHTKD1 | 2,282393 | 3,24E-24 |
| TRIM24 | 2,280655 | 1,97E-27 |
| FBLIM1 | 2,279257 | 1,92E-05 |
| SYNE2 | 2,272688 | 6,59E-16 |
| VSIG10L | 2,272142 | 2,18E-08 |
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| KATNAL2 | 2,27009 | 6,11E-05 |
| TDRKH | 2,269986 | 1,23E-08 |
| ECE2 | 2,268901 | 2,53E-10 |
| MBNL3 | 2,266239 | 4,01E-24 |
| PYCR1 | 2,265347 | 9,01E-20 |
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| MRPL41 | 2,262427 | 7,15E-26 |
| GLS2 | 2,260062 | 4,95E-06 |
| AP1M2 | 2,258509 | 4,35E-24 |
| WDR83OS | 2,258252 | 7,73E-33 |
| FAM134B | 2,256528 | 1,91E-05 |
| HSPA2 | 2,255231 | 9,21E-05 |
| MAFG-AS1 | 2,254798 | 1,21E-05 |
| B3GNT3 | 2,2536 | 0,00032 |
| NIPBL-AS1 | 2,252857 | 7,89E-09 |

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| MOAP1 | 2,252822 | 4,82E-13 |
| SPATA2L | 2,252664 | 6,48E-16 |
| PCDHB2 | 2,251345 | 6,66E-12 |
| HS6ST1 | 2,249424 | 2,87E-23 |
| NPY1R | 2,246735 | 7,05E-11 |
| AUTS2 | 2,244529 | 2,50E-17 |
| GSTM4 | 2,241635 | 2,20E-17 |
| CCT6B | 2,241038 | 0,000264 |
| CAMSAP3 | 2,239875 | 1,65E-22 |
| CELSR2 | 2,238995 | 3,40E-23 |
| SLC7A5 | 2,233229 | 1,86E-32 |
| ZFP62 | 2,232677 | 4,16E-29 |
| KDM7A | 2,230303 | 2,66E-12 |
| GLCE | 2,228967 | 3,84E-27 |
| SMARCD2 | 2,228314 | 1,55E-40 |
| ZNF232 | 2,222564 | 9,56E-07 |
| TAF11 | 2,220905 | 4,08E-22 |
| ONECUT2 | 2,219912 | 2,11E-11 |
| SFT2D3 | 2,211349 | 6,17E-08 |
| FAM212B | 2,210973 | 3,41E-06 |
| TNS2 | 2,210437 | 3,30E-12 |
| LIPT2 | 2,20881 | 8,75E-05 |
| TRIM33 | 2,20505 | 2,39E-28 |
| CCDC88C | 2,203548 | 6,09E-11 |
| MXD4 | 2,201948 | 1,64E-07 |
| TET2 | 2,198468 | 6,42E-21 |
| ULK3 | 2,192532 | 3,16E-14 |
| HIPK1 | 2,190295 | 5,41E-31 |
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| TMEM251 | 2,187755 | 4,70E-18 |
| LOC100996 | 2,186116 | 0,000221 |
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| DNLZ | 2,183937 | 1,47E-18 |
| WRB | 2,178134 | 1,40E-13 |
| HAGHL | 2,176627 | 2,71E-13 |
| ARPP19 | 2,175136 | 1,46E-35 |
| IL17RB | 2,172556 | 7,66E-05 |
| RNASEH2A | 2,171704 | 5,85E-29 |
| EN2 | 2,167564 | 1,16E-06 |
| ZNF276 | 2,16697 | 1,25E-17 |
| MCM3AP- l | 2,164452 | 1,01E-07 |
| EPB41L4A- l | 2,163602 | 4,38E-07 |
| AXIN2 | 2,163132 | 2,24E-27 |
| ASPSCR1 | 2,158787 | 1,24E-21 |
| TMEM183 l | 2,158763 | 6,64E-30 |
| TMEM184 l | 2,155808 | 4,46E-07 |
| IDUA | 2,154566 | 2,36E-06 |
| DDR1 | 2,146472 | 1,03E-07 |
| AGAP9 | 2,144319 | 0,000521 |
| SLC7A8 | 2,14416 | 1,68E-06 |

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| PER3 | 2,133599 | 9,26E-05 |
| CBX4 | 2,132729 | 7,65E-07 |
| AIM1 | 2,13118 | 3,74E-07 |
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| POLR3C | 2,121657 | 9,39E-09 |
| RALGAPA1 | 2,11858 | 3,71E-19 |
| SPTBN2 | 2,11775 | 3,47E-13 |
| C15orf39 | 2,117 | 2,76E-24 |
| JDP2 | 2,113403 | 8,69E-05 |
| ZNF137P | 2,112793 | 0,000472 |
| CTXN1 | 2,110894 | 2,15E-16 |
| ZNRF2 | 2,110482 | 3,83E-10 |
| SAMD15 | 2,110305 | 0,000579 |
| VPS72 | 2,109258 | 8,22E-13 |
| AREG | 2,108719 | 6,29E-06 |
| ZNF682 | 2,108461 | 1,70E-06 |
| C2orf68 | 2,103768 | 2,02E-21 |
| HMGB3 | 2,103521 | 1,48E-37 |
| HES6 | 2,102407 | 7,91E-05 |
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| WDR34 | 2,093554 | 2,37E-34 |
| KCNK1 | 2,093245 | 4,90E-07 |
| EFNA4 | 2,092331 | 5,76E-16 |
| PHLPP1 | 2,090378 | 5,27E-19 |
| NES | 2,089661 | 6,51E-08 |
| DSP | 2,087628 | 1,62E-26 |
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| LOXL3 | 2,085424 | 7,45E-06 |
| ZCWPW1 | 2,083027 | 1,32E-06 |
| PPP1R3F | 2,077444 | 1,55E-05 |
| SLC37A1 | 2,072089 | 6,12E-06 |
| RANBP17 | 2,067143 | 7,37E-07 |
| SCAND2P | 2,066415 | 0,000518 |
| ZFYVE19 | 2,060477 | 7,75E-14 |
| DCLRE1B | 2,060127 | 9,33E-16 |
| SETDB1 | 2,059031 | 1,88E-19 |
| ZC3H8 | 2,058472 | 2,03E-06 |
| DNPH1 | 2,054215 | 1,42E-27 |
| ZNF74 | 2,053554 | 9,77E-17 |
| COX6C | 2,051815 | 2,24E-24 |
| HIGD2A | 2,045639 | 2,21E-32 |
| THOC6 | 2,044359 | 1,86E-09 |
| CRB3 | 2,041261 | 4,04E-06 |
| NMB | 2,041243 | 1,40E-07 |
| AHR | 2,039354 | 3,64E-27 |
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| SNHG25 | 2,036844 | 2,68E-08 |
| TET1 | 2,033618 | 1,99E-05 |
| ENSA | 2,030845 | 7,81E-37 |

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| ST20 | 2,030552 | 5,06E-05 |
| ROGDI | 2,030395 | 8,37E-16 |
| DBNDD1 | 2,028349 | 7,77E-18 |
| TCEA3 | 2,027118 | 7,71E-19 |
| MC1R | 2,025978 | 4,39E-06 |
| ZNF687 | 2,024515 | 1,94E-28 |
| TBC1D9 | 2,02346 | 1,79E-17 |
| SIPA1L2 | 2,022969 | 1,69E-15 |
| RABIF | 2,022271 | 9,34E-17 |
| TMEM141 | 2,018944 | 3,02E-22 |
| SAYS1 | 2,01787 | 2,86E-16 |
| GABPB2 | 2,016853 | 3,68E-09 |
| SRD5A3 | 2,009213 | 4,35E-13 |
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| ABHD11 | 2,007575 | 3,97E-14 |
| ZNF829 | 2,007343 | 2,22E-08 |
| MPC1 | 2,005527 | 1,19E-06 |
| CCNG2 | 2,004081 | 8,68E-06 |
| LOC101927 | 2,003296 | 1,75E-05 |
| ECH1 | 2,002881 | 9,33E-17 |
| ZNF572 | 1,994035 | 5,19E-05 |
| PDE4A | 1,993362 | 3,85E-06 |
| THEM6 | 1,9929 | 3,66E-17 |
| CCDC121 | 1,986166 | 0,000601 |
| ABCA2 | 1,985621 | 1,88E-12 |
| SEPW1 | 1,984439 | 5,29E-10 |
| MIR600HG | 1,982662 | 2,81E-05 |
| KREMEN1 | 1,976824 | 1,18E-12 |
| ELOVL7 | 1,975195 | 6,71E-13 |
| LOC100506 | 1,973964 | 1,17E-05 |
| VWA1 | 1,968207 | 4,82E-08 |
| ZNRF3 | 1,960734 | 1,02E-29 |
| ZNF595 | 1,960423 | 7,60E-10 |
| ZNF48 | 1,959576 | 6,31E-06 |
| POGZ | 1,957371 | 4,98E-12 |
| SIKE1 | 1,956016 | 8,85E-26 |
| DDX59 | 1,954075 | 1,80E-06 |
| GUCY1A2 | 1,953944 | 7,28E-09 |
| PDE4D | 1,95343 | 2,24E-06 |
| IPO5P1 | 1,951811 | 1,63E-06 |
| STRA13 | 1,951806 | 4,64E-21 |
| FAM86EP | 1,951769 | 2,38E-05 |
| ERV3-1 | 1,949722 | 3,83E-09 |
| MANSC1 | 1,94751 | 6,37E-06 |
| MSRB2 | 1,946047 | 3,80E-16 |
| COA5 | 1,945783 | 7,74E-13 |
| FBXW9 | 1,944484 | 9,13E-15 |
| RBM8A | 1,943696 | 2,37E-27 |
| IGFLR1 | 1,942304 | 0,00038 |
| GPR160 | 1,935428 | 4,00E-06 |

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| SNAPC5 | 1,934273 | 8,01E-12 |
| CCPG1 | 1,929971 | 3,25E-10 |
| IDNK | 1,929051 | 7,77E-07 |
| KDM6B | 1,928833 | 5,56E-18 |
| PRKCH | 1,928279 | 4,38E-08 |
| KDM5B | 1,92559 | 3,30E-11 |
| APRT | 1,922983 | 1,31E-29 |
| ZBTB7B | 1,922673 | 5,11E-23 |
| ZNRF1 | 1,919419 | 5,26E-22 |
| PITPNA-AS1 | 1,918554 | 0,000148 |
| EMP2 | 1,916966 | 8,75E-10 |
| FLJ37453 | 1,916827 | 0,000521 |
| LYSMD1 | 1,914946 | 7,37E-11 |
| RNF115 | 1,912538 | 4,20E-22 |
| FKBPL | 1,911745 | 1,36E-10 |
| ADI1 | 1,907981 | 4,48E-20 |
| ZNF117 | 1,907665 | 9,95E-10 |
| FBXW4 | 1,906891 | 9,61E-14 |
| MAPK8IP1 | 1,901347 | 8,55E-13 |
| GAS5 | 1,900394 | 4,56E-05 |
| ZSCAN29 | 1,899377 | 2,36E-09 |
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| C16orf46 | 1,898082 | 8,20E-06 |
| CCDC24 | 1,89647 | 3,44E-05 |
| ISL2 | 1,8955 | 0,00029 |
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| MTL5 | 1,893583 | 1,99E-06 |
| TSEN54 | 1,893139 | 1,72E-15 |
| ANKRD16 | 1,889692 | 3,28E-06 |
| NSUN7 | 1,888577 | 3,25E-05 |
| OBFC1 | 1,888482 | 5,88E-07 |
| EVPL | 1,884409 | 1,01E-13 |
| C14orf80 | 1,8824 | 2,16E-15 |
| ZSCAN21 | 1,882254 | 3,79E-14 |
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| TST | 1,872894 | 1,15E-06 |
| PACS2 | 1,869821 | 1,28E-21 |
| CBX8 | 1,869051 | 6,75E-07 |
| OCLN | 1,865536 | 6,19E-07 |
| C6orf48 | 1,86144 | 1,66E-05 |
| PARD6B | 1,85881 | 9,91E-22 |
| ATP6V1E2 | 1,858808 | 0,000551 |
| C9orf16 | 1,858239 | 2,42E-12 |
| ETNK2 | 1,857154 | 4,93E-06 |
| ZNF43 | 1,85598 | 7,47E-17 |
| PWWP2B | 1,855338 | 2,99E-14 |
| METRNL | 1,854535 | 9,53E-14 |
| ZFAS1 | 1,853275 | 0,000629 |
| HOMER2 | 1,850528 | 3,79E-15 |
| C3orf14 | 1,850205 | 2,93E-13 |

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| TNPO2 | 1,84809 | 3,80E-08 |
| ADAL | 1,845786 | 3,66E-07 |
| SPINT2 | 1,843521 | 3,54E-27 |
| ATAD2B | 1,842863 | 2,26E-07 |
| PATZ1 | 1,8419 | 3,88E-11 |
| PGM2L1 | 1,841595 | 2,43E-10 |
| CSK | 1,839011 | 7,48E-10 |
| GABBR1 | 1,834992 | 4,37E-05 |
| KLF4 | 1,833229 | 7,15E-07 |
| OARD1 | 1,833143 | 4,37E-13 |
| RHOD | 1,830081 | 1,71E-06 |
| GLI4 | 1,828022 | 6,02E-06 |
| PCOLCE | 1,827466 | 7,55E-05 |
| PP7080 | 1,827343 | 3,14E-10 |
| PSMD5-AS: | 1,826244 | 3,31E-06 |
| GBAP1 | 1,825275 | 7,88E-06 |
| C8orf82 | 1,825195 | 3,08E-13 |
| THNSL2 | 1,823537 | 4,05E-05 |
| HDAC5 | 1,82076 | 2,15E-06 |
| ABCD1 | 1,818409 | 0,00057 |
| SLC50A1 | 1,818105 | 1,41E-16 |
| ZNF252P | 1,814197 | 1,09E-17 |
| OGDHL | 1,813466 | 7,63E-07 |
| RAB27B | 1,811788 | 1,22E-08 |
| ARG2 | 1,811146 | 0,000147 |
| COX5B | 1,808161 | 2,99E-25 |
| TPRN | 1,807805 | 2,97E-11 |
| NQO2 | 1,805988 | 5,96E-15 |
| ASNS | 1,805845 | 1,52E-05 |
| PLEKHO1 | 1,805004 | 6,22E-16 |
| EPHX2 | 1,804143 | 0,000635 |
| COMTD1 | 1,801942 | 3,08E-11 |
| ZNF627 | 1,801036 | 3,28E-13 |
| WWOX | 1,797486 | 3,05E-09 |
| SCD5 | 1,788683 | 2,56E-07 |
| LRRC75A-A | 1,782981 | 9,87E-08 |
| CYTH2 | 1,781121 | 2,75E-19 |
| PLEKHH3 | 1,780553 | 0,000303 |
| HDDC3 | 1,778903 | 1,48E-08 |
| CYP2J2 | 1,776492 | 4,22E-05 |
| ZFAND2A | 1,775403 | 6,32E-08 |
| SPATC1L | 1,774551 | 4,32E-05 |
| ATXN7L3B | 1,77364 | 1,10E-28 |
| TMEM254 | 1,772268 | 1,09E-11 |
| GPR89B | 1,772157 | 7,47E-05 |
| ZNF3 | 1,771917 | 5,85E-16 |
| PCBD2 | 1,771361 | 1,58E-05 |
| SLC25A10 | 1,770013 | 1,24E-19 |
| PPM1L | 1,769984 | 0,000267 |
| SLC22A18 | 1,767483 | 3,14E-06 |

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| PAQR4 | 1,767117 | 3,08E-22 |
| DLD | 1,767111 | 2,57E-10 |
| TRAF4 | 1,76566 | 1,07E-23 |
| E2F2 | 1,763265 | 0,000663 |
| TACO1 | 1,763086 | 2,39E-23 |
| FAM171B | 1,761884 | 1,27E-08 |
| ALDH6A1 | 1,760956 | 1,25E-14 |
| ZIC1 | 1,758828 | 1,28E-05 |
| RSBN1 | 1,753511 | 6,99E-11 |
| NOL3 | 1,751978 | 9,09E-10 |
| KCTD15 | 1,751904 | 4,64E-05 |
| JARID2 | 1,751395 | 1,76E-18 |
| RHPN1 | 1,749609 | 2,74E-09 |
| ZNF184 | 1,749495 | 2,40E-12 |
| TDG | 1,74883 | 1,82E-21 |
| PNPLA8 | 1,746555 | 3,81E-05 |
| ATXN7L1 | 1,7454 | 2,82E-08 |
| PTPRU | 1,744021 | 1,29E-09 |
| PSD4 | 1,743549 | 8,26E-10 |
| NFYA | 1,737901 | 3,80E-11 |
| ZNF287 | 1,73742 | 3,27E-05 |
| HARS2 | 1,736682 | 2,24E-17 |
| CBLL1 | 1,734769 | 2,10E-16 |
| MZT2B | 1,734738 | 4,34E-12 |
| NAPG | 1,733509 | 2,84E-09 |
| ZNF821 | 1,729042 | 2,22E-05 |
| SLC16A13 | 1,728545 | 0,000528 |
| CREG1 | 1,726799 | 4,21E-15 |
| SMG7 | 1,725565 | 6,84E-25 |
| NUDT14 | 1,725548 | 4,04E-12 |
| ARHGEF35 | 1,72518 | 0,000143 |
| EPHB4 | 1,723866 | 3,38E-27 |
| NUDT3 | 1,722233 | 8,96E-08 |
| PLXDC2 | 1,72149 | 6,77E-08 |
| RPP40 | 1,719833 | 2,68E-10 |
| UBE2T | 1,719245 | 9,73E-16 |
| RAB3IP | 1,715905 | 5,40E-19 |
| ALDH16A1 | 1,715161 | 2,35E-12 |
| ZNF786 | 1,713578 | 3,65E-13 |
| RAB15 | 1,711611 | 6,98E-13 |
| GALNT18 | 1,709604 | 0,000192 |
| RPRD1A | 1,709456 | 1,05E-18 |
| SLC29A4 | 1,706703 | 3,16E-10 |
| DGCR6L | 1,705664 | 1,37E-16 |
| ALKBH4 | 1,704876 | 2,25E-08 |
| HSCB | 1,704364 | 1,47E-08 |
| ZNF85 | 1,702434 | 4,24E-10 |
| ZNF653 | 1,699191 | 5,97E-05 |
| EXD2 | 1,698477 | 2,07E-16 |
| SLC3A2 | 1,698118 | 2,41E-21 |

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| PRSS23 | 1,69808 | 4,48E-08 |
| MIF4GD | 1,694949 | 1,91E-07 |
| SERTAD3 | 1,69461 | 9,27E-07 |
| NSD1 | 1,6938 | 3,90E-26 |
| GPR89A | 1,692762 | 1,04E-07 |
| ISOC1 | 1,692276 | 2,51E-17 |
| FLJ42627 | 1,689627 | 0,000331 |
| ZNF425 | 1,687662 | 3,14E-06 |
| LOC104966 | 1,686623 | 0,000414 |
| HEXDC | 1,685924 | 5,92E-07 |
| BRWD1 | 1,684039 | 1,76E-15 |
| DANCR | 1,682698 | 7,50E-10 |
| GSTA4 | 1,681126 | 3,10E-05 |
| HILPDA | 1,675813 | 7,45E-08 |
| MXD3 | 1,67566 | 8,74E-08 |
| WDR73 | 1,675025 | 5,19E-15 |
| SNRPE | 1,672792 | 2,83E-23 |
| GTF3A | 1,669102 | 9,85E-23 |
| HBP1 | 1,665234 | 9,72E-05 |
| DMPK | 1,663759 | 4,96E-07 |
| NRAS | 1,663023 | 4,82E-15 |
| DHPS | 1,662845 | 4,24E-14 |
| MAML1 | 1,659999 | 2,87E-11 |
| CDC25C | 1,656653 | 0,000205 |
| CHMP1B | 1,655761 | 1,06E-13 |
| BCKDHA | 1,652844 | 1,61E-11 |
| KIF27 | 1,652026 | 0,000724 |
| TMC5 | 1,648705 | 0,000411 |
| DOCK6 | 1,648425 | 4,01E-12 |
| CBWD2 | 1,646989 | 6,08E-10 |
| TATDN1 | 1,646135 | 6,33E-16 |
| RNF5 | 1,645704 | 6,71E-09 |
| ZNF569 | 1,644548 | 2,10E-05 |
| TRIM41 | 1,642613 | 6,40E-13 |
| CDC25B | 1,641436 | 1,02E-14 |
| ZNF14 | 1,639776 | 0,000421 |
| PARP6 | 1,639656 | 4,37E-08 |
| TRIM45 | 1,63943 | 3,68E-05 |
| RMND5A | 1,638852 | 1,90E-13 |
| C15orf61 | 1,63643 | 1,87E-05 |
| MPV17L2 | 1,635705 | 6,81E-11 |
| ZNF628 | 1,634885 | 1,88E-09 |
| N4BP2 | 1,634299 | 2,07E-07 |
| CERCAM | 1,634183 | 5,88E-05 |
| PRADC1 | 1,632957 | 2,78E-05 |
| DTNB | 1,631973 | 1,06E-08 |
| FCHO1 | 1,631875 | 1,69E-15 |
| LDOC1 | 1,630616 | 2,08E-09 |
| ACACB | 1,629948 | 2,45E-09 |
| RAB33B | 1,628877 | 0,000218 |

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| EDC3 | 1,628271 | 9,71E-11 |
| FAM117B | 1,627442 | 3,66E-09 |
| ARRB2 | 1,625844 | 1,11E-14 |
| RAB30 | 1,62417 | 2,22E-06 |
| MEX3B | 1,623727 | 4,80E-11 |
| PGBD2 | 1,622252 | 0,000125 |
| TPD52L1 | 1,62217 | 1,55E-06 |
| PRDM4 | 1,620696 | 2,68E-23 |
| TMEM168 | 1,6128 | 2,06E-13 |
| IRF2BP1 | 1,611058 | 4,27E-10 |
| EZH2 | 1,609127 | 5,56E-07 |
| ICAM3 | 1,606861 | 9,05E-05 |
| MAZ | 1,605506 | 5,86E-16 |
| GPATCH2 | 1,598111 | 1,02E-09 |
| GALNT6 | 1,596687 | 7,12E-06 |
| DYNLL2 | 1,596291 | 7,56E-20 |
| ABHD16A | 1,595853 | 1,33E-12 |
| CHD6 | 1,595619 | 9,84E-20 |
| UPF3B | 1,59479 | 7,05E-08 |
| RPRD2 | 1,59466 | 2,57E-17 |
| UBL3 | 1,594314 | 3,85E-08 |
| ENDOG | 1,593361 | 6,25E-10 |
| ABCC10 | 1,592008 | 1,39E-08 |
| MRPS21 | 1,590781 | 1,58E-18 |
| SLC25A29 | 1,586224 | 6,16E-13 |
| GTF2IRD2B | 1,584579 | 2,79E-07 |
| TLE3 | 1,583143 | 1,11E-21 |
| PHYKPL | 1,582337 | 0,000106 |
| P3H4 | 1,581888 | 2,84E-14 |
| INTS3 | 1,581884 | 6,23E-19 |
| KIFC2 | 1,580916 | 1,89E-07 |
| SLC25A39 | 1,576125 | 1,53E-23 |
| ATP6V0E2 | 1,571539 | 1,24E-06 |
| PRUNE | 1,569745 | 9,00E-13 |
| ZNF816 | 1,569723 | 8,98E-07 |
| ZNF618 | 1,569634 | 5,76E-18 |
| SLC9A3R1 | 1,56699 | 2,17E-08 |
| ARRDC1 | 1,566696 | 1,04E-11 |
| SEC11C | 1,566489 | 7,05E-07 |
| DUSP23 | 1,566329 | 6,93E-09 |
| NGRN | 1,564702 | 7,08E-21 |
| PAFAH1B3 | 1,563703 | 5,84E-15 |
| DSC2 | 1,561074 | 1,02E-11 |
| C14orf2 | 1,559491 | 1,01E-15 |
| HAGH | 1,559293 | 5,54E-06 |
| LRRC45 | 1,556621 | 5,81E-12 |
| ZNF480 | 1,554855 | 5,83E-09 |
| CDC42BPG | 1,554421 | 1,29E-05 |
| TRMT12 | 1,554306 | 5,79E-10 |
| RUSC1 | 1,550263 | 2,48E-11 |

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| PNMA1 | 1,549977 | 7,66E-11 |
| NAAA | 1,545764 | 2,65E-05 |
| LRFN3 | 1,545355 | 5,72E-06 |
| PPP1R13B | 1,544826 | 1,62E-08 |
| ECI1 | 1,543203 | 1,11E-13 |
| KCTD1 | 1,542665 | 1,93E-06 |
| OIP5-AS1 | 1,542148 | 3,16E-09 |
| SULF2 | 1,541609 | 4,33E-09 |
| IDH2 | 1,53825 | 2,09E-19 |
| HOXC10 | 1,537991 | 1,49E-10 |
| ZC3H10 | 1,533814 | 1,08E-05 |
| NDUFB9 | 1,533112 | 1,20E-10 |
| EFNA1 | 1,533018 | 0,000307 |
| MYL12B | 1,532813 | 1,29E-18 |
| NUDT4 | 1,531713 | 5,29E-09 |
| ACSF3 | 1,5313 | 2,15E-13 |
| RPAIN | 1,530425 | 1,22E-11 |
| ZKSCAN1 | 1,52871 | 3,19E-15 |
| PDE7A | 1,528217 | 2,14E-07 |
| JOSD2 | 1,527757 | 0,000115 |
| TOB1 | 1,527733 | 1,56E-07 |
| JTB | 1,525035 | 7,58E-15 |
| ID1 | 1,524201 | 0,000122 |
| ZNF138 | 1,524171 | 3,28E-09 |
| RAD23A | 1,523598 | 2,38E-17 |
| RNASEH1- A | 1,523381 | 7,58E-08 |
| TOR3A | 1,523363 | 2,54E-14 |
| ZSCAN2 | 1,523296 | 1,53E-09 |
| GRK6 | 1,52009 | 3,48E-16 |
| KCTD13 | 1,51858 | 9,87E-08 |
| COIL | 1,517426 | 2,73E-05 |
| ADIPOR1 | 1,51726 | 2,81E-07 |
| EXOSC5 | 1,517195 | 1,48E-06 |
| MALAT1 | 1,516656 | 3,72E-06 |
| DUS4L | 1,513572 | 7,28E-08 |
| RAB24 | 1,509832 | 3,67E-07 |
| FAM50B | 1,508813 | 1,18E-07 |
| TRIB1 | 1,507822 | 3,92E-08 |
| RP9 | 1,50756 | 1,49E-06 |
| SRPK2 | 1,506643 | 2,24E-15 |
| PYCARD | 1,506346 | 6,22E-05 |
| METTL2A | 1,505545 | 5,73E-12 |
| NECAB3 | 1,505224 | 3,13E-05 |
| CASZ1 | 1,50189 | 0,000172 |
| RRBP1 | 1,500525 | 8,36E-07 |
| BPTF | 1,498528 | 1,16E-19 |
| ATP5I | 1,49839 | 1,76E-16 |
| POLR2J | 1,49771 | 5,04E-10 |
| ATP5S | 1,496317 | 0,000379 |
| BMP2 | 1,496263 | 3,22E-10 |

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| FAM193B | 1,495981 | 3,10E-06 |
| PACSIN3 | 1,495808 | 3,84E-14 |
| DDX49 | 1,494249 | 4,50E-14 |
| TPCN2 | 1,493935 | 6,88E-06 |
| ORC5 | 1,491379 | 2,63E-05 |
| CEP76 | 1,491207 | 0,000303 |
| FLJ23867 | 1,490059 | 5,13E-06 |
| BCL7A | 1,489947 | 8,42E-10 |
| TBC1D9B | 1,489875 | 2,98E-16 |
| DNAAF2 | 1,486262 | 2,54E-11 |
| ATXN3 | 1,485747 | 3,56E-07 |
| ILVBL | 1,483438 | 1,67E-16 |
| POLR1D | 1,482147 | 5,56E-17 |
| L2HGDH | 1,480757 | 7,12E-12 |
| FUNDC2 | 1,480443 | 6,90E-11 |
| TARS2 | 1,476779 | 2,61E-09 |
| FIS1 | 1,476166 | 1,90E-13 |
| PDCL3 | 1,47549 | 2,95E-09 |
| ABCA7 | 1,475094 | 0,000757 |
| CCDC97 | 1,473313 | 4,70E-12 |
| PRR3 | 1,473248 | 1,68E-05 |
| RALGDS | 1,469956 | 5,42E-11 |
| C6orf47 | 1,466296 | 1,36E-12 |
| C19orf43 | 1,465943 | 1,04E-18 |
| KANSL1L | 1,465389 | 0,000273 |
| ZNF398 | 1,464471 | 8,89E-15 |
| H2AFY2 | 1,463608 | 6,17E-08 |
| LINC00674 | 1,463297 | 2,01E-08 |
| TBC1D7 | 1,460546 | 9,25E-08 |
| COBLL1 | 1,460093 | 4,41E-06 |
| SORD | 1,459832 | 1,80E-16 |
| PRPF3 | 1,4587 | 1,50E-06 |
| ZNF710 | 1,456546 | 7,54E-09 |
| CROCC | 1,456025 | 1,51E-05 |
| GIN1 | 1,45588 | 6,54E-05 |
| ATG4D | 1,454948 | 3,57E-06 |
| PIF1 | 1,454519 | 0,000546 |
| FBXO31 | 1,453293 | 1,88E-12 |
| SFXN4 | 1,45255 | 2,05E-10 |
| ZFP36 | 1,451689 | 8,65E-06 |
| HMG20B | 1,451188 | 1,85E-17 |
| SEPHS2 | 1,450793 | 1,02E-15 |
| TYSND1 | 1,450791 | 1,41E-12 |
| SNHG7 | 1,450144 | 3,95E-10 |
| CCDC101 | 1,449379 | 1,28E-06 |
| ACTR6 | 1,446743 | 1,05E-08 |
| PPIP5K1 | 1,4444 | 5,04E-06 |
| ATMIN | 1,443798 | 3,13E-15 |
| THAP7 | 1,443259 | 6,02E-08 |
| ZNF33B | 1,442767 | 1,77E-07 |

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| SLC25A43 | 1,442365 | 2,74E-09 |
| MTMR4 | 1,4413 | 4,16E-14 |
| NUCKS1 | 1,440085 | 6,17E-16 |
| WDR60 | 1,439334 | 4,03E-08 |
| ACOX3 | 1,438806 | 1,44E-05 |
| SAMD1 | 1,438533 | 2,93E-09 |
| ZBTB22 | 1,436147 | 2,26E-07 |
| BCAM | 1,43502 | 7,43E-08 |
| F8A1 | 1,434772 | 5,73E-06 |
| SMDT1 | 1,434168 | 4,71E-06 |
| MFSD2A | 1,43197 | 2,55E-05 |
| FITM2 | 1,431775 | 3,05E-05 |
| UBN2 | 1,428582 | 7,00E-09 |
| STMN3 | 1,428122 | 3,57E-06 |
| ASNA1 | 1,426468 | 1,24E-17 |
| FAM120AC | 1,426232 | 8,93E-11 |
| ZNF514 | 1,425998 | 4,04E-05 |
| FLAD1 | 1,4232 | 5,07E-15 |
| FAM206A | 1,422883 | 3,09E-06 |
| EPC1 | 1,421949 | 2,61E-11 |
| ITPKB | 1,421372 | 2,21E-05 |
| C14orf132 | 1,421068 | 6,77E-08 |
| SURF1 | 1,419919 | 2,13E-06 |
| STX6 | 1,419762 | 6,26E-13 |
| LINC00938 | 1,416554 | 0,000611 |
| KIAA1958 | 1,4161 | 2,04E-07 |
| PSMD4 | 1,415487 | 2,09E-19 |
| SLC27A4 | 1,414754 | 6,56E-06 |
| ZBTB5 | 1,412679 | 4,16E-07 |
| CGRRF1 | 1,41163 | 0,000627 |
| CENPB | 1,409602 | 4,98E-17 |
| ANKRD13B | 1,407724 | 1,07E-08 |
| RARG | 1,407569 | 1,56E-08 |
| CNNM3 | 1,402915 | 7,94E-08 |
| TMED3 | 1,402225 | 4,55E-09 |
| BBS10 | 1,40215 | 1,51E-05 |
| STK19 | 1,401946 | 2,93E-05 |
| MAP3K6 | 1,401428 | 9,44E-08 |
| CDC42SE1 | 1,398722 | 4,39E-10 |
| PPAP2A | 1,397232 | 1,67E-05 |
| C1orf43 | 1,396714 | 1,87E-13 |
| UBAC1 | 1,396665 | 1,22E-13 |
| NARF | 1,39158 | 0,000406 |
| EIF4EBP2 | 1,390731 | 2,57E-06 |
| TBCC | 1,39002 | 9,78E-08 |
| RUFY1 | 1,389827 | 4,57E-09 |
| SLC44A2 | 1,389177 | 1,66E-11 |
| CNOT8 | 1,388763 | 2,16E-11 |
| ZNF592 | 1,387019 | 1,03E-09 |
| CBS | 1,386494 | 1,58E-08 |

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| NR2F6 | 1,385107 | 8,86E-07 |
| DCP2 | 1,384963 | 2,35E-12 |
| CHRNA5 | 1,382184 | 2,29E-09 |
| VTI1B | 1,376404 | 1,56E-07 |
| ZBTB9 | 1,376013 | 7,97E-09 |
| FAM72D | 1,37587 | 0,000957 |
| PARP16 | 1,375123 | 3,10E-05 |
| MORC2 | 1,372516 | 3,79E-12 |
| AMER1 | 1,372117 | 1,37E-06 |
| PPIC | 1,371718 | 5,79E-08 |
| MRPS18A | 1,369796 | 1,12E-12 |
| TMBIM4 | 1,369615 | 2,23E-07 |
| VAR52 | 1,365918 | 3,74E-08 |
| ANKRD39 | 1,364679 | 2,99E-05 |
| FLOT2 | 1,364621 | 4,51E-08 |
| WIBG | 1,364158 | 3,10E-08 |
| APH1A | 1,364087 | 2,79E-15 |
| CKB | 1,364005 | 9,40E-06 |
| LMNB1 | 1,362999 | 1,66E-10 |
| C19orf60 | 1,362383 | 4,69E-08 |
| ZNF718 | 1,362311 | 5,79E-05 |
| ZNF254 | 1,36112 | 1,75E-07 |
| CRIP2 | 1,360585 | 1,62E-12 |
| ZNF607 | 1,360134 | 8,41E-07 |
| C14orf142 | 1,356756 | 1,28E-05 |
| PIGM | 1,356154 | 2,84E-05 |
| MPZL3 | 1,355451 | 0,000235 |
| PIGB | 1,354884 | 4,01E-06 |
| ZFP1 | 1,353978 | 4,52E-07 |
| TEF | 1,353923 | 0,000605 |
| DDX41 | 1,353748 | 2,06E-15 |
| CLN6 | 1,353063 | 4,03E-15 |
| TMEM79 | 1,351197 | 2,77E-05 |
| CHCHD5 | 1,35111 | 4,55E-07 |
| BNIP3 | 1,348363 | 4,04E-10 |
| BOD1 | 1,347495 | 2,75E-06 |
| GOLPH3L | 1,347056 | 0,000227 |
| IDH1 | 1,346768 | 1,09E-16 |
| C7orf43 | 1,346686 | 1,47E-06 |
| LAMTOR2 | 1,344209 | 4,18E-11 |
| ZNF766 | 1,344175 | 9,17E-10 |
| HAX1 | 1,340957 | 5,41E-15 |
| RALBP1 | 1,338897 | 7,78E-08 |
| RPS18 | 1,335588 | 7,28E-06 |
| SNX27 | 1,335085 | 1,47E-10 |
| TEX2 | 1,333428 | 8,08E-10 |
| PTRH2 | 1,332454 | 5,49E-09 |
| SH2B2 | 1,332168 | 0,000162 |
| PCDHGC3 | 1,331745 | 0,000268 |
| H1FX | 1,33097 | 1,63E-06 |

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| C9orf114 | 1,329363 | 3,79E-07 |
| KIAA0195 | 1,327181 | 5,29E-10 |
| MIF-AS1 | 1,327119 | 7,03E-06 |
| CINP | 1,326595 | 0,00019 |
| KLHDC3 | 1,325751 | 6,10E-07 |
| COX6B1 | 1,325317 | 1,39E-09 |
| TRAPPC13 | 1,322413 | 3,13E-07 |
| MARK3 | 1,321916 | 1,41E-07 |
| EIF3K | 1,321342 | 2,01E-08 |
| IFT22 | 1,320591 | 1,86E-11 |
| ZSCAN9 | 1,319561 | 0,000571 |
| ARHGAP39 | 1,318249 | 9,25E-05 |
| SURF2 | 1,317449 | 7,43E-09 |
| TRIM39 | 1,317446 | 0,000174 |
| ENTPD5 | 1,315403 | 0,000457 |
| SLIRP | 1,314654 | 2,32E-07 |
| CCDC112 | 1,314605 | 4,05E-05 |
| PPP4R3A | 1,313882 | 4,82E-13 |
| TMEM161 | 1,313745 | 2,03E-05 |
| DHFRL1 | 1,311467 | 1,82E-05 |
| SCYL3 | 1,310067 | 0,000164 |
| FAM213A | 1,309754 | 2,63E-05 |
| TMEM205 | 1,309164 | 1,89E-06 |
| ZNF431 | 1,308815 | 1,16E-05 |
| ZNF557 | 1,308411 | 9,64E-05 |
| ARL4A | 1,30814 | 1,47E-09 |
| MYO1D | 1,30562 | 8,61E-06 |
| AP5M1 | 1,305431 | 2,59E-07 |
| GAA | 1,305145 | 5,04E-06 |
| DHRS7B | 1,304552 | 1,59E-06 |
| PSMA3-AS1 | 1,304373 | 0,000112 |
| PMVK | 1,303454 | 3,45E-08 |
| TNK1 | 1,302765 | 2,12E-06 |
| HNRNPAB | 1,302352 | 3,87E-15 |
| DYM | 1,300774 | 1,00E-11 |
| TMEM134 | 1,298619 | 7,44E-05 |
| SIPA1L1 | 1,297727 | 3,36E-11 |
| SNRPA1 | 1,296739 | 1,20E-11 |
| GCLC | 1,296571 | 3,04E-07 |
| RPS29 | 1,296345 | 2,95E-06 |
| BNIP1 | 1,296174 | 0,000756 |
| CACNB3 | 1,294821 | 5,67E-10 |
| ZNF93 | 1,294771 | 5,55E-07 |
| ZNF839 | 1,2942 | 0,000291 |
| GADD45GII | 1,292725 | 1,89E-05 |
| SIVA1 | 1,292304 | 1,33E-07 |
| SPHK2 | 1,292007 | 1,02E-06 |
| PFKL | 1,290659 | 4,23E-10 |
| SGPL1 | 1,289452 | 4,00E-10 |
| RINT1 | 1,28878 | 8,94E-06 |

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| VMP1 | 1,288239 | 1,38E-08 |
| PUS7 | 1,287764 | 9,65E-07 |
| XXYL1 | 1,285903 | 6,38E-11 |
| ZNF675 | 1,284236 | 1,47E-05 |
| HSPB1 | 1,283988 | 2,14E-07 |
| MYL12A | 1,283186 | 1,70E-10 |
| TMEM185F | 1,280664 | 7,85E-09 |
| H3F3B | 1,276933 | 5,57E-16 |
| RBAK | 1,27681 | 2,65E-09 |
| TMEM64 | 1,2758 | 6,29E-12 |
| ZNF524 | 1,275505 | 9,93E-05 |
| ICK | 1,274747 | 3,88E-09 |
| FARSA | 1,274338 | 1,22E-07 |
| TIGD6 | 1,273967 | 0,000322 |
| TLK2 | 1,273486 | 0,000186 |
| PITX1 | 1,273249 | 8,86E-09 |
| MRPS18C | 1,272793 | 5,15E-08 |
| STAP2 | 1,271932 | 2,68E-06 |
| RNMTL1 | 1,27127 | 1,29E-07 |
| PYGO2 | 1,271099 | 6,75E-10 |
| ZNF771 | 1,270292 | 0,000648 |
| OTUD7B | 1,270072 | 2,03E-11 |
| SIX4 | 1,265772 | 2,22E-06 |
| TRIM26 | 1,264596 | 2,39E-09 |
| BCAP31 | 1,264373 | 1,49E-08 |
| SERF2 | 1,264052 | 4,67E-08 |
| ADCK2 | 1,26366 | 5,82E-06 |
| CTBP1-AS2 | 1,262355 | 2,81E-05 |
| PAN2 | 1,261705 | 0,000122 |
| NDUFA13 | 1,261085 | 1,92E-12 |
| CXorf23 | 1,255612 | 0,000254 |
| FLYWCH2 | 1,254953 | 3,07E-06 |
| NELFE | 1,253657 | 3,56E-13 |
| UHRF1BP1 | 1,253474 | 2,55E-05 |
| SIRT5 | 1,251422 | 3,95E-07 |
| AIMP2 | 1,250537 | 3,90E-11 |
| TPD52 | 1,249715 | 2,22E-10 |
| TP53TG1 | 1,249601 | 0,000179 |
| THOC7 | 1,249052 | 6,97E-12 |
| CALM1 | 1,248208 | 1,54E-06 |
| AADAT | 1,248081 | 0,000306 |
| RBM4 | 1,247185 | 4,48E-09 |
| MED13 | 1,246786 | 3,65E-14 |
| ZNF616 | 1,246582 | 2,97E-07 |
| IGF1R | 1,244291 | 7,23E-10 |
| OXLD1 | 1,244122 | 0,000253 |
| MEA1 | 1,243672 | 2,04E-12 |
| CYB5D2 | 1,243315 | 2,95E-05 |
| FRS2 | 1,243175 | 4,72E-05 |
| FAM3A | 1,24313 | 4,55E-07 |

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| ZNF219 | 1,242669 | 5,60E-06 |
| RPS14 | 1,241822 | 1,12E-09 |
| D2HGDH | 1,241553 | 1,18E-05 |
| NKRF | 1,239361 | 4,19E-08 |
| SQLE | 1,238515 | 1,50E-09 |
| FZD3 | 1,236343 | 0,000183 |
| ZNF212 | 1,234692 | 1,66E-06 |
| FAM83H | 1,233496 | 8,49E-09 |
| DARS2 | 1,233013 | 2,67E-11 |
| IQCK | 1,232595 | 3,19E-05 |
| PVT1 | 1,231738 | 0,000132 |
| PCLO | 1,231017 | 4,81E-05 |
| C19orf52 | 1,230564 | 1,43E-05 |
| CCDC47 | 1,230343 | 6,40E-10 |
| ZRANB1 | 1,22812 | 6,25E-08 |
| THNSL1 | 1,227878 | 1,13E-08 |
| OBSL1 | 1,22742 | 0,00025 |
| CUL7 | 1,227213 | 1,13E-05 |
| SUPT4H1 | 1,226992 | 4,27E-10 |
| FEM1B | 1,226906 | 7,28E-10 |
| ETFA | 1,226015 | 1,60E-06 |
| MAP2K5 | 1,225737 | 6,94E-07 |
| ARF5 | 1,225282 | 2,81E-12 |
| LINC00665 | 1,223395 | 4,15E-05 |
| ZNF429 | 1,222025 | 3,17E-05 |
| DLG3 | 1,221698 | 3,88E-09 |
| ZNF286A | 1,220687 | 2,31E-07 |
| ZNF33A | 1,219815 | 1,15E-06 |
| RPS11 | 1,219385 | 1,59E-07 |
| CUX1 | 1,21863 | 1,44E-09 |
| NFKBIL1 | 1,218572 | 2,80E-07 |
| DPY19L3 | 1,215584 | 2,87E-06 |
| KRTCAP2 | 1,214514 | 7,10E-11 |
| DTWD2 | 1,213619 | 0,000186 |
| NOL11 | 1,212341 | 1,85E-12 |
| CTSH | 1,212002 | 7,44E-05 |
| CNNM4 | 1,211538 | 3,58E-06 |
| SLC5A6 | 1,211157 | 0,000112 |
| BRPF3 | 1,210367 | 4,32E-08 |
| ELP5 | 1,210053 | 4,11E-08 |
| ZNF620 | 1,209545 | 0,000702 |
| RPS27 | 1,209133 | 7,23E-05 |
| ATP5D | 1,209044 | 5,46E-12 |
| ZNF688 | 1,20864 | 0,000527 |
| EFCAB11 | 1,208074 | 0,000108 |
| OXR1 | 1,207993 | 2,16E-06 |
| MED7 | 1,207745 | 0,000505 |
| PPL | 1,206584 | 0,000429 |
| KNSTRN | 1,205641 | 0,000391 |
| PCGF3 | 1,204711 | 2,41E-09 |

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| NSUN5 | 1,204435 | 7,10E-08 |
| UFC1 | 1,203503 | 0,000284 |
| WDR62 | 1,203137 | 5,65E-07 |
| HKR1 | 1,202247 | 2,81E-05 |
| RPL17 | 1,202198 | 1,59E-06 |
| CKS1B | 1,201859 | 0,000249 |
| PTRHD1 | 1,201371 | 0,000175 |
| ACP2 | 1,201133 | 5,00E-05 |
| RFXANK | 1,200478 | 1,61E-09 |
| FUT8 | 1,199375 | 2,22E-09 |
| ZNF600 | 1,198505 | 0,00044 |
| ZMYM2 | 1,196812 | 5,61E-10 |
| ZNF140 | 1,196658 | 2,92E-05 |
| ZNF91 | 1,196344 | 6,81E-06 |
| BLOC1S3 | 1,195558 | 5,16E-06 |
| MAPK13 | 1,195414 | 6,81E-11 |
| PSMB4 | 1,195133 | 6,12E-09 |
| ZDHHC24 | 1,190346 | 0,001005 |
| UBE2Q1 | 1,189947 | 4,81E-10 |
| SLC52A2 | 1,188135 | 7,56E-09 |
| ZNF444 | 1,187195 | 7,58E-07 |
| GPSM2 | 1,186792 | 2,94E-09 |
| SS18L1 | 1,186622 | 0,00092 |
| CDYL | 1,186273 | 1,39E-08 |
| PPP1R13L | 1,185847 | 0,00039 |
| ZNF768 | 1,184559 | 1,59E-07 |
| TUBB3 | 1,18444 | 5,96E-13 |
| USF2 | 1,183906 | 3,43E-11 |
| ATXN7L3 | 1,183861 | 5,01E-11 |
| POLR2I | 1,183618 | 1,44E-08 |
| PPDPF | 1,182207 | 3,77E-08 |
| PTGR2 | 1,181889 | 0,000336 |
| ACOT13 | 1,181692 | 8,53E-06 |
| CD24 | 1,181403 | 8,65E-07 |
| MRPL57 | 1,180846 | 1,53E-09 |
| SHTN1 | 1,180714 | 8,81E-09 |
| ZNF525 | 1,180115 | 1,73E-05 |
| DUS1L | 1,180113 | 2,86E-07 |
| TAMM41 | 1,179963 | 3,21E-06 |
| GLRX2 | 1,178972 | 3,67E-05 |
| ARNT | 1,176738 | 3,82E-10 |
| TDRD3 | 1,172031 | 7,85E-05 |
| COPE | 1,172003 | 1,78E-10 |
| ANGEL1 | 1,17198 | 4,19E-08 |
| RDH13 | 1,17102 | 1,97E-06 |
| ILF3-AS1 | 1,170629 | 0,000498 |
| C11orf80 | 1,169342 | 0,000126 |
| C7orf26 | 1,169013 | 1,02E-08 |
| KRT10 | 1,168858 | 0,000383 |
| ARID4A | 1,167786 | 3,44E-05 |

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| NUSAP1 | 1,167658 | 1,53E-05 |
| MRFAP1L1 | 1,165937 | 2,05E-09 |
| ARMC10 | 1,165823 | 2,69E-08 |
| RNF113A | 1,165387 | 8,89E-06 |
| NAA10 | 1,164329 | 3,66E-11 |
| EXOSC4 | 1,163997 | 1,66E-08 |
| MRPL9 | 1,163947 | 2,03E-06 |
| CCZ1 | 1,163923 | 9,91E-05 |
| STK38 | 1,162787 | 3,79E-08 |
| PEX1 | 1,162727 | 3,83E-06 |
| SEC11A | 1,162198 | 2,96E-12 |
| ZFP36L2 | 1,160649 | 0,000432 |
| SPATA5L1 | 1,159729 | 0,000322 |
| ATP5A1 | 1,159415 | 7,72E-14 |
| TPT1 | 1,159005 | 1,50E-06 |
| KIF20A | 1,158913 | 1,18E-06 |
| SLC35B2 | 1,157203 | 3,76E-05 |
| RNF130 | 1,157175 | 3,56E-06 |
| PRELID1 | 1,156566 | 5,43E-10 |
| MTERF1 | 1,156521 | 0,000127 |
| SIX1 | 1,156111 | 0,000107 |
| CCDC85C | 1,1549 | 1,78E-10 |
| YIF1A | 1,154567 | 4,11E-10 |
| CISD3 | 1,153285 | 0,000265 |
| C1orf27 | 1,151741 | 2,75E-05 |
| SF3B4 | 1,150994 | 2,46E-12 |
| NT5C | 1,150777 | 0,000139 |
| GNB2L1 | 1,150722 | 2,90E-13 |
| DFNB31 | 1,15047 | 0,000919 |
| ZNF888 | 1,146011 | 0,000222 |
| CTNNBIP1 | 1,145051 | 1,08E-05 |
| HCFC1R1 | 1,144724 | 4,58E-08 |
| MBTD1 | 1,142643 | 0,000419 |
| ARL8A | 1,141311 | 5,16E-09 |
| DENND2D | 1,140864 | 4,96E-07 |
| PLCH1 | 1,140688 | 1,39E-06 |
| EPC2 | 1,14058 | 3,45E-06 |
| NDUFB7 | 1,14025 | 7,60E-11 |
| ZNF777 | 1,138696 | 0,000154 |
| IMP4 | 1,137457 | 2,23E-11 |
| TSPAN17 | 1,13737 | 1,47E-05 |
| VANGL1 | 1,135268 | 1,21E-05 |
| NUDT12 | 1,134553 | 0,00072 |
| IMP3 | 1,132458 | 8,40E-09 |
| CC2D1A | 1,131987 | 9,67E-06 |
| GGCT | 1,130412 | 9,97E-11 |
| H2AFJ | 1,125467 | 0,000103 |
| DNMT3A | 1,125311 | 3,48E-08 |
| ZNF511 | 1,124341 | 2,38E-05 |
| SSR4 | 1,124127 | 5,69E-08 |

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| OFD1 | 1,123445 | 1,60E-05 |
| ALKBH7 | 1,122279 | 7,78E-07 |
| MACROD1 | 1,121271 | 1,08E-05 |
| GOT1 | 1,119167 | 7,14E-07 |
| MRPS12 | 1,119122 | 4,63E-07 |
| RFWD2 | 1,117103 | 3,91E-08 |
| LENG1 | 1,115837 | 0,000976 |
| KLHL25 | 1,115422 | 7,32E-05 |
| SSNA1 | 1,115195 | 1,12E-06 |
| SMG8 | 1,115073 | 8,82E-07 |
| RPL18A | 1,114696 | 3,31E-07 |
| FAM127B | 1,113995 | 2,42E-09 |
| EVL | 1,113245 | 7,31E-07 |
| LDB1 | 1,113149 | 3,81E-09 |
| COX6A1 | 1,111442 | 9,55E-12 |
| EHMT2 | 1,111426 | 1,21E-11 |
| EMC9 | 1,111 | 0,000347 |
| RCOR1 | 1,109622 | 1,18E-08 |
| LMAN2 | 1,109396 | 7,68E-08 |
| ZNF721 | 1,108542 | 7,37E-07 |
| R3HCC1L | 1,107205 | 1,52E-05 |
| EIF2B2 | 1,106704 | 3,13E-09 |
| MCUR1 | 1,106585 | 6,76E-05 |
| HTRA1 | 1,10105 | 5,88E-06 |
| ATP6AP1 | 1,100916 | 6,40E-05 |
| IQCE | 1,099982 | 1,01E-07 |
| GATAD1 | 1,098679 | 0,000315 |
| RPS19 | 1,098594 | 3,98E-07 |
| RPLP1 | 1,098446 | 0,000475 |
| TKFC | 1,098276 | 1,09E-07 |
| NDUFAF7 | 1,09814 | 0,000218 |
| ZNF787 | 1,097921 | 1,12E-07 |
| ORC2 | 1,096729 | 3,12E-05 |
| MRPS36 | 1,09671 | 0,000111 |
| HMGN1 | 1,095538 | 1,14E-09 |
| YIPF2 | 1,095404 | 1,75E-06 |
| NDUFA1 | 1,09502 | 2,12E-07 |
| SEPHS1 | 1,095011 | 1,19E-05 |
| ECHS1 | 1,09385 | 7,62E-08 |
| SRP19 | 1,092837 | 1,48E-06 |
| KNOP1 | 1,091947 | 8,06E-09 |
| TMEM97 | 1,091508 | 1,07E-08 |
| CHD3 | 1,090558 | 7,21E-08 |
| CCNJ | 1,090491 | 1,50E-05 |
| FAM58A | 1,090235 | 8,58E-06 |
| PRPSAP2 | 1,090006 | 0,000567 |
| TRMT2B | 1,089556 | 0,000165 |
| COX7C | 1,089051 | 6,76E-11 |
| PIP5K1A | 1,087698 | 5,88E-05 |
| CYB5A | 1,087095 | 0,000482 |

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| KIFC1 | 1,085756 | 2,23E-05 |
| ZNF260 | 1,084164 | 3,34E-06 |
| NDUFB1 | 1,083106 | 2,27E-06 |
| ZNF701 | 1,083022 | 0,000578 |
| SPG21 | 1,082458 | 2,98E-10 |
| DNAJC2 | 1,080828 | 1,69E-09 |
| DBN1 | 1,079693 | 1,76E-11 |
| PROSER1 | 1,079553 | 2,08E-10 |
| CECR5 | 1,078596 | 2,68E-08 |
| BRD2 | 1,078086 | 4,17E-05 |
| ZNF316 | 1,077122 | 9,31E-09 |
| C7orf50 | 1,076295 | 1,52E-06 |
| NPM3 | 1,075615 | 1,29E-07 |
| ATP5H | 1,072828 | 9,49E-07 |
| MARC1 | 1,070507 | 1,74E-05 |
| SREBF1 | 1,070243 | 1,66E-05 |
| PTPN18 | 1,070185 | 1,74E-07 |
| PSRC1 | 1,068838 | 0,000576 |
| SLC39A9 | 1,068167 | 1,76E-09 |
| STK36 | 1,067138 | 1,02E-05 |
| NDUFA3 | 1,06694 | 3,86E-05 |
| PGGT1B | 1,06591 | 2,01E-05 |
| VPS52 | 1,065669 | 2,07E-09 |
| FAM195A | 1,065639 | 4,41E-07 |
| PRR7 | 1,06491 | 1,72E-06 |
| CNOT6 | 1,063613 | 1,95E-07 |
| UQCC2 | 1,063548 | 0,000222 |
| ATAT1 | 1,062613 | 0,00045 |
| C19orf24 | 1,062087 | 2,87E-05 |
| PANK3 | 1,060915 | 8,75E-08 |
| PSMC5 | 1,060497 | 3,74E-06 |
| CHMP4A | 1,059652 | 6,90E-05 |
| GLRX5 | 1,057494 | 4,86E-06 |
| ECSIT | 1,056573 | 1,53E-06 |
| NSDHL | 1,056435 | 1,29E-06 |
| TMEM11 | 1,054716 | 4,29E-07 |
| PPP1R11 | 1,054686 | 4,11E-06 |
| VPS45 | 1,052955 | 2,93E-06 |
| ZMYM5 | 1,052898 | 0,000449 |
| NDUFA2 | 1,052716 | 2,73E-06 |
| EMC4 | 1,051856 | 6,22E-05 |
| SUCLG1 | 1,051605 | 2,94E-08 |
| TAF7 | 1,050984 | 4,66E-09 |
| YDJC | 1,049834 | 3,24E-05 |
| GAS8 | 1,049157 | 2,37E-05 |
| RAE1 | 1,047321 | 7,13E-07 |
| ANKS1A | 1,047013 | 7,18E-07 |
| LRWD1 | 1,045152 | 0,000241 |
| TRAPPC6B | 1,044828 | 5,30E-05 |
| GLTSCR1 | 1,044678 | 0,000324 |

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| RSAD1 | 1,044532 | 1,58E-05 |
| GPRC5C | 1,04393 | 0,000689 |
| NKAP | 1,043919 | 0,000129 |
| ATG10 | 1,043887 | 0,00092 |
| PWWP2A | 1,04328 | 3,18E-05 |
| MAD2L1BP | 1,042736 | 0,000306 |
| ZNF100 | 1,042659 | 4,91E-05 |
| EBAG9 | 1,041249 | 0,00019 |
| SOS1 | 1,03875 | 2,42E-07 |
| SYAP1 | 1,038466 | 7,15E-07 |
| MED6 | 1,037259 | 7,02E-05 |
| ZNF652 | 1,035869 | 2,09E-06 |
| PBX2 | 1,03216 | 4,90E-08 |
| PSEN1 | 1,03154 | 2,03E-06 |
| S100A13 | 1,030536 | 0,000123 |
| NKD1 | 1,030399 | 0,000115 |
| FAF2 | 1,028519 | 7,49E-09 |
| ZNF576 | 1,027581 | 0,00046 |
| CDKN2C | 1,02714 | 0,000707 |
| IDH3G | 1,026526 | 1,56E-07 |
| FAM89B | 1,024747 | 7,84E-07 |
| SNX18 | 1,022173 | 0,000124 |
| VIMP | 1,022124 | 5,23E-07 |
| SSR2 | 1,021429 | 2,88E-05 |
| FXR2 | 1,020772 | 1,75E-07 |
| EML1 | 1,020443 | 3,55E-05 |
| RNF139 | 1,019528 | 6,70E-07 |
| DGKZ | 1,019516 | 4,32E-06 |
| RPS17 | 1,018586 | 5,88E-05 |
| NRBP1 | 1,01711 | 1,90E-07 |
| SLC25A5 | 1,01565 | 8,81E-05 |
| USP39 | 1,013339 | 3,17E-09 |
| THAP5 | 1,011092 | 4,52E-07 |
| LAMA5 | 1,010407 | 8,39E-09 |
| PAIP2 | 1,010282 | 0,000294 |
| NOP16 | 1,009898 | 1,22E-08 |
| SYTL2 | 1,008827 | 0,000112 |
| RNF181 | 1,008794 | 6,35E-07 |
| ZNF510 | 1,008034 | 0,000551 |
| AFG3L1P | 1,007253 | 0,000356 |
| TRIM28 | 1,006888 | 3,32E-09 |
| SOS2 | 1,006102 | 7,33E-05 |
| MAN2B1 | 1,005707 | 5,05E-05 |
| ILF2 | 1,005499 | 2,59E-10 |
| C9orf156 | 1,004504 | 0,000458 |
| FAHD1 | 1,003932 | 3,72E-07 |
| HDHD3 | 1,003538 | 0,000297 |
| TOMM40 | 1,002676 | 3,06E-10 |
| ZNF83 | 1,002619 | 0,000783 |
| ARVCF | 1,002019 | 7,32E-05 |

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| MRPL24 | 1,00175 | 6,46E-05 |
| SRGAP2 | 1,000732 | 2,20E-08 |
| MCM3AP | 1,000096 | 1,04E-07 |
| DPP7 | 1,000057 | 6,54E-08 |
| ZDHC9 | 0,999744 | 0,000307 |
| CTPS2 | 0,999318 | 1,21E-06 |
| GRB14 | 0,998643 | 0,000351 |
| CFAP36 | 0,995041 | 0,000161 |
| ANK3 | 0,994939 | 0,000491 |
| IFT43 | 0,994718 | 0,000375 |
| ANAPC2 | 0,994406 | 9,47E-05 |
| TRAK2 | 0,993526 | 5,62E-09 |
| RRN3 | 0,993153 | 3,23E-07 |
| ACBD6 | 0,992356 | 4,87E-08 |
| FTSJ3 | 0,992252 | 2,64E-05 |
| SPR | 0,992145 | 7,89E-07 |
| CTC1 | 0,991095 | 0,000266 |
| ZNF544 | 0,990198 | 2,96E-06 |
| IVD | 0,989218 | 5,26E-05 |
| GNB5 | 0,988961 | 0,000274 |
| DDX20 | 0,988869 | 1,72E-05 |
| MRPL21 | 0,98832 | 4,18E-07 |
| ZC3H11A | 0,987865 | 0,000873 |
| TMEM87A | 0,98658 | 1,24E-05 |
| LHPP | 0,986514 | 0,000794 |
| KCTD3 | 0,984752 | 6,37E-07 |
| COX5A | 0,984671 | 4,27E-08 |
| LAMTOR4 | 0,984494 | 1,71E-06 |
| HCG18 | 0,983973 | 1,41E-05 |
| PRR14L | 0,982547 | 2,05E-07 |
| RPL37 | 0,982187 | 0,000108 |
| GPX4 | 0,981843 | 2,83E-09 |
| LRRC8B | 0,981794 | 0,000852 |
| CNOT3 | 0,9812 | 2,07E-05 |
| MCL1 | 0,978679 | 1,16E-09 |
| GTF2IRD1 | 0,97795 | 2,67E-05 |
| BAG5 | 0,977259 | 5,82E-05 |
| STK32C | 0,975898 | 0,000441 |
| TP53I13 | 0,975232 | 0,000155 |
| CCDC115 | 0,974605 | 0,000135 |
| ZNF205 | 0,97434 | 9,02E-05 |
| CDK8 | 0,973828 | 3,35E-05 |
| FAM189B | 0,973278 | 0,000529 |
| ZNF304 | 0,97294 | 0,00036 |
| SETD3 | 0,972708 | 1,07E-06 |
| RBBP5 | 0,971216 | 6,86E-07 |
| TRMT5 | 0,97106 | 4,10E-06 |
| ZNF362 | 0,970758 | 0,000738 |
| DOLK | 0,97025 | 0,000383 |
| SYPL1 | 0,969505 | 7,20E-06 |

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| RPL30 | 0,967371 | 0,000571 |
| ZBTB1 | 0,966882 | 1,99E-06 |
| RPL13 | 0,96623 | 1,29E-05 |
| FIBP | 0,966061 | 2,24E-07 |
| RPL31 | 0,965808 | 9,29E-06 |
| SLC25A13 | 0,965507 | 0,000188 |
| SLC25A11 | 0,964586 | 3,07E-06 |
| ERCC3 | 0,962141 | 5,65E-07 |
| VPS28 | 0,961452 | 7,93E-06 |
| SLC10A3 | 0,960473 | 0,000194 |
| AHSA1 | 0,959109 | 1,52E-06 |
| FAM53C | 0,957808 | 0,000246 |
| ZNF778 | 0,955773 | 0,0007 |
| CTBP2 | 0,955206 | 3,67E-07 |
| TMED10 | 0,954572 | 7,80E-06 |
| CUTC | 0,954462 | 0,000693 |
| ALKBH1 | 0,954444 | 0,000275 |
| EAPP | 0,953645 | 7,05E-05 |
| HNRNPA0 | 0,953554 | 1,35E-05 |
| KMT2E | 0,952828 | 3,35E-05 |
| CBR4 | 0,9524 | 0,000102 |
| UFD1L | 0,952059 | 9,69E-07 |
| TUG1 | 0,952032 | 3,31E-07 |
| GPATCH4 | 0,951372 | 1,65E-05 |
| MED21 | 0,951282 | 0,00051 |
| BOLA3 | 0,950928 | 8,93E-05 |
| PTPN2 | 0,947897 | 5,39E-06 |
| TOMM6 | 0,947566 | 1,71E-06 |
| XPOT | 0,94685 | 0,000207 |
| RNF167 | 0,946067 | 1,23E-05 |
| GNPNAT1 | 0,9451 | 1,07E-05 |
| FBXO45 | 0,944722 | 0,00026 |
| PPIL3 | 0,944236 | 0,000641 |
| AP4B1 | 0,942685 | 7,52E-05 |
| DHX34 | 0,942408 | 2,41E-06 |
| ARMCX6 | 0,941122 | 0,000261 |
| AFG3L2 | 0,940707 | 6,55E-08 |
| NDUFB10 | 0,938981 | 1,31E-06 |
| DLGAP5 | 0,938831 | 5,01E-07 |
| FAM207A | 0,938054 | 1,33E-05 |
| MRPL12 | 0,937528 | 1,25E-07 |
| NSMCE2 | 0,936885 | 0,000242 |
| SARS2 | 0,934582 | 6,18E-06 |
| GCDH | 0,933717 | 1,55E-05 |
| PIAS4 | 0,931389 | 0,000784 |
| PPP2R5C | 0,930797 | 1,35E-06 |
| C19orf53 | 0,930456 | 2,96E-06 |
| OPLAH | 0,928913 | 0,000878 |
| BYSL | 0,927787 | 0,000492 |
| AIFM1 | 0,927617 | 9,16E-05 |

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| RBM38 | 0,927068 | 3,92E-06 |
| PPP2R5E | 0,926382 | 1,03E-07 |
| SNHG6 | 0,926032 | 0,000632 |
| DECR1 | 0,924851 | 2,80E-05 |
| RPS23 | 0,923043 | 0,000221 |
| SAP130 | 0,922851 | 8,39E-08 |
| RANBP9 | 0,922437 | 3,11E-05 |
| RPL39 | 0,922132 | 0,000718 |
| UBTD2 | 0,921821 | 1,52E-05 |
| AFTPH | 0,920979 | 2,49E-05 |
| HEATR5A | 0,919727 | 0,000663 |
| PIAS2 | 0,919623 | 5,96E-06 |
| RPL18 | 0,919296 | 6,06E-07 |
| CYC1 | 0,918549 | 5,60E-07 |
| NDUFS6 | 0,918306 | 8,61E-06 |
| AP4M1 | 0,916485 | 0,000403 |
| RPS2 | 0,916294 | 1,44E-09 |
| DNAJC1 | 0,916145 | 0,000133 |
| CDKN3 | 0,915 | 0,000137 |
| ULK1 | 0,914843 | 1,61E-05 |
| TMEM179E | 0,913146 | 7,94E-05 |
| ALG5 | 0,912499 | 5,58E-05 |
| GLTSCR1L | 0,912239 | 0,000294 |
| PKMYT1 | 0,909268 | 0,00065 |
| WDR89 | 0,909033 | 0,000297 |
| GCC1 | 0,908116 | 1,61E-05 |
| CLOCK | 0,907612 | 9,97E-05 |
| NKIRAS2 | 0,905177 | 0,000467 |
| CMC2 | 0,904735 | 0,000359 |
| ELMOD2 | 0,903991 | 0,000221 |
| DSTYK | 0,903785 | 5,98E-05 |
| PEMT | 0,901762 | 5,37E-05 |
| ATP5C1 | 0,900746 | 6,33E-07 |
| LOC93622 | 0,899741 | 0,00055 |
| PPIL1 | 0,898993 | 7,90E-06 |
| EEF1B2 | 0,89844 | 0,000634 |
| MRPL30 | 0,898103 | 1,63E-06 |
| C14orf166 | 0,897832 | 1,63E-07 |
| RXRA | 0,897734 | 0,000796 |
| STAG2 | 0,897455 | 1,75E-07 |
| AP3B1 | 0,896771 | 1,43E-05 |
| PCCB | 0,896506 | 3,52E-07 |
| UQCRCQ | 0,896274 | 1,00E-06 |
| LRCH4 | 0,896034 | 6,10E-05 |
| NCBP2-AS2 | 0,895771 | 0,000325 |
| ABT1 | 0,895259 | 9,66E-05 |
| SNAPIN | 0,893717 | 0,000169 |
| TUBA1A | 0,892694 | 1,38E-05 |
| HSPA9 | 0,892388 | 0,000521 |
| UQCRCF1 | 0,891828 | 6,06E-07 |

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| PPP1R15B | 0,891465 | 0,000776 |
| C1orf122 | 0,890776 | 0,000697 |
| KIF5B | 0,890355 | 5,32E-08 |
| NDUFAF6 | 0,890305 | 0,000329 |
| INTS2 | 0,889553 | 5,42E-05 |
| MAPK9 | 0,888888 | 9,04E-06 |
| C9orf64 | 0,888131 | 0,000892 |
| NDUFS2 | 0,887117 | 0,000644 |
| MMAB | 0,887079 | 3,26E-06 |
| UBE2M | 0,885781 | 7,70E-07 |
| ATP13A1 | 0,885679 | 6,24E-06 |
| EXOC3 | 0,885558 | 0,000786 |
| PSMA4 | 0,883992 | 0,000205 |
| ALG13 | 0,883042 | 0,000169 |
| WDR20 | 0,882607 | 6,19E-05 |
| NDUFS3 | 0,881621 | 1,54E-05 |
| NDUFC1 | 0,881501 | 0,000296 |
| MARCH5 | 0,880498 | 6,14E-06 |
| MPDU1 | 0,879814 | 0,00019 |
| C12orf45 | 0,87939 | 0,000538 |
| FRA10AC1 | 0,879198 | 0,000432 |
| F11R | 0,877721 | 1,41E-06 |
| ZNF410 | 0,876063 | 3,08E-05 |
| MRPL27 | 0,872855 | 3,07E-05 |
| H2AFX | 0,871722 | 8,27E-07 |
| DUSP16 | 0,871463 | 2,57E-05 |
| RPL26L1 | 0,87058 | 6,84E-05 |
| MRPL22 | 0,869973 | 0,0006 |
| ENY2 | 0,869643 | 0,00062 |
| CHCHD10 | 0,868608 | 7,36E-05 |
| UQCR10 | 0,867812 | 0,00055 |
| PRCC | 0,867502 | 8,36E-07 |
| ZDHHC4 | 0,86709 | 1,86E-05 |
| ZMYND11 | 0,865697 | 1,08E-05 |
| KIAA0101 | 0,864137 | 0,000849 |
| SRA1 | 0,85992 | 0,000611 |
| MAF1 | 0,859768 | 0,000407 |
| NAA38 | 0,857663 | 0,000177 |
| TCF25 | 0,85661 | 3,11E-06 |
| MIDN | 0,856145 | 7,56E-05 |
| CNPY3 | 0,855934 | 0,000266 |
| GNAS | 0,853685 | 5,11E-07 |
| RMDN1 | 0,851954 | 0,000157 |
| MRPS5 | 0,850613 | 2,13E-05 |
| WDR55 | 0,848943 | 4,32E-05 |
| ago-02 | 0,847712 | 0,000146 |
| GALK1 | 0,847193 | 0,000212 |
| UBQLN4 | 0,846532 | 1,10E-05 |
| PDHA1 | 0,846452 | 0,000444 |
| CERS2 | 0,846097 | 2,16E-07 |

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| NLN | 0,845431 | 2,30E-06 |
| KAT2A | 0,845236 | 4,32E-06 |
| SMIM7 | 0,84497 | 2,07E-05 |
| ZBTB41 | 0,84411 | 0,000293 |
| PSMG3 | 0,843437 | 0,00055 |
| PIAS3 | 0,841313 | 1,07E-05 |
| ANKRD50 | 0,840027 | 9,03E-06 |
| RIOK2 | 0,838104 | 0,00017 |
| CABIN1 | 0,835746 | 0,000707 |
| FAM127C | 0,830789 | 0,000613 |
| PHAX | 0,829539 | 5,31E-06 |
| IREB2 | 0,828987 | 3,59E-06 |
| SLC2A4RG | 0,827206 | 0,000131 |
| PPP4R3B | 0,826459 | 2,19E-06 |
| ZNF282 | 0,825801 | 4,38E-05 |
| CLCC1 | 0,824719 | 0,000314 |
| WRNIP1 | 0,824074 | 0,000805 |
| LARS | 0,823546 | 1,50E-05 |
| NBPF15 | 0,823295 | 0,000349 |
| SLC25A15 | 0,823039 | 0,000521 |
| MICU2 | 0,822185 | 0,000168 |
| SUV420H1 | 0,821922 | 5,87E-05 |
| ZNF346 | 0,820794 | 0,000779 |
| ZFYVE21 | 0,820688 | 0,00037 |
| MRPS25 | 0,820328 | 4,50E-05 |
| PAK4 | 0,819508 | 0,000182 |
| MED13L | 0,819435 | 0,000854 |
| DDX39A | 0,818673 | 1,00E-05 |
| HTATSF1 | 0,817669 | 0,000184 |
| PRPSAP1 | 0,816291 | 0,000813 |
| RBM17 | 0,815868 | 0,000277 |
| ZNF579 | 0,812396 | 0,000941 |
| SNRPF | 0,811122 | 3,00E-05 |
| PELP1 | 0,810163 | 0,000529 |
| CCDC85B | 0,808882 | 4,08E-05 |
| SMG9 | 0,807472 | 0,000145 |
| TSEN34 | 0,805847 | 0,000949 |
| ZC3H13 | 0,805105 | 0,000392 |
| RPS3 | 0,804709 | 0,000707 |
| ZNF561 | 0,804374 | 0,00039 |
| DBF4 | 0,804178 | 0,00042 |
| ACAA2 | 0,803519 | 1,39E-05 |
| SLC35B1 | 0,801761 | 0,00025 |
| MLX | 0,801745 | 0,000101 |
| TMEM167A | 0,8007 | 0,000266 |
| INADL | 0,800048 | 0,000356 |
| CAMLG | 0,79974 | 0,000123 |
| GNA13 | 0,799353 | 9,65E-06 |
| MFSD3 | 0,798074 | 0,000581 |
| ISG20L2 | 0,797752 | 3,05E-05 |

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| CFDP1 | 0,797463 | 0,000162 |
| PPP1R16A | 0,797411 | 0,00048 |
| NCBP2 | 0,797139 | 2,47E-06 |
| NCAPG2 | 0,79651 | 0,000779 |
| GPS2 | 0,796508 | 7,07E-06 |
| ADRBK1 | 0,796386 | 0,000707 |
| SEC16A | 0,795311 | 2,45E-05 |
| GCSH | 0,793836 | 0,000292 |
| POLR2D | 0,793419 | 0,000901 |
| PSMC4 | 0,792568 | 3,56E-06 |
| KCMF1 | 0,792513 | 0,001003 |
| S100A10 | 0,792237 | 0,000375 |
| SCD | 0,790182 | 9,38E-07 |
| SLC25A38 | 0,788391 | 5,90E-05 |
| MDK | 0,788125 | 3,80E-05 |
| EIF2D | 0,788031 | 0,000496 |
| KARS | 0,787161 | 4,62E-05 |
| CLPX | 0,786442 | 0,000395 |
| PRR14 | 0,786329 | 7,57E-05 |
| SCARB2 | 0,78531 | 0,000685 |
| YIPF3 | 0,783879 | 3,73E-05 |
| PSMC2 | 0,782672 | 1,72E-05 |
| EMD | 0,77629 | 0,000269 |
| ZBTB10 | 0,775086 | 0,000805 |
| LSM4 | 0,772964 | 2,13E-05 |
| CYBA | 0,772602 | 0,00079 |
| LIG3 | 0,771732 | 0,000237 |
| ATP5F1 | 0,771702 | 9,47E-05 |
| WDR33 | 0,770247 | 2,81E-05 |
| KCTD20 | 0,768679 | 1,62E-05 |
| NR3C1 | 0,768368 | 0,000642 |
| WDR18 | 0,768121 | 0,000261 |
| POLR2K | 0,766978 | 0,00051 |
| MRPL4 | 0,76613 | 6,70E-05 |
| USMG5 | 0,765556 | 0,000938 |
| CHD7 | 0,764999 | 0,000599 |
| CARM1 | 0,762975 | 6,95E-05 |
| C17orf62 | 0,761661 | 0,000194 |
| GNL1 | 0,759741 | 0,000211 |
| MIF | 0,758661 | 0,000156 |
| TOP1 | 0,756221 | 1,64E-06 |
| DNPEP | 0,755761 | 4,80E-05 |
| ANAPC16 | 0,75383 | 7,86E-05 |
| MRPL11 | 0,753084 | 5,03E-05 |
| PIH1D1 | 0,753016 | 0,000999 |
| DAP3 | 0,752051 | 0,000121 |
| COX4I1 | 0,749034 | 2,38E-06 |
| MRPL35 | 0,746881 | 0,000205 |
| SECISBP2 | 0,744878 | 0,000379 |
| RDH11 | 0,74477 | 0,000632 |

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| BDH1 | 0,74446 | 0,000569 |
| ARMT1 | 0,743979 | 0,000272 |
| STUB1 | 0,743073 | 3,49E-05 |
| DDX6 | 0,740716 | 2,42E-05 |
| AAGAB | 0,739966 | 7,47E-05 |
| EAF1 | 0,739161 | 9,68E-05 |
| CCNK | 0,738665 | 0,000793 |
| CANX | 0,73841 | 5,89E-05 |
| HMBS | 0,737524 | 0,000299 |
| PEX10 | 0,737099 | 0,000705 |
| ZNF629 | 0,736814 | 5,14E-05 |
| MTMR3 | 0,735175 | 0,000291 |
| RPS19BP1 | 0,734597 | 0,000423 |
| THG1L | 0,734419 | 0,000721 |
| TUBGCP2 | 0,733836 | 0,000144 |
| RAD50 | 0,732791 | 3,42E-05 |
| MRPL14 | 0,731681 | 0,000216 |
| GID8 | 0,730198 | 3,17E-05 |
| REXO4 | 0,729255 | 0,000233 |
| STRBP | 0,728722 | 0,000718 |
| COX20 | 0,728153 | 0,000844 |
| RPL21 | 0,727909 | 0,000961 |
| GLTSCR2 | 0,725947 | 0,000151 |
| C12orf10 | 0,718932 | 0,00022 |
| RAD23B | 0,718866 | 3,36E-05 |
| RPL8 | 0,716547 | 3,07E-06 |
| C1QBP | 0,716265 | 0,000229 |
| GNB2 | 0,715645 | 0,000384 |
| MECP2 | 0,708642 | 0,000294 |
| WDR61 | 0,708374 | 0,000404 |
| NDUFA6 | 0,708034 | 0,000189 |
| DCAF7 | 0,70594 | 0,000709 |
| MRPL2 | 0,702599 | 0,000383 |
| PAGR1 | 0,701715 | 0,00016 |
| EIF2S1 | 0,700894 | 0,000375 |
| NDUFS8 | 0,699105 | 0,000277 |
| NACC1 | 0,697166 | 0,000434 |
| CAMSAP1 | 0,689931 | 0,000108 |
| BUD31 | 0,689595 | 4,60E-05 |
| SNRPC | 0,688921 | 0,000206 |
| KMT2D | 0,686033 | 0,00013 |
| PAIP1 | 0,679327 | 0,000397 |
| C7orf73 | 0,678996 | 0,000309 |
| MORF4L1 | 0,677513 | 0,000124 |
| HACD3 | 0,677368 | 0,000144 |
| EIF2AK1 | 0,677217 | 2,94E-05 |
| CSRNP2 | 0,676407 | 0,000985 |
| NUP88 | 0,671652 | 0,00052 |
| RPL4 | 0,670807 | 0,00031 |
| PPP2CA | 0,668151 | 0,000122 |

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| EDF1 | 0,667675 | 7,70E-05 |
| TADA3 | 0,666186 | 0,000442 |
| CPNE3 | 0,664527 | 0,000955 |
| PRDX4 | 0,66432 | 0,000414 |
| RBM15B | 0,662042 | 9,71E-05 |
| PKN1 | 0,659731 | 0,00093 |
| SHFM1 | 0,649253 | 0,000409 |
| SIN3A | 0,649004 | 0,000216 |
| RPL19 | 0,647367 | 0,000394 |
| ASH1L | 0,644029 | 0,000702 |
| RPL35 | 0,643317 | 0,000494 |
| PSMD7 | 0,640761 | 0,00022 |
| SART1 | 0,636228 | 0,000744 |
| PLCG1 | 0,635228 | 0,000879 |
| C20orf27 | 0,633264 | 0,000855 |
| AP2S1 | 0,632779 | 0,000961 |
| MRPS2 | 0,632761 | 0,00028 |
| PSMA6 | 0,630599 | 0,000278 |
| RPS24 | 0,629044 | 0,000193 |
| GTF3C5 | 0,620107 | 0,000817 |
| EIF1AX | 0,619418 | 0,000254 |
| MYO6 | 0,612282 | 0,000644 |
| ERAL1 | 0,607314 | 0,00092 |
| FBL | 0,605049 | 0,000364 |
| RPL7A | 0,600538 | 0,000125 |
| H2AFY | 0,594807 | 0,000847 |
| SERPINB6 | 0,593142 | 0,000917 |
| GRB2 | 0,588154 | 0,000749 |
| MARCKSL1 | 0,578235 | 0,000741 |
| NBN | 0,575164 | 0,000864 |
| CSNK2B | 0,562769 | 0,000993 |
| HMGB1 | 0,542306 | 0,000616 |
| DDX5 | 0,539688 | 0,001007 |
| TUBA1B | -0,51889 | 0,000879 |
| HGS | -0,58483 | 0,000707 |
| EIF4H | -0,58846 | 0,000376 |
| CDC20 | -0,58916 | 0,000402 |
| NASP | -0,58919 | 0,000855 |
| NME4 | -0,59184 | 0,00054 |
| MAP4K4 | -0,59888 | 0,000186 |
| HNRNPD | -0,59959 | 0,000324 |
| POLD2 | -0,59984 | 0,000827 |
| TPM4 | -0,60694 | 0,000137 |
| DHX30 | -0,60948 | 0,000409 |
| YKT6 | -0,61127 | 0,000789 |
| STAU1 | -0,61483 | 0,000601 |
| DNAJA2 | -0,61528 | 0,000682 |
| EIF6 | -0,62372 | 0,000118 |
| EPRS | -0,63586 | 0,000162 |
| SPCS1 | -0,64266 | 0,00073 |

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| SF3A1 | -0,6446 | 0,000405 |
| CTNNBL1 | -0,64599 | 0,000464 |
| TEX261 | -0,6475 | 0,000707 |
| NAA25 | -0,65089 | 0,000747 |
| SPATS2 | -0,65299 | 0,000775 |
| GNB1 | -0,65826 | 5,45E-05 |
| AP3D1 | -0,65845 | 6,95E-05 |
| POLR2C | -0,65964 | 0,000409 |
| CAT | -0,6648 | 0,000923 |
| VEZF1 | -0,66483 | 0,000932 |
| ANKRD28 | -0,6657 | 0,000439 |
| MGAT4B | -0,66614 | 0,00017 |
| APMAP | -0,6713 | 9,21E-05 |
| USP19 | -0,67466 | 0,000529 |
| DDX19A | -0,67468 | 0,000456 |
| PTGES3 | -0,67509 | 0,00026 |
| NCL | -0,67574 | 1,29E-05 |
| RANGAP1 | -0,67577 | 8,97E-05 |
| MED15 | -0,67762 | 0,0005 |
| DCTN1 | -0,67851 | 0,000214 |
| MFHAS1 | -0,67933 | 0,000707 |
| EBNA1BP2 | -0,67948 | 6,89E-05 |
| KTN1 | -0,68231 | 0,000336 |
| CD164 | -0,68337 | 0,000389 |
| BOP1 | -0,68366 | 5,43E-05 |
| AKIRIN1 | -0,68382 | 0,000929 |
| YBX3 | -0,68516 | 0,000701 |
| ATXN10 | -0,68553 | 0,000191 |
| TXNDC12 | -0,68587 | 0,00061 |
| DNAJC14 | -0,68639 | 0,000887 |
| CNPY2 | -0,68925 | 0,000274 |
| TMEM164 | -0,69985 | 0,00088 |
| IARS2 | -0,7024 | 4,36E-05 |
| JOSD1 | -0,70266 | 0,000404 |
| RANBP3 | -0,70445 | 0,000163 |
| BCL2L13 | -0,70522 | 0,000835 |
| HN1L | -0,70601 | 1,92E-05 |
| G3BP1 | -0,70635 | 1,47E-05 |
| UBXN6 | -0,7079 | 0,000186 |
| ATG3 | -0,708 | 0,000273 |
| KDSR | -0,7104 | 0,000541 |
| LAPTM4A | -0,71123 | 0,000108 |
| MFN2 | -0,71249 | 9,92E-05 |
| ITPA | -0,71571 | 0,000609 |
| UBE2J1 | -0,71714 | 0,000163 |
| PANX1 | -0,71726 | 0,000426 |
| GART | -0,71796 | 4,68E-05 |
| MLH1 | -0,72313 | 0,000211 |
| XRN2 | -0,72485 | 3,65E-05 |
| KIF21A | -0,72504 | 0,000279 |

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| SLC20A2 | -0,72735 | 0,00073 |
| MKL1 | -0,73091 | 0,000512 |
| ATP2C1 | -0,73321 | 8,25E-05 |
| PTPN12 | -0,73329 | 3,91E-05 |
| DSN1 | -0,73385 | 0,000705 |
| DDX52 | -0,73396 | 0,000786 |
| FBXO21 | -0,73505 | 0,000442 |
| GOPC | -0,74182 | 0,000743 |
| RAC1 | -0,74212 | 3,18E-06 |
| PCGF5 | -0,74244 | 0,00027 |
| NPC1 | -0,74248 | 0,000561 |
| MAP3K7 | -0,74255 | 0,000247 |
| ECT2 | -0,74352 | 2,01E-05 |
| VAV2 | -0,74566 | 0,000482 |
| HERC2 | -0,74612 | 4,75E-05 |
| CDC42 | -0,74736 | 0,000103 |
| C2CD3 | -0,74813 | 0,000281 |
| GSPT1 | -0,74872 | 6,72E-05 |
| KPNA1 | -0,7489 | 0,000846 |
| RER1 | -0,74933 | 0,000136 |
| USP16 | -0,75049 | 0,000722 |
| RNF185 | -0,75376 | 0,000951 |
| GFM1 | -0,7541 | 5,63E-05 |
| RPS6KA3 | -0,75428 | 0,000208 |
| COX15 | -0,7551 | 6,70E-05 |
| COPS7A | -0,75589 | 0,000261 |
| MPZL1 | -0,75733 | 2,45E-05 |
| SLC35B4 | -0,75753 | 0,000271 |
| VPS35 | -0,75915 | 5,33E-06 |
| VPS36 | -0,75938 | 0,000279 |
| CRTAP | -0,76013 | 2,26E-06 |
| PPP1CC | -0,76163 | 0,000317 |
| ASXL1 | -0,76305 | 3,78E-05 |
| NPRL3 | -0,76391 | 1,68E-05 |
| ATF2 | -0,7679 | 0,000241 |
| U2SURP | -0,77089 | 5,93E-06 |
| IMPAD1 | -0,77161 | 2,49E-05 |
| CEP41 | -0,77221 | 0,000313 |
| TWSG1 | -0,77232 | 0,000258 |
| USP33 | -0,77563 | 0,000289 |
| HUWE1 | -0,77631 | 1,91E-06 |
| CMIP | -0,77741 | 0,000407 |
| SMARCC1 | -0,7782 | 1,58E-06 |
| CCT8 | -0,77882 | 2,03E-06 |
| RUNX1 | -0,77911 | 0,000189 |
| TFDP1 | -0,77957 | 9,61E-06 |
| ELP6 | -0,77999 | 0,000275 |
| DIS3 | -0,782 | 0,000138 |
| CFLAR | -0,78273 | 0,000101 |
| DENR | -0,78317 | 9,78E-06 |

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| COASY | -0,78507 | 1,67E-05 |
| NONO | -0,78522 | 0,000206 |
| SLC33A1 | -0,78523 | 0,00084 |
| PPP1R9B | -0,78798 | 5,51E-06 |
| CD2AP | -0,78811 | 8,50E-05 |
| DNM1L | -0,7893 | 4,90E-06 |
| PDPR | -0,79051 | 0,000121 |
| RAD18 | -0,79104 | 0,000108 |
| CYFIP1 | -0,79349 | 8,08E-06 |
| PDZD8 | -0,79358 | 1,66E-05 |
| IFRD2 | -0,79398 | 4,79E-06 |
| RPS26 | -0,79406 | 0,000979 |
| ZMYM4 | -0,79426 | 1,05E-05 |
| GXYLT1 | -0,79536 | 0,00048 |
| EIF3M | -0,79592 | 1,61E-05 |
| SMC1A | -0,79698 | 0,000208 |
| HMGXB4 | -0,79773 | 0,000137 |
| ZFAND5 | -0,79844 | 9,10E-05 |
| FAM192A | -0,79861 | 4,93E-05 |
| CNP | -0,79862 | 0,000648 |
| C11orf84 | -0,79997 | 0,000166 |
| COL18A1 | -0,80002 | 1,13E-05 |
| FPGS | -0,8019 | 0,000301 |
| QRICH1 | -0,80208 | 7,64E-05 |
| TAF5L | -0,80259 | 0,000246 |
| SH3GLB1 | -0,80298 | 0,000521 |
| ARHGAP21 | -0,80327 | 0,000235 |
| NCAPD2 | -0,80361 | 8,43E-05 |
| CLDN12 | -0,80402 | 0,000293 |
| NUS1 | -0,80581 | 0,000496 |
| AHDC1 | -0,80651 | 0,000721 |
| GOLGA4 | -0,80662 | 0,000269 |
| OSBPL10 | -0,80671 | 3,76E-05 |
| RABEP1 | -0,80795 | 0,000282 |
| STT3A | -0,80886 | 0,000426 |
| ARFGEF2 | -0,80897 | 8,78E-06 |
| RFC1 | -0,80953 | 3,66E-05 |
| UBE2E3 | -0,80957 | 0,00027 |
| SLC12A7 | -0,81062 | 0,000101 |
| CLSPN | -0,8112 | 3,18E-05 |
| MAGI1 | -0,81132 | 0,000348 |
| TMEM230 | -0,81147 | 0,000204 |
| ALKBH3 | -0,81151 | 0,0008 |
| EIF4G3 | -0,8129 | 6,37E-06 |
| CIAPIN1 | -0,81504 | 2,11E-05 |
| ZYG11B | -0,8151 | 0,000449 |
| UBAC2 | -0,81522 | 0,000346 |
| RHOBTB3 | -0,81709 | 5,55E-05 |
| TTLL4 | -0,81817 | 0,000719 |
| BAIAP2L1 | -0,81818 | 6,39E-05 |

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| C22orf29 | -0,8201 | 0,000256 |
| NPC2 | -0,82109 | 0,000143 |
| ZFP91 | -0,82151 | 4,92E-05 |
| LRRC42 | -0,82232 | 0,000187 |
| FAH | -0,82248 | 0,000172 |
| SUN2 | -0,826 | 0,000162 |
| TUSC2 | -0,82682 | 0,000854 |
| AGPAT5 | -0,82689 | 1,70E-05 |
| TERF2 | -0,82821 | 0,000443 |
| IFT57 | -0,82853 | 4,98E-05 |
| MCPH1 | -0,82866 | 0,000838 |
| DES12 | -0,82915 | 0,000247 |
| GLRX3 | -0,8302 | 7,40E-06 |
| OSBP | -0,83042 | 5,58E-05 |
| UBQLN2 | -0,83104 | 6,20E-05 |
| TRIM25 | -0,83175 | 0,000447 |
| OGFR | -0,83209 | 0,000773 |
| REV3L | -0,83289 | 0,000117 |
| KHSRP | -0,83292 | 1,97E-07 |
| GORASP1 | -0,83396 | 0,000363 |
| TRMT6 | -0,83533 | 7,51E-05 |
| NFKBIA | -0,83561 | 0,000412 |
| PPP3CA | -0,83575 | 0,000146 |
| PSMB2 | -0,83639 | 1,15E-06 |
| ANKRD40 | -0,83911 | 0,000768 |
| PUM1 | -0,83949 | 8,61E-06 |
| CAPRIN1 | -0,83989 | 7,56E-08 |
| DMTN | -0,84043 | 0,000695 |
| KIAA1468 | -0,84304 | 0,000258 |
| GNPAT | -0,84358 | 3,44E-05 |
| NSL1 | -0,84419 | 0,000385 |
| DR1 | -0,84446 | 3,54E-05 |
| DYNC1I2 | -0,845 | 4,47E-05 |
| FEN1 | -0,84552 | 1,28E-06 |
| AGPAT3 | -0,84581 | 0,000222 |
| ATP6V1H | -0,84723 | 0,000189 |
| YIPF6 | -0,84845 | 9,27E-05 |
| FAM208A | -0,84916 | 0,000187 |
| FGD6 | -0,84932 | 0,000567 |
| TSG101 | -0,8497 | 0,000375 |
| DCTD | -0,84981 | 6,82E-06 |
| TXNDC11 | -0,85012 | 6,02E-05 |
| PARP2 | -0,85107 | 8,36E-05 |
| SPAG9 | -0,85112 | 0,000785 |
| SUZ12 | -0,85116 | 1,87E-06 |
| LAMP1 | -0,85129 | 0,000143 |
| STAT2 | -0,85129 | 0,000853 |
| LAP3 | -0,85254 | 0,000392 |
| RGS10 | -0,85402 | 0,000327 |
| SNX3 | -0,8546 | 0,00041 |

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| ADD1 | -0,85486 | 9,51E-05 |
| COPRS | -0,85776 | 4,01E-05 |
| GLUD1 | -0,85828 | 3,58E-07 |
| PSMA2 | -0,85877 | 8,44E-07 |
| RNF26 | -0,8593 | 2,40E-05 |
| KANK2 | -0,85978 | 8,69E-05 |
| DCPS | -0,86001 | 0,000134 |
| MYO5B | -0,86028 | 0,000323 |
| DDA1 | -0,86063 | 0,000187 |
| TMEM41A | -0,86169 | 5,43E-05 |
| OXSR1 | -0,86226 | 0,000133 |
| PFN2 | -0,86344 | 6,31E-07 |
| VPS41 | -0,86351 | 0,000722 |
| FGFR1OP2 | -0,86354 | 0,000359 |
| MAP1LC3B | -0,86405 | 3,49E-05 |
| TPRA1 | -0,86809 | 1,97E-05 |
| UBE2J2 | -0,86865 | 5,39E-06 |
| ASAP2 | -0,87025 | 8,58E-06 |
| NCKAP1 | -0,87111 | 6,37E-07 |
| LPGAT1 | -0,8713 | 0,000317 |
| SMARCA2 | -0,87147 | 0,000582 |
| LTBR | -0,87221 | 1,24E-07 |
| PPTC7 | -0,87223 | 0,000285 |
| ACD | -0,87276 | 0,000116 |
| CDK2 | -0,87333 | 3,18E-05 |
| TMED7 | -0,87481 | 7,63E-05 |
| SHROOM3 | -0,87482 | 7,26E-06 |
| TUBGCP3 | -0,87519 | 0,00025 |
| RALGAPA2 | -0,87538 | 0,000582 |
| SH3PXD2B | -0,87579 | 0,000334 |
| NUP37 | -0,87689 | 0,000128 |
| TMEM201 | -0,87694 | 0,000482 |
| UACA | -0,87867 | 0,000735 |
| SRC | -0,88019 | 7,20E-06 |
| RNF216 | -0,88026 | 0,000127 |
| PICALM | -0,88142 | 2,59E-06 |
| SERTAD2 | -0,88227 | 2,73E-05 |
| AP2M1 | -0,88248 | 0,000492 |
| SMURF2 | -0,88262 | 8,91E-05 |
| ST13 | -0,88318 | 4,20E-06 |
| PDHB | -0,88357 | 0,000722 |
| PLCG2 | -0,88475 | 0,000965 |
| GALNT1 | -0,88597 | 5,52E-07 |
| WNK1 | -0,88677 | 3,20E-08 |
| TANC1 | -0,88792 | 1,77E-06 |
| ALG9 | -0,88823 | 9,68E-05 |
| MANF | -0,89141 | 1,20E-06 |
| SAAL1 | -0,89154 | 1,10E-05 |
| PEBP1 | -0,89249 | 1,06E-08 |
| FBXO30 | -0,893 | 0,000825 |

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| NUTF2 | -0,89346 | 4,36E-05 |
| TSPO | -0,89349 | 1,06E-06 |
| PTK2 | -0,89623 | 1,69E-07 |
| ATRN | -0,89642 | 8,86E-05 |
| CCDC34 | -0,89818 | 0,000305 |
| KCTD9 | -0,89833 | 0,000131 |
| MDN1 | -0,89837 | 6,20E-07 |
| EGLN1 | -0,89932 | 4,27E-05 |
| ENO1 | -0,89966 | 0,000551 |
| SMAD4 | -0,90131 | 6,03E-06 |
| NOL4L | -0,90135 | 0,000306 |
| DDX19B | -0,9014 | 1,90E-05 |
| RHOT1 | -0,90235 | 2,34E-05 |
| VPRBP | -0,90277 | 2,42E-06 |
| CCDC93 | -0,90305 | 0,000623 |
| PTPN9 | -0,90402 | 0,000108 |
| TMEM184F | -0,90412 | 1,62E-05 |
| BROX | -0,90474 | 1,46E-05 |
| CWC15 | -0,90612 | 8,33E-05 |
| NAGPA | -0,90621 | 0,000503 |
| TBC1D22A | -0,90627 | 0,00049 |
| TRIM32 | -0,9063 | 0,000105 |
| LAMC1 | -0,90632 | 1,17E-06 |
| ESCO2 | -0,9073 | 0,000774 |
| EXOSC7 | -0,90905 | 3,43E-05 |
| ELP4 | -0,90976 | 0,000638 |
| HIP1R | -0,91073 | 7,47E-06 |
| FANCD2 | -0,9131 | 0,000417 |
| LRRC14 | -0,91405 | 0,000268 |
| CEP164 | -0,91436 | 8,42E-06 |
| TMEM109 | -0,91609 | 1,43E-06 |
| UFL1 | -0,91636 | 0,00074 |
| USP31 | -0,91825 | 0,000129 |
| NLE1 | -0,92055 | 0,000465 |
| FBXL5 | -0,92166 | 4,42E-05 |
| RAP1GDS1 | -0,92207 | 1,16E-05 |
| NIN | -0,92436 | 6,57E-05 |
| HAUS6 | -0,92453 | 2,86E-05 |
| ARID4B | -0,92741 | 0,000828 |
| GNA11 | -0,92907 | 1,34E-06 |
| DHX32 | -0,92965 | 0,000327 |
| WASL | -0,92966 | 1,04E-06 |
| DUSP14 | -0,9297 | 1,96E-05 |
| GANAB | -0,93087 | 1,47E-09 |
| NCLN | -0,9316 | 2,52E-08 |
| TAB2 | -0,93263 | 1,79E-07 |
| SSRP1 | -0,93348 | 2,64E-07 |
| TOPBP1 | -0,93584 | 1,09E-06 |
| MINA | -0,93673 | 1,71E-05 |
| DENND4C | -0,94341 | 3,63E-05 |

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| URB1 | -0,94405 | 2,82E-06 |
| ATP5G1 | -0,94483 | 1,87E-05 |
| ZDHHC7 | -0,94488 | 7,42E-06 |
| MCU | -0,94566 | 0,000231 |
| SUCLA2 | -0,94597 | 5,60E-05 |
| TNKS | -0,94608 | 3,39E-06 |
| BAG4 | -0,94755 | 3,32E-05 |
| SMARCD1 | -0,94784 | 8,69E-08 |
| EIF3D | -0,94837 | 2,53E-06 |
| GTF2H3 | -0,94892 | 0,000146 |
| SBNO2 | -0,94933 | 2,27E-05 |
| ENTPD6 | -0,94937 | 1,68E-07 |
| DNTTIP1 | -0,94941 | 9,25E-05 |
| OSBPL9 | -0,95008 | 1,32E-07 |
| SLC20A1 | -0,95091 | 6,18E-08 |
| ASXL2 | -0,95098 | 8,99E-05 |
| RIMKLB | -0,95124 | 3,97E-05 |
| GLB1 | -0,95126 | 0,000109 |
| C11orf58 | -0,9519 | 8,48E-09 |
| MUL1 | -0,9534 | 2,82E-05 |
| VASP | -0,95381 | 3,03E-07 |
| ADGRG1 | -0,95399 | 2,62E-07 |
| ITPR3 | -0,95567 | 6,01E-05 |
| BNIP2 | -0,95656 | 8,92E-05 |
| KIAA1524 | -0,95718 | 4,64E-05 |
| USP47 | -0,95846 | 4,61E-06 |
| TMEM261 | -0,95857 | 9,73E-06 |
| INF2 | -0,95971 | 2,70E-05 |
| FAM168A | -0,96101 | 0,000162 |
| PTER | -0,96154 | 0,000195 |
| ATG16L1 | -0,96201 | 2,47E-05 |
| PDHX | -0,96403 | 0,000171 |
| SH3GL1 | -0,96418 | 4,03E-05 |
| RAB34 | -0,96461 | 0,000371 |
| ATP8B1 | -0,96486 | 7,57E-07 |
| DYNC1H1 | -0,96541 | 4,92E-07 |
| CMSS1 | -0,96542 | 3,20E-05 |
| DEXI | -0,96732 | 0,000614 |
| RNH1 | -0,96752 | 0,000604 |
| RPUSD4 | -0,96764 | 0,000288 |
| TMF1 | -0,96955 | 0,000494 |
| RALA | -0,97152 | 5,15E-08 |
| PTPN3 | -0,97204 | 1,15E-05 |
| ALDH1B1 | -0,9728 | 7,88E-08 |
| P4HA1 | -0,97293 | 2,64E-06 |
| UBA6 | -0,9741 | 2,90E-07 |
| IBTK | -0,97432 | 5,42E-07 |
| TNPO1 | -0,97434 | 2,87E-08 |
| PNP | -0,97509 | 1,30E-06 |
| CHAF1A | -0,97609 | 1,60E-05 |

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| PDCD6IP | -0,97711 | 2,28E-09 |
| TBC1D5 | -0,97715 | 7,24E-07 |
| STT3B | -0,97793 | 1,16E-05 |
| NCOR2 | -0,97805 | 9,39E-07 |
| MIA3 | -0,97837 | 9,19E-07 |
| KDM5C | -0,97948 | 2,20E-08 |
| HPS3 | -0,98013 | 1,01E-05 |
| SNN | -0,98021 | 2,94E-05 |
| DNAJC10 | -0,98024 | 5,34E-06 |
| APLP2 | -0,98066 | 2,50E-10 |
| RETSAT | -0,98125 | 5,78E-07 |
| PLEKHM2 | -0,98188 | 1,48E-07 |
| USP15 | -0,98285 | 4,99E-07 |
| HBS1L | -0,98312 | 2,10E-07 |
| PLCB3 | -0,98374 | 1,83E-05 |
| LRRFIP2 | -0,98519 | 3,16E-06 |
| PITPNB | -0,9871 | 1,66E-08 |
| LRP6 | -0,98804 | 8,10E-06 |
| UTP20 | -0,98854 | 7,88E-06 |
| PCNP | -0,98859 | 8,76E-07 |
| CLDND1 | -0,98908 | 0,000177 |
| ITCH | -0,98974 | 4,15E-08 |
| ZGPAT | -0,99099 | 2,15E-05 |
| IRF2 | -0,9917 | 0,00027 |
| ZDHHC8 | -0,99268 | 0,000203 |
| DYNLT1 | -0,99281 | 2,21E-06 |
| PKN2 | -0,99319 | 0,000183 |
| GOLIM4 | -0,99413 | 8,13E-08 |
| LMAN1 | -0,99458 | 1,68E-05 |
| PKM | -0,99461 | 8,98E-07 |
| XPO6 | -0,99545 | 5,34E-10 |
| PXMP2 | -0,99558 | 0,000437 |
| ZNF343 | -0,99638 | 0,000192 |
| XRR1 | -0,99784 | 0,000978 |
| PHF19 | -0,99791 | 3,43E-06 |
| GPKOW | -0,9993 | 0,000293 |
| GNPDA1 | -0,99952 | 0,000381 |
| DDHD2 | -1,0016 | 2,50E-06 |
| TBC1D23 | -1,00183 | 0,000421 |
| C11orf57 | -1,00189 | 9,90E-06 |
| BTBD3 | -1,00201 | 4,51E-05 |
| EP400 | -1,00274 | 6,19E-09 |
| PROSC | -1,00345 | 1,11E-05 |
| ANKS6 | -1,00371 | 8,11E-07 |
| DIS3L2 | -1,0042 | 3,03E-06 |
| TFDP2 | -1,00434 | 1,08E-06 |
| STK24 | -1,0067 | 9,76E-10 |
| DIRC2 | -1,00727 | 0,000722 |
| HMOX2 | -1,00781 | 0,000251 |
| CNOT6L | -1,00863 | 1,65E-05 |

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| DCP1B | -1,00888 | 0,000575 |
| PIK3R4 | -1,0118 | 2,09E-06 |
| C6orf132 | -1,01236 | 8,85E-07 |
| ADCY3 | -1,01343 | 5,76E-08 |
| SNRK | -1,01481 | 1,52E-05 |
| SNTB1 | -1,01554 | 2,30E-08 |
| SPOP | -1,01566 | 3,20E-05 |
| NUDC | -1,01589 | 0,00046 |
| RNF111 | -1,01631 | 6,05E-07 |
| TTC7B | -1,01676 | 8,96E-05 |
| RRM1 | -1,01826 | 2,36E-06 |
| PRPS1 | -1,01843 | 0,000133 |
| EIF5A2 | -1,01888 | 0,00011 |
| IFT172 | -1,0194 | 0,000224 |
| NOL6 | -1,01992 | 4,35E-05 |
| NUP93 | -1,02029 | 4,10E-09 |
| CRLS1 | -1,02122 | 6,89E-06 |
| SH3BP5L | -1,02136 | 1,61E-06 |
| PRDX3 | -1,02348 | 4,82E-07 |
| C11orf31 | -1,02372 | 3,22E-07 |
| KIAA0319L | -1,02373 | 0,000981 |
| CIRH1A | -1,02412 | 0,000222 |
| TBC1D2B | -1,02485 | 9,75E-06 |
| TOMM20 | -1,02539 | 6,35E-10 |
| TBCEL | -1,02575 | 0,000354 |
| POLA2 | -1,02601 | 0,000626 |
| LIMD1 | -1,02633 | 6,89E-05 |
| EPS8 | -1,0266 | 2,34E-07 |
| MT1X | -1,02748 | 0,000158 |
| NAP1L4 | -1,02839 | 7,21E-10 |
| SMTN | -1,03053 | 1,31E-07 |
| KITLG | -1,03105 | 1,01E-06 |
| MED14 | -1,03135 | 1,09E-07 |
| RYK | -1,03168 | 1,07E-05 |
| COMMD7 | -1,03261 | 3,81E-06 |
| FRMD8 | -1,03454 | 6,38E-05 |
| TNFRSF21 | -1,03703 | 8,70E-08 |
| PDP2 | -1,03761 | 0,000107 |
| IMPA1 | -1,03829 | 0,000928 |
| BRD7 | -1,03864 | 5,27E-08 |
| CD46 | -1,0398 | 1,22E-06 |
| STK17B | -1,04044 | 0,000692 |
| APEH | -1,04067 | 2,75E-06 |
| METTL3 | -1,04106 | 6,31E-06 |
| ABL2 | -1,04128 | 1,41E-08 |
| TLDC1 | -1,04161 | 0,000617 |
| NCOA4 | -1,04169 | 1,19E-06 |
| FAM200B | -1,042 | 0,000704 |
| POLE | -1,04315 | 4,21E-07 |
| NUDCD3 | -1,04328 | 3,64E-08 |

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| PTP4A2 | -1,04331 | 3,97E-08 |
| MGAT5 | -1,04374 | 1,17E-05 |
| SC5D | -1,0442 | 0,00074 |
| MED8 | -1,04438 | 4,72E-05 |
| HIATL1 | -1,04441 | 1,42E-06 |
| CENPW | -1,04568 | 0,000293 |
| PCED1A | -1,04588 | 0,000537 |
| MAP3K4 | -1,04706 | 6,19E-06 |
| ZNF330 | -1,04803 | 8,69E-08 |
| NFU1 | -1,04944 | 4,47E-05 |
| WDR4 | -1,04998 | 1,23E-05 |
| PACS1 | -1,0502 | 3,92E-08 |
| MEN1 | -1,05046 | 9,99E-08 |
| ELOVL5 | -1,05209 | 1,23E-09 |
| EPG5 | -1,05248 | 5,91E-05 |
| CNKSR3 | -1,05364 | 0,000632 |
| COPS7B | -1,05385 | 5,62E-06 |
| PTPN23 | -1,05477 | 3,87E-09 |
| RRP9 | -1,05497 | 1,31E-07 |
| ACTN4 | -1,05612 | 3,14E-05 |
| FOCAD | -1,05866 | 6,01E-08 |
| BOK | -1,05931 | 2,09E-05 |
| PHRF1 | -1,05983 | 3,42E-10 |
| BIN3 | -1,05987 | 0,000851 |
| USP13 | -1,06038 | 4,09E-08 |
| PANK4 | -1,0613 | 7,31E-05 |
| SLC25A26 | -1,06259 | 0,000281 |
| PNPO | -1,06259 | 3,14E-08 |
| MAGT1 | -1,06262 | 1,70E-08 |
| CLEC16A | -1,06338 | 2,27E-07 |
| OTUD4 | -1,06483 | 4,44E-05 |
| PRKAA1 | -1,06667 | 0,000198 |
| WWC1 | -1,06843 | 0,000161 |
| FGD1 | -1,06875 | 2,89E-07 |
| MSANTD4 | -1,06944 | 0,000629 |
| DLG1 | -1,0725 | 9,40E-08 |
| ARID1B | -1,07373 | 1,25E-06 |
| POLR3G | -1,07384 | 0,000948 |
| FXR1 | -1,07426 | 2,91E-06 |
| NLRX1 | -1,07685 | 2,65E-06 |
| RBL2 | -1,07696 | 1,04E-07 |
| HSDL2 | -1,07716 | 0,00014 |
| MGRN1 | -1,07852 | 3,62E-09 |
| CTDSP2 | -1,07931 | 3,44E-05 |
| FTSJ1 | -1,07942 | 2,87E-08 |
| SNX30 | -1,07981 | 4,68E-05 |
| ARL14EP | -1,08015 | 6,29E-05 |
| CMTM6 | -1,0809 | 7,83E-08 |
| ABRACL | -1,08109 | 2,42E-06 |
| ETNK1 | -1,08173 | 1,69E-06 |

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| SUN1 | -1,08331 | 7,25E-09 |
| C21orf2 | -1,08357 | 0,000217 |
| UXS1 | -1,08681 | 1,79E-08 |
| FNIP1 | -1,08716 | 7,89E-07 |
| FGFRL1 | -1,08738 | 4,29E-10 |
| SPRED2 | -1,08757 | 8,37E-07 |
| GADD45A | -1,08781 | 0,000104 |
| ITSN2 | -1,08784 | 9,59E-05 |
| KPNA3 | -1,08813 | 1,17E-05 |
| MIR4435-2 | -1,08858 | 0,000973 |
| SPTAN1 | -1,08964 | 1,05E-08 |
| ATXN2 | -1,08993 | 5,02E-08 |
| KPNA6 | -1,09135 | 1,44E-08 |
| STK25 | -1,09148 | 2,25E-09 |
| FAM49B | -1,09158 | 2,30E-09 |
| SVIL | -1,09163 | 6,08E-05 |
| RAB3GAP2 | -1,09295 | 6,59E-08 |
| NOCT | -1,0939 | 8,20E-05 |
| PTGFRN | -1,09491 | 5,28E-09 |
| NAE1 | -1,0951 | 1,52E-09 |
| CLP1 | -1,09923 | 0,000178 |
| BET1L | -1,09984 | 4,12E-06 |
| TALDO1 | -1,10004 | 3,86E-07 |
| USP24 | -1,10016 | 1,65E-07 |
| POLR2L | -1,10223 | 4,58E-07 |
| VPS26B | -1,10303 | 1,19E-05 |
| SLC6A6 | -1,10356 | 4,51E-10 |
| VAC14 | -1,10415 | 3,67E-10 |
| CSNK2A1 | -1,10454 | 2,95E-10 |
| GSTO1 | -1,1048 | 1,19E-05 |
| KNTC1 | -1,10505 | 0,000837 |
| SLBP | -1,10595 | 3,42E-07 |
| HIBADH | -1,10673 | 2,94E-08 |
| FLII | -1,10721 | 3,96E-11 |
| GTPBP1 | -1,10759 | 4,38E-07 |
| COMMD9 | -1,10763 | 0,000209 |
| TRAF3 | -1,10856 | 1,74E-07 |
| B3GALNT2 | -1,10932 | 2,29E-06 |
| MELK | -1,1097 | 4,54E-09 |
| ST7 | -1,11012 | 2,68E-05 |
| DRAP1 | -1,11069 | 9,65E-09 |
| PDIA5 | -1,11129 | 1,33E-06 |
| FER | -1,1114 | 2,52E-05 |
| SMS | -1,11249 | 5,18E-06 |
| HTATIP2 | -1,11274 | 0,000225 |
| PARP4 | -1,11303 | 5,58E-11 |
| DOCK7 | -1,1131 | 1,70E-08 |
| TMEM219 | -1,11371 | 2,05E-05 |
| CNOT1 | -1,11427 | 1,69E-11 |
| XPC | -1,11463 | 3,23E-08 |

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| EXOC6B | -1,11479 | 0,000183 |
| DCUN1D5 | -1,11532 | 8,09E-08 |
| WASF2 | -1,11664 | 1,78E-11 |
| RRAGC | -1,11667 | 1,89E-05 |
| MBOAT2 | -1,11683 | 1,57E-05 |
| USP9X | -1,11717 | 1,68E-06 |
| BCL9L | -1,118 | 2,29E-05 |
| TRAM1 | -1,11961 | 0,00024 |
| CDC25A | -1,11998 | 2,72E-06 |
| STARD4 | -1,12081 | 8,80E-06 |
| PRELID2 | -1,12093 | 0,000617 |
| LDLR | -1,12132 | 4,12E-09 |
| ZBTB44 | -1,12256 | 3,27E-05 |
| SIK3 | -1,12296 | 2,93E-08 |
| SNX33 | -1,12319 | 1,87E-06 |
| MSRB1 | -1,12409 | 4,99E-05 |
| COPS8 | -1,12494 | 4,11E-07 |
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| CLTA | -1,12589 | 4,82E-09 |
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| TMEM41B | -1,12634 | 1,82E-05 |
| SH3KBP1 | -1,12651 | 0,000941 |
| TARBP1 | -1,1301 | 0,000414 |
| TMEM50B | -1,13052 | 0,000456 |
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| TMED4 | -1,13642 | 1,04E-09 |
| RNF19A | -1,13692 | 2,79E-05 |
| TMEM245 | -1,13958 | 1,95E-08 |
| CHFR | -1,14023 | 1,54E-06 |
| OSBPL11 | -1,14028 | 3,13E-05 |
| TM7SF3 | -1,14072 | 1,18E-05 |
| THYN1 | -1,14074 | 1,24E-05 |
| RIC8A | -1,14112 | 5,86E-12 |
| SMC4 | -1,14163 | 1,56E-08 |
| ANXA5 | -1,14443 | 2,25E-13 |
| ERI1 | -1,1446 | 1,49E-07 |
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| TTC17 | -1,14585 | 5,62E-10 |
| ADIPOR2 | -1,14665 | 7,83E-11 |
| PAFAH1B2 | -1,14675 | 1,46E-09 |
| USP53 | -1,14699 | 2,55E-06 |
| PDLIM7 | -1,14969 | 3,52E-07 |
| RABGEF1 | -1,1509 | 2,33E-08 |
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| AAK1 | -1,15346 | 0,00017 |

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| PLEKHA6 | -1,15443 | 8,67E-08 |
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| AGRN | -1,16096 | 2,25E-06 |
| NCSTN | -1,16101 | 7,46E-11 |
| ATP1B3 | -1,1611 | 1,28E-12 |
| ATP11A | -1,16164 | 2,55E-05 |
| DNAJC5 | -1,16176 | 5,08E-06 |
| MKLN1 | -1,16223 | 2,12E-10 |
| ESYT1 | -1,1625 | 1,49E-13 |
| C4orf46 | -1,16276 | 3,80E-05 |
| NECAP2 | -1,16288 | 1,48E-08 |
| ATR | -1,16292 | 4,44E-09 |
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| CEP57 | -1,16643 | 7,19E-05 |
| TCTN2 | -1,16655 | 1,49E-06 |
| DZIP3 | -1,16688 | 1,26E-07 |
| RB1 | -1,16693 | 4,75E-08 |
| GNPTAB | -1,16877 | 2,05E-09 |
| SHQ1 | -1,16912 | 4,47E-06 |
| SP140L | -1,16958 | 2,06E-06 |
| HEATR3 | -1,17036 | 5,29E-05 |
| SLC9A1 | -1,17084 | 5,34E-10 |
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| QDPR | -1,17361 | 1,16E-07 |
| SKI | -1,17514 | 5,08E-11 |
| EFNB2 | -1,1774 | 0,000221 |
| SLC2A1 | -1,1793 | 0,000588 |
| MYL6 | -1,17935 | 1,31E-14 |
| ARHGAP17 | -1,1797 | 6,45E-11 |
| B4GALT4 | -1,17971 | 2,63E-07 |
| TPD52L2 | -1,18039 | 1,63E-11 |
| AP1M1 | -1,18068 | 3,49E-05 |
| PHF13 | -1,18111 | 5,34E-07 |
| CHAF1B | -1,18155 | 1,89E-06 |
| RANBP6 | -1,1819 | 0,000135 |
| LATS2 | -1,18347 | 2,64E-07 |
| TYW3 | -1,18465 | 1,74E-08 |
| LTBP3 | -1,18487 | 1,77E-08 |
| TAB3 | -1,18717 | 4,01E-05 |
| ROCK2 | -1,18762 | 1,69E-10 |
| ATP11B | -1,18768 | 1,18E-09 |
| PGAM1 | -1,18817 | 8,34E-06 |
| TMED5 | -1,18853 | 2,98E-06 |
| CASP8 | -1,19039 | 3,73E-07 |
| CCDC109B | -1,19058 | 0,000109 |

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| NISCH | -1,19092 | 1,03E-08 |
| ANO10 | -1,19129 | 0,000917 |
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| FAM198B | -1,19287 | 5,06E-06 |
| NDFIP2 | -1,19408 | 5,71E-07 |
| IQGAP1 | -1,19422 | 2,03E-09 |
| ERLIN2 | -1,19692 | 1,27E-10 |
| HCCS | -1,19705 | 6,97E-06 |
| PKI55 | -1,19706 | 0,000865 |
| POT1 | -1,19786 | 7,36E-07 |
| FAM73A | -1,20016 | 0,000799 |
| CIT | -1,20059 | 0,000353 |
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| ZDHC5 | -1,20282 | 3,15E-12 |
| NUP43 | -1,2044 | 7,17E-06 |
| KIAA1671 | -1,20501 | 1,35E-08 |
| ABHD12 | -1,20546 | 5,07E-10 |
| RFT1 | -1,20835 | 4,45E-10 |
| PRKACB | -1,20906 | 3,66E-06 |
| STRAP | -1,20935 | 3,48E-09 |
| PSTPIP2 | -1,20991 | 3,73E-07 |
| CHEK1 | -1,21166 | 5,76E-11 |
| CAB39 | -1,21415 | 8,17E-11 |
| ZC3H7B | -1,21417 | 9,04E-11 |
| MROH1 | -1,21579 | 1,62E-07 |
| PRKD3 | -1,21583 | 1,20E-08 |
| NNT | -1,21592 | 1,30E-07 |
| RNPEPL1 | -1,21655 | 6,06E-06 |
| RFC5 | -1,21767 | 2,07E-07 |
| MIB2 | -1,2186 | 5,57E-05 |
| SLC35F2 | -1,21887 | 4,45E-05 |
| WDR82 | -1,22249 | 8,14E-12 |
| POLK | -1,22292 | 1,38E-06 |
| MLEC | -1,22315 | 7,59E-07 |
| NOL9 | -1,2235 | 1,12E-06 |
| KIF1B | -1,224 | 1,47E-05 |
| PPP2CB | -1,22452 | 9,28E-10 |
| MYO1B | -1,22471 | 7,71E-14 |
| C11orf1 | -1,2249 | 0,000772 |
| RECQL | -1,22506 | 5,84E-10 |
| BICD2 | -1,22594 | 8,66E-11 |
| NSMAF | -1,22615 | 2,49E-09 |
| HMGA1 | -1,22659 | 2,77E-09 |
| DNAJC16 | -1,22718 | 3,25E-06 |
| GLT8D1 | -1,22788 | 2,17E-08 |
| PLSCR1 | -1,22945 | 4,05E-07 |
| USP4 | -1,23056 | 8,89E-10 |
| PRKDC | -1,2312 | 4,68E-09 |

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| ANKRD13C | -1,23239 | 2,38E-06 |
| TMEM115 | -1,23295 | 0,000202 |
| CC2D1B | -1,23303 | 5,18E-09 |
| PIP4K2B | -1,23534 | 2,60E-10 |
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| ADARB1 | -1,23672 | 3,57E-07 |
| HPCAL1 | -1,23697 | 1,08E-09 |
| LTN1 | -1,23923 | 0,000102 |
| PRKCD | -1,23938 | 0,000399 |
| CKAP2L | -1,24236 | 0,000472 |
| CAST | -1,24467 | 1,28E-09 |
| LMO7 | -1,247 | 6,84E-07 |
| CD63 | -1,24731 | 1,03E-05 |
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| DAPK3 | -1,24961 | 1,08E-10 |
| RAD54L2 | -1,25089 | 4,85E-05 |
| PTPRF | -1,25258 | 1,85E-15 |
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| SMC5 | -1,25583 | 1,52E-09 |
| TTC28 | -1,25647 | 9,65E-05 |
| EMC1 | -1,258 | 1,31E-12 |
| KIF18A | -1,2589 | 2,98E-06 |
| COL4A3BP | -1,25906 | 3,48E-08 |
| PPME1 | -1,26017 | 2,12E-07 |
| PGS1 | -1,26099 | 1,76E-05 |
| BRI3 | -1,26168 | 7,48E-11 |
| PHC1 | -1,26226 | 1,16E-07 |
| PQLC1 | -1,26229 | 1,56E-07 |
| LRRCC1 | -1,26255 | 1,42E-06 |
| AASDHPPT | -1,26263 | 1,40E-07 |
| HIAT1 | -1,26272 | 9,08E-10 |
| RHBDF2 | -1,26514 | 2,20E-09 |
| CSNK2A2 | -1,266 | 1,17E-11 |
| RPS6KA1 | -1,26616 | 6,22E-05 |
| HERPUD2 | -1,26641 | 2,47E-09 |
| TRPC4AP | -1,26656 | 1,78E-08 |
| ABHD5 | -1,26835 | 2,14E-08 |
| DPP9 | -1,26871 | 6,46E-09 |
| TANGO6 | -1,26973 | 1,22E-05 |
| MLXIP | -1,27125 | 2,16E-14 |
| AHNAK2 | -1,27151 | 6,57E-06 |
| SLX4 | -1,27364 | 8,10E-08 |
| RGS3 | -1,27376 | 9,78E-07 |
| DEAF1 | -1,27395 | 9,28E-08 |
| NRSN2 | -1,27396 | 5,70E-05 |
| CCT6A | -1,28022 | 8,61E-15 |
| NSFL1C | -1,28074 | 6,21E-11 |
| RBL1 | -1,28131 | 4,25E-05 |
| SF3A3 | -1,2819 | 9,26E-06 |

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| CC2D2A | -1,28221 | 8,38E-07 |
| CLIP1 | -1,28282 | 5,68E-13 |
| CERS5 | -1,28354 | 1,66E-09 |
| FMNL1 | -1,28357 | 7,16E-05 |
| FZD7 | -1,28379 | 3,57E-06 |
| CD81 | -1,284 | 4,57E-15 |
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| PTPRA | -1,28717 | 5,00E-07 |
| PPAP2C | -1,28787 | 2,24E-09 |
| ZW10 | -1,28822 | 2,56E-09 |
| VAMP3 | -1,28855 | 0,00024 |
| PSMD13 | -1,28929 | 5,86E-15 |
| ARL16 | -1,28985 | 2,91E-06 |
| TLN2 | -1,29256 | 0,000376 |
| RTCA | -1,29295 | 3,29E-09 |
| SSH2 | -1,29338 | 5,13E-06 |
| IPO5 | -1,29378 | 1,78E-16 |
| PEX14 | -1,2963 | 1,98E-07 |
| GTF2H1 | -1,29784 | 2,21E-11 |
| PPARA | -1,2983 | 0,000322 |
| PSD3 | -1,29875 | 1,79E-08 |
| CEP290 | -1,2992 | 2,64E-08 |
| USP54 | -1,30213 | 4,36E-12 |
| ELF4 | -1,30396 | 1,38E-05 |
| M6PR | -1,30631 | 2,15E-07 |
| RBM19 | -1,30641 | 7,23E-05 |
| CEP162 | -1,30674 | 5,28E-05 |
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| CES2 | -1,30948 | 3,54E-09 |
| PLOD1 | -1,30972 | 7,54E-09 |
| ALS2 | -1,31021 | 1,40E-09 |
| TMEM50A | -1,31091 | 3,79E-09 |
| MLLT3 | -1,31094 | 1,71E-06 |
| ARHGEF18 | -1,31095 | 5,83E-11 |
| METTTL21B | -1,31167 | 4,50E-07 |
| CHST14 | -1,31206 | 8,15E-06 |
| NRGN | -1,31209 | 0,000301 |
| SLC41A2 | -1,31211 | 9,52E-05 |
| ARL13B | -1,31238 | 8,54E-09 |
| NPTXR | -1,31279 | 1,88E-09 |
| IFT80 | -1,3148 | 0,000222 |
| STAG3L2 | -1,31496 | 9,66E-05 |
| STRADB | -1,31528 | 8,21E-10 |
| NUDT16 | -1,31657 | 4,28E-06 |
| CTDSPL | -1,31797 | 8,07E-12 |
| BBC3 | -1,31823 | 1,75E-05 |
| TACC1 | -1,3183 | 3,47E-11 |
| TJP1 | -1,3183 | 1,67E-06 |
| VPS54 | -1,31901 | 1,01E-06 |
| BFAR | -1,31999 | 1,65E-14 |

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| HDAC7 | -1,32112 | 5,96E-13 |
| PCSK7 | -1,32479 | 0,00029 |
| IPO7 | -1,32598 | 2,71E-14 |
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| ANXA11 | -1,3277 | 3,16E-10 |
| CTBS | -1,32998 | 3,20E-05 |
| TBC1D20 | -1,33081 | 4,20E-10 |
| SLC4A7 | -1,33098 | 1,12E-07 |
| NDUFAF3 | -1,33234 | 1,19E-11 |
| DFFA | -1,33238 | 3,92E-13 |
| TTL | -1,33299 | 1,57E-09 |
| CAP2 | -1,33526 | 1,39E-10 |
| SLC25A37 | -1,33632 | 5,87E-06 |
| BTN2A2 | -1,33974 | 2,45E-05 |
| RPS6KA4 | -1,34144 | 7,98E-12 |
| AMPD2 | -1,34206 | 4,44E-07 |
| CCBL1 | -1,34225 | 0,000664 |
| KRT80 | -1,34238 | 2,83E-07 |
| EPS15 | -1,34249 | 2,34E-10 |
| STAT3 | -1,34379 | 0,000173 |
| QSER1 | -1,3442 | 2,58E-14 |
| PANK2 | -1,3445 | 1,32E-08 |
| CNST | -1,34586 | 0,000194 |
| CHID1 | -1,34648 | 9,21E-09 |
| NBAS | -1,34672 | 9,31E-11 |
| MAPKBP1 | -1,34869 | 0,000606 |
| HEATR1 | -1,3499 | 1,19E-10 |
| PHYH | -1,35011 | 2,78E-05 |
| DONSON | -1,35026 | 2,59E-07 |
| PTPN13 | -1,35082 | 9,13E-08 |
| ZNF512 | -1,35229 | 1,43E-07 |
| C2orf74 | -1,35234 | 0,000302 |
| SACM1L | -1,35345 | 1,54E-09 |
| RNF213 | -1,35463 | 6,21E-05 |
| ABCB7 | -1,35563 | 2,38E-06 |
| PFAS | -1,35766 | 1,59E-16 |
| LIN7C | -1,35775 | 5,38E-06 |
| PAQR7 | -1,35848 | 1,48E-06 |
| TMEM248 | -1,3593 | 2,39E-12 |
| PRCP | -1,36169 | 2,16E-09 |
| ARFGEF3 | -1,36322 | 3,71E-05 |
| GLYR1 | -1,36335 | 1,81E-15 |
| BAZ2A | -1,36373 | 1,24E-16 |
| FCHSD2 | -1,36381 | 6,00E-06 |
| BCKDHB | -1,36623 | 0,000149 |
| TUBB6 | -1,36672 | 1,87E-09 |
| WBP11 | -1,36686 | 5,07E-16 |
| TBCE | -1,36742 | 1,71E-08 |
| SRI | -1,36812 | 4,96E-14 |
| PGM3 | -1,36831 | 1,34E-06 |

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| PIP4K2A | -1,37116 | 2,98E-14 |
| TBL1XR1 | -1,37137 | 7,73E-09 |
| DUSP3 | -1,37217 | 6,85E-12 |
| FLYWCH1 | -1,37279 | 1,16E-05 |
| FAM214B | -1,37341 | 2,99E-05 |
| SNTB2 | -1,3747 | 4,88E-08 |
| ICMT | -1,37509 | 3,92E-17 |
| NGLY1 | -1,37557 | 8,37E-09 |
| PPP1R18 | -1,37613 | 3,37E-09 |
| DCLK1 | -1,3767 | 1,25E-10 |
| COLGALT1 | -1,37792 | 1,31E-15 |
| MYCBP2 | -1,37934 | 8,91E-11 |
| BAG2 | -1,37995 | 5,47E-09 |
| HSPB11 | -1,38037 | 1,08E-05 |
| PARP8 | -1,38077 | 1,93E-05 |
| SLC16A1 | -1,38151 | 7,65E-12 |
| PIK3C3 | -1,38329 | 3,32E-07 |
| ABCC1 | -1,38345 | 1,14E-14 |
| WDR35 | -1,38392 | 1,93E-06 |
| TBRG1 | -1,38696 | 1,01E-11 |
| PLXNB2 | -1,38769 | 1,45E-06 |
| CD99L2 | -1,38829 | 1,15E-06 |
| CDV3 | -1,38876 | 1,95E-09 |
| PLS1 | -1,38935 | 7,44E-08 |
| GALNT14 | -1,38952 | 1,99E-10 |
| NACC2 | -1,3904 | 2,05E-10 |
| CYSTM1 | -1,39042 | 9,21E-11 |
| FUT11 | -1,39098 | 0,000292 |
| EFCAB14 | -1,39131 | 4,81E-15 |
| CNDP2 | -1,39148 | 6,41E-13 |
| GIT2 | -1,39633 | 2,78E-14 |
| ABCD3 | -1,39803 | 3,40E-11 |
| BAP1 | -1,39817 | 2,98E-14 |
| ACTR8 | -1,39829 | 5,89E-11 |
| PPP2R5B | -1,39923 | 1,00E-04 |
| METTL15 | -1,39948 | 2,11E-08 |
| GPX8 | -1,40071 | 1,40E-08 |
| ACER3 | -1,40159 | 2,36E-11 |
| TJP2 | -1,40283 | 2,61E-05 |
| RASAL2 | -1,40293 | 4,59E-09 |
| KLHL15 | -1,40393 | 0,000471 |
| DPYSL2 | -1,40413 | 1,00E-05 |
| CTSO | -1,40474 | 0,000774 |
| ANKH | -1,40485 | 1,23E-07 |
| NCS1 | -1,40712 | 6,88E-16 |
| ZNF445 | -1,40725 | 6,75E-06 |
| FNDC3A | -1,40875 | 1,64E-12 |
| DIXDC1 | -1,40895 | 3,43E-05 |
| HMHA1 | -1,41218 | 3,31E-07 |
| SUSD6 | -1,41301 | 5,57E-06 |

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| ANKLE2 | -1,41636 | 1,02E-11 |
| MLLT4 | -1,41748 | 1,63E-07 |
| NPAS2 | -1,41866 | 0,000122 |
| PTAR1 | -1,4187 | 3,03E-09 |
| ERO1A | -1,41884 | 1,65E-12 |
| MARVELD1 | -1,41949 | 2,48E-11 |
| LONP2 | -1,41978 | 6,14E-13 |
| PLS3 | -1,41991 | 1,22E-11 |
| PDGFA | -1,42016 | 4,46E-09 |
| AIDA | -1,42151 | 5,40E-07 |
| GANC | -1,42178 | 0,000298 |
| ANXA6 | -1,42227 | 5,78E-05 |
| CREBL2 | -1,42335 | 1,43E-05 |
| ARFGAP1 | -1,42376 | 4,24E-15 |
| FKBP11 | -1,42385 | 1,33E-07 |
| C20orf194 | -1,42687 | 7,52E-05 |
| PPP2R3A | -1,42711 | 1,27E-06 |
| RAB9A | -1,42823 | 1,32E-08 |
| SPIN4 | -1,42857 | 0,000529 |
| PLXND1 | -1,42882 | 5,35E-06 |
| TP53BP2 | -1,43088 | 1,08E-08 |
| EIF4A2 | -1,43373 | 5,11E-05 |
| ENTPD7 | -1,43418 | 3,19E-06 |
| DDX17 | -1,43472 | 2,65E-19 |
| VEGFB | -1,435 | 1,40E-06 |
| CDC42EP2 | -1,43585 | 1,25E-07 |
| KIAA1147 | -1,43709 | 8,06E-09 |
| EFNA5 | -1,4371 | 6,00E-08 |
| GNL3 | -1,4377 | 3,26E-07 |
| RHPN2 | -1,43829 | 1,06E-10 |
| RHOA | -1,44009 | 9,45E-17 |
| UAP1L1 | -1,44271 | 4,58E-08 |
| AJUBA | -1,44398 | 0,000951 |
| ORAI2 | -1,44505 | 6,46E-08 |
| TNFRSF1A | -1,44519 | 1,05E-08 |
| IGF2R | -1,44575 | 8,72E-10 |
| CHCHD7 | -1,44594 | 1,31E-05 |
| CPNE7 | -1,44791 | 4,48E-09 |
| CDC42BPA | -1,44826 | 1,90E-07 |
| COPB1 | -1,44832 | 4,18E-17 |
| FKBP1A | -1,44901 | 5,34E-11 |
| PTPN21 | -1,44911 | 1,73E-07 |
| ARHGAP1 | -1,44987 | 7,59E-08 |
| PCBP4 | -1,44992 | 7,04E-10 |
| MECOM | -1,45078 | 6,25E-10 |
| NUDT21 | -1,45287 | 9,39E-16 |
| CNEP1R1 | -1,45409 | 1,43E-05 |
| SEPT2 | -1,45546 | 1,78E-16 |
| CXorf38 | -1,45547 | 1,23E-07 |
| CAMKK1 | -1,45664 | 7,50E-05 |

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| RABL3 | -1,45681 | 2,23E-09 |
| LPCAT3 | -1,457 | 1,32E-07 |
| UHRF1 | -1,45856 | 9,15E-08 |
| APPL1 | -1,45872 | 1,35E-16 |
| IP6K1 | -1,45885 | 3,02E-15 |
| HMGCL | -1,46079 | 2,15E-09 |
| GHDC | -1,46104 | 2,11E-05 |
| SACS | -1,46186 | 2,74E-15 |
| SGTB | -1,46652 | 6,93E-05 |
| TPP2 | -1,46753 | 2,72E-12 |
| CRY1 | -1,46846 | 6,05E-11 |
| SDC3 | -1,47002 | 3,63E-09 |
| TTC33 | -1,47059 | 8,80E-05 |
| NRBP2 | -1,47235 | 2,52E-06 |
| YEATS2 | -1,47299 | 0,00017 |
| P4HA2 | -1,47313 | 3,93E-06 |
| BACE1 | -1,47583 | 8,22E-08 |
| DGKD | -1,47633 | 2,59E-09 |
| TUBA1C | -1,4783 | 1,24E-17 |
| SH3D19 | -1,47952 | 2,19E-13 |
| DESI1 | -1,48044 | 4,35E-16 |
| ZC3H12A | -1,48109 | 0,000103 |
| RHOBTB2 | -1,48154 | 2,86E-06 |
| DNAJC3 | -1,48566 | 2,71E-06 |
| RAB11FIP1 | -1,48598 | 5,12E-15 |
| PSMA1 | -1,486 | 8,21E-17 |
| ITFG1 | -1,48647 | 1,95E-07 |
| PDLIM5 | -1,48656 | 1,65E-07 |
| MRE11A | -1,48761 | 1,32E-12 |
| CBL | -1,48787 | 8,84E-12 |
| ZNF395 | -1,48825 | 9,49E-15 |
| KATNB1 | -1,48848 | 1,41E-10 |
| FAM111A | -1,48992 | 1,41E-11 |
| TERF1 | -1,49036 | 7,71E-11 |
| DDX10 | -1,49179 | 1,78E-16 |
| NFIX | -1,49225 | 2,69E-05 |
| GBAS | -1,49339 | 0,00042 |
| PTPN11 | -1,49719 | 3,07E-20 |
| NEK7 | -1,49812 | 7,30E-11 |
| WEE1 | -1,49908 | 5,61E-05 |
| PLEKHM1 | -1,50315 | 5,49E-06 |
| ARMC9 | -1,50433 | 4,87E-10 |
| FAM43A | -1,50942 | 8,88E-08 |
| RRM2B | -1,51271 | 4,66E-05 |
| KIAA1143 | -1,51386 | 1,10E-08 |
| TIAM2 | -1,51456 | 0,000578 |
| ZFP36L1 | -1,52036 | 1,45E-09 |
| LOC645166 | -1,52373 | 0,000347 |
| AP2A2 | -1,52382 | 8,16E-15 |
| PIK3R1 | -1,52492 | 7,71E-11 |

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| MYO9B | -1,52548 | 1,16E-07 |
| SEC22C | -1,52548 | 3,55E-12 |
| LUZP1 | -1,52695 | 1,17E-05 |
| LCOR | -1,52771 | 5,09E-13 |
| TRIO | -1,52889 | 1,67E-13 |
| SLC36A4 | -1,53035 | 7,18E-05 |
| PDE12 | -1,5322 | 2,31E-15 |
| MYOF | -1,53272 | 8,35E-05 |
| C11orf54 | -1,53278 | 0,000111 |
| GALE | -1,53308 | 4,84E-06 |
| KLHL7 | -1,53536 | 8,62E-08 |
| ATP13A3 | -1,5372 | 3,60E-21 |
| UROD | -1,53728 | 2,95E-11 |
| TBC1D25 | -1,53832 | 0,000153 |
| COL5A2 | -1,53855 | 9,88E-05 |
| FAM109A | -1,54175 | 2,06E-08 |
| DBNL | -1,54252 | 2,19E-07 |
| CRYZL1 | -1,54303 | 1,92E-06 |
| XPNPEP1 | -1,5435 | 2,20E-10 |
| TRPM2 | -1,54427 | 6,12E-08 |
| SNX8 | -1,5449 | 1,67E-09 |
| MAP4 | -1,54539 | 2,37E-23 |
| MOCS1 | -1,54634 | 0,000143 |
| TMEM263 | -1,54671 | 1,71E-10 |
| PRMT3 | -1,54685 | 3,49E-09 |
| NETO2 | -1,54873 | 3,80E-20 |
| ANKRD18B | -1,5489 | 2,44E-06 |
| PNPLA2 | -1,5504 | 2,55E-08 |
| LPCAT1 | -1,5518 | 5,49E-14 |
| LARS2 | -1,55383 | 8,11E-14 |
| SLFN5 | -1,55485 | 1,52E-08 |
| SH3BGR13 | -1,55501 | 3,93E-05 |
| PI4K2A | -1,55657 | 1,14E-09 |
| GNMB | -1,55711 | 1,68E-07 |
| ATM | -1,55785 | 6,27E-12 |
| C4orf32 | -1,55801 | 6,88E-05 |
| DDX47 | -1,55833 | 1,17E-18 |
| RSPRY1 | -1,55923 | 1,44E-16 |
| RAB29 | -1,56106 | 2,41E-08 |
| SHPRH | -1,56112 | 1,01E-06 |
| MCTP1 | -1,56165 | 8,55E-09 |
| CYB5R3 | -1,56208 | 1,01E-09 |
| SOD2 | -1,56328 | 8,78E-15 |
| TFB1M | -1,5641 | 2,68E-05 |
| PHKB | -1,56416 | 7,35E-06 |
| GIN54 | -1,56433 | 9,64E-15 |
| CD83 | -1,56466 | 5,82E-05 |
| XRN1 | -1,5673 | 4,52E-06 |
| SEMA4B | -1,56878 | 8,39E-14 |
| ARFGEF1 | -1,57137 | 3,56E-14 |

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| APH1B | -1,57206 | 0,000167 |
| ACTN1 | -1,57233 | 2,10E-10 |
| ATRNL1 | -1,57365 | 0,000855 |
| GIN53 | -1,57424 | 7,38E-06 |
| EHBP1L1 | -1,57904 | 6,43E-05 |
| API5 | -1,58011 | 1,01E-16 |
| MOK | -1,58053 | 1,04E-07 |
| PAQR3 | -1,58315 | 3,50E-09 |
| HGSNAT | -1,58496 | 6,40E-06 |
| TMEM30A | -1,58563 | 3,76E-07 |
| AP2B1 | -1,58591 | 2,31E-18 |
| NUAK1 | -1,58728 | 7,92E-12 |
| NPAT | -1,58841 | 3,92E-10 |
| UAP1 | -1,58876 | 6,26E-09 |
| FAM118B | -1,58981 | 3,26E-09 |
| KLHL18 | -1,59128 | 1,27E-11 |
| PACSIN2 | -1,59543 | 9,52E-14 |
| GNA12 | -1,59563 | 2,46E-18 |
| RCBTB1 | -1,59577 | 1,99E-10 |
| TNFRSF12A | -1,59641 | 0,000166 |
| FAR1 | -1,59716 | 2,09E-15 |
| IER3 | -1,59826 | 4,92E-13 |
| SNX21 | -1,59903 | 3,82E-08 |
| GBE1 | -1,60104 | 5,85E-09 |
| BHLHE40 | -1,60142 | 2,07E-13 |
| NEIL2 | -1,60354 | 1,17E-11 |
| PLCXD1 | -1,60604 | 5,48E-05 |
| FNTA | -1,60627 | 1,39E-14 |
| DOK4 | -1,60675 | 9,86E-15 |
| HEXB | -1,60679 | 3,90E-13 |
| TRAM2 | -1,60756 | 5,70E-20 |
| HIGD1A | -1,60774 | 2,88E-13 |
| EIF2AK4 | -1,60822 | 3,78E-17 |
| LFNG | -1,61161 | 1,64E-07 |
| ABHD10 | -1,61282 | 1,29E-10 |
| MBNL2 | -1,61302 | 6,16E-13 |
| SMARCD3 | -1,61303 | 4,44E-07 |
| HIF1A | -1,61535 | 2,37E-20 |
| PIK3C2A | -1,61587 | 9,63E-23 |
| SLC2A8 | -1,6178 | 1,26E-07 |
| POMZP3 | -1,61861 | 1,77E-08 |
| CPPED1 | -1,62 | 1,36E-14 |
| FHL3 | -1,62069 | 2,71E-11 |
| OXCT1 | -1,6232 | 6,94E-13 |
| MAP4K2 | -1,6252 | 8,97E-09 |
| NOTCH2 | -1,62553 | 2,01E-21 |
| DTL | -1,63106 | 7,85E-19 |
| ALKBH8 | -1,63143 | 1,41E-05 |
| FOXP1 | -1,63382 | 2,62E-16 |
| PLEKHA1 | -1,63484 | 1,07E-10 |

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| LMNB2 | -1,63608 | 1,86E-08 |
| USP28 | -1,63623 | 2,82E-12 |
| MSANTD3 | -1,6366 | 4,74E-10 |
| OAT | -1,63709 | 7,27E-05 |
| SORL1 | -1,63742 | 7,82E-10 |
| MIER1 | -1,6378 | 4,41E-16 |
| ITSN1 | -1,6381 | 4,38E-15 |
| FGGY | -1,63916 | 0,000127 |
| CAPN10 | -1,64075 | 6,56E-06 |
| MAP2 | -1,64123 | 1,14E-05 |
| ALAS1 | -1,64165 | 1,29E-10 |
| STK4 | -1,64208 | 5,51E-19 |
| RTN4 | -1,64212 | 2,43E-17 |
| IL13RA1 | -1,64416 | 4,06E-10 |
| STXBP5 | -1,64615 | 8,54E-11 |
| PXN | -1,64963 | 6,94E-10 |
| SOCS6 | -1,64987 | 1,79E-11 |
| SEC23A | -1,65093 | 2,62E-13 |
| FURIN | -1,65274 | 6,82E-17 |
| ZDHHC14 | -1,65326 | 7,93E-06 |
| NTN4 | -1,65439 | 0,00062 |
| NFKB2 | -1,65442 | 9,85E-12 |
| SEPT7 | -1,65458 | 4,13E-21 |
| RBCK1 | -1,65605 | 3,05E-24 |
| CAP1 | -1,65654 | 8,17E-14 |
| TYMS | -1,65772 | 4,15E-21 |
| VKORC1L1 | -1,65772 | 2,26E-22 |
| ZDBF2 | -1,65815 | 0,000411 |
| SNX19 | -1,65854 | 9,30E-20 |
| ARHGEF12 | -1,65943 | 6,12E-16 |
| TNS1 | -1,66159 | 1,91E-05 |
| FAM216A | -1,66204 | 1,99E-07 |
| KANK1 | -1,6652 | 3,47E-10 |
| TRAK1 | -1,6654 | 1,82E-14 |
| EDEM2 | -1,66995 | 1,37E-15 |
| PTDSS2 | -1,67427 | 6,19E-06 |
| SCMH1 | -1,67492 | 0,000906 |
| FGF11 | -1,67651 | 4,42E-05 |
| KLHL2 | -1,6766 | 5,24E-08 |
| LPIN2 | -1,67668 | 3,33E-10 |
| SDCCAG8 | -1,67822 | 7,37E-09 |
| LGALS3 | -1,684 | 6,46E-05 |
| B2M | -1,68413 | 2,65E-07 |
| LASP1 | -1,68704 | 4,14E-10 |
| LZTFL1 | -1,68719 | 3,63E-09 |
| FOXK1 | -1,68881 | 2,86E-16 |
| FIGNL1 | -1,6894 | 5,56E-16 |
| RPGRIP1L | -1,69126 | 4,76E-11 |
| LINC01116 | -1,69206 | 1,92E-07 |
| PCNA | -1,69255 | 4,56E-26 |

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| ARIH2 | -1,69336 | 7,30E-21 |
| STXBP1 | -1,69417 | 3,94E-13 |
| LIMK1 | -1,69575 | 3,57E-10 |
| CEP250 | -1,697 | 1,82E-09 |
| ACSS1 | -1,69738 | 1,99E-05 |
| PVR | -1,69759 | 7,75E-06 |
| SIPA1L3 | -1,69774 | 2,94E-22 |
| EHD1 | -1,69796 | 4,01E-07 |
| SGCB | -1,69878 | 6,59E-14 |
| LOC100125 | -1,70025 | 2,57E-09 |
| ANXA2 | -1,70096 | 3,89E-28 |
| MPP6 | -1,70236 | 5,24E-15 |
| SEC24D | -1,70371 | 0,000183 |
| MYH10 | -1,70448 | 2,31E-20 |
| TOMM34 | -1,71079 | 2,26E-21 |
| FAM160A1 | -1,71122 | 5,65E-06 |
| TCF12 | -1,71295 | 1,97E-09 |
| ARF4 | -1,71425 | 3,03E-07 |
| MMD | -1,71497 | 0,000335 |
| CDC14B | -1,71534 | 1,89E-09 |
| SNX29 | -1,71637 | 3,15E-06 |
| OSBPL5 | -1,71667 | 1,08E-10 |
| FLNA | -1,7176 | 2,48E-21 |
| HACE1 | -1,7178 | 6,14E-06 |
| CPD | -1,71946 | 7,92E-20 |
| CTR9 | -1,72013 | 2,26E-10 |
| HPS5 | -1,72023 | 3,80E-14 |
| FHOD1 | -1,72206 | 4,90E-20 |
| TTYH3 | -1,72429 | 1,36E-16 |
| SPTBN1 | -1,72458 | 6,57E-29 |
| SYNJ1 | -1,72565 | 1,01E-06 |
| ARSK | -1,72727 | 4,30E-05 |
| SNORA40 | -1,72998 | 3,26E-05 |
| PTPN1 | -1,73087 | 1,17E-16 |
| ARHGEF28 | -1,73141 | 1,13E-14 |
| DSG2 | -1,73198 | 1,48E-25 |
| ENTPD4 | -1,73379 | 3,38E-16 |
| MCM8 | -1,73511 | 5,15E-17 |
| SDC1 | -1,73854 | 6,53E-17 |
| PYGB | -1,73875 | 1,46E-27 |
| DNAJC18 | -1,7396 | 8,03E-05 |
| TRIM68 | -1,74071 | 4,35E-05 |
| NT5DC3 | -1,74157 | 1,78E-08 |
| TMEM106f | -1,74317 | 1,29E-17 |
| SLC45A3 | -1,74323 | 3,85E-08 |
| COL6A1 | -1,74347 | 2,76E-17 |
| ATAD5 | -1,74368 | 4,73E-07 |
| EXTL2 | -1,74384 | 1,76E-06 |
| KCTD7 | -1,7439 | 1,28E-05 |
| ABR | -1,74575 | 6,41E-19 |

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| NABP1 | -1,74593 | 1,08E-10 |
| DYNC2H1 | -1,7512 | 2,72E-11 |
| ZNFX1 | -1,75127 | 8,31E-10 |
| EFEMP1 | -1,75219 | 2,75E-20 |
| RELT | -1,75278 | 7,85E-09 |
| C4orf19 | -1,75488 | 7,74E-05 |
| DNAJC13 | -1,75515 | 5,09E-13 |
| CNNM1 | -1,75716 | 2,47E-06 |
| C1orf106 | -1,75886 | 6,08E-05 |
| FERMT2 | -1,75909 | 1,85E-17 |
| ERC1 | -1,75975 | 3,72E-23 |
| NEDD4 | -1,76047 | 5,93E-20 |
| CDS2 | -1,76406 | 2,94E-16 |
| SERAC1 | -1,76492 | 1,75E-06 |
| ZNF827 | -1,76762 | 2,78E-05 |
| MICALL1 | -1,76834 | 3,19E-19 |
| SPG20 | -1,76982 | 3,72E-19 |
| MTMR2 | -1,77048 | 1,17E-22 |
| ASPHD1 | -1,7718 | 8,32E-07 |
| FZD6 | -1,77381 | 3,44E-14 |
| WNT5A | -1,77655 | 4,55E-08 |
| ZC2HC1A | -1,7767 | 7,66E-05 |
| HOXC6 | -1,7772 | 0,000486 |
| AP1S2 | -1,77876 | 5,69E-11 |
| CLSTN1 | -1,77929 | 8,21E-18 |
| UBTD1 | -1,78224 | 9,07E-05 |
| SRGAP1 | -1,78246 | 3,02E-08 |
| SPAG1 | -1,78444 | 6,13E-05 |
| TRIM44 | -1,78576 | 7,10E-28 |
| CDCA7 | -1,78845 | 3,76E-05 |
| PPP1R15A | -1,7886 | 8,51E-10 |
| SLC39A8 | -1,78967 | 1,04E-08 |
| SNX25 | -1,79254 | 1,16E-08 |
| SLC39A14 | -1,79578 | 5,64E-06 |
| MANEA | -1,79938 | 2,04E-07 |
| PLD1 | -1,80064 | 6,38E-10 |
| THSD4 | -1,80191 | 6,20E-09 |
| FYN | -1,80212 | 4,48E-05 |
| TBC1D1 | -1,804 | 3,55E-16 |
| SLC4A3 | -1,80529 | 5,70E-07 |
| NCAPD3 | -1,80721 | 5,09E-15 |
| DLX1 | -1,80879 | 2,49E-08 |
| TMEM120F | -1,8088 | 4,65E-16 |
| ILK | -1,80975 | 1,03E-14 |
| FAF1 | -1,81173 | 2,52E-07 |
| RBFOX2 | -1,81221 | 5,71E-25 |
| RBM7 | -1,81235 | 1,24E-09 |
| AEBP2 | -1,81411 | 1,53E-13 |
| LITAF | -1,81437 | 1,08E-10 |
| IFNAR2 | -1,81572 | 1,04E-10 |

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| TIAM1 | -1,81634 | 2,43E-07 |
| LAMB2 | -1,81743 | 9,97E-19 |
| CRYZ | -1,81807 | 1,96E-08 |
| CAPRIN2 | -1,8185 | 1,40E-09 |
| RCN1 | -1,81955 | 1,18E-26 |
| ITPR1 | -1,82097 | 5,60E-09 |
| POLQ | -1,82112 | 8,07E-09 |
| STIM1 | -1,82152 | 1,18E-22 |
| TMCO3 | -1,82227 | 8,69E-10 |
| CCNYL1 | -1,82499 | 5,04E-09 |
| GNAI2 | -1,82629 | 3,04E-10 |
| CAMK1 | -1,82717 | 1,57E-05 |
| CDKN2B | -1,82794 | 1,18E-06 |
| CARNMT1 | -1,82939 | 1,17E-10 |
| CKAP4 | -1,83064 | 3,31E-30 |
| RELL1 | -1,83164 | 4,75E-08 |
| ARL2BP | -1,83241 | 3,66E-20 |
| DNAJB5 | -1,83244 | 0,000851 |
| STAT6 | -1,83257 | 1,25E-16 |
| VSIG10 | -1,83342 | 5,93E-18 |
| TSPAN14 | -1,8361 | 2,36E-18 |
| LRRK2 | -1,83948 | 0,000421 |
| LINC00641 | -1,84032 | 2,15E-06 |
| DIAPH3 | -1,84037 | 7,90E-07 |
| MCFD2 | -1,84133 | 5,72E-27 |
| ANXA2P2 | -1,8416 | 6,40E-05 |
| B3GLCT | -1,84184 | 2,64E-08 |
| CD151 | -1,84193 | 3,65E-29 |
| C1GALT1 | -1,84198 | 1,23E-17 |
| ENC1 | -1,84233 | 5,88E-11 |
| TRMT11 | -1,84375 | 0,000604 |
| LOC103611 | -1,8473 | 0,000913 |
| SSH1 | -1,84842 | 1,28E-19 |
| PFKFB3 | -1,8512 | 4,23E-07 |
| DLX2 | -1,85142 | 9,91E-08 |
| HFE | -1,85144 | 0,000668 |
| PIGK | -1,85199 | 2,21E-13 |
| BTBD10 | -1,85222 | 5,04E-18 |
| SSR3 | -1,85236 | 2,78E-20 |
| RASA2 | -1,85344 | 1,27E-07 |
| PATL1 | -1,85358 | 1,82E-25 |
| PEX6 | -1,85531 | 0,000404 |
| NFAT5 | -1,85647 | 3,34E-09 |
| MORC4 | -1,85853 | 7,63E-20 |
| CLN5 | -1,86054 | 1,14E-05 |
| KLF3 | -1,86063 | 6,54E-12 |
| CHORDC1 | -1,8688 | 9,21E-21 |
| ZHX3 | -1,87037 | 1,77E-06 |
| LRRC8E | -1,87105 | 1,59E-11 |
| PHC2 | -1,8729 | 3,00E-14 |

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| PMEPA1 | -1,87451 | 3,50E-16 |
| EXT2 | -1,87577 | 7,35E-12 |
| C16orf70 | -1,87601 | 1,81E-11 |
| PSMD2 | -1,87728 | 2,06E-21 |
| EEA1 | -1,8777 | 2,29E-18 |
| TLN1 | -1,87826 | 2,74E-22 |
| LRRFIP1 | -1,87837 | 1,85E-30 |
| E2F7 | -1,88328 | 4,90E-12 |
| C12orf4 | -1,88527 | 6,33E-14 |
| SLC39A10 | -1,88767 | 5,22E-18 |
| TXLNA | -1,88855 | 2,82E-17 |
| HCFC2 | -1,88945 | 3,91E-06 |
| CBFB | -1,89311 | 2,01E-26 |
| FAM86DP | -1,89436 | 1,84E-11 |
| INPP5B | -1,89454 | 1,52E-10 |
| ANLN | -1,89739 | 1,81E-32 |
| PLEKHA5 | -1,89826 | 7,52E-18 |
| ADGRE5 | -1,89881 | 4,16E-07 |
| ITM2B | -1,90102 | 1,32E-20 |
| SLC25A22 | -1,90207 | 7,99E-19 |
| DDAH1 | -1,90304 | 1,92E-07 |
| ZNF185 | -1,90576 | 1,41E-09 |
| AGTPBP1 | -1,90597 | 8,44E-18 |
| CPS1 | -1,90725 | 1,02E-11 |
| MAML2 | -1,90769 | 4,33E-05 |
| QSOX1 | -1,90881 | 6,10E-32 |
| TWISTNB | -1,91065 | 7,07E-18 |
| SGK1 | -1,91127 | 1,98E-06 |
| CALU | -1,91189 | 3,65E-24 |
| MICAL1 | -1,91377 | 5,74E-06 |
| DDX58 | -1,91561 | 0,000765 |
| LINC01123 | -1,91577 | 3,17E-09 |
| SNAP25 | -1,91618 | 2,78E-05 |
| CASP3 | -1,91829 | 4,46E-10 |
| BMP1 | -1,91848 | 1,07E-15 |
| SUCLG2 | -1,91974 | 1,86E-21 |
| FAHD2B | -1,92017 | 0,000652 |
| RNF141 | -1,92093 | 2,15E-14 |
| KLF6 | -1,92163 | 9,21E-05 |
| DIAPH2 | -1,92212 | 2,27E-12 |
| PON2 | -1,92233 | 1,84E-09 |
| TOLLIP | -1,92235 | 2,15E-08 |
| TMEM123 | -1,92373 | 1,03E-33 |
| DNAJC24 | -1,92386 | 7,11E-10 |
| EXTL3 | -1,92633 | 6,15E-25 |
| RAB8B | -1,9276 | 1,46E-07 |
| LDHA | -1,92885 | 8,18E-32 |
| ACACA | -1,92889 | 8,95E-33 |
| ME2 | -1,93088 | 1,86E-21 |
| FAM129B | -1,93094 | 2,04E-22 |

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| ZNF319 | -1,93204 | 0,000222 |
| LMF2 | -1,93226 | 1,40E-15 |
| SCARF2 | -1,93339 | 1,49E-05 |
| HTR7P1 | -1,93469 | 0,000846 |
| UBA3 | -1,93507 | 5,08E-21 |
| ZAK | -1,93662 | 8,96E-26 |
| BACH1 | -1,93794 | 4,02E-13 |
| NMT2 | -1,93799 | 1,91E-13 |
| STX2 | -1,94351 | 1,02E-15 |
| PTPRK | -1,94397 | 4,71E-24 |
| TAF9B | -1,94565 | 3,10E-09 |
| SLC16A4 | -1,94569 | 4,21E-05 |
| MYO10 | -1,94732 | 4,69E-23 |
| LAMB1 | -1,94783 | 1,21E-34 |
| ZNF275 | -1,95083 | 1,72E-20 |
| TNIP1 | -1,95281 | 6,26E-09 |
| RNF170 | -1,95398 | 4,34E-09 |
| TMEM135 | -1,95577 | 2,05E-11 |
| CEP170 | -1,95779 | 1,15E-25 |
| BEND6 | -1,95894 | 0,000627 |
| DOCK9 | -1,96415 | 8,45E-17 |
| NFKB1 | -1,96597 | 3,03E-10 |
| WDR91 | -1,97026 | 8,62E-18 |
| PDDC1 | -1,9732 | 8,68E-17 |
| ZNF853 | -1,97474 | 0,000429 |
| ARFGAP3 | -1,97539 | 7,99E-15 |
| FGFR1 | -1,9779 | 2,50E-25 |
| SNX10 | -1,97976 | 4,02E-08 |
| EFR3A | -1,98012 | 6,13E-10 |
| POFUT2 | -1,98141 | 2,79E-11 |
| SLC17A5 | -1,98377 | 2,22E-07 |
| GPR180 | -1,9842 | 1,69E-16 |
| LPP | -1,98614 | 7,04E-20 |
| PXDC1 | -1,98826 | 3,73E-12 |
| NAB1 | -1,99036 | 1,42E-11 |
| CREB3L2 | -1,99135 | 7,59E-15 |
| C11orf68 | -1,99315 | 6,76E-21 |
| WSB2 | -1,99408 | 1,63E-06 |
| CARS2 | -1,99943 | 9,53E-24 |
| SPSB1 | -2,00183 | 8,59E-05 |
| EFNB1 | -2,00547 | 4,70E-13 |
| STX1A | -2,00592 | 2,33E-15 |
| NR2F2 | -2,00819 | 1,77E-21 |
| ARAP1 | -2,00877 | 2,56E-31 |
| ASCC3 | -2,00966 | 6,45E-11 |
| ECHDC1 | -2,00974 | 3,69E-13 |
| SLC12A8 | -2,01276 | 6,49E-12 |
| CDK17 | -2,01292 | 1,14E-18 |
| ACAT1 | -2,01359 | 9,33E-12 |
| TEAD1 | -2,01676 | 8,62E-34 |

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| SOAT1 | -2,02124 | 5,45E-20 |
| SLC2A10 | -2,02477 | 1,05E-10 |
| KCNQ5 | -2,0267 | 0,000747 |
| ASAP1 | -2,02754 | 1,23E-33 |
| BMP2K | -2,02758 | 1,73E-20 |
| BBX | -2,02819 | 8,22E-20 |
| KSR1 | -2,02911 | 1,10E-05 |
| APP | -2,03004 | 4,39E-39 |
| VPS37B | -2,0319 | 1,51E-25 |
| EVI5 | -2,0344 | 3,59E-10 |
| TNFRSF10B | -2,03735 | 6,91E-24 |
| ABCB10 | -2,04421 | 2,25E-15 |
| LPIN1 | -2,04668 | 6,31E-07 |
| MFSD1 | -2,04814 | 1,21E-11 |
| FKBP7 | -2,04894 | 3,09E-07 |
| MACF1 | -2,04947 | 3,60E-34 |
| MAPK8IP3 | -2,04987 | 0,000137 |
| UBE2H | -2,05129 | 2,76E-10 |
| NUPL2 | -2,05251 | 4,77E-05 |
| TAP2 | -2,05327 | 2,83E-14 |
| EZR | -2,05408 | 1,59E-17 |
| FTO | -2,05592 | 4,30E-24 |
| CCL2 | -2,05704 | 9,45E-05 |
| FBXL2 | -2,05778 | 1,00E-06 |
| FDXACB1 | -2,06042 | 5,53E-07 |
| HEBP1 | -2,06107 | 9,83E-28 |
| IFNGR2 | -2,06188 | 7,87E-12 |
| GLYCTK | -2,06787 | 3,47E-05 |
| SCRN1 | -2,06955 | 2,99E-36 |
| ADGRG6 | -2,07212 | 3,79E-18 |
| ZBED5-AS1 | -2,07447 | 3,72E-07 |
| ZNF532 | -2,07503 | 4,11E-17 |
| RP2 | -2,07646 | 5,99E-08 |
| TIPARP | -2,08379 | 6,89E-17 |
| KLHL21 | -2,08401 | 6,88E-26 |
| PRKAA2 | -2,08443 | 1,76E-16 |
| HACD1 | -2,08543 | 3,35E-09 |
| TRIM14 | -2,09198 | 1,58E-07 |
| ADAP2 | -2,09327 | 1,64E-05 |
| GFRA1 | -2,09327 | 1,10E-11 |
| PFKP | -2,09335 | 5,26E-17 |
| FAT1 | -2,09357 | 2,48E-12 |
| DERA | -2,09411 | 3,64E-28 |
| POFUT1 | -2,09439 | 1,13E-22 |
| EOGT | -2,0945 | 6,61E-09 |
| SEPT9 | -2,09493 | 5,00E-08 |
| SLC2A6 | -2,09623 | 0,000183 |
| RBM24 | -2,09794 | 9,62E-07 |
| CEP85L | -2,09933 | 2,86E-05 |
| FRMD4A | -2,10146 | 5,04E-10 |

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| MPRIP | -2,10269 | 2,29E-24 |
| UTRN | -2,10272 | 1,96E-12 |
| TPST1 | -2,10949 | 5,22E-08 |
| TWF2 | -2,11103 | 2,03E-30 |
| USP40 | -2,11241 | 2,17E-24 |
| SDK1 | -2,1173 | 2,54E-11 |
| EXOG | -2,11744 | 0,000189 |
| SH3RF1 | -2,11959 | 2,60E-08 |
| ADCY7 | -2,12259 | 9,40E-19 |
| SMCO4 | -2,12517 | 6,18E-05 |
| FABP5 | -2,12551 | 2,97E-33 |
| CEP112 | -2,12833 | 7,14E-05 |
| VLDLR | -2,13017 | 0,000278 |
| ITGA6 | -2,13077 | 3,64E-13 |
| ADAM8 | -2,13305 | 0,000404 |
| FAM219A | -2,13831 | 9,15E-08 |
| LGALS1 | -2,13961 | 5,59E-12 |
| NFE2L3 | -2,14049 | 1,35E-26 |
| SHCBP1 | -2,14207 | 2,07E-30 |
| SH3TC1 | -2,14337 | 1,45E-07 |
| PPFIBP1 | -2,14499 | 5,03E-28 |
| SH2D4A | -2,14572 | 1,35E-23 |
| DYRK3 | -2,14868 | 2,75E-15 |
| VPS13C | -2,14967 | 7,39E-15 |
| HOXB7 | -2,15055 | 1,39E-16 |
| PPM1F | -2,1513 | 3,12E-09 |
| CYTH3 | -2,15277 | 2,08E-22 |
| DOCK1 | -2,1532 | 2,10E-19 |
| S100A6 | -2,15382 | 3,22E-11 |
| MLPH | -2,15384 | 4,60E-29 |
| TMEM55A | -2,15399 | 5,79E-13 |
| LOC101927 | -2,15456 | 0,000216 |
| PINK1 | -2,15752 | 2,91E-05 |
| PPAP2B | -2,16241 | 1,05E-07 |
| GPR63 | -2,16785 | 0,000414 |
| LHFPL2 | -2,16856 | 5,73E-25 |
| LRRC20 | -2,17149 | 9,21E-11 |
| GATA6 | -2,17262 | 9,06E-10 |
| RASSF3 | -2,17304 | 9,43E-19 |
| GLIS2 | -2,18098 | 7,38E-29 |
| BACE2 | -2,18185 | 3,58E-19 |
| MOCOS | -2,18331 | 8,45E-08 |
| GLDC | -2,18873 | 3,15E-06 |
| RIPK4 | -2,18877 | 5,32E-20 |
| STK17A | -2,19069 | 1,75E-26 |
| CAMK2D | -2,19154 | 1,19E-15 |
| C16orf45 | -2,19296 | 6,93E-08 |
| QKI | -2,19826 | 1,86E-15 |
| FUCA1 | -2,2 | 5,41E-15 |
| IL17RD | -2,20359 | 1,22E-21 |

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| ZNF792 | -2,20586 | 1,60E-08 |
| DNAJC22 | -2,20817 | 2,78E-16 |
| C18orf54 | -2,20943 | 3,93E-17 |
| LOC389831 | -2,20961 | 1,26E-07 |
| WDFY1 | -2,21068 | 9,14E-34 |
| GAB2 | -2,21316 | 8,41E-22 |
| TPCN1 | -2,21523 | 2,95E-29 |
| SLC30A7 | -2,21534 | 6,84E-18 |
| FYCO1 | -2,21544 | 4,42E-12 |
| B4GALT6 | -2,21624 | 1,11E-12 |
| ST6GALNA4 | -2,21801 | 2,40E-19 |
| LOC90768 | -2,21979 | 2,08E-08 |
| MKNK2 | -2,2221 | 2,77E-29 |
| GMPR | -2,22222 | 0,000116 |
| AP1S3 | -2,22612 | 1,27E-13 |
| AKIP1 | -2,23128 | 2,08E-19 |
| LIMS1 | -2,23546 | 1,70E-45 |
| FAM20C | -2,23834 | 4,09E-22 |
| NMI | -2,23966 | 7,13E-08 |
| CFL2 | -2,24293 | 5,54E-24 |
| OAS3 | -2,24318 | 0,000717 |
| TNFRSF11A | -2,24429 | 3,34E-11 |
| CEP19 | -2,24619 | 2,84E-07 |
| SORBS3 | -2,24752 | 5,29E-33 |
| LAMA3 | -2,2478 | 2,83E-17 |
| SCCPDH | -2,25241 | 2,55E-19 |
| STARD3NL | -2,25478 | 4,87E-13 |
| LIMA1 | -2,25483 | 1,74E-10 |
| MAP3K8 | -2,2589 | 0,000563 |
| FAM46A | -2,26065 | 1,64E-06 |
| SPATS2L | -2,26193 | 2,11E-27 |
| GAS6 | -2,26392 | 1,17E-15 |
| FNDC3B | -2,2651 | 7,97E-37 |
| EDA2R | -2,26569 | 3,07E-07 |
| LOC100125 | -2,2713 | 6,81E-05 |
| ARHGAP18 | -2,27192 | 3,50E-19 |
| RASL10B | -2,27399 | 1,36E-08 |
| STEAP3 | -2,27522 | 2,83E-17 |
| HIVEP2 | -2,27815 | 2,50E-31 |
| TMEM51 | -2,27929 | 3,12E-24 |
| IFI27L2 | -2,2796 | 0,000962 |
| FJX1 | -2,27966 | 2,50E-06 |
| INAFM2 | -2,28105 | 2,26E-08 |
| FADS1 | -2,28879 | 1,20E-16 |
| OCIAD2 | -2,28986 | 2,19E-21 |
| GSDMD | -2,29243 | 4,08E-06 |
| TPP1 | -2,29335 | 1,83E-22 |
| A4GALT | -2,29548 | 0,000285 |
| PCOLCE2 | -2,29846 | 1,57E-10 |
| TMEM8B | -2,29951 | 3,51E-07 |

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| SKAP2 | -2,29996 | 4,32E-26 |
| ZNF462 | -2,30075 | 2,02E-16 |
| PAPLN | -2,30181 | 8,90E-05 |
| SHISA4 | -2,30387 | 0,000126 |
| EHHADH | -2,30507 | 3,40E-17 |
| CLCN6 | -2,30627 | 3,61E-06 |
| DYNLT3 | -2,31006 | 2,80E-07 |
| EDEM1 | -2,31382 | 5,49E-28 |
| SSFA2 | -2,31503 | 1,22E-40 |
| LEPROT | -2,31515 | 5,91E-30 |
| PMAIP1 | -2,31528 | 5,46E-10 |
| CDCA7L | -2,31597 | 1,07E-09 |
| ERAP1 | -2,32068 | 7,21E-26 |
| ATP10D | -2,32236 | 2,98E-08 |
| ABCC4 | -2,32281 | 2,35E-32 |
| FARP1 | -2,3278 | 2,22E-31 |
| FAM3C | -2,3281 | 9,59E-35 |
| RGL1 | -2,32821 | 3,81E-12 |
| STOML1 | -2,33224 | 2,38E-10 |
| PARP12 | -2,33349 | 5,00E-08 |
| SLC8B1 | -2,33534 | 4,00E-14 |
| IFFO2 | -2,33797 | 2,87E-20 |
| PARVB | -2,33871 | 9,04E-30 |
| SLC35E4 | -2,33883 | 4,81E-13 |
| SEC14L1 | -2,33907 | 8,01E-30 |
| DRAM1 | -2,33926 | 8,22E-18 |
| CHM | -2,34851 | 8,47E-08 |
| APAF1 | -2,35152 | 2,25E-08 |
| PDLIM1 | -2,35352 | 1,96E-46 |
| LBR | -2,3564 | 1,26E-30 |
| TMEM56 | -2,35698 | 1,03E-11 |
| FLNB | -2,35796 | 2,93E-21 |
| CYFIP2 | -2,36549 | 1,84E-09 |
| BEX4 | -2,37065 | 2,65E-12 |
| ARHGAP26 | -2,37272 | 8,38E-06 |
| PAG1 | -2,37479 | 1,98E-06 |
| PELI1 | -2,37499 | 1,75E-06 |
| GLI3 | -2,37718 | 5,22E-18 |
| FAM65A | -2,37729 | 9,38E-33 |
| STX3 | -2,38035 | 5,34E-19 |
| ARNT2 | -2,38303 | 3,81E-26 |
| MAPKAPK3 | -2,3857 | 2,54E-23 |
| DENND5A | -2,38743 | 2,33E-15 |
| PTPRG | -2,389 | 4,21E-25 |
| FAM107B | -2,39025 | 2,34E-09 |
| MPDZ | -2,39327 | 7,22E-17 |
| LCA5 | -2,39365 | 1,10E-05 |
| HDAC4 | -2,40194 | 0,00024 |
| PAM | -2,40797 | 1,48E-26 |
| ZMYM6NB | -2,40957 | 3,52E-09 |

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| DTX3L | -2,41092 | 3,70E-13 |
| GRB10 | -2,41465 | 7,69E-05 |
| ABHD2 | -2,41517 | 4,11E-21 |
| CSRNP1 | -2,41861 | 1,42E-18 |
| TMEM44 | -2,41946 | 7,03E-14 |
| CLIP2 | -2,42757 | 1,06E-29 |
| OPHN1 | -2,42917 | 5,22E-19 |
| PITPNM1 | -2,43052 | 1,64E-18 |
| P3H1 | -2,43461 | 2,81E-29 |
| CITED4 | -2,43491 | 1,84E-14 |
| RHOF | -2,43563 | 3,55E-40 |
| TUBB2B | -2,43856 | 6,77E-10 |
| KLF12 | -2,44067 | 2,34E-14 |
| FAM114A1 | -2,44146 | 2,32E-08 |
| SNX9 | -2,44208 | 5,26E-34 |
| SIK2 | -2,44235 | 6,43E-29 |
| SLC25A12 | -2,44378 | 5,61E-24 |
| SLCO3A1 | -2,44753 | 4,75E-19 |
| MAMLD1 | -2,44855 | 1,42E-08 |
| SGK223 | -2,44917 | 2,07E-30 |
| TIMP1 | -2,4515 | 9,28E-06 |
| NEK6 | -2,45515 | 2,06E-38 |
| HOXA5 | -2,45641 | 7,93E-07 |
| KDELC1 | -2,45797 | 1,74E-18 |
| KCND1 | -2,46263 | 0,000528 |
| BICD1 | -2,4634 | 4,01E-24 |
| SH3BP4 | -2,46591 | 8,83E-32 |
| FAM126A | -2,47 | 1,86E-17 |
| HNMT | -2,4712 | 8,00E-05 |
| LOC441666 | -2,47132 | 1,82E-06 |
| DCBLD1 | -2,47356 | 1,70E-16 |
| MMP16 | -2,4755 | 2,33E-11 |
| PITPNM2 | -2,47696 | 2,09E-17 |
| LOC654342 | -2,47939 | 8,46E-12 |
| ANXA2P3 | -2,48041 | 4,04E-05 |
| YAP1 | -2,48089 | 1,83E-36 |
| PLEKHG4 | -2,48313 | 1,38E-14 |
| ITPRIPL2 | -2,4833 | 5,71E-33 |
| TSPAN9 | -2,48591 | 1,71E-09 |
| GALNT7 | -2,48658 | 5,78E-16 |
| PEA15 | -2,4875 | 2,62E-29 |
| PLAGL1 | -2,48925 | 5,07E-14 |
| CENPV | -2,49332 | 6,76E-08 |
| LACTB | -2,49523 | 2,03E-06 |
| ASRGL1 | -2,49538 | 9,34E-17 |
| ZCCHC24 | -2,49539 | 1,42E-07 |
| STRIP2 | -2,49766 | 1,64E-08 |
| SDCBP | -2,4977 | 1,56E-16 |
| CLTCL1 | -2,49992 | 7,94E-12 |
| CIB2 | -2,50327 | 0,000644 |

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| USB1 | -2,50777 | 1,01E-14 |
| MAP7D1 | -2,50849 | 4,80E-27 |
| RNF145 | -2,5092 | 5,86E-11 |
| FMNL3 | -2,5111 | 3,71E-35 |
| AMOTL1 | -2,51427 | 4,08E-41 |
| ST3GAL3 | -2,51703 | 4,71E-14 |
| DEGS1 | -2,51949 | 5,58E-19 |
| ZNF488 | -2,51965 | 0,000347 |
| TBC1D8B | -2,52131 | 1,73E-05 |
| SMPD1 | -2,52306 | 2,19E-07 |
| ZNF697 | -2,52349 | 5,83E-19 |
| SDC2 | -2,5241 | 1,22E-38 |
| CHD9 | -2,52436 | 1,39E-27 |
| TNIK | -2,52484 | 2,91E-16 |
| ETHE1 | -2,52757 | 6,89E-21 |
| KIAA0754 | -2,52817 | 2,04E-16 |
| MATN2 | -2,5284 | 2,70E-30 |
| ACSL1 | -2,53215 | 1,36E-36 |
| NF2 | -2,53293 | 1,45E-34 |
| WWC2 | -2,53653 | 8,82E-34 |
| PARP3 | -2,53845 | 1,14E-26 |
| CNTLN | -2,54064 | 4,39E-14 |
| NPTX1 | -2,5422 | 0,000598 |
| COL4A5 | -2,54467 | 5,69E-09 |
| EVA1B | -2,5459 | 2,06E-07 |
| QPRT | -2,54599 | 2,46E-12 |
| PRDM5 | -2,5508 | 3,02E-05 |
| KBTBD8 | -2,55119 | 0,000141 |
| PML | -2,55601 | 3,33E-10 |
| SYNPO | -2,55607 | 6,34E-07 |
| PLCB4 | -2,55759 | 2,30E-24 |
| SLC5A3 | -2,55898 | 1,02E-39 |
| FAM92A1 | -2,55962 | 1,59E-06 |
| MTMR10 | -2,56216 | 7,01E-23 |
| WWTR1 | -2,56248 | 3,06E-48 |
| CDKL1 | -2,56412 | 2,71E-09 |
| FAS | -2,5664 | 0,000277 |
| TMOD1 | -2,57046 | 1,25E-09 |
| RFX2 | -2,5705 | 1,58E-18 |
| PRTG | -2,5722 | 6,46E-15 |
| UGCG | -2,57305 | 2,22E-31 |
| TMX3 | -2,5745 | 1,95E-28 |
| ETV6 | -2,57704 | 1,62E-34 |
| PTPRJ | -2,57848 | 9,65E-30 |
| HHAT | -2,58136 | 1,92E-14 |
| FOSL2 | -2,58193 | 2,23E-27 |
| ARHGEF25 | -2,58235 | 6,07E-16 |
| FKBP1B | -2,5847 | 0,000444 |
| SGPP2 | -2,58529 | 1,74E-09 |
| ADAM10 | -2,58571 | 1,11E-47 |

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| MYADM | -2,59019 | 1,39E-14 |
| PLOD2 | -2,59128 | 5,53E-50 |
| LZTS3 | -2,59736 | 2,75E-06 |
| ARHGEF10 | -2,59766 | 6,87E-13 |
| BIRC2 | -2,60725 | 2,15E-20 |
| ABTB2 | -2,60814 | 5,26E-34 |
| ZMAT3 | -2,60893 | 5,75E-07 |
| RASA3 | -2,61186 | 8,77E-21 |
| RPS6KA6 | -2,61362 | 6,92E-05 |
| RIN3 | -2,62209 | 4,63E-12 |
| DLC1 | -2,62486 | 3,32E-30 |
| FAM229B | -2,62583 | 8,82E-06 |
| SLC26A2 | -2,62636 | 2,29E-50 |
| DOCK4 | -2,62946 | 2,90E-14 |
| CORO1C | -2,62949 | 3,17E-60 |
| RPS6KA2 | -2,63035 | 4,66E-16 |
| TREX1 | -2,63185 | 1,41E-11 |
| SEPT11 | -2,6327 | 1,73E-62 |
| RTTN | -2,6328 | 1,09E-14 |
| GNPDA2 | -2,63323 | 7,82E-12 |
| STARD9 | -2,63406 | 0,000593 |
| SEPT4 | -2,63822 | 9,32E-10 |
| SERPINB8 | -2,64695 | 3,87E-10 |
| CUEDC1 | -2,64703 | 1,77E-38 |
| FAM135A | -2,64944 | 3,84E-14 |
| PKD2 | -2,6546 | 3,92E-32 |
| RRAS2 | -2,65536 | 2,61E-24 |
| MET | -2,65836 | 1,23E-63 |
| FAM110B | -2,6585 | 3,44E-18 |
| SMAD3 | -2,65913 | 8,51E-17 |
| RAB31 | -2,66333 | 1,14E-10 |
| SPNS2 | -2,66455 | 3,51E-11 |
| ATAD3B | -2,66595 | 9,33E-13 |
| NPHP3 | -2,67121 | 0,000378 |
| KCTD17 | -2,67136 | 9,49E-13 |
| LOC730102 | -2,68071 | 0,000353 |
| KDELC2 | -2,68722 | 2,31E-31 |
| FLT3LG | -2,68895 | 9,73E-05 |
| NKX3-1 | -2,69354 | 2,30E-12 |
| DENND5B | -2,70378 | 2,95E-19 |
| ITGA2 | -2,70507 | 3,04E-39 |
| CPOX | -2,70636 | 8,65E-15 |
| VOPP1 | -2,71132 | 2,46E-32 |
| MICALCL | -2,71269 | 1,93E-05 |
| CADM1 | -2,71329 | 6,12E-44 |
| FSTL3 | -2,71461 | 1,46E-13 |
| PRRG1 | -2,71513 | 5,50E-07 |
| CCDC50 | -2,71542 | 2,26E-31 |
| SGMS2 | -2,71632 | 8,70E-12 |
| FERMT1 | -2,71726 | 1,10E-35 |

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| THRB | -2,72266 | 9,77E-11 |
| FOXO3 | -2,72787 | 1,59E-17 |
| CCDC88B | -2,72819 | 4,03E-08 |
| CPNE2 | -2,73066 | 1,39E-13 |
| PRAME | -2,73262 | 4,54E-09 |
| BIVM | -2,73529 | 1,31E-09 |
| ZYX | -2,73739 | 8,35E-35 |
| APOL2 | -2,73804 | 1,08E-05 |
| ADGRL3 | -2,7434 | 0,000216 |
| DOCK5 | -2,74484 | 5,95E-32 |
| DPY19L2P2 | -2,76021 | 0,000184 |
| PPP2R2B | -2,76113 | 0,000547 |
| HSD17B12 | -2,76257 | 2,67E-59 |
| HIVEP3 | -2,76308 | 7,82E-05 |
| LRRC6 | -2,76312 | 9,79E-06 |
| ANO6 | -2,76633 | 9,34E-37 |
| L3MBTL3 | -2,767 | 2,51E-18 |
| LRP12 | -2,76865 | 3,91E-50 |
| RBPM5 | -2,7711 | 1,68E-51 |
| RCAN1 | -2,77157 | 7,15E-17 |
| GALNT10 | -2,77649 | 9,39E-53 |
| PLLP | -2,77702 | 0,000944 |
| ITPRIP | -2,77805 | 2,17E-09 |
| REXO2 | -2,77834 | 1,71E-21 |
| EHD2 | -2,7797 | 7,53E-38 |
| GXYLT2 | -2,78296 | 1,33E-10 |
| PLEC | -2,78704 | 1,13E-11 |
| TRIM5 | -2,78745 | 1,35E-12 |
| RDX | -2,79028 | 5,53E-37 |
| MGAT5B | -2,79392 | 3,91E-12 |
| OSMR | -2,79412 | 2,42E-15 |
| CHIC1 | -2,7959 | 1,67E-11 |
| PIDD1 | -2,79651 | 8,24E-42 |
| HOPX | -2,79758 | 0,000283 |
| THBS1 | -2,805 | 2,49E-13 |
| SAMHD1 | -2,81228 | 7,65E-11 |
| KIAA1462 | -2,81964 | 3,54E-07 |
| PRKCE | -2,82142 | 4,09E-08 |
| ALCAM | -2,82162 | 2,51E-34 |
| KIF17 | -2,82217 | 4,08E-05 |
| SWAP70 | -2,82461 | 1,28E-39 |
| GPRC5A | -2,83016 | 6,47E-06 |
| KAT2B | -2,83113 | 7,61E-13 |
| WDR90 | -2,84212 | 1,49E-13 |
| RASSF2 | -2,84638 | 1,16E-13 |
| SLC9A7 | -2,84756 | 2,55E-13 |
| RECK | -2,85058 | 1,73E-06 |
| EPS8L2 | -2,85481 | 2,08E-20 |
| ARAP2 | -2,85734 | 8,80E-27 |
| PYGO1 | -2,85791 | 4,68E-11 |

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| RELB | -2,85804 | 2,59E-13 |
| CMTM1 | -2,85875 | 0,00025 |
| WNT7B | -2,8594 | 4,44E-17 |
| TCF7 | -2,86642 | 6,16E-25 |
| BEND7 | -2,87712 | 3,47E-20 |
| BTC | -2,87753 | 9,02E-06 |
| TMCC1-AS1 | -2,87756 | 8,90E-09 |
| CAMK1D | -2,87761 | 6,85E-28 |
| PRPS2 | -2,87816 | 7,17E-39 |
| OGFRL1 | -2,88095 | 7,98E-34 |
| MRAS | -2,88233 | 5,85E-20 |
| PDZD2 | -2,88671 | 0,000456 |
| CAPG | -2,8892 | 7,06E-53 |
| ATP6V1B2 | -2,88952 | 3,08E-64 |
| PLK3 | -2,89131 | 1,01E-14 |
| GPR39 | -2,8954 | 8,51E-10 |
| SEMA7A | -2,89968 | 1,61E-33 |
| SORBS1 | -2,90155 | 1,41E-19 |
| OTUB2 | -2,90283 | 3,32E-08 |
| SH3BGR1 | -2,90421 | 1,45E-25 |
| HOOK3 | -2,90591 | 3,54E-37 |
| SLC37A2 | -2,90765 | 1,64E-05 |
| SLC1A3 | -2,90795 | 1,54E-14 |
| SERPINA1 | -2,90832 | 4,00E-17 |
| NUAK2 | -2,91078 | 1,32E-24 |
| FAM189A2 | -2,9136 | 0,000255 |
| SIM2 | -2,91913 | 6,85E-24 |
| SLC39A13 | -2,92324 | 1,29E-48 |
| ALS2CL | -2,92358 | 2,40E-12 |
| HOXA1 | -2,92545 | 4,78E-07 |
| HLA-C | -2,92664 | 6,14E-08 |
| ATP2B4 | -2,92963 | 1,86E-18 |
| FADS3 | -2,93229 | 1,70E-46 |
| KLHL29 | -2,93363 | 5,92E-13 |
| CHST7 | -2,93417 | 1,04E-10 |
| NEDD4L | -2,93949 | 1,07E-32 |
| CACNA2D1 | -2,94395 | 5,51E-42 |
| CYLD | -2,94396 | 7,86E-08 |
| FKBP14 | -2,94627 | 4,49E-35 |
| KLHL5 | -2,9492 | 5,29E-52 |
| PQLC2L | -2,95174 | 3,76E-05 |
| SPEG | -2,95264 | 7,99E-15 |
| CAPN5 | -2,95828 | 8,39E-09 |
| HOXA11 | -2,95869 | 0,0001 |
| SLC23A2 | -2,96304 | 1,57E-55 |
| TNS3 | -2,96638 | 1,21E-21 |
| SPON2 | -2,97499 | 1,55E-05 |
| GPRC5B | -2,97873 | 9,00E-12 |
| TMEM154 | -2,98053 | 2,83E-13 |
| MICB | -2,98467 | 3,54E-16 |

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| PHLDA2 | -2,9856 | 3,63E-10 |
| PGM5 | -2,99117 | 4,20E-16 |
| AHNAK | -2,99593 | 1,26E-36 |
| QPCT | -2,99778 | 8,28E-12 |
| CTSC | -3,00049 | 1,29E-56 |
| MARCKS | -3,00366 | 8,03E-63 |
| DHRS3 | -3,00634 | 2,14E-13 |
| KIF13B | -3,01299 | 1,95E-10 |
| COCH | -3,01712 | 3,99E-13 |
| TSPAN4 | -3,01781 | 1,78E-19 |
| SOWAHC | -3,01961 | 1,62E-18 |
| STOM | -3,02347 | 1,12E-58 |
| PHLDB1 | -3,03358 | 8,01E-61 |
| CCDC82 | -3,03455 | 4,95E-12 |
| ANKMY2 | -3,03493 | 9,62E-37 |
| KCNIP3 | -3,03807 | 5,84E-36 |
| ANKRD29 | -3,04023 | 0,000198 |
| GRK5 | -3,04653 | 1,57E-11 |
| LOC101927 | -3,05005 | 0,000249 |
| GDPD5 | -3,05078 | 6,75E-07 |
| GOLM1 | -3,05082 | 2,14E-69 |
| MYH9 | -3,05085 | 6,05E-45 |
| PBX3 | -3,05472 | 2,49E-43 |
| VCL | -3,05877 | 3,50E-22 |
| PARP10 | -3,06302 | 1,51E-15 |
| TNFSF9 | -3,06348 | 3,96E-06 |
| IKBIP | -3,06886 | 4,13E-13 |
| CASK | -3,07835 | 1,49E-68 |
| PDP1 | -3,07939 | 2,71E-54 |
| MALT1 | -3,08043 | 4,45E-67 |
| GPAT3 | -3,08125 | 1,50E-11 |
| CCDC68 | -3,08219 | 0,000132 |
| MKLN1-AS | -3,08475 | 3,58E-05 |
| MYO1E | -3,08597 | 9,77E-17 |
| C19orf66 | -3,08933 | 2,05E-07 |
| FNIP2 | -3,0935 | 1,01E-08 |
| CARD10 | -3,09473 | 8,15E-29 |
| CTNNAL1 | -3,09747 | 7,13E-25 |
| APOBEC3B | -3,10454 | 5,26E-32 |
| KAZN | -3,10997 | 3,59E-33 |
| RAI14 | -3,11227 | 4,75E-37 |
| ANK1 | -3,11342 | 0,000322 |
| PRKD1 | -3,11348 | 2,84E-11 |
| HTR7 | -3,12103 | 0,000576 |
| TK2 | -3,12149 | 4,67E-22 |
| RRAS | -3,12536 | 7,97E-15 |
| PAK1 | -3,12604 | 2,23E-23 |
| JAG1 | -3,12927 | 3,74E-36 |
| NXN | -3,13038 | 1,37E-58 |
| ST6GALNA6 | -3,13251 | 2,74E-15 |

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| CTSB | -3,13589 | 9,57E-26 |
| NXPE3 | -3,14007 | 5,05E-10 |
| EPB41L4A | -3,14644 | 8,63E-12 |
| RUSC2 | -3,14879 | 7,62E-20 |
| AKAP3 | -3,15082 | 4,92E-05 |
| B4GALT5 | -3,15232 | 6,86E-67 |
| LIMD2 | -3,15259 | 1,13E-13 |
| ENDOD1 | -3,15263 | 2,09E-59 |
| RAPGEF5 | -3,15592 | 4,81E-15 |
| CPQ | -3,15766 | 3,83E-09 |
| ZNF880 | -3,15808 | 3,07E-06 |
| TMSB4X | -3,15816 | 5,72E-81 |
| ITGB1 | -3,15936 | 4,81E-84 |
| PRR5L | -3,1653 | 2,66E-13 |
| ITGAV | -3,16633 | 3,17E-46 |
| IL6ST | -3,16811 | 2,91E-50 |
| MAPK10 | -3,16896 | 4,85E-05 |
| COL16A1 | -3,17049 | 1,39E-12 |
| TPM2 | -3,17188 | 1,40E-07 |
| CHRNA1 | -3,17291 | 6,32E-17 |
| DOCK10 | -3,17303 | 1,59E-12 |
| GPATCH11 | -3,1817 | 5,31E-44 |
| GPR37 | -3,19067 | 1,51E-08 |
| TPM1 | -3,19357 | 5,01E-86 |
| OAF | -3,19781 | 1,24E-30 |
| AKAP7 | -3,19793 | 4,62E-07 |
| ZNF513 | -3,19819 | 1,51E-05 |
| PRKAR2A | -3,20308 | 3,28E-38 |
| SPATA18 | -3,20431 | 4,14E-07 |
| DHCR24 | -3,20558 | 1,80E-31 |
| TRPV2 | -3,20666 | 0,000178 |
| CRACR2A | -3,21947 | 3,67E-06 |
| SDC4 | -3,22301 | 1,32E-33 |
| PCDHB5 | -3,22375 | 0,0006 |
| GPC1 | -3,22778 | 1,74E-53 |
| STAMBPL1 | -3,23517 | 7,56E-08 |
| CD163L1 | -3,23545 | 0,000172 |
| EFHD2 | -3,24689 | 2,01E-46 |
| FXD5 | -3,24898 | 1,60E-40 |
| LINC01515 | -3,25089 | 6,95E-05 |
| GLS | -3,25273 | 2,24E-66 |
| HIPK2 | -3,2579 | 7,92E-23 |
| UPP1 | -3,26199 | 1,11E-07 |
| DNM1 | -3,26251 | 2,08E-46 |
| DNAJB4 | -3,26427 | 3,81E-10 |
| PLEK2 | -3,26614 | 5,41E-44 |
| CRIP1 | -3,26805 | 9,05E-12 |
| LOC100288 | -3,26858 | 2,38E-05 |
| C1R | -3,27035 | 5,57E-10 |
| SYNM | -3,27062 | 4,49E-21 |

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| PGM1 | -3,27101 | 2,95E-34 |
| GNG12 | -3,27249 | 2,12E-60 |
| SPHK1 | -3,27336 | 8,79E-40 |
| COL1A1 | -3,28091 | 2,30E-41 |
| BTBD11 | -3,28182 | 6,65E-30 |
| HCAR1 | -3,28382 | 7,56E-10 |
| JAK1 | -3,28498 | 1,47E-53 |
| PXDN | -3,28529 | 4,70E-44 |
| LGR4 | -3,29107 | 3,38E-33 |
| ABHD6 | -3,30476 | 2,74E-19 |
| ANKRD13A | -3,30542 | 5,76E-23 |
| VWA5A | -3,30655 | 0,00019 |
| PTPRH | -3,30768 | 0,000158 |
| CD82 | -3,3142 | 9,56E-35 |
| AFF3 | -3,31554 | 3,82E-22 |
| HYI | -3,32041 | 2,82E-15 |
| UBE2L6 | -3,32554 | 4,33E-12 |
| FAM167A | -3,32617 | 8,22E-05 |
| ALDH3B1 | -3,33444 | 6,15E-09 |
| SERPINE2 | -3,33464 | 4,25E-21 |
| TEX15 | -3,34624 | 2,32E-47 |
| MACC1 | -3,3508 | 1,46E-10 |
| SYNJ2 | -3,3552 | 1,18E-75 |
| SYDE1 | -3,35741 | 1,98E-33 |
| GALNT2 | -3,35964 | 6,76E-92 |
| PALLD | -3,36194 | 2,34E-34 |
| ST5 | -3,36495 | 1,25E-22 |
| PPM1K | -3,3905 | 2,12E-12 |
| TRIP10 | -3,39742 | 2,01E-27 |
| CLCF1 | -3,42535 | 7,05E-07 |
| SPRY2 | -3,42555 | 5,47E-21 |
| PALM2 | -3,42697 | 2,08E-08 |
| PITX2 | -3,42847 | 1,14E-12 |
| COPZ2 | -3,42991 | 1,85E-16 |
| TUBB2A | -3,43092 | 7,37E-16 |
| ARHGAP24 | -3,43162 | 3,16E-11 |
| ADGRB2 | -3,44646 | 2,79E-27 |
| NRK | -3,4477 | 6,91E-07 |
| DLG4 | -3,45199 | 5,59E-16 |
| CDK14 | -3,45267 | 5,63E-19 |
| GPR176 | -3,4589 | 1,71E-13 |
| PRTFDC1 | -3,46787 | 1,55E-27 |
| C12orf75 | -3,46864 | 4,78E-70 |
| PRNP | -3,47213 | 1,22E-38 |
| SLC6A8 | -3,47383 | 4,02E-21 |
| NCR3LG1 | -3,4781 | 1,08E-15 |
| ARPIN | -3,48075 | 1,19E-28 |
| IRF1 | -3,48142 | 2,65E-35 |
| SYTL5 | -3,48149 | 1,70E-14 |
| FEZ1 | -3,48271 | 6,63E-24 |

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| CNTNAP1 | -3,48621 | 5,29E-24 |
| PLIN2 | -3,48767 | 6,05E-35 |
| TUBB4A | -3,49164 | 7,58E-23 |
| COL5A1 | -3,49548 | 9,45E-17 |
| RILPL2 | -3,49863 | 2,99E-13 |
| SLC16A2 | -3,50037 | 5,69E-10 |
| KCTD12 | -3,50782 | 1,23E-26 |
| SLC16A3 | -3,50908 | 4,06E-14 |
| DDX60L | -3,51163 | 1,68E-19 |
| SBF2 | -3,51413 | 1,04E-18 |
| CITED2 | -3,51568 | 3,72E-55 |
| CACNA2D4 | -3,51628 | 5,26E-05 |
| HOXA4 | -3,52966 | 4,38E-15 |
| KCCAT333 | -3,53078 | 0,000302 |
| NAV1 | -3,53219 | 1,04E-16 |
| CLCN4 | -3,53275 | 3,25E-16 |
| SERINC2 | -3,53491 | 4,56E-29 |
| ZDHHC8P1 | -3,53721 | 8,46E-09 |
| ABCB4 | -3,53831 | 1,46E-09 |
| WIPF1 | -3,54297 | 2,71E-24 |
| SLC9A5 | -3,5446 | 3,30E-08 |
| ZBTB38 | -3,55459 | 5,96E-69 |
| COL27A1 | -3,55495 | 4,14E-14 |
| MATN3 | -3,55717 | 2,99E-11 |
| FAM63B | -3,56061 | 1,49E-21 |
| ZNF264 | -3,56216 | 2,02E-21 |
| IFI27 | -3,56326 | 5,97E-07 |
| ADPRH | -3,57474 | 2,89E-16 |
| SLC2A3 | -3,57718 | 1,51E-06 |
| MLLT11 | -3,58314 | 8,50E-17 |
| SORBS2 | -3,60133 | 8,42E-06 |
| GRIK4 | -3,60263 | 0,000345 |
| ACSL4 | -3,62889 | 1,07E-52 |
| PLCE1 | -3,63253 | 8,14E-06 |
| SIPA1 | -3,63538 | 1,86E-38 |
| DCDC2 | -3,6387 | 6,88E-66 |
| TMEM178f | -3,64001 | 1,90E-82 |
| GABARAPL | -3,64231 | 2,27E-06 |
| PTGR1 | -3,64807 | 1,33E-25 |
| SLC1A1 | -3,65016 | 6,35E-08 |
| SUSD1 | -3,65036 | 2,91E-50 |
| LOXL1 | -3,65364 | 1,59E-36 |
| MAP1B | -3,65891 | 1,78E-23 |
| LRP1 | -3,66262 | 6,11E-12 |
| LYST | -3,66482 | 1,06E-22 |
| WLS | -3,66588 | 5,19E-32 |
| PARVA | -3,66659 | 7,51E-55 |
| APOLD1 | -3,67131 | 9,24E-05 |
| TSPAN2 | -3,67749 | 5,75E-05 |
| SEC14L2 | -3,68146 | 1,43E-19 |

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| FOXD1 | -3,68548 | 2,67E-09 |
| SFXN3 | -3,69401 | 7,41E-46 |
| DPY19L2P1 | -3,69531 | 6,76E-15 |
| FADS2 | -3,69888 | 1,64E-77 |
| F2R | -3,70183 | 3,22E-73 |
| PMP22 | -3,70398 | 3,50E-14 |
| SQRDL | -3,70682 | 8,94E-22 |
| HBEGF | -3,70969 | 1,59E-31 |
| AFAP1L2 | -3,71685 | 3,55E-36 |
| TBC1D2 | -3,71878 | 2,65E-19 |
| ZBTB47 | -3,72175 | 3,86E-09 |
| STEAP1 | -3,72305 | 1,68E-12 |
| DNM3 | -3,72409 | 0,000264 |
| ATP8B3 | -3,72696 | 0,000272 |
| ISPD | -3,72741 | 7,53E-06 |
| FCGRT | -3,73428 | 1,94E-12 |
| CACNA2D3 | -3,73989 | 2,18E-10 |
| HLA-A | -3,74 | 2,70E-55 |
| HOGA1 | -3,74063 | 4,06E-11 |
| SLFN11 | -3,74354 | 4,65E-30 |
| CD59 | -3,74807 | 1,19E-28 |
| TYW1B | -3,7482 | 1,19E-09 |
| FILIP1L | -3,75254 | 2,73E-22 |
| HNF4G | -3,75435 | 3,20E-09 |
| C3orf18 | -3,76425 | 1,08E-07 |
| SLC16A1-A' | -3,76458 | 0,000176 |
| TPK1 | -3,77082 | 4,64E-29 |
| DUSP7 | -3,77854 | 9,75E-24 |
| CRAT | -3,7818 | 3,30E-15 |
| AIM1L | -3,78954 | 6,50E-23 |
| MAF | -3,79673 | 3,42E-14 |
| B3GNT9 | -3,79857 | 3,84E-08 |
| MFGE8 | -3,80543 | 5,21E-71 |
| MAPRE2 | -3,81738 | 1,46E-36 |
| HMG5 | -3,8197 | 1,28E-06 |
| ZNF382 | -3,83396 | 4,12E-08 |
| CCDC88A | -3,83533 | 1,05E-85 |
| WNK4 | -3,83536 | 9,59E-13 |
| PDGFC | -3,83604 | 4,12E-14 |
| ARHGAP42 | -3,84275 | 3,47E-13 |
| IL4R | -3,84674 | 4,78E-28 |
| SLC15A3 | -3,84773 | 1,72E-05 |
| TSPAN1 | -3,85151 | 1,36E-10 |
| SLC30A4 | -3,85299 | 1,66E-06 |
| DNMBP | -3,85726 | 5,12E-50 |
| IL1RAP | -3,87064 | 2,60E-17 |
| UNC13D | -3,87904 | 0,000317 |
| PPARG | -3,87924 | 9,10E-30 |
| MT2A | -3,88119 | 5,73E-94 |
| HDX | -3,88811 | 3,62E-06 |

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| ADORA2B | -3,89946 | 7,84E-33 |
| ADAM9 | -3,89987 | 2,89E-135 |
| TMEM45A | -3,90774 | 1,69E-08 |
| LRRC8C | -3,90786 | 2,56E-28 |
| BTN3A1 | -3,90937 | 6,42E-11 |
| IL11 | -3,91071 | 2,60E-06 |
| CD27-AS1 | -3,91345 | 1,11E-08 |
| MGC70870 | -3,91416 | 3,58E-07 |
| P3H2 | -3,91902 | 6,59E-76 |
| SYTL3 | -3,93643 | 1,24E-17 |
| STARD8 | -3,95355 | 1,85E-25 |
| C10orf54 | -3,95711 | 0,000744 |
| GBP2 | -3,96402 | 1,09E-06 |
| ANOS1 | -3,97721 | 5,54E-10 |
| HSPA12A | -3,97883 | 2,40E-51 |
| FOXO1 | -3,97913 | 1,04E-27 |
| PTPN14 | -3,98269 | 1,86E-107 |
| SASH1 | -3,99091 | 1,24E-26 |
| MGLL | -3,99412 | 8,58E-23 |
| B3GALT5 | -3,99707 | 1,98E-13 |
| KBTBD11 | -3,99979 | 1,48E-23 |
| RP1L1 | -4,00921 | 0,000744 |
| HOXB13 | -4,01088 | 1,12E-06 |
| ADORA1 | -4,01838 | 1,51E-28 |
| HGD | -4,02108 | 2,13E-05 |
| C10orf11 | -4,02963 | 5,81E-08 |
| PTRF | -4,04627 | 3,46E-77 |
| CD68 | -4,0485 | 3,52E-14 |
| CMTM3 | -4,05857 | 3,81E-32 |
| TRAF1 | -4,06593 | 6,67E-19 |
| LRP4 | -4,06927 | 1,44E-32 |
| LINC00152 | -4,07008 | 1,32E-21 |
| IL15RA | -4,07069 | 1,60E-33 |
| EXT1 | -4,07201 | 4,81E-75 |
| HLA-DPA1 | -4,07969 | 0,000775 |
| TFPI | -4,08261 | 1,27E-17 |
| ADCY9 | -4,085 | 2,96E-72 |
| TUBA4A | -4,08854 | 5,75E-13 |
| MCC | -4,0906 | 5,39E-51 |
| PLEKHA2 | -4,10422 | 3,17E-43 |
| DSEL | -4,12413 | 4,38E-18 |
| CADPS2 | -4,12879 | 1,33E-06 |
| ZNF257 | -4,13294 | 7,95E-10 |
| PTPRB | -4,13923 | 1,35E-06 |
| C1S | -4,14854 | 0,000238 |
| FUT4 | -4,15591 | 1,69E-40 |
| ASPH | -4,15608 | 5,30E-55 |
| NCEH1 | -4,15795 | 1,38E-55 |
| HOTAIRM1 | -4,16569 | 3,95E-12 |
| LOC101928 | -4,17531 | 0,000629 |

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| FAM149A | -4,17866 | 3,37E-06 |
| GNB4 | -4,18028 | 2,36E-97 |
| TRIM47 | -4,1847 | 1,11E-46 |
| STAT5A | -4,21253 | 6,53E-05 |
| ULBP3 | -4,21435 | 5,41E-15 |
| SUGCT | -4,21832 | 7,97E-11 |
| FGF18 | -4,21868 | 4,29E-34 |
| STX1B | -4,22442 | 6,37E-09 |
| PORCN | -4,22875 | 1,66E-40 |
| BTN3A3 | -4,24597 | 7,66E-12 |
| COTL1 | -4,24627 | 8,15E-101 |
| EPDR1 | -4,25278 | 1,87E-51 |
| TGFA | -4,25708 | 3,45E-33 |
| PALD1 | -4,26368 | 2,85E-42 |
| SSC5D | -4,26952 | 0,000138 |
| PDE2A | -4,27446 | 4,35E-17 |
| SHISA2 | -4,28196 | 4,91E-37 |
| TRPC1 | -4,2853 | 1,78E-27 |
| C16orf62 | -4,2859 | 3,17E-88 |
| ARL4C | -4,28711 | 7,48E-122 |
| FAM13A | -4,28958 | 5,83E-25 |
| HCG4 | -4,29021 | 6,62E-05 |
| CCDC106 | -4,29835 | 3,64E-18 |
| RDH10 | -4,29974 | 5,20E-81 |
| TNFRSF11B | -4,30251 | 5,93E-33 |
| MX1 | -4,30678 | 3,00E-21 |
| CYP4V2 | -4,31698 | 4,60E-16 |
| CACNG8 | -4,3175 | 0,000663 |
| ARHGAP29 | -4,32476 | 3,91E-49 |
| RARB | -4,32538 | 3,98E-19 |
| EPHX4 | -4,33045 | 7,44E-16 |
| ADAMTS9 | -4,33533 | 2,16E-14 |
| HMCN1 | -4,3378 | 4,22E-53 |
| FRMD5 | -4,34552 | 1,52E-52 |
| CAMK2N1 | -4,34643 | 1,47E-38 |
| GAS6-AS2 | -4,34764 | 9,12E-05 |
| POU2F2 | -4,35395 | 7,40E-08 |
| THBD | -4,35923 | 6,23E-58 |
| VAMP5 | -4,36313 | 1,14E-11 |
| RHBDL2 | -4,36676 | 3,86E-05 |
| SHISA9 | -4,36822 | 1,67E-64 |
| SCARF1 | -4,37059 | 0,000147 |
| MTCL1 | -4,37795 | 6,53E-50 |
| CHST3 | -4,38628 | 1,22E-13 |
| TGFBR2 | -4,39314 | 6,95E-57 |
| ALDH1A3 | -4,40002 | 0,000106 |
| SPRED1 | -4,40777 | 6,83E-26 |
| GAS6-AS1 | -4,40908 | 1,67E-06 |
| PLK2 | -4,41074 | 1,45E-41 |
| FAM171A1 | -4,41629 | 2,90E-92 |

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| WNT5B | -4,43077 | 6,11E-23 |
| WSCD1 | -4,4328 | 1,13E-81 |
| CD44 | -4,43534 | 5,68E-115 |
| RAB11FIP5 | -4,43631 | 3,36E-27 |
| F2RL1 | -4,43925 | 6,09E-64 |
| VANGL2 | -4,45775 | 7,19E-44 |
| ABLIM3 | -4,4614 | 4,51E-34 |
| CDK6 | -4,46692 | 1,40E-19 |
| CFAP54 | -4,47554 | 2,41E-05 |
| FHL1 | -4,47633 | 1,39E-32 |
| GLIPR2 | -4,4903 | 1,17E-59 |
| FBN2 | -4,49488 | 9,41E-36 |
| ARL4D | -4,51608 | 7,68E-65 |
| IL6 | -4,52141 | 2,35E-07 |
| ERO1B | -4,52671 | 1,17E-06 |
| HOXB6 | -4,53858 | 1,66E-08 |
| TCN2 | -4,5416 | 0,00027 |
| AMPD3 | -4,5425 | 2,09E-38 |
| ARNTL2 | -4,55873 | 3,18E-65 |
| GULP1 | -4,56017 | 1,23E-51 |
| COL13A1 | -4,56462 | 0,000183 |
| ROR1 | -4,58596 | 7,30E-54 |
| RBMS2 | -4,58825 | 1,74E-69 |
| OXTR | -4,58951 | 4,57E-39 |
| EPHB1 | -4,60528 | 2,07E-30 |
| HOXB-AS1 | -4,62061 | 0,000196 |
| OPTN | -4,6248 | 2,26E-19 |
| HCP5 | -4,63031 | 4,40E-06 |
| DSE | -4,63193 | 2,39E-71 |
| PLEKHA4 | -4,63427 | 1,76E-18 |
| LBX2 | -4,64793 | 9,32E-05 |
| YOD1 | -4,6484 | 2,78E-17 |
| MXRA7 | -4,65213 | 1,44E-66 |
| C6orf99 | -4,66586 | 2,12E-10 |
| SYNC | -4,67392 | 2,38E-35 |
| LRRK1 | -4,67546 | 5,94E-41 |
| SYCE1L | -4,67711 | 8,88E-05 |
| DPP4 | -4,68447 | 5,57E-06 |
| SIK1 | -4,68884 | 5,00E-08 |
| SERPINB9 | -4,69615 | 2,00E-41 |
| LETM2 | -4,69652 | 4,20E-25 |
| ST6GAL2 | -4,70192 | 0,000233 |
| TMEM255E | -4,71403 | 3,24E-08 |
| SNX7 | -4,71756 | 1,21E-51 |
| EPHB2 | -4,726 | 1,73E-188 |
| CDC42EP3 | -4,72714 | 9,71E-94 |
| ULBP2 | -4,73674 | 9,73E-12 |
| SH3PXD2A | -4,74027 | 9,00E-42 |
| TENM4 | -4,7405 | 1,02E-47 |
| ERICH5 | -4,78015 | 0,00068 |

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| ADAMTSL1 | -4,78177 | 3,85E-08 |
| PNMA2 | -4,78186 | 5,65E-16 |
| MAL | -4,78457 | 5,25E-07 |
| PLA2G4A | -4,78594 | 2,25E-07 |
| MAFF | -4,79249 | 1,10E-06 |
| LIF | -4,79709 | 4,14E-21 |
| TOR4A | -4,80273 | 4,24E-78 |
| PTGS1 | -4,80601 | 4,04E-07 |
| B3GNT5 | -4,80631 | 2,74E-12 |
| BEST3 | -4,80943 | 6,54E-16 |
| HSPG2 | -4,80951 | 2,94E-101 |
| GLRB | -4,82242 | 1,26E-24 |
| COL6A3 | -4,8276 | 6,71E-08 |
| KIF7 | -4,83119 | 3,74E-09 |
| ZNF702P | -4,84505 | 1,77E-37 |
| TBX15 | -4,84677 | 5,80E-10 |
| ETV4 | -4,85651 | 1,46E-11 |
| GLRX | -4,85912 | 3,03E-10 |
| IL18 | -4,86126 | 3,05E-11 |
| CX3CL1 | -4,87329 | 1,42E-06 |
| ANK2 | -4,87579 | 7,23E-28 |
| B3GNT7 | -4,87901 | 3,62E-05 |
| ELFN2 | -4,87909 | 3,46E-24 |
| ICAM1 | -4,8832 | 6,24E-28 |
| NUDT11 | -4,89762 | 2,05E-22 |
| SEMA3E | -4,89897 | 3,79E-13 |
| TBXAS1 | -4,89965 | 5,13E-15 |
| ECE1 | -4,90941 | 1,43E-176 |
| SP100 | -4,91081 | 2,93E-10 |
| TMEM133 | -4,91131 | 1,45E-12 |
| MRC2 | -4,92235 | 6,90E-34 |
| SMARCA1 | -4,9275 | 2,45E-40 |
| C17orf51 | -4,93637 | 3,42E-34 |
| TRABD2A | -4,94089 | 2,26E-07 |
| EPHA2 | -4,94358 | 3,67E-47 |
| SLC12A4 | -4,95185 | 1,53E-18 |
| TRNP1 | -4,95321 | 1,42E-93 |
| ALPK3 | -4,95348 | 2,09E-19 |
| ARMCX2 | -4,96049 | 1,64E-39 |
| LINC00472 | -4,96459 | 1,11E-09 |
| ADAM19 | -4,96677 | 2,52E-80 |
| DRAXIN | -4,96833 | 0,000808 |
| FLJ32255 | -4,97184 | 6,76E-05 |
| BCAR3 | -4,98914 | 1,94E-123 |
| LTBP2 | -5,00513 | 6,33E-46 |
| LDLRAD2 | -5,01702 | 0,000188 |
| BTN3A2 | -5,01827 | 1,57E-18 |
| ANXA3 | -5,02553 | 1,63E-69 |
| SEMA3A | -5,02594 | 6,96E-16 |
| CAV2 | -5,03138 | 1,65E-104 |

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| VIM-AS1 | -5,04365 | 2,99E-54 |
| DACT1 | -5,04824 | 1,85E-12 |
| FAM101B | -5,05821 | 4,16E-98 |
| AMPH | -5,06257 | 1,37E-05 |
| BCL2L15 | -5,10303 | 8,64E-34 |
| LYPD1 | -5,10645 | 9,85E-73 |
| TAGLN | -5,10996 | 3,99E-49 |
| CMTM7 | -5,11201 | 9,40E-71 |
| TMEM92 | -5,11656 | 9,60E-11 |
| FBXO32 | -5,12514 | 1,32E-25 |
| SHC3 | -5,12738 | 1,63E-19 |
| NDRG1 | -5,14677 | 7,72E-131 |
| ANKLE1 | -5,14841 | 1,62E-06 |
| SSPN | -5,14851 | 1,83E-54 |
| IGF2BP2 | -5,1503 | 1,23E-147 |
| EEPD1 | -5,15638 | 6,37E-30 |
| ZNF528 | -5,16946 | 4,95E-11 |
| SYNE1 | -5,16983 | 4,66E-37 |
| CRIM1 | -5,17649 | 5,31E-84 |
| NAP1L5 | -5,18004 | 1,67E-07 |
| APLN | -5,18249 | 5,98E-14 |
| DENND1C | -5,18357 | 4,31E-11 |
| HOXA2 | -5,18606 | 1,76E-08 |
| ST3GAL2 | -5,18763 | 4,80E-61 |
| LOX | -5,18837 | 5,09E-83 |
| DUSP6 | -5,19693 | 1,11E-09 |
| SPRY4 | -5,20081 | 1,76E-36 |
| LINC00673 | -5,20156 | 4,82E-08 |
| NFKBIZ | -5,20257 | 2,43E-69 |
| MARCH3 | -5,20376 | 6,34E-14 |
| GPR143 | -5,20479 | 1,04E-51 |
| HOXA-AS3 | -5,20871 | 4,08E-07 |
| DAGLA | -5,21465 | 6,98E-102 |
| CNIH3 | -5,22294 | 1,04E-09 |
| CREB3L1 | -5,23049 | 4,44E-20 |
| LIX1L | -5,23057 | 4,44E-60 |
| TLL2 | -5,23647 | 3,57E-34 |
| DENND3 | -5,2379 | 2,12E-43 |
| VEGFC | -5,24513 | 3,72E-27 |
| MITF | -5,25449 | 3,63E-17 |
| HLA-B | -5,2557 | 9,13E-32 |
| LCAT | -5,25728 | 4,07E-08 |
| ADRB2 | -5,25823 | 2,89E-06 |
| MEIS2 | -5,25853 | 8,98E-07 |
| SEPT10 | -5,26625 | 6,71E-40 |
| SLC16A7 | -5,26639 | 5,56E-22 |
| ADAMTS15 | -5,26718 | 5,26E-34 |
| TIMP2 | -5,26722 | 1,30E-192 |
| PLXNC1 | -5,26782 | 1,41E-23 |
| RASSF4 | -5,27044 | 2,18E-23 |

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| PXK | -5,27069 | 3,00E-35 |
| ST6GAL1 | -5,27291 | 5,53E-47 |
| DGKA | -5,2773 | 7,84E-28 |
| ARMC4 | -5,29726 | 1,25E-17 |
| ITGB6 | -5,30556 | 1,78E-06 |
| GSTM2 | -5,31184 | 0,000144 |
| ACO1 | -5,31196 | 2,70E-70 |
| CAMK4 | -5,31361 | 8,80E-28 |
| MBP | -5,32066 | 1,74E-78 |
| LYN | -5,32289 | 8,39E-40 |
| MSRB3 | -5,3236 | 2,93E-83 |
| PCDHGB4 | -5,32463 | 2,34E-15 |
| MTAP | -5,32638 | 3,33E-24 |
| ST6GALNA4 | -5,33605 | 1,62E-06 |
| SLITRK5 | -5,34091 | 1,98E-07 |
| PLEKHG4B | -5,3519 | 2,01E-32 |
| VNN2 | -5,3777 | 8,69E-05 |
| TAPBPL | -5,38466 | 1,09E-38 |
| DUSP10 | -5,39196 | 1,73E-41 |
| ADAMTS2 | -5,39304 | 0,000847 |
| GNAI1 | -5,40077 | 8,18E-69 |
| EDN2 | -5,40545 | 6,31E-07 |
| ATP8A2 | -5,4065 | 1,81E-32 |
| AGPAT4 | -5,41088 | 7,06E-52 |
| ANXA8 | -5,41797 | 1,51E-07 |
| GRIK2 | -5,41919 | 0,000906 |
| PLAUR | -5,42194 | 1,27E-29 |
| C14orf159 | -5,42649 | 9,35E-71 |
| ZNF788 | -5,4572 | 4,22E-05 |
| ABHD8 | -5,45729 | 1,26E-27 |
| LBH | -5,45883 | 0,000592 |
| NAV2 | -5,45906 | 8,57E-144 |
| DSCAML1 | -5,4903 | 1,71E-10 |
| NAP1L3 | -5,49355 | 0,000524 |
| GATA4 | -5,49609 | 2,60E-20 |
| CREB5 | -5,50396 | 8,76E-05 |
| C3orf52 | -5,5105 | 1,33E-16 |
| SATB1 | -5,5349 | 1,47E-11 |
| VILL | -5,54097 | 3,24E-05 |
| PROS1 | -5,56284 | 3,36E-25 |
| LIMCH1 | -5,56302 | 2,60E-33 |
| TMCC3 | -5,56522 | 2,75E-53 |
| SIRPA | -5,57215 | 4,45E-170 |
| PAPSS2 | -5,58737 | 5,38E-06 |
| HOXA7 | -5,58918 | 4,37E-17 |
| NLRC5 | -5,62313 | 1,88E-30 |
| ELK3 | -5,63457 | 1,06E-70 |
| TGFB2 | -5,63475 | 8,07E-27 |
| TLR2 | -5,63876 | 1,96E-08 |
| ARAP3 | -5,64119 | 3,33E-56 |

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| DOCK3 | -5,64744 | 3,03E-21 |
| PLA2G16 | -5,65715 | 6,23E-77 |
| KCNMA1 | -5,65882 | 1,64E-41 |
| PPP4R4 | -5,66113 | 5,94E-17 |
| TNFAIP3 | -5,66484 | 4,14E-65 |
| CASP10 | -5,67618 | 3,37E-21 |
| ZNF415 | -5,69203 | 1,47E-09 |
| ITGA5 | -5,69452 | 2,27E-145 |
| ACSL5 | -5,69674 | 3,92E-19 |
| DZIP1L | -5,70729 | 1,56E-09 |
| HOXA-AS2 | -5,71217 | 1,99E-16 |
| PLTP | -5,72443 | 2,40E-68 |
| RAB32 | -5,73597 | 1,99E-52 |
| ZNF439 | -5,73758 | 0,000149 |
| SOX7 | -5,73814 | 9,95E-28 |
| GEM | -5,74633 | 9,03E-75 |
| NOG | -5,75128 | 1,02E-14 |
| SAMD9L | -5,7522 | 2,76E-09 |
| HSPB6 | -5,75276 | 3,70E-17 |
| INPP1 | -5,76856 | 2,82E-14 |
| APBB1 | -5,77664 | 5,73E-70 |
| MN1 | -5,77779 | 1,86E-11 |
| FNDC4 | -5,77962 | 3,81E-29 |
| EDIL3 | -5,78302 | 2,28E-23 |
| DAB2 | -5,78868 | 3,09E-17 |
| LONRF3 | -5,79482 | 0,000128 |
| IGFBP6 | -5,80159 | 1,92E-37 |
| TMEM173 | -5,80917 | 6,86E-10 |
| ZPLD1 | -5,81251 | 9,16E-05 |
| CAV1 | -5,81552 | 6,67E-115 |
| TRIM6 | -5,82253 | 1,16E-17 |
| HOXC8 | -5,84132 | 1,96E-26 |
| B3GALT5-A | -5,85358 | 2,15E-29 |
| LOC101927 | -5,8577 | 9,95E-05 |
| FAT4 | -5,85874 | 2,49E-41 |
| KHDRBS3 | -5,8687 | 0,000906 |
| GRIK5 | -5,87345 | 1,72E-14 |
| SH2D5 | -5,88545 | 3,68E-84 |
| LPXN | -5,88584 | 3,79E-143 |
| AOX1 | -5,89307 | 2,02E-15 |
| PTPN22 | -5,89333 | 8,85E-27 |
| DAPK1 | -5,89809 | 2,64E-18 |
| RFTN1 | -5,89958 | 7,98E-86 |
| SFRP4 | -5,90177 | 1,56E-06 |
| GNA15 | -5,90966 | 3,65E-13 |
| CPED1 | -5,91726 | 6,40E-11 |
| RIN2 | -5,92037 | 4,45E-67 |
| CSF1 | -5,92673 | 3,18E-78 |
| LOC400043 | -5,93301 | 2,73E-09 |
| SPOCD1 | -5,9448 | 4,94E-13 |

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| ADM | -5,95902 | 1,65E-36 |
| SRPX | -5,96198 | 8,29E-57 |
| TBX20 | -5,99354 | 1,18E-09 |
| AMIGO2 | -6,00824 | 1,11E-229 |
| CRYBG3 | -6,02086 | 3,56E-52 |
| CASP4 | -6,03457 | 0,00064 |
| TRANK1 | -6,03772 | 2,56E-32 |
| SH3RF2 | -6,04489 | 4,03E-52 |
| LAT | -6,04688 | 3,55E-15 |
| CFH | -6,06013 | 2,26E-05 |
| CD109 | -6,06958 | 1,49E-109 |
| S100A2 | -6,08311 | 2,67E-27 |
| RAB3B | -6,10696 | 5,11E-104 |
| PRKCA | -6,11068 | 5,82E-124 |
| FHOD3 | -6,11526 | 8,26E-28 |
| LIPE | -6,11667 | 1,65E-05 |
| COL7A1 | -6,1234 | 1,72E-78 |
| TTLL6 | -6,12849 | 1,51E-05 |
| PYGL | -6,14354 | 1,39E-06 |
| CTTNBP2 | -6,14676 | 6,28E-15 |
| MCAM | -6,1509 | 2,30E-58 |
| PIK3CD | -6,17541 | 1,24E-54 |
| SH2B3 | -6,17875 | 1,30E-201 |
| GJA1 | -6,18619 | 8,64E-28 |
| PPP1R3C | -6,19335 | 1,26E-05 |
| ARHGAP23 | -6,20115 | 6,19E-51 |
| CALD1 | -6,22628 | 2,12E-37 |
| SV2A | -6,23355 | 3,08E-49 |
| CACNG7 | -6,24829 | 7,17E-06 |
| SOX9 | -6,25767 | 1,41E-68 |
| LINC01138 | -6,26826 | 6,83E-06 |
| ARMCX4 | -6,27377 | 3,11E-11 |
| ACOT2 | -6,31556 | 4,52E-24 |
| EPSTI1 | -6,31954 | 4,59E-06 |
| EVA1A | -6,32309 | 2,81E-44 |
| PNPLA3 | -6,32446 | 4,81E-10 |
| CPM | -6,33794 | 9,90E-54 |
| KIAA1549L | -6,3397 | 2,14E-123 |
| JAZF1 | -6,35759 | 1,04E-41 |
| ZC3H12C | -6,36653 | 1,88E-58 |
| DCBLD2 | -6,38735 | 3,66E-156 |
| AKAP12 | -6,39469 | 1,10E-123 |
| UBASH3B | -6,39533 | 1,33E-99 |
| TIMP4 | -6,40864 | 0,000813 |
| CHST1 | -6,41114 | 1,30E-40 |
| TRO | -6,41722 | 2,49E-14 |
| APOL6 | -6,42314 | 2,02E-67 |
| PIK3AP1 | -6,42562 | 4,15E-41 |
| ACY3 | -6,42873 | 0,000724 |
| EPB41L2 | -6,45231 | 8,32E-209 |

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| SIRPB1 | -6,46234 | 5,11E-12 |
| ARHGEF40 | -6,48282 | 5,26E-47 |
| KCNH1 | -6,50496 | 8,86E-19 |
| LINC01605 | -6,53498 | 1,07E-38 |
| APOL3 | -6,53892 | 2,35E-11 |
| ENTPD3 | -6,55007 | 1,52E-12 |
| PRICKLE1 | -6,55028 | 1,26E-49 |
| MICAL2 | -6,55117 | 4,66E-177 |
| IRAK3 | -6,57546 | 0,000464 |
| LOC101928 | -6,58329 | 0,000485 |
| CLDN1 | -6,58331 | 4,13E-07 |
| PPP1R3G | -6,58748 | 0,000418 |
| LAMC2 | -6,5896 | 5,21E-117 |
| CD274 | -6,59104 | 4,94E-13 |
| GATA2-AS1 | -6,59997 | 0,000449 |
| CCBE1 | -6,60813 | 1,43E-13 |
| PROCR | -6,61296 | 8,85E-28 |
| PSMB9 | -6,61754 | 2,29E-70 |
| BEAN1 | -6,61828 | 0,000377 |
| PLAG1 | -6,61918 | 1,58E-09 |
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| ANTXR2 | -6,62818 | 5,52E-27 |
| ITGAM | -6,65569 | 2,29E-10 |
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| EGFR | -6,6561 | 4,90E-173 |
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| ARL10 | -6,6806 | 0,000314 |
| RAG1 | -6,69323 | 7,11E-16 |
| ZNF426 | -6,74785 | 4,98E-15 |
| APOL1 | -6,76836 | 2,42E-06 |
| IL15 | -6,77333 | 2,59E-10 |
| MILR1 | -6,7911 | 0,000234 |
| SLC4A4 | -6,82016 | 1,30E-15 |
| ZDHHC2 | -6,83158 | 3,93E-59 |
| DPY19L2 | -6,83422 | 1,63E-10 |
| HPGD | -6,84985 | 1,04E-46 |
| CGNL1 | -6,85762 | 4,85E-47 |
| FHL2 | -6,86034 | 6,99E-37 |
| CAPN2 | -6,87173 | 6,05E-63 |
| ANXA1 | -6,87337 | 1,62E-223 |
| RASSF6 | -6,88192 | 7,09E-11 |
| SCN5A | -6,89013 | 4,69E-115 |
| CCDC181 | -6,90383 | 4,81E-08 |
| PPP1R14C | -6,9193 | 1,72E-14 |
| HLX | -6,93535 | 5,60E-08 |
| LOXL2 | -6,94379 | 1,49E-37 |
| TMEM98 | -6,94645 | 9,15E-104 |
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| MID1 | -6,95334 | 5,27E-79 |

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| PLSCR4 | -6,9756 | 9,70E-05 |
| ALDH1A1 | -6,97607 | 1,13E-20 |
| NRG2 | -7,00981 | 4,88E-19 |
| IGF2BP1 | -7,02565 | 6,67E-67 |
| ALOX5 | -7,05918 | 7,88E-05 |
| CDKN1C | -7,06624 | 9,35E-12 |
| BDNF | -7,06776 | 2,09E-51 |
| TMEM200E | -7,07343 | 4,04E-22 |
| SPOCK1 | -7,09518 | 1,79E-135 |
| ASB2 | -7,09591 | 8,34E-12 |
| CAND2 | -7,11725 | 6,46E-05 |
| APCDD1L-A | -7,11936 | 1,37E-08 |
| BATF3 | -7,12519 | 5,29E-05 |
| FBN1 | -7,13849 | 2,63E-125 |
| BANK1 | -7,13878 | 6,91E-05 |
| HAPLN3 | -7,14681 | 1,29E-19 |
| CYP24A1 | -7,15192 | 8,22E-302 |
| PIWIL4 | -7,1531 | 4,88E-05 |
| GLIPR1 | -7,1534 | 2,10E-83 |
| CLSTN2 | -7,16039 | 2,48E-37 |
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| BIN1 | -7,20088 | 1,39E-107 |
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| GBP1 | -7,21704 | 6,61E-33 |
| PWARSN | -7,22303 | 0,001009 |
| PIK3R6 | -7,22581 | 0,000911 |
| GCNT4 | -7,22789 | 0,000921 |
| TSLP | -7,22858 | 0,000941 |
| RGN | -7,22927 | 0,000969 |
| PLCL2 | -7,22953 | 2,73E-20 |
| MME | -7,23354 | 2,22E-05 |
| ABCB1 | -7,23972 | 7,99E-51 |
| FAM49A | -7,24399 | 7,59E-60 |
| TICAM2 | -7,25133 | 0,000918 |
| ST3GAL6 | -7,26935 | 3,43E-05 |
| MPP1 | -7,2761 | 7,23E-68 |
| MIR614 | -7,27782 | 2,94E-05 |
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| GCKR | -7,28242 | 0,000725 |
| HBD | -7,30828 | 0,00068 |
| ABCA13 | -7,31089 | 0,000647 |
| LINC00667 | -7,31548 | 0,000807 |
| PTCHD4 | -7,31914 | 3,02E-27 |
| LTB | -7,31934 | 1,71E-09 |
| C1QTNF1 | -7,3204 | 1,50E-22 |
| VAT1L | -7,32194 | 2,21E-16 |
| FMN2 | -7,32362 | 2,70E-21 |
| TP73-AS1 | -7,33423 | 0,000667 |
| NYX | -7,33818 | 0,000582 |
| ZNF69 | -7,36053 | 0,000585 |

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| SERPINA6 | -7,3618 | 0,000545 |
| KCNT2 | -7,36243 | 0,000532 |
| TWIST1 | -7,36351 | 2,66E-13 |
| CCND2-AS1 | -7,36558 | 0,000532 |
| PTPRR | -7,36558 | 0,000532 |
| IQCA1 | -7,3789 | 3,54E-23 |
| PIANP | -7,38111 | 4,49E-17 |
| CACNG6 | -7,38175 | 1,99E-13 |
| CH17-408N | -7,38628 | 0,000535 |
| ZNF556 | -7,38815 | 0,000482 |
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| KCP | -7,39062 | 0,000467 |
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| HHIPL1 | -7,39558 | 0,000633 |
| SPNS3 | -7,40787 | 0,000744 |
| CYTH4 | -7,41341 | 0,000439 |
| TGM5 | -7,41523 | 0,000419 |
| CORO2B | -7,42032 | 7,05E-41 |
| HEG1 | -7,42277 | 7,89E-07 |
| ZNF717 | -7,42811 | 1,22E-09 |
| DYSF | -7,42883 | 1,28E-57 |
| SSTR1 | -7,43704 | 0,000431 |
| FOSL1 | -7,43762 | 4,91E-87 |
| PAK3 | -7,43836 | 1,32E-26 |
| LUM | -7,44421 | 1,06E-09 |
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| NEK9 | -7,45492 | 9,62E-06 |
| PDGFD | -7,45729 | 0,000648 |
| ZNF582 | -7,46382 | 0,000347 |
| LINC00312 | -7,46793 | 0,000366 |
| PSG5 | -7,47029 | 0,000442 |
| ALDH2 | -7,47262 | 7,60E-68 |
| ETV5 | -7,47729 | 6,62E-106 |
| TGFB111 | -7,4789 | 2,92E-07 |
| GLYATL2 | -7,49012 | 0,000306 |
| KLHDC7A | -7,49456 | 1,21E-09 |
| SOGA3 | -7,50527 | 1,46E-21 |
| HIF3A | -7,50565 | 0,000519 |
| PPAPDC3 | -7,51026 | 0,000307 |
| TMEM132I | -7,51651 | 0,000307 |
| CABP4 | -7,52556 | 1,03E-05 |
| ZNF844 | -7,53468 | 9,87E-06 |
| PIK3CG | -7,53852 | 0,000257 |
| TRIM38 | -7,54162 | 0,00026 |
| ZNF280A | -7,54301 | 0,000379 |
| INHBA-AS1 | -7,5591 | 0,000226 |
| KIFC3 | -7,55986 | 3,05E-60 |
| IL4I1 | -7,5656 | 0,000238 |
| C1RL | -7,56719 | 2,12E-18 |

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| LOXL4 | -7,57096 | 2,12E-18 |
| RRN3P1 | -7,57939 | 0,00023 |
| ME3 | -7,5864 | 2,94E-48 |
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| SFTA1P | -7,60475 | 0,000184 |
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| GRIN2B | -7,62123 | 0,00025 |
| SUCLG2-AS | -7,62307 | 8,37E-06 |
| IL7 | -7,62336 | 0,000196 |
| CDH10 | -7,62652 | 0,000167 |
| LINC00654 | -7,62914 | 0,000177 |
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| MMP24 | -7,63167 | 7,61E-108 |
| PLA1A | -7,67215 | 0,000145 |
| CHST4 | -7,67317 | 0,000155 |
| KLHL3 | -7,67573 | 0,000204 |
| PAX8 | -7,67804 | 1,10E-118 |
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| RIN1 | -7,68239 | 2,33E-141 |
| ARSI | -7,68891 | 0,000133 |
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| CFI | -7,69293 | 0,00013 |
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| PRSS12 | -7,70324 | 3,49E-15 |
| LINC00880 | -7,71193 | 0,000113 |
| GIMAP2 | -7,71639 | 0,000147 |
| KIAA1755 | -7,71739 | 0,000167 |
| SULT1C2 | -7,72971 | 0,000113 |
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| LIN28B | -7,75691 | 0,000122 |
| MGARP | -7,76678 | 6,40E-11 |
| CFTR | -7,77176 | 8,61E-05 |
| CDH5 | -7,78894 | 5,31E-11 |
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| MT1M | -7,82967 | 6,57E-05 |
| DLL3 | -7,83103 | 6,53E-05 |
| TWIST2 | -7,83103 | 6,53E-05 |
| GPC6 | -7,84154 | 9,92E-16 |
| ITPRIPL1 | -7,84773 | 2,71E-06 |
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| LINGO2 | -7,86761 | 5,46E-05 |
| KCTD19 | -7,8685 | 5,46E-05 |
| IGFBP7-AS1 | -7,86983 | 5,73E-05 |
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| DMGDH | -7,87714 | 2,22E-06 |
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| EVI2A | -7,88665 | 4,99E-05 |
| DPYSL3 | -7,88958 | 3,18E-200 |

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| DKK3 | -7,91409 | 3,07E-139 |
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| B3GALT1 | -7,97291 | 3,47E-05 |
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| ADAMTS14 | -7,97689 | 7,72E-30 |
| IFFO1 | -7,98828 | 1,06E-16 |
| TNFRSF14 | -7,98917 | 9,99E-12 |
| ZBTB20 | -7,98995 | 1,10E-51 |
| ZBTB18 | -8,01148 | 1,28E-72 |
| LHFP | -8,01589 | 1,65E-40 |
| ILDR2 | -8,01775 | 3,68E-35 |
| SDPR | -8,01822 | 3,29E-27 |
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| COL12A1 | -8,03962 | 9,03E-104 |
| KANK4 | -8,03972 | 2,56E-05 |
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| LINC01444 | -8,04287 | 2,37E-05 |
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| KRT34 | -8,05897 | 2,17E-05 |
| RBMS3 | -8,06967 | 2,14E-55 |
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| SCN4B | -8,10697 | 1,71E-05 |
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| MAP3K7CL | -8,15488 | 1,51E-05 |
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| ERAP2 | -8,18038 | 2,59E-106 |
| LINC00857 | -8,18666 | 1,67E-12 |

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| TM4SF1 | -8,19047 | 7,96E-222 |
| LRRC15 | -8,19807 | 1,09E-05 |
| FAM65C | -8,19948 | 1,18E-05 |
| GPRIN2 | -8,20019 | 1,26E-05 |
| MYOM2 | -8,21218 | 9,99E-06 |
| VSIG1 | -8,21358 | 1,05E-05 |
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| CCL28 | -8,22408 | 1,03E-05 |
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| CTHRC1 | -8,2364 | 2,17E-142 |
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| PHACTR1 | -8,24035 | 1,04E-12 |
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| EMP1 | -8,24381 | 1,09E-12 |
| RELN | -8,2443 | 3,37E-33 |
| ANKRD33B | -8,24635 | 5,16E-65 |
| TLX2 | -8,25304 | 8,65E-06 |
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| ASIC2 | -8,28209 | 7,05E-06 |
| TNFSF12 | -8,28276 | 6,94E-06 |
| ADAM12 | -8,28413 | 8,30E-35 |
| C1RL-AS1 | -8,29276 | 8,98E-06 |
| SYT11 | -8,29432 | 9,36E-34 |
| IL31RA | -8,29673 | 6,45E-06 |
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| LRRN3 | -8,29739 | 6,50E-06 |
| EPHA5 | -8,29838 | 6,79E-06 |
| ITGB8 | -8,30167 | 8,52E-61 |
| CXCL3 | -8,31077 | 3,18E-07 |
| HOXD-AS2 | -8,32299 | 5,74E-06 |
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| RGS4 | -8,32493 | 5,71E-06 |
| TRIM22 | -8,32935 | 1,70E-74 |
| C15orf52 | -8,33199 | 5,01E-07 |
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| PROM1 | -8,33979 | 5,87E-06 |
| TFCP2 | -8,34354 | 9,35E-05 |
| TMBIM1 | -8,3529 | 2,34E-81 |
| SLIT3 | -8,359 | 1,83E-24 |
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| NDP | -8,36748 | 5,95E-06 |
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| PWAR5 | -8,40207 | 3,75E-06 |
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| COL4A6 | -8,46015 | 1,64E-07 |
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| MMP7 | -8,72184 | 6,86E-07 |
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| USP44 | -8,7441 | 6,62E-07 |
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| EMP3 | -8,88687 | 4,25E-76 |
| ARHGAP31 | -8,88709 | 2,86E-07 |
| CATSPER1 | -8,88731 | 2,89E-07 |
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| FGFBP1 | -8,93298 | 2,39E-07 |
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| UPK1B | -8,95895 | 2,01E-07 |
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| KCTD4 | -9,11376 | 8,01E-08 |
| ITGB3 | -9,12468 | 6,56E-09 |
| PPARGC1A | -9,12909 | 7,40E-08 |
| BNC2 | -9,12924 | 5,99E-09 |
| FBLN7 | -9,13075 | 7,79E-08 |
| PTPRD-AS1 | -9,13466 | 8,54E-08 |

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| CLMP | -9,16006 | 1,21E-30 |
| FOXC2 | -9,16992 | 5,11E-09 |
| NALCN | -9,18042 | 6,27E-08 |
| TRPC4 | -9,1986 | 5,37E-08 |
| ZNF559 | -9,21236 | 4,69E-08 |
| IL7R | -9,21832 | 4,57E-08 |
| ZFP82 | -9,22373 | 5,42E-08 |
| C3AR1 | -9,2272 | 4,39E-08 |
| HOXB5 | -9,24018 | 4,00E-08 |
| CDH2 | -9,24983 | 1,62E-129 |
| NLGN1 | -9,25389 | 3,81E-08 |
| FMOD | -9,26544 | 5,16E-08 |
| EBI3 | -9,27656 | 3,28E-08 |
| AJAP1 | -9,28496 | 5,19E-06 |
| GREM2 | -9,29226 | 3,66E-08 |
| TSPAN18 | -9,30148 | 2,74E-09 |
| PTPN20 | -9,30318 | 2,80E-08 |
| VGLL3 | -9,31745 | 2,58E-08 |
| HHIP-AS1 | -9,3194 | 3,03E-08 |
| POU5F1 | -9,32428 | 2,48E-08 |
| FBLN1 | -9,32706 | 1,79E-07 |
| C8orf31 | -9,33077 | 2,38E-08 |
| OSR1 | -9,34942 | 2,32E-09 |
| BVES | -9,34989 | 2,18E-08 |
| ADAMTS16 | -9,35163 | 2,20E-08 |
| RNF175 | -9,35673 | 2,08E-08 |
| NKX2-4 | -9,36339 | 2,00E-08 |
| MPP4 | -9,38161 | 1,99E-08 |
| TGFBI | -9,38428 | 3,27E-86 |
| KCCAT198 | -9,39945 | 2,33E-08 |
| SCN9A | -9,40773 | 1,93E-17 |
| KCNJ2 | -9,40989 | 1,57E-08 |
| LINC01322 | -9,40989 | 1,57E-08 |
| TNFRSF1B | -9,41555 | 1,48E-08 |
| ST8SIA2 | -9,42771 | 1,50E-09 |
| S1PR1 | -9,43283 | 1,44E-08 |
| KCNJ16 | -9,43298 | 1,42E-08 |
| TIE1 | -9,43929 | 1,36E-08 |
| NCAM1 | -9,445 | 2,91E-55 |
| KCNQ3 | -9,46383 | 1,20E-08 |
| ZNF215 | -9,48345 | 1,01E-08 |
| SERPINE1 | -9,4878 | 1,70E-10 |
| ZNF667-AS | -9,50711 | 8,82E-09 |
| DSC3 | -9,51561 | 5,21E-18 |
| SLAMF7 | -9,51725 | 1,50E-08 |
| MSC-AS1 | -9,52475 | 7,99E-09 |
| ZNF470 | -9,53769 | 7,75E-09 |
| ZNF667 | -9,57011 | 6,43E-09 |
| GLI2 | -9,57467 | 6,67E-42 |
| TMEM47 | -9,57604 | 4,05E-18 |

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| C11orf45 | -9,57613 | 6,07E-09 |
| HDAC9 | -9,59006 | 5,01E-65 |
| ZNF660 | -9,5994 | 5,22E-09 |
| NEFL | -9,61476 | 5,03E-09 |
| NPR2 | -9,62044 | 5,51E-10 |
| PLAT | -9,62098 | 4,64E-09 |
| EREG | -9,62983 | 4,99E-11 |
| OSBPL3 | -9,6452 | 1,49E-94 |
| ADRA1B | -9,66179 | 4,98E-09 |
| MPV17L | -9,68069 | 3,29E-09 |
| TNC | -9,68958 | 6,24E-74 |
| NEXN | -9,70331 | 2,79E-27 |
| MIR31HG | -9,71616 | 2,75E-09 |
| ZNF665 | -9,71677 | 2,68E-09 |
| FGF1 | -9,72073 | 2,80E-09 |
| PSG1 | -9,72885 | 2,83E-09 |
| SERPINB7 | -9,72922 | 3,00E-09 |
| MT1A | -9,74714 | 2,27E-09 |
| SLFN12 | -9,74726 | 2,26E-09 |
| C10orf55 | -9,74907 | 2,53E-09 |
| GPX7 | -9,75089 | 2,42E-09 |
| SLC43A3 | -9,75251 | 4,27E-05 |
| KCNJ12 | -9,76268 | 2,08E-09 |
| MT1G | -9,79399 | 2,08E-09 |
| NUDT16P1 | -9,79587 | 1,77E-09 |
| GLIS3 | -9,79657 | 3,94E-08 |
| APOBEC3D | -9,7975 | 1,74E-09 |
| PRKCQ-AS1 | -9,81553 | 1,55E-09 |
| FSTL1 | -9,81758 | 4,05E-133 |
| SIM1 | -9,8339 | 1,47E-09 |
| DEPDC7 | -9,83959 | 1,34E-09 |
| CCRL2 | -9,84038 | 1,35E-09 |
| GSTP1 | -9,84836 | 2,59E-138 |
| GJC1 | -9,85276 | 1,08E-36 |
| ADAMTS18 | -9,85318 | 2,29E-09 |
| SEC14L6 | -9,85733 | 1,29E-09 |
| MALL | -9,86437 | 2,26E-09 |
| CSMD3 | -9,86504 | 1,34E-09 |
| GLYATL1 | -9,86906 | 1,21E-09 |
| SLC16A12 | -9,87096 | 1,67E-09 |
| ZNF90 | -9,87339 | 1,15E-09 |
| KLHL14 | -9,87384 | 1,20E-09 |
| PRKCQ | -9,87551 | 1,21E-09 |
| LY6K | -9,87838 | 1,16E-09 |
| APOBEC3C | -9,88182 | 5,12E-62 |
| SFRP1 | -9,89247 | 1,40E-09 |
| NOX4 | -9,89499 | 9,82E-10 |
| BCHE | -9,8963 | 1,01E-09 |
| CHST9 | -9,92229 | 8,35E-10 |
| ZNF773 | -9,92722 | 8,21E-10 |

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| ZNF334 | -9,95665 | 7,08E-10 |
| NLRP1 | -9,96291 | 1,03E-10 |
| P3H3 | -9,98177 | 1,33E-10 |
| CD70 | -9,98696 | 9,18E-20 |
| P2RY8 | -10,0063 | 5,95E-10 |
| CYS1 | -10,0158 | 7,30E-11 |
| IPW | -10,0228 | 5,25E-10 |
| SUSD5 | -10,0294 | 4,52E-10 |
| LOC72997C | -10,0408 | 4,46E-10 |
| GBP3 | -10,0472 | 6,63E-11 |
| ZFP28 | -10,0696 | 3,67E-10 |
| C3 | -10,0732 | 9,74E-104 |
| ZNF626 | -10,0797 | 3,72E-10 |
| ITGBL1 | -10,1192 | 2,99E-10 |
| MDFIC | -10,131 | 6,33E-30 |
| GSPT2 | -10,1372 | 2,43E-10 |
| PEAR1 | -10,1579 | 3,51E-11 |
| AGPS | -10,1583 | 3,46E-66 |
| CYGB | -10,1696 | 8,97E-21 |
| CCND2 | -10,1704 | 1,28E-180 |
| SLC22A3 | -10,172 | 2,05E-10 |
| EBF3 | -10,1747 | 1,96E-10 |
| SP140 | -10,1922 | 1,91E-10 |
| PIEZO2 | -10,1951 | 1,97E-10 |
| NXPH2 | -10,2005 | 1,70E-10 |
| SRGN | -10,2007 | 2,86E-11 |
| MYH16 | -10,2088 | 2,75E-11 |
| PDCD1LG2 | -10,226 | 1,46E-10 |
| NETO1 | -10,2315 | 1,72E-10 |
| ZC3HAV1L | -10,2443 | 1,31E-10 |
| SNHG18 | -10,2938 | 9,96E-11 |
| HACD4 | -10,3098 | 9,09E-11 |
| TOX | -10,3119 | 9,95E-11 |
| ARSI | -10,3246 | 3,02E-31 |
| DLGAP1 | -10,3274 | 8,09E-11 |
| TLR6 | -10,3281 | 8,34E-11 |
| CPA4 | -10,3328 | 2,72E-31 |
| FAM155A | -10,34 | 7,67E-11 |
| RARRES2 | -10,3404 | 7,53E-11 |
| DOCK2 | -10,3478 | 1,97E-31 |
| FOXG1 | -10,3545 | 7,05E-11 |
| PSMB8 | -10,362 | 4,65E-41 |
| APOBEC3G | -10,3681 | 6,79E-11 |
| EYA4 | -10,3693 | 8,13E-11 |
| FGF2 | -10,3701 | 3,12E-41 |
| FOXL1 | -10,3824 | 6,20E-11 |
| TLR3 | -10,4218 | 7,17E-11 |
| CASP1 | -10,4649 | 3,65E-11 |
| LINC01111 | -10,4921 | 3,13E-11 |
| SIGLEC15 | -10,4984 | 3,00E-11 |

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| CARD11 | -10,5022 | 3,71E-11 |
| AFAP1L1 | -10,5377 | 2,08E-22 |
| ETV1 | -10,5534 | 4,29E-12 |
| ZFPM2 | -10,5536 | 2,20E-11 |
| MMP14 | -10,5653 | 1,79E-05 |
| GIPC2 | -10,5685 | 2,00E-11 |
| LINC01411 | -10,586 | 1,86E-11 |
| LZTS1 | -10,6103 | 1,56E-11 |
| ZNF320 | -10,6104 | 1,56E-11 |
| BMPER | -10,6133 | 1,54E-11 |
| GREM1 | -10,6134 | 1,55E-11 |
| CARD6 | -10,6206 | 1,52E-11 |
| ACTBL2 | -10,6307 | 1,50E-11 |
| GABRB3 | -10,6494 | 2,73E-12 |
| ZNF506 | -10,6572 | 1,21E-11 |
| CSF2 | -10,6652 | 1,41E-11 |
| MSN | -10,6879 | 1,63E-10 |
| DENND2A | -10,6885 | 9,96E-12 |
| CCAT1 | -10,6926 | 1,03E-11 |
| UBA7 | -10,7096 | 8,92E-12 |
| LINC00958 | -10,711 | 3,64E-44 |
| SKAP1 | -10,7219 | 8,20E-12 |
| ZNF300 | -10,7468 | 7,20E-12 |
| KLK11 | -10,7575 | 6,67E-12 |
| HECW1 | -10,7756 | 6,29E-12 |
| CNRIP1 | -10,7958 | 5,61E-12 |
| ZNF649 | -10,8226 | 4,66E-12 |
| LDHB | -10,8337 | 0,000189 |
| SENCR | -10,8575 | 3,96E-12 |
| PAPPA | -10,8651 | 4,35E-12 |
| BNC1 | -10,8924 | 3,08E-12 |
| INA | -10,8985 | 3,06E-12 |
| PDGFRB | -10,9023 | 2,84E-12 |
| CCDC8 | -10,9326 | 2,48E-12 |
| QRFPR | -10,9382 | 2,34E-12 |
| CXCL2 | -10,9438 | 2,28E-12 |
| ITGA11 | -10,9496 | 2,42E-12 |
| RGS20 | -10,9499 | 2,30E-12 |
| IL1A | -10,9559 | 2,12E-12 |
| GAL3ST1 | -10,9684 | 2,48E-12 |
| SPP1 | -10,9767 | 5,43E-08 |
| SLC35F3 | -10,9776 | 2,07E-12 |
| VCAN | -10,9843 | 6,44E-197 |
| ARSE | -10,9886 | 1,82E-12 |
| SERPINB2 | -10,9896 | 2,17E-12 |
| FIGN | -11,0151 | 1,97E-12 |
| ZNF280B | -11,0255 | 1,38E-12 |
| SMIM10 | -11,0542 | 1,16E-12 |
| C7orf31 | -11,0737 | 1,17E-12 |
| SDHAF3 | -11,0934 | 9,63E-13 |

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| C1orf186 | -11,0943 | 9,20E-13 |
| GNG11 | -11,1149 | 4,11E-25 |
| PHLDB2 | -11,1452 | 4,85E-80 |
| TAGLN3 | -11,1467 | 6,74E-13 |
| CHST2 | -11,1645 | 6,45E-13 |
| CLEC4E | -11,1652 | 7,05E-13 |
| SLC35G2 | -11,1708 | 6,74E-13 |
| NTF3 | -11,1739 | 6,00E-13 |
| ANKRD1 | -11,2108 | 1,21E-13 |
| SGK2 | -11,217 | 4,47E-13 |
| HOXA9 | -11,2233 | 4,71E-13 |
| LINC01279 | -11,2338 | 4,05E-13 |
| TLE4 | -11,2497 | 1,00E-13 |
| TDRP | -11,2508 | 3,71E-13 |
| SPAG16 | -11,2535 | 3,65E-13 |
| CTSZ | -11,2953 | 1,36E-157 |
| SLFN13 | -11,2973 | 2,84E-13 |
| ZNF175 | -11,3014 | 2,75E-13 |
| GYPC | -11,3052 | 2,65E-13 |
| CA13 | -11,3154 | 3,00E-13 |
| KCNK3 | -11,3466 | 4,11E-26 |
| SYT14 | -11,3576 | 1,96E-13 |
| HOXA10-AS | -11,3631 | 1,95E-13 |
| CXCL6 | -11,3639 | 1,88E-13 |
| LPAR1 | -11,3667 | 2,06E-13 |
| SOX17 | -11,3679 | 1,92E-13 |
| ZNF542P | -11,3715 | 1,83E-13 |
| SLC6A15 | -11,3741 | 1,79E-13 |
| TRHDE-AS1 | -11,388 | 1,88E-13 |
| FGF5 | -11,4281 | 1,47E-13 |
| CD200 | -11,4318 | 1,30E-13 |
| ZSCAN18 | -11,4484 | 1,14E-13 |
| PADI1 | -11,4489 | 1,17E-13 |
| DMD | -11,4576 | 1,08E-13 |
| STK33 | -11,4577 | 1,08E-13 |
| TLR4 | -11,4754 | 1,05E-13 |
| LINC00839 | -11,4981 | 9,49E-14 |
| TNFRSF9 | -11,5702 | 7,89E-14 |
| HKDC1 | -11,5911 | 5,47E-40 |
| PNMAL1 | -11,6086 | 4,63E-14 |
| FLI1 | -11,6184 | 1,21E-14 |
| UGT2B7 | -11,639 | 4,01E-14 |
| GDNF | -11,6975 | 2,54E-14 |
| LOC100126 | -11,6985 | 2,54E-14 |
| GLIS1 | -11,7212 | 2,31E-14 |
| CPNE8 | -11,7277 | 2,19E-14 |
| ADAMTS5 | -11,7328 | 2,12E-14 |
| MYOM3 | -11,7455 | 1,96E-14 |
| C8orf88 | -11,7499 | 1,86E-14 |
| ANGPTL2 | -11,7629 | 1,79E-14 |

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| NID2 | -11,7678 | 1,70E-14 |
| IFI16 | -11,7834 | 2,56E-28 |
| LINC00941 | -11,8021 | 1,38E-14 |
| CLDN2 | -11,8541 | 1,07E-14 |
| PRKCDBP | -11,8599 | 1,02E-14 |
| CYTL1 | -11,8647 | 9,38E-15 |
| FBXL7 | -11,9003 | 7,61E-15 |
| NEGR1 | -11,9124 | 7,47E-15 |
| BHMT2 | -11,9353 | 6,11E-15 |
| ARHGAP31 | -11,9584 | 1,72E-15 |
| PDZK1IP1 | -11,9711 | 5,80E-15 |
| CXCL1 | -11,9821 | 4,62E-15 |
| GRAMD1B | -11,9931 | 4,33E-15 |
| TNFRSF10C | -11,9959 | 4,53E-15 |
| TMEM200A | -11,9965 | 4,35E-15 |
| DAW1 | -12,0519 | 3,03E-15 |
| CRYAB | -12,0657 | 2,83E-15 |
| GNE | -12,072 | 3,03E-15 |
| F2RL2 | -12,0952 | 2,32E-15 |
| TCF4 | -12,1191 | 2,03E-15 |
| C5orf42 | -12,1703 | 1,47E-15 |
| GCNT3 | -12,1941 | 1,28E-15 |
| HRH1 | -12,1976 | 1,26E-15 |
| ADAMTS3 | -12,2004 | 1,24E-15 |
| DPYD | -12,2305 | 1,03E-15 |
| FOXL2NB | -12,2377 | 1,01E-15 |
| HHIP | -12,242 | 9,68E-16 |
| ZEB2 | -12,2422 | 9,86E-16 |
| PREX2 | -12,2575 | 8,64E-16 |
| SEMA5A | -12,2621 | 8,43E-16 |
| FRG1CP | -12,271 | 8,03E-16 |
| C14orf105 | -12,2855 | 9,17E-16 |
| FOXE1 | -12,2959 | 7,15E-16 |
| TMEM25 | -12,3097 | 6,29E-16 |
| AASS | -12,3217 | 5,89E-16 |
| COL4A2 | -12,3332 | 2,96E-196 |
| KCNIP1 | -12,3335 | 5,51E-16 |
| AKR1B1 | -12,3338 | 1,04E-86 |
| NRG1 | -12,3398 | 5,57E-16 |
| COL8A1 | -12,3452 | 4,35E-31 |
| ABCA1 | -12,3583 | 5,16E-16 |
| TNFSF10 | -12,3727 | 1,51E-16 |
| CLDN16 | -12,3738 | 4,27E-16 |
| ZFHX4 | -12,3865 | 3,93E-16 |
| ANPEP | -12,3944 | 3,83E-16 |
| CDH6 | -12,4006 | 1,27E-16 |
| ZCCHC11 | -12,4301 | 3,50E-16 |
| SIGMAR1 | -12,4322 | 1,47E-31 |
| EDNRA | -12,449 | 2,79E-16 |
| CDA | -12,4701 | 2,36E-16 |

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| RRAD | -12,4731 | 2,33E-16 |
| GALNT5 | -12,5072 | 1,95E-16 |
| ZBED2 | -12,5264 | 1,66E-16 |
| EVC | -12,5459 | 1,52E-16 |
| BHLHE41 | -12,5629 | 4,93E-17 |
| TMEM246 | -12,575 | 1,25E-16 |
| ATP10A | -12,5791 | 1,28E-16 |
| MMP1 | -12,649 | 7,83E-17 |
| SNAI2 | -12,6496 | 7,82E-17 |
| ADAMTS1 | -12,6541 | 2,81E-17 |
| CDIP1 | -12,6789 | 6,95E-17 |
| EMC10 | -12,6821 | 7,97E-17 |
| RAB38 | -12,7007 | 5,65E-17 |
| TCEAL8 | -12,7522 | 4,16E-17 |
| DZIP1 | -12,7556 | 4,11E-17 |
| HOXA10 | -12,7697 | 3,68E-17 |
| C2CD2 | -12,8043 | 3,14E-17 |
| LAYN | -12,8317 | 2,63E-17 |
| CD40 | -12,8351 | 2,51E-17 |
| SGCE | -12,868 | 2,09E-17 |
| PTPRD | -12,9177 | 1,47E-17 |
| CELF2 | -13,0558 | 6,00E-18 |
| PPAPDC1A | -13,0596 | 6,06E-18 |
| MARCH4 | -13,0696 | 5,72E-18 |
| AKT3 | -13,0839 | 5,03E-18 |
| PKIA | -13,0938 | 4,79E-18 |
| MAGI2-AS3 | -13,1407 | 3,53E-18 |
| STAC | -13,2119 | 2,21E-18 |
| PVRL3 | -13,2333 | 1,94E-18 |
| MAMDC2 | -13,2789 | 1,46E-18 |
| FOXL2 | -13,2956 | 1,35E-18 |
| PAX6 | -13,2967 | 1,31E-18 |
| TM4SF18 | -13,3286 | 1,14E-18 |
| AXL | -13,3458 | 2,68E-53 |
| AK5 | -13,3736 | 8,33E-19 |
| MOXD1 | -13,3937 | 7,21E-19 |
| WBP5 | -13,3974 | 6,68E-19 |
| GDF5 | -13,4078 | 6,65E-19 |
| JAM3 | -13,4088 | 6,82E-19 |
| CXCL5 | -13,4181 | 6,21E-19 |
| HAVCR1 | -13,4391 | 6,23E-19 |
| TGM2 | -13,4464 | 9,59E-255 |
| CLDN11 | -13,6307 | 6,35E-20 |
| CYBRD1 | -13,6679 | 1,16E-19 |
| NRIP3 | -13,6772 | 1,08E-19 |
| NTM | -13,7647 | 6,20E-20 |
| GOS2 | -13,8042 | 4,65E-20 |
| COL4A1 | -13,811 | 4,29E-57 |
| IGFBP7 | -13,8128 | 4,53E-20 |
| NT5E | -13,8278 | 3,98E-20 |

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| HNF1B | -13,8694 | 3,01E-20 |
| KIAA1644 | -13,9174 | 2,19E-20 |
| PTPRM | -13,9213 | 2,14E-20 |
| LAMA1 | -13,9564 | 1,73E-20 |
| STK32B | -13,9595 | 1,69E-20 |
| TRHDE | -13,9987 | 1,30E-20 |
| RAC2 | -14,0043 | 1,25E-20 |
| MYL9 | -14,0711 | 8,13E-21 |
| NNMT | -14,099 | 6,42E-21 |
| EFEMP2 | -14,1494 | 4,58E-21 |
| TRIM55 | -14,1497 | 1,86E-21 |
| NID1 | -14,1539 | 4,44E-21 |
| IGF2BP3 | -14,2306 | 2,66E-21 |
| APBB1IP | -14,2869 | 1,84E-21 |
| CDH13 | -14,4374 | 7,45E-22 |
| MT1L | -14,5179 | 3,84E-22 |
| LAMA4 | -14,5901 | 2,24E-22 |
| HMGA2 | -14,6683 | 5,23E-23 |
| CNN3 | -14,6704 | 5,07E-23 |
| VCAM1 | -14,6711 | 1,32E-22 |
| DFNA5 | -14,7218 | 9,04E-23 |
| SALL1 | -14,7612 | 6,82E-23 |
| TINAGL1 | -14,8158 | 4,83E-23 |
| INHBA | -14,9327 | 2,06E-23 |
| MT1E | -14,9636 | 1,64E-23 |
| ALPK2 | -15,0137 | 1,19E-23 |
| CDH4 | -15,1178 | 5,39E-24 |
| PDPN | -15,1213 | 5,39E-24 |
| ETS1 | -15,1838 | 3,38E-24 |
| GPX1 | -15,2205 | 2,60E-24 |
| IGFN1 | -15,3042 | 1,45E-24 |
| KIRREL | -15,3837 | 8,03E-25 |
| THBS2 | -15,6934 | 8,13E-26 |
| PLAU | -15,7782 | 4,48E-26 |
| SPARC | -16,4677 | 2,32E-28 |
| LRRN4 | -17,162 | 9,63E-31 |
| PTGIS | -17,5742 | 3,29E-32 |
| FLNC | -18,4392 | 2,31E-35 |