

SUPPLEMENTAL MATERIALS

Overexpression of IGF2BP1 stabilizes PEG10 mRNA in an m⁶A-dependent manner and promotes endometrial cancer progression

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Supplementary Figures Legends

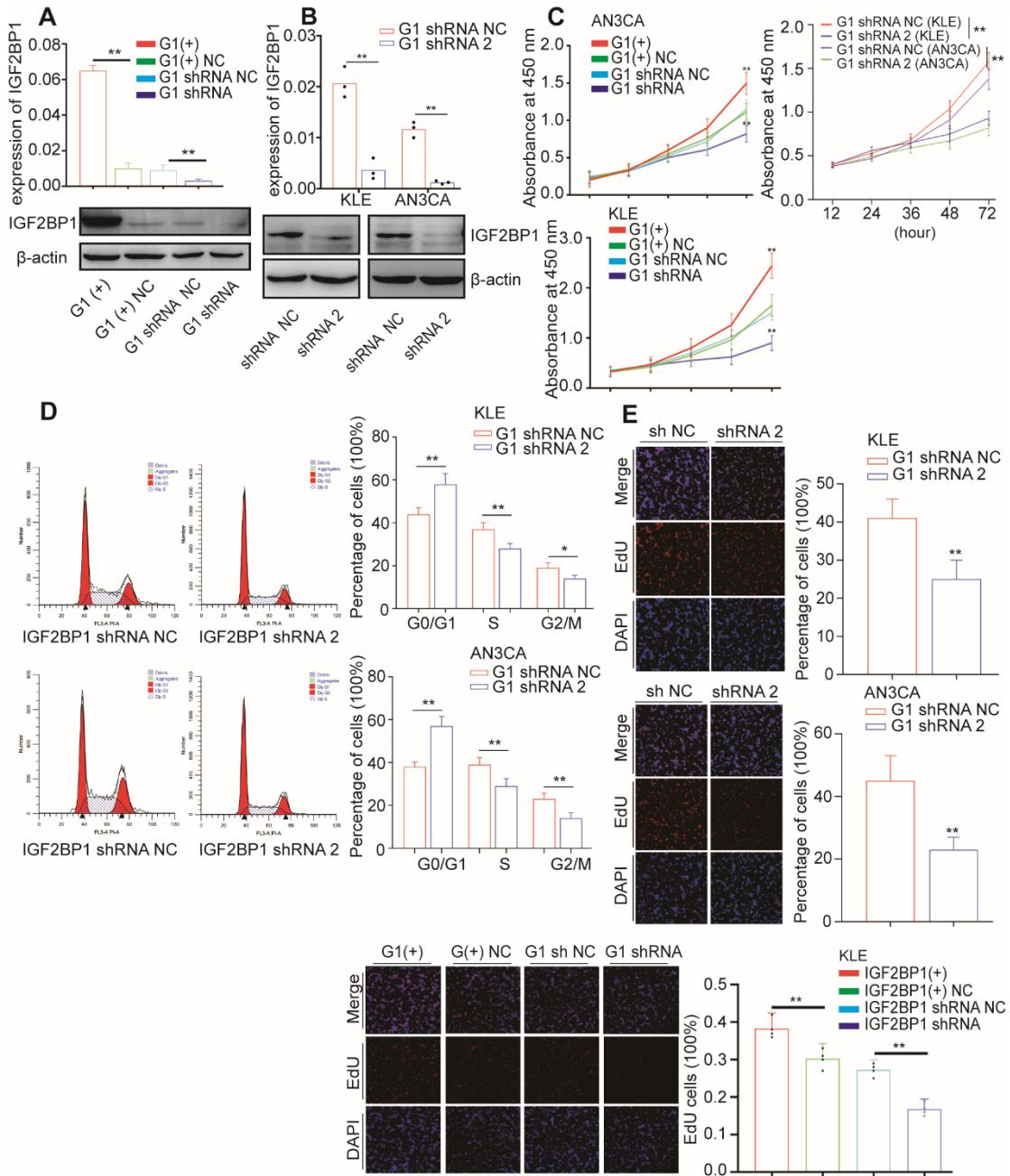


Figure S1: IGF2BP1 promotes the proliferation of EC cells. (a-b) Q-PCR and western blot analysis

overexpression or knockdown of IGF2BP1 in EM cells. (c) IGF2BP1 promotes cell proliferation as shown by CCK-8 assays. (d) Flow cytometry analysis of cell cycle distribution after silencing of IGF2BP1. (e) EdU assays evaluated cell proliferation activity.

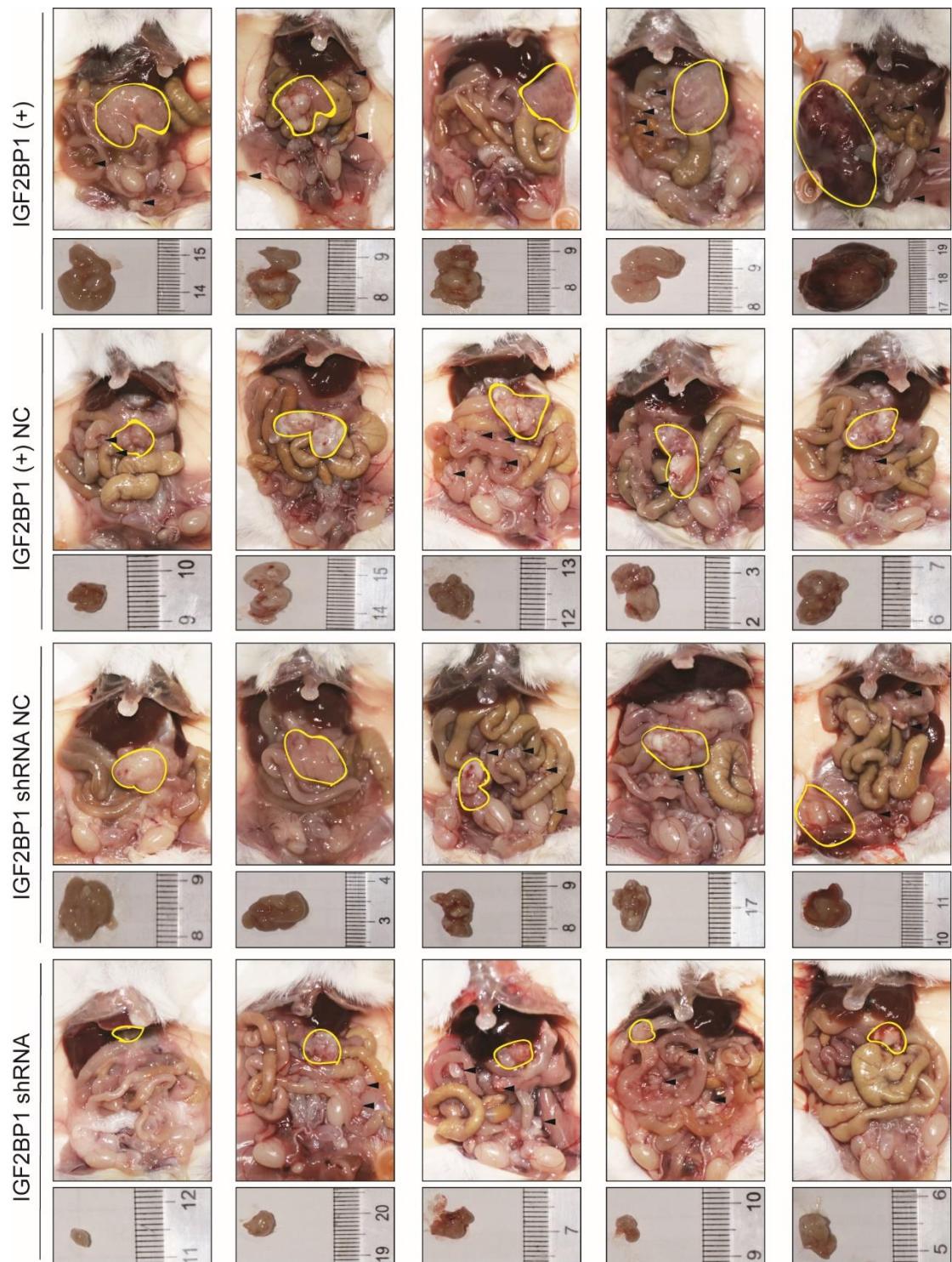


Figure S2: IGF2BP1 promotes endometrial cancer proliferation in a xenograft model. IGF2BP1 expression lentivirus (IGF2BP1 (+)) or IGF2BP1 shRNA lentivirus (IGF2BP1 shRNA) was transduced in AN3CA cells to enhance or silence gene expression. IGF2BP1 negative control (IGF2BP1 (+) NC) or shRNA negative control lentivirus (IGF2BP1 shRNA NC) served as controls. 5 mice in each group. The

yellow circle marks the main tumor in the abdominal cavity, The black arrow indicates a small tumor in the abdominal cavity.

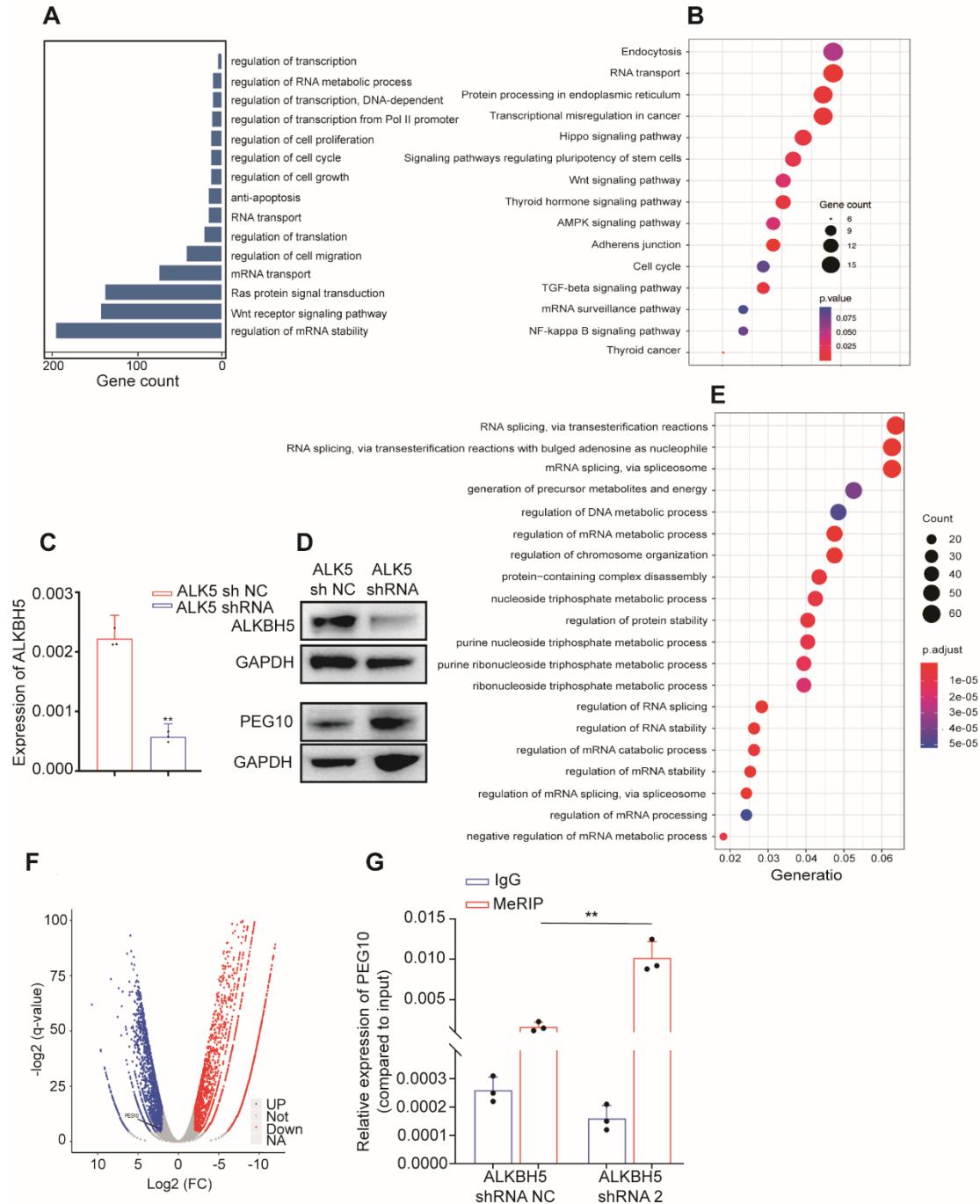


Figure S3: Bioinformatics analysis of the function of target genes. (a-b) GO and KEGG enrichment map of genes specifically enriched by IGF2BP1 RIP-seq. (c), (d, top) PCR and western blotting show that mRNA and protein expression of ALKBH5 was knocked down by shRNA compared with shRNA

negative control (NC). (d, bottom) PEG10 protein expression after knockdown of ALKBH5. (e) mRNAs that acquired m6A peak after ALKBH5 knockdown, analyzed by GO. (f) Volcano plots showing upregulation (blue) or downregulation (red) of genes after knockdown ALKBH5, as assessed by RNA-seq. (g) MeRIP-PCR confirmed that the m⁶A peak in the 3' untranslated region of PEG10 mRNA is regulated by ALKBH5.

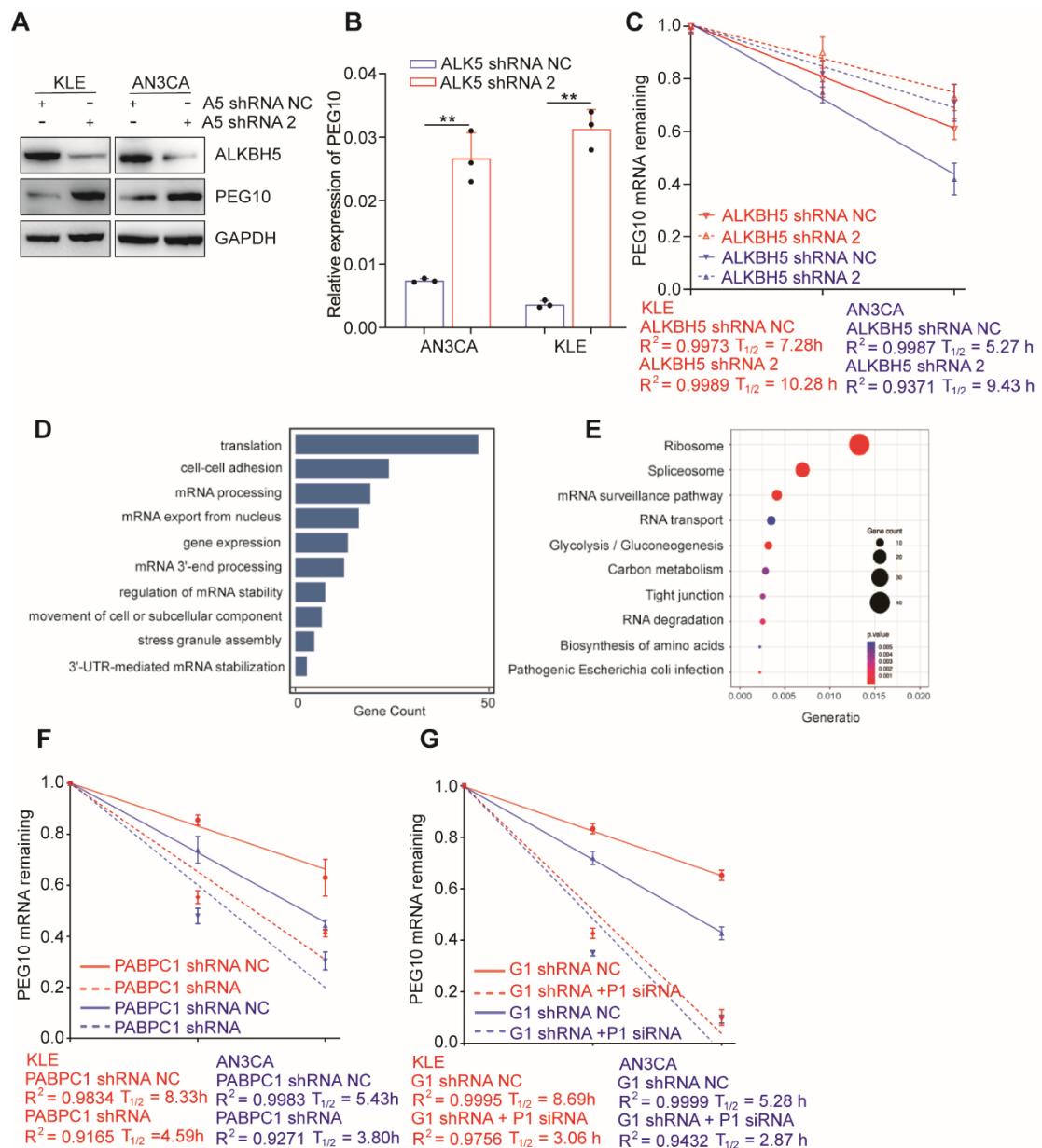


Figure S4: ALKBH5 regulates the m6A modification of the 3'UTR region in PEG10 mRNA. (a-b)

PEG10 protein and mRNA expression after knockdown of ALKBH5. (c) Silencing ALKBH5 can

increase the half-life of PEG10 mRNA. (d-e) GO and KEGG analysis of proteins enriched by Flag-IGF2BP1 co-immunoprecipitation. (f) Shortened RNA lifetime of PEG10 mRNA after knockdown of PABPC1 expression. (g) Silencing IGF2BP1 and PABPC1 expression reduces the lifetime of PEG10 mRNA.

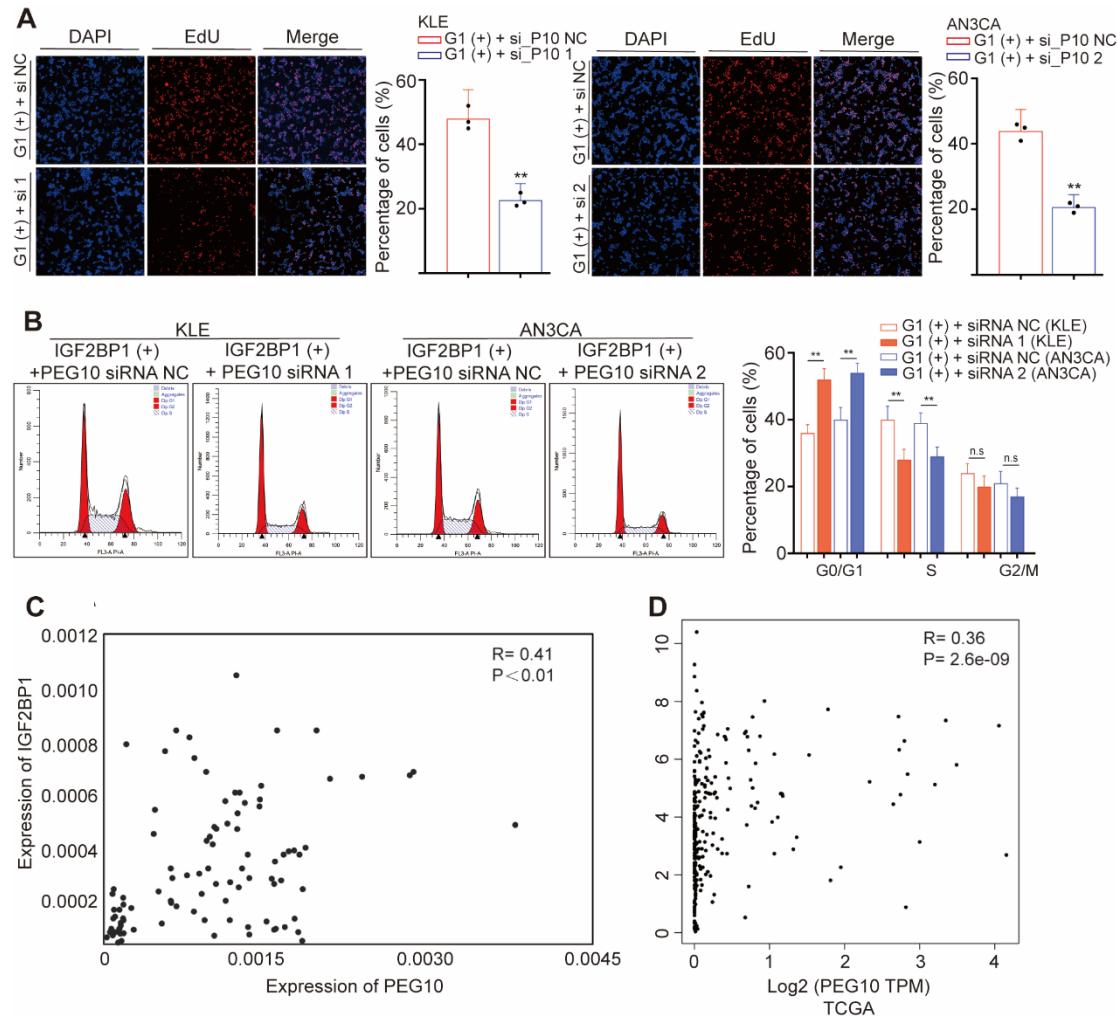


Figure S5: The IGF2BP1-PEG10 axis regulates cell proliferation activity and cell cycle. (a) EdU experiment confirmed that silencing PEG10 can inhibit the proliferation effect of IGF2BP1 overexpression. (b) Cell cycle analysis confirmed that knockdown PEG10 can reduce the ratio of cells in S phase and increase cells in G0/G1 phase. (c) Correlation analysis showed a positive correlation between IGF2BP1 and PEG10 expression. (d) TCGA data analysis showed that the expression of IGF2BP1 was positively correlated with PEG10 expression.

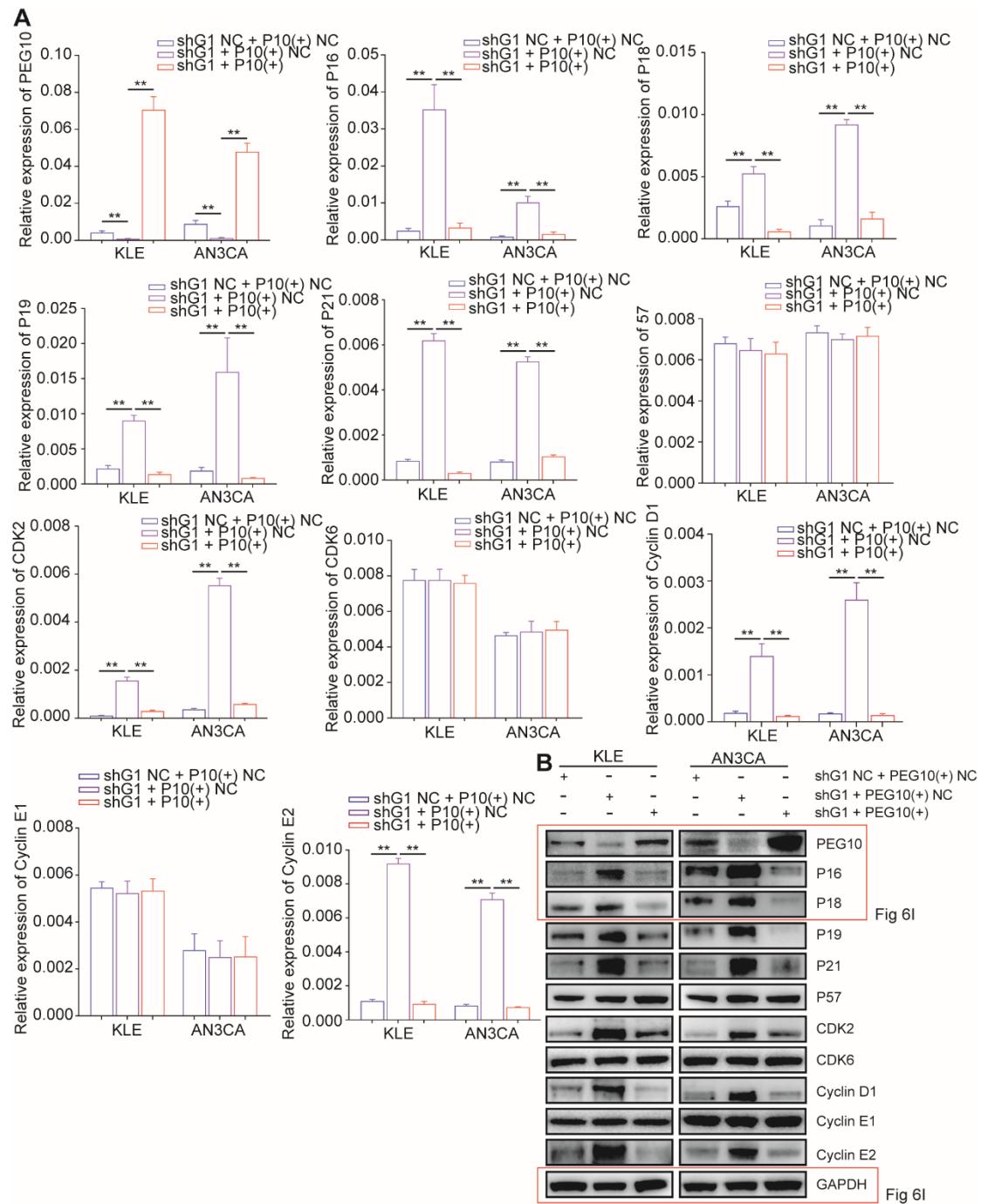


Figure S6: The IGF2BP1-PEG10 axis regulates the expression of PEG10. (a-b) q-PCR and WB

confirmed the changes of genes related to cell cycle regulation after expression of PEG10 in knockdown IGF2BP1 cells.

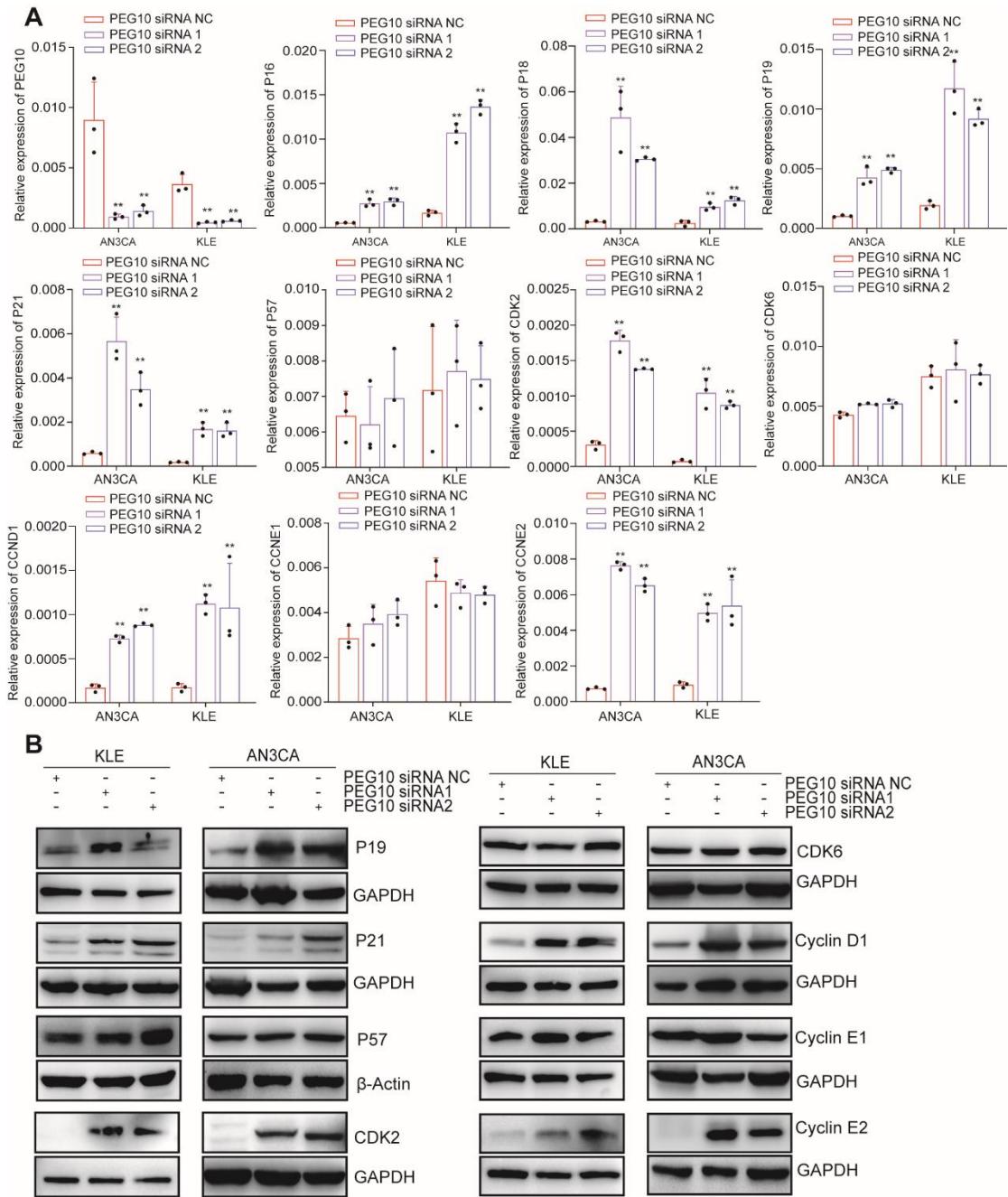


Figure S7: Silencing PEG10 promotes the expression of genes related to cell cycle regulation. (a-b)

q-PCR and WB confirmed the expression changes of genes related to cell cycle regulation after knockdown PEG10.

Table S1. Primers used in this study.

| | | |
|--|--|----------------------------|
| P16 | F: CAAGATCACGCAAAACCTCT | R: CGACCCTATAACAGTTGAAC TG |
| P16 (for ChIP) | F: GGAAGGAGTCTTACGAAGG | R: TAAGATGTGTTGTTGTTCATTT |
| P18 | F: GGGGACCTAGAGCAACTTACT | R: CAGCGCAGTCCTCCCAAAT |
| P18 (for ChIP) | F: GGCGCGCTCTCTGAACT | R: TCAAAATTCCCTCCGAGCCGT |
| P19 | F: AGTCAGTCCATGACGCAG | R: ATCAGGCACGTTGACATCAGC |
| P21 | F: CCCAGGGAAGGGTGTCCGT | R: GGGCGGCCAGGGTATGTAC |
| P57 | F: GCGGGCATCAAGAAGCTGTC | R: CCGGTTGCTGCTACATGAAC |
| CDK2 | F: GTACCTCCCCTGGATGAAGAT | R: CGAAATCCGCTTGTAGGGTC |
| CDK6 | F: CCAGATGGCTCTAACCTCAGT | R: AACTTCCACGAAAAGAGGCTT |
| CCND1 | F: CAATGACCCGCACGATTTC | R: CATGGAGGGCGGATTGGAA |
| CCNE1 | F: ACTCAACGTGCAAGCCTCG | R: GCTCAAGAAAGTGTGATCCC |
| CCNE2 | F: GGAACCACAGATGAGGTCCA | R: CCATCAGTGACGTAAGCAAAC T |
| IGF2BP1 | F: GCGGCCAGTTCTGGTCAA | R: TTGGGCACCGAATGTTCAATC |
| PEG10 (q-PCR) | F: AGCAGTCGGAGGAGAACAAAC | R: CACTGGGCCATGAAAGGAG |
| PEG10 (MeRIP-PCR) | F: GCCTAGAAATGGGCCGTTGT | R: CGTTCTTGTGCGTTGGTGAAC |
| β-actin | F: ACCGCGAGAAGATGACCCAG | R: TTAATGTCACGCACGATTTCCC |
| GAPDH | F: TGTGGGCATCAATGGATTGG | R: ACACCATGTATTCCGGGTCAT |
| ALKBH5 shRNA | CACCGCAUAUGCGUGUGAUUAUUGCGAACAAUAAUCACACGCAUAUGC (top) | |
| ALKBH5 shRNA | CACCGCTTCAGCTCTGAGAACTACTCGAAAGTAGTTCTCAGAGCTGAAGC (top) | |
| IGF2BP1 shRNA | CCGCCUUAAAGGAUGGUCAUUUCGAAAAAUGAACCAUCCUUUAAGGC (top) | |
| IGF2BP1 shRNA2 | CACCGGAGGCCUAUGAGAAUGAUGUCGAAACAUCAUUCUCAUAGGCCUCC (top) | |
| PEG10 siRNA1 | GCGUGGUGAGUAUGCAGAA | |
| PEG10 siRNA2 | GGUGAGUAUGCAGAAUUAAG | |
| PABPC1 siRNA | Provided by thermo fisher (Cat: AM16708) | |
| PEG10 Luciferase reporter clone sequences (WT) | TAGCCCTGGCATGTGCACACGGACATTTGCCACCACTGCAAGCAAAAGTC | |
| PEG10 Luciferase reporter clone sequences (Mut) | TAGCCCTGGCATGTGCACACGGTCATTTGCCACCACTGCAAGCAAAAGTC | |

| | |
|---|--|
| P16 Luciferase reporter clone sequences (WT) | TTACGAAGGGAAAAGTCCG TGGAGTATGGTGGCACTAAAAAAAGAAATA |
| P16 Luciferase reporter clone sequences (Mut) | TTACGAAGGGAAAAGTCCG TGCGAGTATGGTGGCACTAAAAAAAGAAATA |
| P18 Luciferase reporter clone sequences (WT) | TCTGACGCTCGCGCTCGCGGT CGTCCCCGCACCCGCCGC |
| P18 Luciferase reporter clone sequences (Mut) | TCTGACGCTCGCGCTCGCGGT CGTCCCCGCACCCGCCGC |

Table S2: Antibody used in this study

| Antibody | company | Catalogue number | Concentration |
|--------------|----------------|------------------|-------------------------------------|
| Anti_IGF2BP1 | Proteintech | 22803-1-AP | 1:1000 (WB), 1:50 (IF), 1:100 (IHC) |
| Anti_ALKBH5 | Millipore | ABE547 | 1:1000 (WB) |
| Anti_PEG10 | Abcam | Ab215035 | 1:30 (Cut&Tag), 1:1000 (WB) |
| Anti_FLAG | cell signaling | 14793 | 1:50 (IP), 1:1000 (WB) |
| Anti_PABPC1 | Proteintech | 10970-1-AP | 1:1000 (WB), 1:50 (IF) |
| Anti_Ki-67 | Proteintech | 27309-1-AP | 1:12000 (IHC) |
| Anti_β-actin | Proteintech | 66009-1-Ig | 1:10000 (WB) |
| Anti_GAPDH | Proteintech | 60004-1-Ig | 1:5000 (WB) |
| Anti_P16 | ABclonal | A5025 | 1:1000 (WB) |
| Anti_P18 | ABclonal | A2042 | 1:1000 (WB) |
| Anti_P19 | SantaCruz | sc-56334 | 1:50 (WB) |
| Anti_P21 | ABclonal | A19094 | 1:1000 (WB) |
| Anti_P57 | Abcam | Ab75974 | 1:500 (WB) |
| Anti_CDK2 | ABclonal | A0294 | 1:1000 (WB) |
| Anti_CDK6 | ABclonal | A0705 | 1:1000 (WB) |
| Anti_CCND1 | ABclonal | A19038 | 1:1000 (WB) |
| Anti_CCNE1 | ABclonal | A14225 | 1:1000 (WB) |

| | | | |
|------------|----------|-------|-------------|
| Anti_CCNE2 | ABclonal | A4272 | 1:1000 (WB) |
|------------|----------|-------|-------------|

Table S3: Association between IGF2BP1 expression and clinicopathologic parameters

| Clinical factors | patients | expression of IGF2BP1 (IHC score) | | | | P-value |
|-----------------------|----------|-----------------------------------|-----|------|-------|-----------------|
| | | (-) | (+) | (++) | (+++) | |
| Patients | 204 | 39 | 63 | 64 | 38 | <0.01 |
| Normal endometrium | 30 | 26 | 4 | 0 | 0 | |
| Endometrial cancer | 174 | 13 | 59 | 64 | 38 | |
| Age(Years) | | | | | | ns |
| < 60 | 92 | 20 | 28 | 26 | 18 | |
| > 60 | 112 | 19 | 35 | 38 | 20 | |
| Histology type | | | | | | <0.01 |
| Grade 1 endometrioid | 75 | 10 | 45 | 18 | 2 | |
| Grade 2 endometrioid | 59 | 3 | 12 | 36 | 8 | |
| Grade 3 endometrioid | 31 | 0 | 1 | 7 | 23 | |
| UPSC | 9 | 0 | 1 | 3 | 5 | |
| FIGO stage | | | | | | <0.05 |
| I | 89 | 11 | 41 | 27 | 10 | |
| II | 45 | 2 | 10 | 28 | 5 | |
| III-IV | 40 | 0 | 8 | 9 | 23 | |
| Depth of invasion | | | | | | ns |
| < 50% | 70 | 8 | 27 | 20 | 15 | |
| > 50% | 104 | 5 | 32 | 44 | 23 | |
| LVI | | | | | | ns |
| Negative | 103 | 8 | 39 | 36 | 20 | |
| Positive | 71 | 5 | 20 | 28 | 18 | |
| Lymph node metastasis | | | | | | ns |
| Negative | 144 | 13 | 51 | 52 | 28 | |
| Positive | 30 | 0 | 8 | 12 | 10 | |

LVI: lymphovascular invasion

Table S4: Association between PEG10 expression and clinicopathologic parameters.

| Clinical factors | patients | expression of PEG10 (IHC score) | | | | P-value |
|--------------------|----------|---------------------------------|-----|------|-------|-----------------|
| | | (-) | (+) | (++) | (+++) | |
| Patients | 204 | 46 | 70 | 55 | 33 | <0.01 |
| Normal endometrium | 30 | 18 | 12 | 0 | 0 | |
| Endometrial cancer | 174 | 28 | 58 | 55 | 33 | |
| Age(Years) | | | | | | ns |
| < 60 | 92 | 25 | 30 | 20 | 17 | |
| > 60 | 112 | 21 | 40 | 35 | 16 | |
| Histology type | | | | | | ns |

| | | | | | | |
|--------------------------|-----|----|----|----|----|-----------------|
| Grade 1 endometrioid | 75 | 12 | 27 | 22 | 14 | |
| Grade 2 endometrioid | 59 | 12 | 20 | 21 | 6 | |
| Grade 3 endometrioid | 31 | 3 | 9 | 10 | 9 | |
| UPSC | 9 | 1 | 2 | 2 | 4 | |
| FIGO stage | | | | | | <0.05 |
| I | 89 | 23 | 39 | 24 | 3 | |
| II | 45 | 5 | 17 | 17 | 6 | |
| III-IV | 40 | 0 | 2 | 14 | 24 | |
| Depth of invasion | | | | | | <0.05 |
| < 50% | 70 | 17 | 38 | 7 | 8 | |
| > 50% | 104 | 11 | 20 | 48 | 25 | |
| LVI | | | | | | ns |
| Negative | 103 | 18 | 30 | 35 | 20 | |
| Positive | 71 | 10 | 28 | 20 | 13 | |
| Lymph node metastasis | | | | | | ns |
| Negative | 144 | 25 | 48 | 46 | 25 | |
| Positive | 30 | 3 | 10 | 9 | 8 | |

LVI: lymphovascular invasion

Supplementary table legends

Table S5: data of Flag-IGF2BP1 RIP-Seq

Table S6: Data of mRNA-Seq.

Table S7: Data of MeRIP-Seq.

Table S8: Data of Flag-IGF2BP1 CoIP-MS.

Table S9: Data of PEG10 CUT&Tag-Seq.

Table S5: Data of Flag-IGF2BP1 RIP-Seq.

| GeneID | RIP | Count | fpmk | Fold (log2) | p_value(-log10) |
|-----------------|----------|-------|-------------|-------------|-----------------|
| ENSG00000106484 | MEST | 8193 | 5196.977967 | 1.75295 | 82.73652 |
| ENSG00000198804 | MT-CO1 | 7511 | 4504.834424 | 5.52817 | 2084.29126 |
| ENSG00000242265 | PEG10 | 4663 | 1172.835844 | 2.7948 | 73.63866 |
| ENSG00000167658 | EEF2 | 3393 | 3648.80667 | 2.02204 | 46.20214 |
| ENSG00000198938 | MT-CO3 | 3224 | 3803.158411 | 4.26457 | 1075.99634 |
| ENSG00000131711 | MAP1B | 2851 | 812.2956857 | 2.49197 | 13.64093 |
| ENSG00000220884 | MESTP1 | 2395 | 2228.356018 | 2.20855 | 191.0867 |
| ENSG00000099194 | SCD | 2073 | 357.5509508 | 3.47333 | 56.00361 |
| ENSG00000110321 | EIF4G2 | 1948 | 1373.158161 | 1.47322 | 5.16832 |
| ENSG00000198886 | MT-ND4 | 1594 | 1069.804805 | 3.59262 | 553.87762 |
| ENSG00000255248 | MIR100HG | 1357 | 746.1382444 | 1.70302 | 10.69824 |
| ENSG00000167996 | FTH1 | 1281 | 1528.666935 | 2.40722 | 117.20416 |
| ENSG00000185650 | ZFP36L1 | 1248 | 615.5718594 | 4.19669 | 92.18823 |
| ENSG00000100852 | ARHGAP5 | 1236 | 322.3629966 | 1.81072 | 9.14237 |
| ENSG00000204469 | PRRC2A | 1120 | 628.1492011 | 4.79843 | 21.93465 |
| ENSG00000072364 | AFF4 | 1101 | 472.2848421 | 2.15761 | 7.41946 |
| ENSG00000164924 | YWHAZ | 1098 | 687.9888936 | 1.58729 | 4.78956 |
| ENSG00000187079 | TEAD1 | 1021 | 329.6994125 | 2.66784 | 11.23862 |
| ENSG00000111371 | SLC38A1 | 1000 | 412.8738969 | 2.14427 | 9.71902 |
| ENSG00000136158 | SPRY2 | 995 | 381.831262 | 1.84051 | 16.75589 |
| ENSG00000070756 | PABPC1 | 971 | 933.4898553 | 3.11747 | 64.01558 |
| ENSG00000147862 | NFIB | 970 | 382.7186021 | 2.7171 | 10.02561 |
| ENSG00000113448 | PDE4D | 950 | 427.5404636 | 2.51879 | 10.14202 |
| ENSG00000212802 | RPL15P3 | 903 | 1357.932177 | 2.35124 | 99.34136 |
| ENSG00000159217 | IGF2BP1 | 900 | 411.2419843 | 3.71751 | 158.77702 |
| ENSG00000167978 | SRRM2 | 887 | 640.8835065 | 2.39524 | 8.35203 |
| ENSG00000198899 | MT-ATP6 | 865 | 1174.72021 | 7.18078 | 1197.92261 |
| ENSG00000198712 | MT-CO2 | 823 | 1112.779659 | 3.42247 | 275.93518 |
| ENSG00000094916 | CBX5 | 820 | 248.6448439 | 2.16057 | 5.80593 |
| ENSG00000132510 | KDM6B | 819 | 313.6405534 | 1.8536 | 5.01241 |
| ENSG00000141367 | CLTC | 764 | 318.4208528 | 2.41965 | 4.72862 |
| ENSG00000102908 | NFAT5 | 759 | 109.8344054 | 4.34654 | 26.35716 |
| ENSG00000117713 | ARID1A | 740 | 203.3818043 | 3.61546 | 12.14945 |
| ENSG00000198888 | MT-ND1 | 719 | 695.5629534 | 3.27445 | 168.03987 |
| ENSG00000087086 | FTL | 708 | 745.7687593 | 3.35963 | 93.8967 |
| ENSG00000140836 | ZFHX3 | 701 | 111.1263469 | 3.69245 | 11.00655 |
| ENSG00000174748 | RPL15 | 695 | 504.5228279 | 3.60375 | 149.6479 |
| ENSG00000086758 | HUWE1 | 691 | 155.9069853 | 2.25256 | 4.80778 |
| ENSG00000225178 | RPSAP58 | 673 | 700.9185328 | 1.58297 | 16.9271 |
| ENSG0000004799 | PDK4 | 673 | 420.835468 | 4.79418 | 41.76044 |
| ENSG00000168003 | SLC3A2 | 666 | 570.8450365 | 1.97901 | 15.98905 |
| ENSG00000167548 | KMT2D | 649 | 201.0785784 | 3.57663 | 6.2444 |

| | | | | | |
|-----------------|------------|-----|-------------|---------|-----------|
| ENSG00000134308 | YWHAQ | 645 | 485.3703876 | 2.17866 | 16.95424 |
| ENSG00000151846 | PABPC3 | 632 | 172.5708056 | 3.23092 | 131.80641 |
| ENSG00000167460 | TPM4 | 626 | 327.274332 | 1.65845 | 7.89335 |
| ENSG00000140105 | WARS | 600 | 612.4751849 | 2.01844 | 10.46064 |
| ENSG00000178343 | SHISA3 | 598 | 280.5950494 | 2.3485 | 26.75506 |
| ENSG00000136295 | TTYH3 | 584 | 232.3032761 | 2.70218 | 7.28109 |
| ENSG00000139514 | SLC7A1 | 578 | 186.0619881 | 2.05768 | 5.26559 |
| ENSG00000141867 | BRD4 | 573 | 291.1713759 | 2.57398 | 12.38907 |
| ENSG00000196230 | TUBB | 570 | 191.2068885 | 2.59662 | 58.00106 |
| ENSG00000198763 | MT-ND2 | 567 | 503.246525 | 4.88478 | 542.81793 |
| ENSG00000117523 | PRRC2C | 538 | 124.3284834 | 3.61793 | 5.46828 |
| ENSG00000173812 | EIF1 | 520 | 364.6061525 | 1.76266 | 12.11346 |
| ENSG00000204463 | BAG6 | 516 | 358.2703942 | 2.74196 | 10.95322 |
| ENSG00000123983 | ACSL3 | 508 | 361.9549036 | 3.88393 | 28.40418 |
| ENSG00000054598 | FOXC1 | 504 | 120.1645049 | 2.59563 | 11.56771 |
| ENSG00000095139 | ARCN1 | 496 | 169.8960794 | 4.00294 | 12.42869 |
| ENSG00000253341 | AC115837.1 | 496 | 458.2611533 | 3.62463 | 54.44541 |
| ENSG00000102225 | CDK16 | 496 | 340.0440433 | 3.33876 | 27.49654 |
| ENSG00000110395 | CBL | 493 | 99.68187623 | 4.9651 | 9.25272 |
| ENSG00000064393 | HIPK2 | 493 | 62.30457801 | 3.30182 | 7.12781 |
| ENSG00000120738 | EGR1 | 491 | 144.7084853 | 3.70896 | 24.88506 |
| ENSG00000128283 | CDC42EP1 | 486 | 443.7029015 | 1.91824 | 7.85509 |
| ENSG00000174231 | PRPF8 | 478 | 256.4224704 | 3.71745 | 9.3646 |
| ENSG00000148730 | EIF4EBP2 | 477 | 60.78923817 | 1.89265 | 5.07553 |
| ENSG00000285976 | AL135905.2 | 473 | 85.97644483 | 1.67761 | 22.03526 |
| ENSG00000118058 | KMT2A | 464 | 128.9049605 | 2.93161 | 5.86828 |
| ENSG00000226608 | FTLP3 | 459 | 803.9780793 | 3.05899 | 111.42392 |
| ENSG0000012660 | ELOVL5 | 454 | 253.0899567 | 2.69634 | 23.46147 |
| ENSG00000058262 | SEC61A1 | 453 | 218.4313872 | 2.2892 | 10.17125 |
| ENSG00000105887 | MTPN | 450 | 180.2411815 | 2.30217 | 11.06706 |
| ENSG00000111676 | ATN1 | 445 | 158.3504042 | 5.10959 | 19.26424 |
| ENSG00000123066 | MED13L | 442 | 112.890966 | 4.16651 | 11.9912 |
| ENSG00000055609 | KMT2C | 441 | 62.53501232 | 3.35408 | 9.03807 |
| ENSG00000196182 | STK40 | 440 | 174.497647 | 3.70908 | 20.85973 |
| ENSG00000083312 | TNPO1 | 434 | 242.0865426 | 1.88643 | 5.42553 |
| ENSG00000171988 | JMJD1C | 431 | 113.8220945 | 2.80545 | 5.931 |
| ENSG00000156639 | ZFAND3 | 431 | 288.635029 | 3.69245 | 11.00655 |
| ENSG00000168066 | SF1 | 427 | 275.3874651 | 4.49906 | 19.11593 |
| ENSG00000137309 | HMGA1 | 426 | 229.4588162 | 2.30778 | 5.52475 |
| ENSG00000115977 | AAK1 | 424 | 148.4782705 | 4.9651 | 9.25272 |
| ENSG00000125534 | PPDPF | 424 | 668.0257451 | 2.5277 | 13.81304 |
| ENSG00000060749 | QSER1 | 422 | 97.57035933 | 7.4 | 51.54924 |
| ENSG00000135387 | CAPRIN1 | 422 | 259.3232142 | 2.4501 | 11.13009 |
| ENSG00000100644 | HIF1A | 422 | 198.8188677 | 3.25538 | 27.55095 |

| | | | | | |
|-----------------|-----------|-----|-------------|----------|-----------|
| ENSG00000145012 | LPP | 422 | 122.4604447 | 12.32264 | 27.18163 |
| ENSG00000167552 | TUBA1A | 410 | 349.477776 | 2.35176 | 18.97977 |
| ENSG00000090060 | PAPOLA | 397 | 292.3252381 | 1.8048 | 5.12618 |
| ENSG00000060237 | WNK1 | 394 | 115.4947659 | 5.42264 | 9.31879 |
| ENSG00000168175 | MAPK1IP1L | 393 | 166.2676802 | 7.51761 | 116.59545 |
| ENSG00000103994 | ZNF106 | 393 | 106.7433624 | 2.7036 | 6.11664 |
| ENSG00000187446 | CHP1 | 386 | 353.1031516 | 3.5378 | 28.04435 |
| ENSG00000250927 | MESTP3 | 383 | 365.9222869 | 2.26652 | 46.30354 |
| ENSG00000184588 | PDE4B | 379 | 244.601133 | 2.65972 | 11.18385 |
| ENSG00000074657 | ZNF532 | 371 | 199.6013516 | 4.11294 | 18.64918 |
| ENSG00000112081 | SRSF3 | 362 | 193.0745015 | 3.9695 | 41.25158 |
| ENSG00000253352 | TUG1 | 350 | 81.63761292 | 2.63765 | 8.71118 |
| ENSG00000067225 | PKM | 348 | 224.1249722 | 2.42352 | 19.14338 |
| ENSG00000152558 | TMEM123 | 347 | 248.1969239 | 1.86168 | 4.78256 |
| ENSG00000108256 | NUFIP2 | 346 | 56.09005874 | 2.99937 | 11.63754 |
| ENSG00000138685 | FGF2 | 344 | 70.01410872 | 2.5376 | 11.8267 |
| ENSG00000109133 | TMEM33 | 339 | 130.7422529 | 4.52453 | 6.6833 |
| ENSG00000076108 | BAZ2A | 338 | 153.3080357 | 3.52007 | 10.93404 |
| ENSG00000154380 | ENAH | 337 | 105.6867573 | 5.49979 | 21.93163 |
| ENSG00000181722 | ZBTB20 | 337 | 116.6430566 | 4.88652 | 10.65463 |
| ENSG00000104067 | TJP1 | 335 | 91.90761562 | 2.37702 | 4.75251 |
| ENSG00000158195 | WASF2 | 332 | 90.84202949 | 2.94948 | 11.63754 |
| ENSG00000095787 | WAC | 329 | 174.2677818 | 3.1934 | 14.83553 |
| ENSG00000138336 | TET1 | 329 | 32.75964116 | 2.97436 | 5.9866 |
| ENSG00000161202 | DVL3 | 326 | 171.7931821 | 6.94488 | 24.75457 |
| ENSG00000086598 | TMED2 | 324 | 216.5082077 | 1.94437 | 6.03376 |
| ENSG00000182934 | SRPRA | 319 | 229.590017 | 4.09947 | 31.5096 |
| ENSG00000136485 | DCAF7 | 319 | 168.1043714 | 2.56849 | 5.38186 |
| ENSG00000177311 | ZBTB38 | 318 | 153.096478 | 3.65352 | 9.17341 |
| ENSG00000233913 | RPL10P9 | 318 | 455.9664097 | 4.55368 | 129.58667 |
| ENSG00000132912 | DCTN4 | 313 | 239.6309161 | 1.77281 | 4.81156 |
| ENSG00000149948 | HMGAA2 | 309 | 125.5601039 | 5.86674 | 48.65232 |
| ENSG00000047849 | MAP4 | 309 | 109.9979971 | 5.12327 | 8.41215 |
| ENSG00000128989 | ARPP19 | 306 | 175.9952014 | 2.26531 | 5.33979 |
| ENSG00000101126 | ADNP | 301 | 67.73141029 | 2.44501 | 6.04417 |
| ENSG00000182481 | KPNA2 | 297 | 264.1122559 | 2.19114 | 6.67569 |
| ENSG00000168769 | TET2 | 297 | 44.53254639 | 6.69728 | 31.14822 |
| ENSG0000005339 | CREBBP | 296 | 174.0317283 | 4.12022 | 10.20195 |
| ENSG00000115844 | DLX2 | 296 | 127.1490519 | 2.32296 | 11.40715 |
| ENSG00000055208 | TAB2 | 296 | 108.7611874 | 3.3934 | 4.79185 |
| ENSG00000109654 | TRIM2 | 291 | 174.0800265 | 2.43618 | 6.89951 |
| ENSG00000148143 | ZNF462 | 291 | 123.1705817 | 3.35041 | 6.99766 |
| ENSG00000108091 | CCDC6 | 290 | 87.61936735 | 2.95988 | 8.24392 |
| ENSG00000187605 | TET3 | 290 | 56.8226448 | 3.75912 | 7.73977 |

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| ENSG00000122203 | KIAA1191 | 290 | 190.4850025 | 3.28138 | 24.91142 |
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| ENSG00000125398 | SOX9 | 287 | 67.55621554 | 4.88101 | 26.19258 |
| ENSG00000146278 | PNRC1 | 285 | 187.0679175 | 6.00744 | 91.10371 |
| ENSG00000172757 | CFL1 | 284 | 275.3185097 | 1.81953 | 15.54981 |
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| ENSG00000132846 | ZBED3 | 279 | 108.3247988 | 3.81076 | 27.77562 |
| ENSG00000121644 | DESI2 | 278 | 153.9549899 | 4.66234 | 20.57104 |
| ENSG00000011405 | PIK3C2A | 277 | 100.6205796 | 3.12516 | 5.43154 |
| ENSG00000131467 | PSME3 | 277 | 174.2721058 | 1.944 | 4.98178 |
| ENSG00000129422 | MTUS1 | 275 | 137.7737381 | 4.27878 | 12.68071 |
| ENSG00000100393 | EP300 | 271 | 189.298316 | 3.03019 | 8.1324 |
| ENSG00000146112 | PPP1R18 | 271 | 94.0806946 | 2.0458 | 5.43924 |
| ENSG00000130338 | TULP4 | 271 | 83.10045438 | 4.06698 | 6.9063 |
| ENSG00000075420 | FNDC3B | 270 | 111.4262083 | 5.01833 | 15.30598 |
| ENSG00000197157 | SND1 | 270 | 304.1487611 | 3.25359 | 5.31046 |
| ENSG00000163191 | S100A11 | 266 | 427.095109 | 7.69424 | 418.77039 |
| ENSG00000136021 | SCYL2 | 266 | 161.1046383 | 5.99636 | 9.40778 |
| ENSG00000164054 | SHISA5 | 266 | 176.6021412 | 2.34414 | 16.05119 |
| ENSG00000115993 | TRAK2 | 265 | 124.34396 | 4.16014 | 21.5187 |
| ENSG00000114126 | TFDP2 | 264 | 151.7446288 | 2.88651 | 4.75916 |
| ENSG00000143442 | POGZ | 263 | 105.3409572 | 3.86599 | 13.45397 |
| ENSG00000068654 | POLR1A | 259 | 98.77646188 | 4.32953 | 7.05133 |
| ENSG00000049618 | ARID1B | 259 | 62.85303596 | 5.42264 | 9.31879 |
| ENSG00000217128 | FNIP1 | 258 | 54.47673117 | 3.44696 | 9.62294 |
| ENSG00000136997 | MYC | 258 | 167.9156105 | 1.77727 | 5.64357 |
| ENSG00000056586 | RC3H2 | 258 | 82.30703088 | 7.88397 | 20.38453 |
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| ENSG00000113552 | GNPDA1 | 257 | 193.5531311 | 2.33917 | 8.5184 |
| ENSG00000198911 | SREBF2 | 255 | 90.60067996 | 3.69791 | 18.78286 |
| ENSG00000005483 | KMT2E | 255 | 112.2482484 | 3.04387 | 6.41011 |
| ENSG00000177200 | CHD9 | 254 | 55.05243319 | 4.61557 | 14.0966 |
| ENSG00000188994 | ZNF292 | 254 | 84.52995049 | 2.70708 | 4.83877 |
| ENSG00000006125 | AP2B1 | 253 | 131.4516263 | 3.67873 | 22.06766 |
| ENSG00000167232 | ZNF91 | 251 | 151.8209417 | 2.63309 | 6.81026 |
| ENSG00000170275 | CRTAP | 250 | 77.04411273 | 2.6475 | 8.65797 |
| ENSG00000219507 | FTH1P8 | 250 | 449.823701 | 3.63995 | 44.42178 |
| ENSG00000196313 | POM121 | 249 | 46.02929138 | 3.87948 | 18.97719 |
| ENSG00000140262 | TCF12 | 246 | 142.4608843 | 2.29074 | 7.26566 |
| ENSG00000128918 | ALDH1A2 | 245 | 189.4525039 | 3.04133 | 13.85682 |
| ENSG00000183255 | PTTG1IP | 245 | 158.3404575 | 2.44694 | 9.72568 |
| ENSG00000092421 | SEMA6A | 243 | 122.6722268 | 2.22486 | 5.30301 |
| ENSG00000124789 | NUP153 | 243 | 38.90850408 | 3.05059 | 6.81795 |
| ENSG00000134352 | IL6ST | 242 | 84.3931682 | 3.15189 | 9.23779 |

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| ENSG00000134333 | LDHA | 241 | 200.6173218 | 4.47582 | 78.35112 |
| ENSG00000107771 | CCSER2 | 239 | 77.61101456 | 3.60095 | 12.6546 |
| ENSG00000082701 | GSK3B | 239 | 90.14525672 | 3.25359 | 5.31046 |
| ENSG00000152601 | MBNL1 | 237 | 69.53886244 | 4.15298 | 17.53733 |
| ENSG00000172380 | GNG12 | 236 | 89.67200365 | 2.1192 | 4.93094 |
| ENSG00000204217 | BMPR2 | 236 | 34.44786251 | 4.56438 | 10.30564 |
| ENSG00000136381 | IREB2 | 235 | 120.341539 | 2.96797 | 6.56246 |
| ENSG00000126247 | CAPNS1 | 234 | 229.9808521 | 5.98387 | 18.00154 |
| ENSG00000079432 | CIC | 233 | 79.89882992 | 4.29865 | 6.99678 |
| ENSG00000185728 | YTHDF3 | 233 | 93.6086639 | 2.0852 | 4.91801 |
| ENSG00000185591 | SP1 | 231 | 70.55398588 | 3.11806 | 8.45449 |
| ENSG00000035403 | VCL | 230 | 59.96972983 | 8.71573 | 19.6141 |
| ENSG00000107863 | ARHGAP21 | 227 | 87.95061547 | 2.8813 | 7.14921 |
| ENSG00000180398 | MCFD2 | 227 | 116.3736802 | 2.77126 | 7.76376 |
| ENSG00000204569 | PPP1R10 | 224 | 192.5312328 | 2.97396 | 7.02967 |
| ENSG00000108061 | SHOC2 | 223 | 109.8768082 | 3.60134 | 13.75022 |
| ENSG00000113384 | GOLPH3 | 223 | 138.6945319 | 3.09513 | 14.20577 |
| ENSG00000113328 | CCNG1 | 222 | 212.9812567 | 2.02585 | 4.74966 |
| ENSG00000005486 | RHBDD2 | 221 | 193.1843988 | 3.37429 | 13.6723 |
| ENSG00000103194 | USP10 | 218 | 208.0645834 | 1.85554 | 5.3064 |
| ENSG00000153317 | ASAP1 | 218 | 103.9786392 | 3.2434 | 8.65647 |
| ENSG00000120693 | SMAD9 | 215 | 46.86308479 | 6.62013 | 12.18861 |
| ENSG00000132466 | ANKRD17 | 215 | 46.53406711 | 5.42264 | 9.31879 |
| ENSG00000255642 | PABC1P4 | 214 | 105.55479 | 4.5176 | 55.80456 |
| ENSG00000165997 | ARL5B | 213 | 27.37498523 | 3.81085 | 11.72706 |
| ENSG00000088247 | KHSRP | 212 | 197.2490505 | 2.82088 | 8.92154 |
| ENSG00000272391 | POM121C | 212 | 95.50197573 | 2.57332 | 6.92955 |
| ENSG00000142599 | RERE | 210 | 95.01755437 | 3.73531 | 8.87152 |
| ENSG0000006468 | ETV1 | 210 | 82.92736171 | 2.71074 | 6.72949 |
| ENSG00000235437 | LINC01278 | 210 | 103.2513988 | 7.23309 | 58.35772 |
| ENSG00000121089 | NACA3P | 209 | 298.2886475 | 3.45718 | 48.88113 |
| ENSG00000105323 | HNRNPUL1 | 208 | 115.5352589 | 5.03963 | 20.59565 |
| ENSG00000158711 | ELK4 | 207 | 59.80673806 | 4.25489 | 15.98026 |
| ENSG00000029363 | BCLAF1 | 207 | 67.86294525 | 3.35678 | 9.77814 |
| ENSG00000127946 | HIP1 | 206 | 65.2677393 | 3.45975 | 6.46191 |
| ENSG00000111348 | ARHGDI1 | 205 | 250.4513784 | 4.36179 | 75.52826 |
| ENSG00000136240 | KDELR2 | 205 | 154.6424906 | 2.01055 | 7.18951 |
| ENSG00000162599 | NFIA | 204 | 88.86804331 | 3.69245 | 11.00655 |
| ENSG00000273841 | TAF9 | 204 | 187.9151952 | 3.01823 | 32.03793 |
| ENSG00000125686 | MED1 | 203 | 65.43813817 | 2.91897 | 6.27273 |
| ENSG00000130175 | PRKCSH | 203 | 199.7255515 | 3.74959 | 10.35194 |
| ENSG00000072062 | PRKACA | 201 | 126.2855593 | 5.12327 | 8.41215 |
| ENSG0000009413 | REV3L | 201 | 36.65792612 | 2.9655 | 5.28566 |
| ENSG00000151176 | PLBD2 | 200 | 90.40445055 | 5.7683 | 14.29954 |

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| ENSG00000136451 | VEZF1 | 200 | 78.40928607 | 3.72803 | 15.50603 |
| ENSG00000168488 | ATXN2L | 198 | 98.45044665 | 4.74477 | 20.15921 |
| ENSG00000178719 | GRINA | 196 | 183.8419429 | 2.48571 | 6.96926 |
| ENSG00000164190 | NIPBL | 195 | 50.87258623 | 3.38066 | 8.13604 |
| ENSG00000110851 | PRDM4 | 194 | 114.1338935 | 2.70071 | 8.54503 |
| ENSG00000181827 | RFX7 | 194 | 35.62718043 | 3.1678 | 6.26799 |
| ENSG00000138760 | SCARB2 | 194 | 66.01121437 | 2.94854 | 7.60861 |
| ENSG00000131023 | LATS1 | 194 | 54.13955361 | 2.8545 | 6.29195 |
| ENSG00000105220 | GPI | 193 | 121.0947375 | 2.55878 | 15.86857 |
| ENSG00000172845 | SP3 | 192 | 61.46376102 | 3.29293 | 15.50482 |
| ENSG00000198315 | ZKSCAN8 | 192 | 56.56859051 | 3.16038 | 5.2663 |
| ENSG00000105993 | DNAJB6 | 191 | 115.5290831 | 3.04761 | 9.28 |
| ENSG00000062485 | CS | 190 | 183.422892 | 3.38912 | 21.96444 |
| ENSG00000213699 | SLC35F6 | 190 | 59.72778061 | 2.1192 | 4.93094 |
| ENSG00000166454 | ATMIN | 187 | 55.91484577 | 2.97852 | 8.7635 |
| ENSG00000179134 | SAMD4B | 187 | 103.4357763 | 8.10849 | 21.41391 |
| ENSG00000244462 | RBM12 | 187 | 53.42743835 | 2.66442 | 8.55606 |
| ENSG00000085185 | BCORL1 | 187 | 44.7579239 | 4.05425 | 11.31445 |
| ENSG00000105438 | KDELR1 | 186 | 168.3168106 | 5.59204 | 61.72049 |
| ENSG00000106299 | WASL | 185 | 38.57834113 | 3.45126 | 11.47391 |
| ENSG00000147548 | NSD3 | 184 | 64.26363496 | 2.95822 | 9.33966 |
| ENSG00000135870 | RC3H1 | 181 | 36.96082861 | 3.74387 | 6.88384 |
| ENSG00000136010 | ALDH1L2 | 181 | 44.73425782 | 2.81934 | 5.34426 |
| ENSG00000112335 | SNX3 | 181 | 127.3939062 | 2.51642 | 22.53831 |
| ENSG00000107341 | UBE2R2 | 181 | 41.07867307 | 2.59064 | 10.99498 |
| ENSG00000127589 | TUBBP1 | 180 | 111.6504059 | 3.67203 | 65.48584 |
| ENSG00000255717 | SNHG1 | 176 | 193.315208 | 2.9688 | 32.76742 |
| ENSG00000134970 | TMED7 | 175 | 94.59179872 | 2.65989 | 9.8775 |
| ENSG00000096070 | BRPF3 | 175 | 49.34346573 | 4.36332 | 10.85701 |
| ENSG00000198728 | LDB1 | 174 | 114.6166169 | 6.68401 | 16.29781 |
| ENSG00000168214 | RBPJ | 174 | 122.002828 | 2.22486 | 5.30301 |
| ENSG00000163125 | RPRD2 | 173 | 35.47602939 | 4.05849 | 9.09299 |
| ENSG00000224550 | AC114491.1 | 171 | 642.8748678 | 3.80454 | 65.75191 |
| ENSG00000134910 | STT3A | 171 | 118.8183452 | 2.61472 | 5.53144 |
| ENSG00000180008 | SOCS4 | 171 | 35.43518205 | 3.21763 | 5.4874 |
| ENSG00000120071 | KANSL1 | 171 | 63.05710426 | 5.36629 | 18.8704 |
| ENSG00000171467 | ZNF318 | 171 | 46.67863562 | 4.1517 | 7.99138 |
| ENSG00000224470 | ATXN1L | 170 | 53.84328081 | 4.28642 | 10.33359 |
| ENSG00000128050 | PAICS | 170 | 63.78189856 | 2.74196 | 10.95322 |
| ENSG00000171681 | ATF7IP | 169 | 74.18013404 | 4.5033 | 14.0966 |
| ENSG00000111412 | C12orf49 | 168 | 55.52991598 | 2.98384 | 4.87361 |
| ENSG00000135018 | UBQLN1 | 168 | 66.68356433 | 3.49293 | 8.13604 |
| ENSG00000063245 | EPN1 | 167 | 46.68919812 | 2.58139 | 7.05584 |
| ENSG00000148737 | TCF7L2 | 166 | 89.67466696 | 3.60944 | 7.09102 |

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| ENSG00000148484 | RSU1 | 165 | 56.55974511 | 4.60708 | 38.29904 |
| ENSG00000166987 | MBD6 | 165 | 168.9902462 | 4.25085 | 11.91449 |
| ENSG00000116127 | ALMS1 | 165 | 24.13001143 | 4.74057 | 8.44714 |
| ENSG00000159840 | ZYX | 165 | 130.7610902 | 2.94063 | 9.91508 |
| ENSG00000188706 | ZDHHC9 | 165 | 84.91830401 | 5.01007 | 7.07466 |
| ENSG00000182463 | TSHZ2 | 164 | 36.57423554 | 4.31977 | 10.07371 |
| ENSG00000086232 | EIF2AK1 | 164 | 140.5684474 | 3.90927 | 26.1753 |
| ENSG00000204842 | ATXN2 | 163 | 68.92936317 | 5.06463 | 17.06691 |
| ENSG00000131844 | MCCC2 | 162 | 100.1495185 | 3.53478 | 13.16268 |
| ENSG00000162430 | SELENON | 161 | 44.90314903 | 2.02585 | 4.74966 |
| ENSG00000120685 | PROSER1 | 161 | 96.93935039 | 5.40324 | 16.87865 |
| ENSG00000125648 | SLC25A23 | 161 | 137.4873889 | 4.71434 | 19.28413 |
| ENSG00000148516 | ZEB1 | 160 | 61.63015605 | 3.2221 | 6.40804 |
| ENSG00000115738 | ID2 | 160 | 131.5324486 | 3.65368 | 30.3305 |
| ENSG00000113569 | NUP155 | 158 | 55.70885612 | 5.25209 | 7.4414 |
| ENSG00000160691 | SHC1 | 155 | 75.84646403 | 2.78886 | 7.55434 |
| ENSG00000129315 | CCNT1 | 155 | 48.92485223 | 3.60519 | 8.74288 |
| ENSG00000107779 | BMPR1A | 154 | 29.9463792 | 2.80545 | 5.931 |
| ENSG00000170689 | HOXB9 | 154 | 55.18209202 | 2.51063 | 8.03104 |
| ENSG00000141568 | FOXK2 | 154 | 82.70904732 | 3.5261 | 12.05923 |
| ENSG00000064666 | CNN2 | 154 | 108.8044152 | 2.83351 | 17.80216 |
| ENSG00000114784 | EIF1B | 154 | 180.7423598 | 3.43572 | 24.17037 |
| ENSG00000213676 | ATF6B | 154 | 95.58723456 | 2.25094 | 5.84888 |
| ENSG00000183283 | DAZAP2 | 153 | 118.9076823 | 3.71745 | 9.3646 |
| ENSG00000166783 | MARF1 | 153 | 48.87742382 | 2.91552 | 5.16244 |
| ENSG00000106609 | TMEM248 | 152 | 109.4823243 | 2.93605 | 11.71423 |
| ENSG00000273654 | AC020904.2 | 151 | 90.97750287 | 2.88367 | 16.46737 |
| ENSG00000132824 | SERINC3 | 151 | 75.73235732 | 2.36882 | 7.19582 |
| ENSG00000109184 | DCUN1D4 | 151 | 96.84498398 | 3.2558 | 5.73058 |
| ENSG00000237514 | PTP4A1P7 | 150 | 269.8942206 | 5.66066 | 92.72927 |
| ENSG00000116698 | SMG7 | 150 | 64.19510846 | 8.78208 | 24.58018 |
| ENSG00000172318 | B3GALT1 | 150 | 27.23314279 | 5.01833 | 15.30598 |
| ENSG00000138443 | ABI2 | 150 | 54.14739632 | 3.37429 | 13.6723 |
| ENSG00000214517 | PPME1 | 149 | 71.95863804 | 2.10316 | 5.75491 |
| ENSG00000056097 | ZFR | 149 | 66.82870604 | 8.41636 | 18.49883 |
| ENSG00000137166 | FOXP4 | 149 | 36.56163222 | 3.35041 | 6.99766 |
| ENSG00000106511 | MEOX2 | 149 | 55.12031674 | 3.14864 | 7.35925 |
| ENSG00000204138 | PHACTR4 | 148 | 58.39417846 | 5.84127 | 10.02177 |
| ENSG00000120451 | SNX19 | 147 | 81.06804817 | 4.13919 | 9.62239 |
| ENSG00000139496 | NUP58 | 147 | 82.5446975 | 4.74057 | 8.44714 |
| ENSG00000107798 | LIPA | 146 | 94.29209445 | 4.70951 | 25.27414 |
| ENSG00000111540 | RAB5B | 146 | 85.8399741 | 3.01732 | 11.57109 |
| ENSG00000119547 | ONECUT2 | 146 | 16.30949139 | 5.77656 | 12.51097 |
| ENSG00000089693 | MLF2 | 145 | 144.6617494 | 3.62949 | 25.88905 |

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| ENSG00000160014 | CALM3 | 145 | 130.5758926 | 3.6061 | 12.92688 |
| ENSG00000101266 | CSNK2A1 | 145 | 52.22018759 | 3.01342 | 11.77457 |
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| ENSG00000090924 | PLEKHG2 | 144 | 86.53450565 | 2.70708 | 4.83877 |
| ENSG00000163697 | APBB2 | 144 | 82.20778037 | 4.08632 | 7.85212 |
| ENSG0000013275 | PSMC4 | 142 | 102.9207909 | 3.33321 | 9.22533 |
| ENSG00000100225 | FBXO7 | 142 | 65.46706338 | 1.97876 | 7.04352 |
| ENSG00000116128 | BCL9 | 140 | 52.37752997 | 2.80545 | 5.931 |
| ENSG00000116044 | NFE2L2 | 140 | 95.34407517 | 5.06865 | 31.59317 |
| ENSG00000204619 | PPP1R11 | 140 | 79.38519564 | 2.16827 | 6.1436 |
| ENSG00000234975 | FTH1P2 | 139 | 312.0204285 | 1.97705 | 15.30811 |
| ENSG00000107862 | GBF1 | 139 | 37.2291968 | 3.3934 | 4.79185 |
| ENSG00000100889 | PCK2 | 139 | 91.36632307 | 4.33132 | 8.71601 |
| ENSG00000164244 | PRRC1 | 139 | 50.83132327 | 6.18727 | 24.34908 |
| ENSG00000171316 | CHD7 | 139 | 54.4022076 | 3.21763 | 5.4874 |
| ENSG0000011451 | WIZ | 138 | 36.2064054 | 6.5368 | 15.45243 |
| ENSG00000126464 | PRR12 | 138 | 32.72502026 | 8.97343 | 17.13777 |
| ENSG00000218418 | AL591135.1 | 138 | 21.58058489 | 3.31563 | 10.64726 |
| ENSG00000075151 | EIF4G3 | 137 | 46.82289043 | 3.94198 | 10.65083 |
| ENSG00000198646 | NCOA6 | 137 | 41.78850313 | 8.10803 | 21.98252 |
| ENSG00000173402 | DAG1 | 137 | 64.87595571 | 3.82972 | 10.00074 |
| ENSG00000157764 | BRAF | 137 | 47.10139089 | 4.3945 | 7.79498 |
| ENSG00000115806 | GORASP2 | 136 | 110.2347975 | 2.70033 | 8.65797 |
| ENSG00000085449 | WDFY1 | 136 | 101.1076398 | 3.30182 | 7.12781 |
| ENSG00000127947 | PTPN12 | 136 | 132.119647 | 2.87906 | 11.79969 |
| ENSG00000085719 | CPNE3 | 136 | 108.2426024 | 3.60944 | 7.09102 |
| ENSG00000116221 | MRPL37 | 135 | 114.7546567 | 3.82547 | 13.87457 |
| ENSG00000178464 | RPL10P16 | 135 | 193.5706456 | 2.65886 | 63.05438 |
| ENSG00000272886 | DCP1A | 135 | 71.38540105 | 4.39202 | 6.81489 |
| ENSG00000109787 | KLF3 | 135 | 49.88136893 | 5.91645 | 20.15932 |
| ENSG00000170088 | TMEM192 | 135 | 28.75473663 | 3.19148 | 6.82397 |
| ENSG00000176087 | SLC35A4 | 135 | 49.94122658 | 5.07136 | 22.36155 |
| ENSG00000143157 | POGK | 134 | 28.68045103 | 3.99192 | 9.529 |
| ENSG00000140931 | CMTM3 | 134 | 107.0191959 | 4.25786 | 21.06458 |
| ENSG00000108523 | RNF167 | 134 | 131.4191187 | 3.88292 | 9.23266 |
| ENSG00000177426 | TGIF1 | 134 | 102.166718 | 4.44373 | 25.93205 |
| ENSG00000141425 | RPRD1A | 134 | 77.60064428 | 2.93161 | 5.86828 |
| ENSG00000189308 | LIN54 | 134 | 40.04143099 | 4.16651 | 11.9912 |
| ENSG00000112144 | ICK | 134 | 20.07910384 | 4.54234 | 8.80307 |
| ENSG00000107651 | SEC23IP | 133 | 83.11039958 | 3.60095 | 12.6546 |
| ENSG00000169118 | CSNK1G1 | 133 | 67.47306165 | 3.20235 | 5.20503 |
| ENSG00000145016 | RUBCN | 132 | 58.71984312 | 5.86321 | 12.68394 |
| ENSG00000177683 | THAP5 | 132 | 105.879058 | 4.39104 | 13.38262 |
| ENSG00000214110 | LDHAP4 | 132 | 122.3232003 | 3.59574 | 29.17969 |

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| ENSG00000103855 | CD276 | 130 | 93.85548696 | 3.3044 | 8.09834 |
| ENSG00000169375 | SIN3A | 130 | 65.95111289 | 2.88118 | 5.72783 |
| ENSG00000124207 | CSE1L | 130 | 42.87763152 | 4.33132 | 8.71601 |
| ENSG00000150712 | MTMR12 | 130 | 57.63608763 | 3.71745 | 9.3646 |
| ENSG00000105879 | CBLL1 | 129 | 85.76854153 | 3.3934 | 4.79185 |
| ENSG00000234130 | AL359263.1 | 129 | 42.66954265 | 3.60172 | 11.52872 |
| ENSG00000134779 | TPGS2 | 128 | 97.51169995 | 3.78689 | 20.49831 |
| ENSG00000226564 | FTH1P20 | 128 | 216.0204448 | 3.97979 | 48.52698 |
| ENSG00000147403 | RPL10 | 128 | 103.2076754 | 4.30895 | 53.3915 |
| ENSG00000143514 | TP53BP2 | 127 | 84.01599872 | 2.93688 | 4.87191 |
| ENSG00000175274 | TP53I11 | 127 | 87.19700535 | 2.8157 | 6.91423 |
| ENSG00000126773 | PCNX4 | 127 | 39.82854059 | 5.99636 | 9.40778 |
| ENSG00000069329 | VPS35 | 127 | 65.47066121 | 3.2434 | 8.65647 |
| ENSG00000113615 | SEC24A | 127 | 36.52188004 | 7.58437 | 30.94364 |
| ENSG00000181472 | ZBTB2 | 126 | 37.71182158 | 2.40176 | 6.18749 |
| ENSG00000122515 | ZMIZ2 | 126 | 48.67565943 | 6.03105 | 15.81479 |
| ENSG00000049245 | VAMP3 | 125 | 101.0530517 | 2.21844 | 4.95642 |
| ENSG00000110660 | SLC35F2 | 124 | 67.61783822 | 2.56078 | 6.78634 |
| ENSG00000277258 | PCGF2 | 124 | 64.06695733 | 2.69307 | 6.46897 |
| ENSG00000137203 | TFAP2A | 124 | 79.5835209 | 3.89772 | 9.89464 |
| ENSG00000179222 | MAGED1 | 124 | 51.58787837 | 2.31671 | 5.20725 |
| ENSG00000109084 | TMEM97 | 123 | 83.27600006 | 3.35041 | 6.99766 |
| ENSG00000173889 | PHC3 | 123 | 58.57621838 | 5.04981 | 11.80429 |
| ENSG00000112511 | PHF1 | 123 | 90.13868153 | 2.40063 | 7.04633 |
| ENSG00000135334 | AKIRIN2 | 123 | 109.5905743 | 2.50917 | 6.48096 |
| ENSG00000136802 | LRRC8A | 122 | 39.39601207 | 3.31607 | 7.68411 |
| ENSG00000164402 | 8-Sep | 121 | 55.18014844 | 2.70708 | 4.83877 |
| ENSG00000025039 | RRAGD | 121 | 34.13829806 | 3.5515 | 6.67217 |
| ENSG00000143569 | UBAP2L | 120 | 67.67103872 | 5.40566 | 15.15365 |
| ENSG00000129562 | DAD1 | 120 | 213.0144021 | 2.60484 | 16.71838 |
| ENSG00000048828 | FAM120A | 120 | 43.77929132 | 5.99636 | 9.40778 |
| ENSG00000135365 | PHF21A | 119 | 89.3308977 | 5.95164 | 18.43461 |
| ENSG00000067182 | TNFRSF1A | 119 | 104.81492 | 3.84688 | 5.26464 |
| ENSG00000105997 | HOXA3 | 118 | 65.62286737 | 2.17974 | 5.63771 |
| ENSG00000060339 | CCAR1 | 117 | 56.15256404 | 5.12327 | 8.41215 |
| ENSG00000233098 | CCDC144NL-AS1 | 117 | 93.44213378 | 2.44414 | 6.04056 |
| ENSG00000204576 | PRR3 | 116 | 54.45743827 | 4.17709 | 19.30075 |
| ENSG00000196247 | ZNF107 | 116 | 21.91200028 | 4.58252 | 7.85357 |
| ENSG00000087053 | MTMR2 | 115 | 65.97786343 | 3.3584 | 9.31396 |
| ENSG00000039523 | RIPOR1 | 115 | 66.59756785 | 2.40346 | 4.90017 |
| ENSG00000158985 | CDC42SE2 | 115 | 74.84610546 | 3.06336 | 7.09064 |
| ENSG00000105939 | ZC3HAV1 | 115 | 25.71477656 | 4.00688 | 6.79294 |
| ENSG00000067167 | TRAM1 | 115 | 65.40978835 | 4.85537 | 14.05127 |

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| ENSG00000139793 | MBNL2 | 114 | 29.36809981 | 7.65095 | 26.74579 |
| ENSG00000108518 | PFN1 | 113 | 104.4022386 | 1.71848 | 7.44054 |
| ENSG00000125505 | MBOAT7 | 113 | 73.80412486 | 2.70708 | 4.83877 |
| ENSG00000225022 | UBE2D3P1 | 113 | 235.3753171 | 2.2114 | 13.30914 |
| ENSG00000147955 | SIGMAR1 | 113 | 93.14317361 | 2.65815 | 10.61367 |
| ENSG00000054965 | FAM168A | 111 | 44.26777306 | 3.60701 | 8.23007 |
| ENSG00000213090 | AC007256.1 | 111 | 37.12729321 | 4.16014 | 21.5187 |
| ENSG00000130227 | XPO7 | 111 | 64.64544442 | 4.06698 | 6.9063 |
| ENSG00000155463 | OXA1L | 110 | 75.63727004 | 3.93 | 6.88384 |
| ENSG00000171475 | WIPF2 | 110 | 47.31726893 | 3.47871 | 7.60524 |
| ENSG00000112290 | WASF1 | 110 | 54.1704623 | 5.40373 | 21.57807 |
| ENSG00000157741 | UBN2 | 110 | 18.09214444 | 4.39202 | 6.81489 |
| ENSG00000116237 | ICMT | 109 | 45.10393319 | 3.27513 | 9.77814 |
| ENSG00000143079 | CTTNBP2NL | 109 | 44.72373145 | 4.54234 | 8.80307 |
| ENSG00000108175 | ZMIZ1 | 109 | 23.84842458 | 4.43991 | 9.30417 |
| ENSG00000188938 | FAM120AOS | 109 | 52.88944946 | 5.99636 | 9.40778 |
| ENSG00000182704 | TSKU | 108 | 49.37343211 | 5.52919 | 20.68931 |
| ENSG00000111605 | CPSF6 | 108 | 39.00134836 | 3.45126 | 11.47391 |
| ENSG00000122778 | KIAA1549 | 108 | 10.7043675 | 8.6013 | 15.96441 |
| ENSG00000046653 | GPM6B | 108 | 67.71691739 | 3.87417 | 7.70332 |
| ENSG00000180182 | MED14 | 108 | 67.71691739 | 8.6013 | 15.96441 |
| ENSG00000198464 | ZNF480 | 107 | 40.58967007 | 3.35041 | 6.99766 |
| ENSG00000157216 | SSBP3 | 106 | 82.38048579 | 2.63653 | 6.92562 |
| ENSG00000166272 | WBP1L | 106 | 40.66062965 | 3.31006 | 5.85335 |
| ENSG00000102531 | FNDC3A | 106 | 21.76088304 | 5.04981 | 11.80429 |
| ENSG00000124155 | PIGT | 106 | 53.83458434 | 3.90881 | 8.40735 |
| ENSG00000113269 | RNF130 | 106 | 42.66004269 | 2.12362 | 6.65219 |
| ENSG00000185127 | C6orf120 | 106 | 36.75769707 | 3.36639 | 9.86526 |
| ENSG00000173065 | FAM222B | 105 | 71.40289747 | 4.28642 | 10.33359 |
| ENSG00000017797 | RALBP1 | 105 | 40.04451157 | 3.45975 | 6.46191 |
| ENSG00000185800 | DMWD | 105 | 71.24573776 | 3.27513 | 9.77814 |
| ENSG00000048405 | ZNF800 | 105 | 47.4159866 | 3.12662 | 7.36388 |
| ENSG00000137145 | DENN4C | 105 | 25.42758328 | 6.32076 | 11.20838 |
| ENSG00000122034 | GTF3A | 104 | 95.04259193 | 2.08855 | 6.81709 |
| ENSG00000160767 | FAM189B | 103 | 53.5459615 | 3.00503 | 6.98403 |
| ENSG00000107611 | CUBN | 103 | 41.67028237 | 2.44501 | 6.04417 |
| ENSG00000111206 | FOXM1 | 103 | 47.89254173 | 2.65011 | 8.77722 |
| ENSG00000128965 | CHAC1 | 103 | 69.12791401 | 3.80336 | 11.12778 |
| ENSG00000103202 | NME4 | 103 | 84.37401728 | 3.41629 | 7.16949 |
| ENSG00000068697 | LAPTM4A | 103 | 84.59881483 | 4.74057 | 8.44714 |
| ENSG00000168906 | MAT2A | 103 | 71.24776777 | 2.69307 | 6.46897 |
| ENSG00000082213 | C5orf22 | 103 | 66.5676209 | 4.86719 | 16.03131 |
| ENSG00000143324 | XPR1 | 102 | 32.77742459 | 2.70708 | 4.83877 |
| ENSG00000164294 | GPX8 | 102 | 69.31185009 | 3.83178 | 8.52462 |

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| ENSG00000143418 | CERS2 | 101 | 71.96347492 | 2.94391 | 13.43354 |
| ENSG00000116731 | PRDM2 | 100 | 35.97189923 | 4.67456 | 9.81576 |
| ENSG00000136536 | 7-Mar | 100 | 48.31962012 | 3.54913 | 7.23018 |
| ENSG00000244509 | APOBEC3C | 100 | 47.74587141 | 3.07015 | 12.08649 |
| ENSG00000156735 | BAG4 | 100 | 48.3954751 | 3.99192 | 9.529 |
| ENSG00000171492 | LRRC8D | 99 | 58.39216543 | 4.10273 | 12.42869 |
| ENSG00000055483 | USP36 | 99 | 59.29981567 | 3.0938 | 5.83711 |
| ENSG00000141424 | SLC39A6 | 99 | 40.56664395 | 5.40566 | 15.15365 |
| ENSG00000048991 | R3HDM1 | 99 | 52.8326113 | 3.45975 | 6.46191 |
| ENSG00000145386 | CCNA2 | 99 | 32.73468552 | 4.70045 | 8.43351 |
| ENSG00000166340 | TPP1 | 98 | 35.79544939 | 5.7319 | 21.43962 |
| ENSG00000164329 | TENT2 | 98 | 69.77219235 | 7.77616 | 15.16255 |
| ENSG00000164638 | SLC29A4 | 98 | 40.97381458 | 5.62423 | 8.40875 |
| ENSG00000204272 | NBDY | 98 | 110.7996062 | 7.23491 | 73.79436 |
| ENSG00000230673 | PABPC1P3 | 97 | 195.444968 | 6.73949 | 89.99322 |
| ENSG00000160352 | ZNF714 | 96 | 43.56447635 | 4.01246 | 8.65803 |
| ENSG00000010818 | HIVEP2 | 96 | 14.71402101 | 4.50783 | 5.61193 |
| ENSG00000146729 | NIPSNAP2 | 96 | 75.36876299 | 2.69919 | 10.49449 |
| ENSG00000182378 | PLCXD1 | 96 | 57.16960901 | 3.37159 | 5.5509 |
| ENSG00000142669 | SH3BGRL3 | 95 | 72.3123994 | 1.93364 | 4.71371 |
| ENSG00000116604 | MEF2D | 95 | 31.68393987 | 4.39104 | 13.38262 |
| ENSG00000142089 | IFITM3 | 95 | 137.0664045 | 5.95425 | 61.97791 |
| ENSG00000171067 | C11orf24 | 95 | 107.5392476 | 2.86911 | 9.49879 |
| ENSG00000225674 | IPO7P2 | 95 | 50.20546587 | 2.5765 | 9.73062 |
| ENSG00000144369 | FAM171B | 95 | 25.97090312 | 3.60701 | 8.23007 |
| ENSG00000063978 | RNF4 | 95 | 83.12163223 | 3.00763 | 6.53583 |
| ENSG00000145687 | SSBP2 | 95 | 57.49971549 | 2.46164 | 6.18749 |
| ENSG00000137509 | PRCP | 94 | 68.83193012 | 2.64458 | 8.08262 |
| ENSG00000166831 | RBPMS2 | 94 | 46.31578463 | 5.22665 | 33.40974 |
| ENSG00000279800 | BCLAF1P2 | 94 | 33.32109151 | 3.08652 | 10.37695 |
| ENSG00000065427 | KARS | 94 | 78.95978905 | 5.33414 | 10.77257 |
| ENSG00000196172 | ZNF681 | 94 | 34.09205009 | 2.53231 | 7.18782 |
| ENSG00000198538 | ZNF28 | 94 | 49.19905362 | 4.00688 | 6.79294 |
| ENSG00000105983 | LMBR1 | 94 | 55.12665044 | 4.43991 | 9.30417 |
| ENSG00000137075 | RNF38 | 94 | 25.07491426 | 3.86361 | 9.529 |
| ENSG00000214391 | TUBAP2 | 93 | 53.32293256 | 3.92213 | 37.30744 |
| ENSG00000166716 | ZNF592 | 93 | 17.10618342 | 4.43991 | 9.30417 |
| ENSG00000005893 | LAMP2 | 93 | 37.99023419 | 5.99636 | 9.40778 |
| ENSG00000133065 | SLC41A1 | 92 | 28.74495023 | 4.87019 | 11.00531 |
| ENSG00000174903 | RAB1B | 92 | 56.76120926 | 2.22456 | 10.02648 |
| ENSG00000090487 | SPG21 | 92 | 85.85777264 | 2.17203 | 4.93094 |
| ENSG00000136715 | SAP130 | 92 | 28.47558657 | 6.86444 | 31.26926 |
| ENSG00000118705 | RPN2 | 92 | 76.30946429 | 3.84245 | 6.17367 |
| ENSG00000203950 | RTL8A | 92 | 101.2917294 | 8.88701 | 94.16211 |

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| ENSG00000179241 | LDLRAD3 | 91 | 53.50299756 | 7.11241 | 16.08995 |
| ENSG00000103507 | BCKDK | 91 | 56.33213866 | 2.70283 | 6.69973 |
| ENSG00000249485 | RBBP4P1 | 91 | 65.95628147 | 2.39982 | 7.90451 |
| ENSG00000105866 | SP4 | 91 | 25.16752846 | 5.63868 | 11.79668 |
| ENSG00000084754 | HADHA | 89 | 34.80361103 | 2.46448 | 9.02166 |
| ENSG00000166228 | PCBD1 | 88 | 114.7894253 | 4.11723 | 38.79769 |
| ENSG00000162129 | CLPB | 88 | 42.34427813 | 3.79245 | 6.60524 |
| ENSG00000184635 | ZNF93 | 88 | 81.79467595 | 4.49983 | 18.03066 |
| ENSG00000167081 | PBX3 | 88 | 55.97366064 | 5.99636 | 9.40778 |
| ENSG00000104897 | SF3A2 | 87 | 94.65984122 | 4.11267 | 13.11629 |
| ENSG00000213096 | ZNF254 | 87 | 30.41998678 | 3.97208 | 7.28745 |
| ENSG00000126003 | PLAGL2 | 87 | 14.10356968 | 2.8372 | 4.75456 |
| ENSG00000103042 | SLC38A7 | 86 | 54.4022076 | 3.45975 | 6.46191 |
| ENSG00000171469 | ZNF561 | 86 | 73.44046861 | 4.05849 | 9.09299 |
| ENSG00000149308 | NPAT | 85 | 33.4515702 | 3.14047 | 5.71072 |
| ENSG00000173456 | RNF26 | 85 | 28.2063832 | 4.04879 | 18.00508 |
| ENSG00000189079 | ARID2 | 85 | 18.54912458 | 4.4493 | 8.3168 |
| ENSG00000101294 | HM13 | 85 | 65.40032444 | 6.90252 | 22.98327 |
| ENSG00000156304 | SCAF4 | 85 | 27.39065853 | 3.2684 | 7.54459 |
| ENSG00000159346 | ADIPOR1 | 84 | 52.91985862 | 3.66938 | 13.7787 |
| ENSG00000122390 | NAA60 | 84 | 65.28264912 | 5.22944 | 12.62006 |
| ENSG00000183580 | FBXL7 | 84 | 22.66890938 | 4.33132 | 8.71601 |
| ENSG00000152926 | ZNF117 | 84 | 17.64796739 | 5.39385 | 8.45488 |
| ENSG00000258548 | LINC00645 | 83 | 30.8403033 | 2.70708 | 4.83877 |
| ENSG00000189067 | LITAF | 83 | 75.33024035 | 4.51961 | 13.06993 |
| ENSG00000072736 | NFATC3 | 83 | 23.22587441 | 3.89862 | 17.8589 |
| ENSG0000010244 | ZNF207 | 83 | 36.20826176 | 3.47871 | 7.60524 |
| ENSG00000184117 | NIPSNAP1 | 83 | 88.53692609 | 1.9849 | 5.10291 |
| ENSG00000241889 | AC079944.2 | 83 | 104.5797206 | 2.51811 | 12.10264 |
| ENSG00000134590 | RTL8C | 83 | 96.9211047 | 3.719 | 16.02264 |
| ENSG00000111114 | BTBD7 | 82 | 21.2249307 | 4.11945 | 6.02411 |
| ENSG00000109118 | PHF12 | 82 | 36.81392106 | 4.48842 | 9.05212 |
| ENSG00000233111 | RAB1C | 82 | 125.143032 | 2.90866 | 19.31668 |
| ENSG00000177951 | BET1L | 81 | 59.50106423 | 2.35826 | 5.68436 |
| ENSG00000158636 | EMSY | 81 | 29.79786788 | 7.4849 | 13.68189 |
| ENSG00000265273 | PGDP1 | 81 | 51.98600962 | 2.10045 | 5.61541 |
| ENSG00000103148 | NPRL3 | 80 | 43.70171431 | 2.55308 | 5.23431 |
| ENSG00000163597 | SNHG16 | 80 | 44.73216586 | 3.16917 | 16.59174 |
| ENSG00000143319 | ISG20L2 | 79 | 40.25463626 | 2.8372 | 4.75456 |
| ENSG0000009844 | VTA1 | 79 | 23.89214022 | 3.74308 | 10.6272 |
| ENSG0000011007 | ELOA | 78 | 21.7740197 | 4.47343 | 10.80696 |
| ENSG00000076685 | NT5C2 | 78 | 63.05710426 | 2.62808 | 10.23671 |
| ENSG00000082805 | ERC1 | 78 | 22.43773788 | 6.43001 | 10.9893 |
| ENSG00000279392 | AL158801.5 | 78 | 155.1340372 | 2.95458 | 16.8614 |

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| ENSG00000156860 | FBRS | 78 | 37.82764933 | 6.3685 | 10.43636 |
| ENSG0000084676 | NCOA1 | 78 | 18.40707509 | 5.51879 | 9.06616 |
| ENSG00000114354 | TFG | 78 | 46.87285723 | 3.97709 | 15.45485 |
| ENSG00000126883 | NUP214 | 78 | 43.90585957 | 4.80692 | 12.00287 |
| ENSG00000196743 | GM2A | 77 | 41.96375353 | 5.40906 | 13.452 |
| ENSG00000112320 | SOBP | 77 | 31.99123529 | 4.43366 | 11.06089 |
| ENSG00000125354 | 6-Sep | 77 | 30.32899904 | 2.52491 | 5.06283 |
| ENSG00000151929 | BAG3 | 76 | 37.80938796 | 6.98585 | 16.40858 |
| ENSG00000198824 | CHAMP1 | 76 | 44.99849694 | 6.85942 | 15.09668 |
| ENSG00000156858 | PRR14 | 76 | 60.64508388 | 3.30182 | 7.12781 |
| ENSG00000108509 | CAMTA2 | 76 | 33.67879838 | 1.81623 | 7.00486 |
| ENSG00000154945 | ANKRD40 | 76 | 37.6675521 | 3.07085 | 5.1683 |
| ENSG00000196704 | AMZ2 | 76 | 59.76841175 | 3.53558 | 13.71696 |
| ENSG00000164168 | TMEM184C | 76 | 39.48744507 | 6.30717 | 16.93061 |
| ENSG00000213462 | ERV3-1 | 76 | 43.87493896 | 3.07085 | 5.1683 |
| ENSG00000172954 | LCLAT1 | 75 | 41.14045948 | 5.01891 | 10.14752 |
| ENSG00000112640 | PPP2R5D | 75 | 35.44344133 | 5.31442 | 16.16375 |
| ENSG00000179912 | R3HDM2 | 74 | 29.72979025 | 2.50917 | 6.48096 |
| ENSG00000186260 | MRTFB | 74 | 22.08389066 | 5.62423 | 8.40875 |
| ENSG00000087263 | OGFOD1 | 74 | 55.91338003 | 3.43285 | 7.96181 |
| ENSG00000223501 | VPS52 | 74 | 50.88325439 | 5.85791 | 18.62718 |
| ENSG00000147533 | GOLGA7 | 74 | 55.55030614 | 5.74195 | 32.79615 |
| ENSG00000104472 | CHRAC1 | 74 | 52.48311132 | 3.20461 | 7.53378 |
| ENSG00000136930 | PSMB7 | 74 | 102.7597255 | 4.73887 | 9.57653 |
| ENSG00000065559 | MAP2K4 | 73 | 47.88165931 | 2.52491 | 5.06283 |
| ENSG00000136908 | DPM2 | 73 | 60.11855711 | 2.15955 | 6.65219 |
| ENSG00000168528 | SERINC2 | 72 | 33.80116858 | 4.8239 | 7.53305 |
| ENSG00000081059 | TCF7 | 72 | 45.42176132 | 3.31607 | 7.68411 |
| ENSG00000188459 | WASF4P | 72 | 44.57048333 | 2.3851 | 7.34756 |
| ENSG00000119977 | TCTN3 | 71 | 36.52028063 | 5.08805 | 13.10118 |
| ENSG00000197111 | PCBP2 | 71 | 47.10435048 | 3.48231 | 41.20639 |
| ENSG00000132471 | WBP2 | 71 | 53.16879722 | 4.16651 | 11.9912 |
| ENSG00000073711 | PPP2R3A | 71 | 26.63832234 | 5.12327 | 8.41215 |
| ENSG00000215114 | UBXN2B | 71 | 44.24761764 | 5.01891 | 10.14752 |
| ENSG00000136854 | STXBP1 | 71 | 27.34838175 | 2.80545 | 5.931 |
| ENSG00000101447 | FAM83D | 70 | 26.77362574 | 4.6167 | 10.05901 |
| ENSG00000185920 | PTCH1 | 70 | 21.99749475 | 4.87996 | 6.50818 |
| ENSG00000167535 | CACNB3 | 69 | 50.8881894 | 2.95606 | 5.71192 |
| ENSG00000140577 | CRTC3 | 69 | 51.67108463 | 4.50783 | 5.61193 |
| ENSG00000104853 | CLPTM1 | 69 | 52.00797841 | 2.94854 | 7.60861 |
| ENSG00000169564 | PCBP1 | 69 | 36.46502258 | 3.30438 | 46.25417 |
| ENSG00000138674 | SEC31A | 69 | 35.23676947 | 7.09715 | 19.23568 |
| ENSG00000273749 | CYFIP1 | 68 | 33.30982626 | 4.61557 | 14.0966 |
| ENSG00000109686 | SH3D19 | 68 | 22.50857265 | 8.20798 | 19.25553 |

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| ENSG00000037749 | MFAP3 | 68 | 57.17177453 | 8.22917 | 14.8121 |
| ENSG00000095261 | PSMD5 | 68 | 64.56771251 | 3.87208 | 12.25296 |
| ENSG00000123473 | STIL | 67 | 19.91774814 | 3.37159 | 5.5509 |
| ENSG00000175376 | EIF1AD | 67 | 57.32110495 | 3.84473 | 8.25074 |
| ENSG00000184384 | MAML2 | 67 | 12.07877475 | 5.99636 | 9.40778 |
| ENSG00000171792 | RHNO1 | 67 | 56.58823238 | 3.0022 | 8.70635 |
| ENSG00000003056 | M6PR | 67 | 62.15056615 | 2.4783 | 5.32932 |
| ENSG00000100243 | CYB5R3 | 67 | 32.37414548 | 3.11669 | 9.80723 |
| ENSG00000144677 | CTDSPL | 67 | 36.64347395 | 5.48229 | 10.25345 |
| ENSG00000148842 | CNNM2 | 66 | 10.94678568 | 2.62808 | 10.23671 |
| ENSG00000248930 | AC020893.1 | 66 | 105.2401326 | 2.69798 | 13.5793 |
| ENSG00000148337 | CIZ1 | 66 | 39.20313226 | 5.88895 | 11.83284 |
| ENSG00000157625 | TAB3 | 66 | 14.18198813 | 5.20973 | 9.35571 |
| ENSG00000154803 | FLCN | 65 | 36.74476736 | 3.45975 | 6.46191 |
| ENSG00000198925 | ATG9A | 65 | 45.74919284 | 2.56035 | 4.8112 |
| ENSG00000228412 | AL022068.1 | 65 | 72.25293197 | 4.5033 | 14.0966 |
| ENSG00000218586 | AC006971.1 | 65 | 13.40045461 | 2.1192 | 4.93094 |
| ENSG00000198039 | ZNF273 | 65 | 30.78056293 | 3.37914 | 5.83198 |
| ENSG00000183354 | KIAA2026 | 65 | 16.74963483 | 4.87996 | 6.50818 |
| ENSG00000172269 | DPAGT1 | 64 | 42.55183456 | 5.28915 | 18.61682 |
| ENSG00000173744 | AGFG1 | 64 | 24.19852897 | 3.20461 | 7.53378 |
| ENSG00000106290 | TAF6 | 64 | 48.08253604 | 3.78567 | 6.06878 |
| ENSG00000174718 | KIAA1551 | 63 | 36.85310837 | 4.87996 | 6.50818 |
| ENSG00000139579 | NABP2 | 63 | 49.46075071 | 2.49492 | 5.90546 |
| ENSG00000196531 | NACA | 63 | 51.19926567 | 2.29528 | 6.55834 |
| ENSG00000138085 | ATRAID | 63 | 72.46861236 | 4.06698 | 6.9063 |
| ENSG00000136699 | SMPD4 | 63 | 28.71600017 | 3.84245 | 6.17367 |
| ENSG00000135926 | TMBIM1 | 63 | 61.07417645 | 3.93959 | 9.73981 |
| ENSG00000196782 | MAML3 | 62 | 20.88886223 | 4.8239 | 7.53305 |
| ENSG00000112624 | BICRAL | 62 | 8.797165819 | 4.29151 | 7.66459 |
| ENSG00000233225 | AC004987.2 | 62 | 49.94767144 | 2.90059 | 8.00681 |
| ENSG00000080802 | CNOT4 | 61 | 24.54964721 | 4.89003 | 14.53762 |
| ENSG00000258501 | EIF3LP1 | 60 | 33.46818562 | 3.7 | 26.52257 |
| ENSG00000136504 | KAT7 | 60 | 32.22430415 | 5.99777 | 13.40795 |
| ENSG00000172081 | MOB3A | 60 | 59.09504979 | 3.45975 | 6.46191 |
| ENSG00000119042 | SATB2 | 60 | 18.29550008 | 5.25209 | 7.4414 |
| ENSG00000175470 | PPP2R2D | 59 | 20.73942008 | 3.2434 | 8.65647 |
| ENSG00000204611 | ZNF616 | 59 | 31.72407804 | 4.32953 | 7.05133 |
| ENSG00000115207 | GTF3C2 | 59 | 42.36445203 | 4.9651 | 9.25272 |
| ENSG00000100167 | 3-Sep | 59 | 23.09158452 | 4.50783 | 5.61193 |
| ENSG00000172765 | TMCC1 | 59 | 28.77922691 | 4.51604 | 8.44714 |
| ENSG00000138802 | SEC24B | 59 | 12.66018891 | 5.40142 | 19.40708 |
| ENSG00000151612 | ZNF827 | 59 | 29.10155425 | 3.76356 | 4.75601 |
| ENSG00000095951 | HIVEP1 | 59 | 14.68391125 | 4.50783 | 5.61193 |

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| ENSG00000157450 | RNF111 | 58 | 23.63021 | 3.43321 | 5.94583 |
| ENSG00000141034 | GID4 | 58 | 37.66894431 | 3.43321 | 5.94583 |
| ENSG00000100129 | EIF3L | 58 | 44.81251186 | 2.19234 | 8.90042 |
| ENSG00000109066 | TMEM104 | 57 | 25.56534392 | 5.72202 | 10.25134 |
| ENSG00000167553 | TUBA1C | 56 | 44.57048333 | 3.70357 | 10.4957 |
| ENSG00000119242 | CCDC92 | 56 | 32.38955699 | 3.50398 | 9.27005 |
| ENSG00000163374 | YY1AP1 | 55 | 25.66400813 | 3.40728 | 12.56717 |
| ENSG00000143153 | ATP1B1 | 55 | 29.30072817 | 2.70708 | 4.83877 |
| ENSG00000132256 | TRIM5 | 55 | 33.7531945 | 3.97823 | 7.05525 |
| ENSG00000213250 | RBMS2P1 | 55 | 41.4894487 | 3.75651 | 10.07656 |
| ENSG00000141076 | UTP4 | 55 | 46.111610526 | 3.97208 | 7.28745 |
| ENSG00000141380 | SS18 | 55 | 54.4022076 | 2.98384 | 4.87361 |
| ENSG00000116120 | FARSB | 55 | 15.09826777 | 2.60587 | 4.94366 |
| ENSG00000171552 | BCL2L1 | 55 | 36.56798282 | 3.07377 | 6.25901 |
| ENSG00000172936 | MYD88 | 55 | 28.36924936 | 3.3044 | 8.09834 |
| ENSG00000086589 | RBM22 | 55 | 43.73694248 | 5.25209 | 7.4414 |
| ENSG00000148110 | MFSD14B | 55 | 17.86027532 | 3.24419 | 5.44973 |
| ENSG00000196268 | ZNF493 | 54 | 24.04488521 | 3.56446 | 5.37183 |
| ENSG0000010803 | SCMH1 | 53 | 22.79832049 | 3.3044 | 8.09834 |
| ENSG00000233328 | PFN1P1 | 53 | 115.8779883 | 4.30771 | 33.61834 |
| ENSG00000151414 | NEK7 | 53 | 44.19872772 | 5.21955 | 9.72747 |
| ENSG00000254598 | CSNK2A3 | 53 | 34.61609396 | 1.96781 | 6.20825 |
| ENSG00000211584 | SLC48A1 | 53 | 49.26270256 | 3.35041 | 6.99766 |
| ENSG00000078043 | PIAS2 | 53 | 26.39547068 | 6.08774 | 13.58947 |
| ENSG00000104833 | TUBB4A | 53 | 64.9223696 | 5.53469 | 30.44036 |
| ENSG00000197372 | ZNF675 | 53 | 37.79212725 | 3.02382 | 5.42841 |
| ENSG00000039560 | RAI14 | 53 | 38.414098 | 3.43321 | 5.94583 |
| ENSG00000109846 | CRYAB | 52 | 62.05361486 | 3.87948 | 18.97719 |
| ENSG00000215256 | DHRS4-AS1 | 52 | 35.43961055 | 3.47871 | 7.60524 |
| ENSG00000140157 | NIPA2 | 52 | 33.14372951 | 4.61557 | 14.0966 |
| ENSG00000006695 | COX10 | 52 | 28.97081417 | 4.87382 | 7.23956 |
| ENSG00000141030 | COPS3 | 52 | 57.04810382 | 3.16038 | 5.2663 |
| ENSG00000213015 | ZNF580 | 52 | 50.41043136 | 5.69021 | 26.65576 |
| ENSG00000124613 | ZNF391 | 52 | 32.8046054 | 4.8239 | 7.53305 |
| ENSG00000106603 | COA1 | 52 | 40.85943204 | 6.76132 | 16.40858 |
| ENSG00000143368 | SF3B4 | 51 | 32.39472115 | 3.53121 | 12.59602 |
| ENSG00000175592 | FOSL1 | 51 | 39.24019467 | 5.39794 | 25.40605 |
| ENSG00000196954 | CASP4 | 51 | 39.43705183 | 3.97208 | 7.28745 |
| ENSG0000012822 | CALCOCO1 | 51 | 36.06017889 | 4.22809 | 7.54274 |
| ENSG00000104313 | EYA1 | 51 | 17.66543595 | 4.22809 | 7.54274 |
| ENSG00000121931 | LRIF1 | 50 | 19.31573787 | 3.75912 | 7.73977 |
| ENSG00000149809 | TM7SF2 | 50 | 49.56256855 | 5.65743 | 10.56715 |
| ENSG00000167554 | ZNF610 | 50 | 29.15629033 | 3.84473 | 8.25074 |
| ENSG00000099917 | MED15 | 50 | 33.33949276 | 5.45559 | 10.58385 |

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| ENSG00000163659 | TIPARP | 50 | 15.69116948 | 4.89172 | 9.11386 |
| ENSG00000106049 | HIBADH | 50 | 38.15336341 | 4.05425 | 11.31445 |
| ENSG00000132692 | BCAN | 49 | 28.66352873 | 3.05059 | 6.81795 |
| ENSG00000033800 | PIAS1 | 49 | 22.45641176 | 6.47588 | 15.36915 |
| ENSG00000153815 | CMIP | 49 | 19.26744852 | 4.39202 | 6.81489 |
| ENSG00000109099 | PMP22 | 49 | 40.31765029 | 3.84666 | 13.37655 |
| ENSG00000176809 | LRRC37A3 | 49 | 22.74951753 | 4.50783 | 5.61193 |
| ENSG00000214078 | CPNE1 | 49 | 42.43168439 | 2.66442 | 8.55606 |
| ENSG00000175054 | ATR | 49 | 23.7635233 | 4.05849 | 9.09299 |
| ENSG00000178177 | LCORL | 49 | 9.678991655 | 3.3632 | 5.26923 |
| ENSG00000150961 | SEC24D | 49 | 24.01538894 | 4.8239 | 7.53305 |
| ENSG00000198225 | FKBP1C | 49 | 28.69983466 | 3.25991 | 18.67946 |
| ENSG00000224280 | AC005014.1 | 49 | 15.22749964 | 2.80545 | 5.931 |
| ENSG00000161642 | ZNF385A | 48 | 32.21495022 | 5.32015 | 13.67571 |
| ENSG00000205476 | CCDC85C | 48 | 13.22771198 | 3.60701 | 8.23007 |
| ENSG00000104064 | GABPB1 | 48 | 28.51136891 | 4.39202 | 6.81489 |
| ENSG00000141664 | ZCCHC2 | 48 | 18.89029847 | 3.84245 | 6.17367 |
| ENSG00000105750 | ZNF85 | 48 | 39.14656208 | 3.49293 | 8.13604 |
| ENSG00000066322 | ELOVL1 | 47 | 45.70700722 | 4.37682 | 11.59222 |
| ENSG00000123416 | TUBA1B | 47 | 34.44323603 | 4.24825 | 90.77259 |
| ENSG00000182117 | NOP10 | 47 | 87.8128563 | 7.23253 | 77.1049 |
| ENSG00000152518 | ZFP36L2 | 47 | 11.7606504 | 3.57056 | 4.8162 |
| ENSG00000164442 | CITED2 | 47 | 25.44927627 | 5.15949 | 12.87247 |
| ENSG00000188766 | SPRED3 | 46 | 30.04415702 | 3.92579 | 5.08049 |
| ENSG00000078081 | LAMP3 | 46 | 30.56215973 | 8.01018 | 17.2107 |
| ENSG00000197771 | MCMBP | 45 | 18.29348959 | 3.92579 | 5.08049 |
| ENSG00000079387 | SENP1 | 45 | 23.31523183 | 8.6013 | 15.96441 |
| ENSG00000102710 | SUPT20H | 45 | 24.32360538 | 5.41415 | 10.92847 |
| ENSG00000137764 | MAP2K5 | 45 | 37.39235293 | 2.70708 | 4.83877 |
| ENSG00000141627 | DYM | 45 | 45.73372397 | 5.70503 | 16.81004 |
| ENSG00000197020 | ZNF100 | 45 | 21.7779638 | 4.39202 | 6.81489 |
| ENSG00000221923 | ZNF880 | 45 | 47.2928282 | 5.22705 | 10.97272 |
| ENSG00000232024 | LSM12P1 | 45 | 70.77838233 | 2.87026 | 12.37331 |
| ENSG00000179933 | C14orf119 | 44 | 18.55579174 | 2.85252 | 7.67858 |
| ENSG00000140382 | HMG20A | 44 | 28.10279785 | 6.35344 | 13.16358 |
| ENSG00000128789 | PSMG2 | 44 | 55.82009778 | 3.60944 | 7.09102 |
| ENSG00000149679 | CABLES2 | 44 | 17.84774179 | 4.03937 | 6.53309 |
| ENSG00000226950 | DANCR | 44 | 57.80234557 | 4.16014 | 21.5187 |
| ENSG00000170085 | SIMC1 | 44 | 27.43954908 | 4.35616 | 9.81533 |
| ENSG00000066136 | NFYC | 43 | 33.19533702 | 4.65724 | 11.25152 |
| ENSG00000167182 | SP2 | 43 | 42.30639761 | 3.82355 | 5.53074 |
| ENSG00000125841 | NRSN2 | 43 | 40.37361802 | 4.22769 | 8.82991 |
| ENSG00000231007 | CDC20P1 | 43 | 26.51200917 | 4.77475 | 23.70878 |
| ENSG00000180628 | PCGF5 | 42 | 8.449679405 | 4.24852 | 10.88985 |

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| ENSG00000003249 | DBNDD1 | 42 | 22.9298561 | 4.69057 | 10.22378 |
| ENSG00000108774 | RAB5C | 42 | 43.11118338 | 3.59731 | 20.37132 |
| ENSG00000261373 | VPS9D1-AS1 | 41 | 28.2550959 | 5.15505 | 19.02383 |
| ENSG00000161921 | CXCL16 | 41 | 28.81332728 | 4.03937 | 6.53309 |
| ENSG00000134986 | NREP | 41 | 34.69198417 | 3.66388 | 14.90131 |
| ENSG00000137216 | TMEM63B | 41 | 21.69241344 | 5.62423 | 8.40875 |
| ENSG00000225968 | ELFN1 | 41 | 9.994290642 | 5.65984 | 18.4972 |
| ENSG00000248527 | MTATP6P1 | 40 | 54.32232183 | 7.99363 | 125.06414 |
| ENSG00000149260 | CAPN5 | 40 | 14.58159289 | 3.61283 | 6.60524 |
| ENSG00000070540 | WIPI1 | 40 | 33.69171327 | 2.79434 | 6.0158 |
| ENSG00000182141 | ZNF708 | 40 | 18.99050368 | 3.61283 | 6.60524 |
| ENSG00000241627 | UBQLN4P1 | 40 | 20.54053368 | 3.12516 | 5.43154 |
| ENSG00000151883 | PARP8 | 40 | 22.55701291 | 3.01069 | 5.2663 |
| ENSG00000235238 | SUMO2P1 | 40 | 130.2588069 | 5.4656 | 30.44036 |
| ENSG00000159596 | TMEM69 | 39 | 22.81382899 | 3.00503 | 6.98403 |
| ENSG00000132964 | CDK8 | 39 | 19.26744852 | 4.76043 | 7.42871 |
| ENSG00000166579 | NDEL1 | 39 | 33.5834857 | 4.87019 | 11.00531 |
| ENSG00000198816 | ZNF358 | 39 | 27.57543092 | 3.92049 | 16.73981 |
| ENSG00000152056 | AP1S3 | 39 | 30.258946 | 5.4061 | 13.46123 |
| ENSG00000145362 | ANK2 | 39 | 11.07419823 | 4.21628 | 22.1705 |
| ENSG00000107140 | TESK1 | 39 | 24.3214185 | 5.01007 | 7.07466 |
| ENSG00000163875 | MEAF6 | 38 | 27.86980659 | 3.10482 | 6.98403 |
| ENSG00000279088 | AC022400.7 | 38 | 28.43351627 | 2.96054 | 15.06988 |
| ENSG00000102699 | PARP4 | 38 | 15.82342463 | 4.50783 | 5.61193 |
| ENSG00000124399 | NDUFB4P12 | 38 | 90.11237464 | 4.07051 | 24.20976 |
| ENSG00000085231 | AK6 | 38 | 37.82973747 | 3.01823 | 32.03793 |
| ENSG00000056277 | ZNF280C | 38 | 10.64319385 | 7.4849 | 13.68189 |
| ENSG00000177666 | PNPLA2 | 37 | 25.84515754 | 4.56438 | 10.30564 |
| ENSG00000140307 | GTF2A2 | 37 | 48.74499798 | 3.40874 | 16.44339 |
| ENSG00000165006 | UBAP1 | 37 | 14.78142055 | 4.9651 | 9.25272 |
| ENSG00000158169 | FANCC | 37 | 24.54733757 | 6.74063 | 11.49264 |
| ENSG00000228532 | AC005000.1 | 37 | 118.8159326 | 4.28524 | 23.93206 |
| ENSG00000153071 | DAB2 | 36 | 25.01438847 | 7.11276 | 12.57497 |
| ENSG00000131459 | GFPT2 | 36 | 34.71757148 | 4.65724 | 11.25152 |
| ENSG00000242162 | AC018639.1 | 36 | 75.3261336 | 4.23241 | 23.27717 |
| ENSG00000160741 | CRTC2 | 35 | 23.45602429 | 4.51095 | 9.46042 |
| ENSG00000240809 | AC026877.1 | 35 | 22.94068995 | 3.60264 | 11.00655 |
| ENSG00000111328 | CDK2AP1 | 34 | 26.53542278 | 2.09821 | 9.03724 |
| ENSG00000121621 | KIF18A | 33 | 18.16645147 | 5.72202 | 10.25134 |
| ENSG00000110104 | CCDC86 | 33 | 18.37425555 | 3.94198 | 10.65083 |
| ENSG00000188612 | SUMO2 | 33 | 20.40082785 | 3.2705 | 17.02348 |
| ENSG00000133740 | E2F5 | 33 | 18.46318116 | 3.60944 | 7.09102 |
| ENSG00000182195 | LDOC1 | 33 | 28.18064493 | 6.79958 | 23.71396 |
| ENSG00000168765 | GSTM4 | 31 | 25.25987965 | 6.60315 | 21.16345 |

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| ENSG00000215271 | HOMEZ | 31 | 11.64972101 | 5.36506 | 8.00792 |
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| ENSG00000164182 | NDUFAF2 | 31 | 46.54214838 | 4.50783 | 5.61193 |
| ENSG00000157107 | FCHO2 | 31 | 17.66479569 | 2.69798 | 13.5793 |
| ENSG00000235105 | AL356968.2 | 30 | 22.07249473 | 4.55533 | 12.81357 |
| ENSG00000119917 | IFIT3 | 30 | 11.20562434 | 3.18545 | 4.92189 |
| ENSG00000007372 | PAX6 | 30 | 13.33259292 | 7.11276 | 12.57497 |
| ENSG00000080561 | MID2 | 30 | 16.87659725 | 5.62423 | 8.40875 |
| ENSG00000197472 | ZNF695 | 29 | 22.55701291 | 5.0885 | 9.53399 |
| ENSG00000131462 | TUBG1 | 29 | 24.58321572 | 6.68626 | 24.49225 |
| ENSG00000206195 | DUXAP8 | 29 | 14.51314304 | 6.35344 | 13.16358 |
| ENSG00000136243 | NUPL2 | 29 | 22.96257564 | 5.99777 | 13.40795 |
| ENSG00000226783 | TLK1P1 | 29 | 10.99192145 | 3.71745 | 9.3646 |
| ENSG00000132122 | SPATA6 | 28 | 15.73235165 | 4.55533 | 12.81357 |
| ENSG00000259768 | AC004943.2 | 28 | 5.348089801 | 3.69245 | 11.00655 |
| ENSG00000112759 | SLC29A1 | 28 | 21.45439173 | 4.50783 | 5.61193 |
| ENSG00000168569 | TMEM223 | 27 | 29.00187374 | 5.99378 | 19.47108 |
| ENSG00000158483 | FAM86C1 | 27 | 16.75880086 | 4.20818 | 9.79599 |
| ENSG00000153443 | UBALD1 | 27 | 21.32417873 | 3.73273 | 6.48293 |
| ENSG00000196267 | ZNF836 | 27 | 17.87445475 | 5.25209 | 7.4414 |
| ENSG00000214160 | ALG3 | 27 | 24.74788235 | 10.46197 | 22.02352 |
| ENSG00000111907 | TPD52L1 | 27 | 20.20276156 | 3.49293 | 8.13604 |
| ENSG00000161654 | LSM12 | 26 | 15.28657073 | 3.20461 | 7.53378 |
| ENSG00000260747 | AC022968.1 | 26 | 54.4022076 | 3.59925 | 14.83686 |
| ENSG00000167461 | RAB8A | 26 | 21.4502906 | 5.12327 | 8.41215 |
| ENSG00000233836 | AC139769.1 | 26 | 19.29837541 | 1.58297 | 16.9271 |
| ENSG00000236530 | KPNA2P1 | 26 | 15.11362398 | 5.94793 | 15.16215 |
| ENSG00000135211 | TMEM60 | 26 | 23.50515714 | 5.95164 | 18.43461 |
| ENSG00000077152 | UBE2T | 25 | 23.78697349 | 5.92766 | 12.3583 |
| ENSG00000164543 | STK17A | 25 | 11.28401085 | 5.48229 | 10.25345 |
| ENSG00000122140 | MRPS2 | 25 | 24.10942464 | 3.49293 | 8.13604 |
| ENSG00000117862 | TXNDC12 | 24 | 20.88062154 | 3.87419 | 10.44264 |
| ENSG00000236773 | AC092809.3 | 24 | 96.08701602 | 3.7478 | 19.38061 |
| ENSG00000177105 | RHOG | 24 | 19.47026377 | 3.27513 | 9.77814 |
| ENSG00000111752 | PHC1 | 24 | 12.76371518 | 2.4783 | 5.32932 |
| ENSG00000258011 | HMGAI1P3 | 24 | 68.50648364 | 4.94812 | 23.38948 |
| ENSG00000244026 | FAM86DP | 24 | 13.98620082 | 4.93539 | 10.36983 |
| ENSG00000135454 | B4GALNT1 | 23 | 13.20376361 | 4.50783 | 5.61193 |
| ENSG00000228288 | PCAT6 | 22 | 31.59382864 | 7.89078 | 27.25165 |
| ENSG00000143476 | DTL | 22 | 8.3833645 | 5.25209 | 7.4414 |
| ENSG00000213514 | AL731556.1 | 22 | 5.482733937 | 3.04761 | 9.28 |
| ENSG00000101079 | NDRG3 | 22 | 8.698771117 | 3.45975 | 6.46191 |
| ENSG00000237264 | FTH1P11 | 22 | 36.92636233 | 4.35412 | 27.45618 |
| ENSG00000212747 | RTL8B | 22 | 10.04265826 | 6.03105 | 15.81479 |

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| ENSG00000143457 | GOLPH3L | 21 | 13.15825753 | 3.76356 | 4.75601 |
| ENSG00000143363 | PRUNE1 | 21 | 10.97885139 | 4.9651 | 9.25272 |
| ENSG00000198715 | GLMP | 21 | 18.51438333 | 4.35786 | 10.5157 |
| ENSG00000126746 | ZNF384 | 21 | 14.81433113 | 7.43491 | 18.36732 |
| ENSG00000082146 | STRADB | 21 | 20.66126395 | 6.89215 | 17.24156 |
| ENSG00000248049 | UBA6-AS1 | 21 | 14.15567647 | 5.51879 | 9.06616 |
| ENSG00000154122 | ANKH | 21 | 11.18755076 | 2.39982 | 7.90451 |
| ENSG00000236081 | ELFN1-AS1 | 21 | 30.48914931 | 5.65984 | 18.4972 |
| ENSG00000183155 | RABIF | 19 | 7.23123994 | 4.65508 | 6.17547 |
| ENSG00000119574 | ZBTB45 | 19 | 10.68851159 | 3.76356 | 4.75601 |
| ENSG00000224668 | IPO8P1 | 18 | 5.354479101 | 2.91303 | 12.86091 |
| ENSG00000175505 | CLCF1 | 18 | 11.84002527 | 5.99636 | 9.40778 |
| ENSG00000173588 | CEP83 | 18 | 11.51250036 | 3.75651 | 10.07656 |
| ENSG00000235423 | AC068768.1 | 18 | 20.67959693 | 2.09821 | 9.03724 |
| ENSG00000100564 | PIGH | 18 | 21.6195786 | 3.2684 | 7.54459 |
| ENSG00000075399 | VPS9D1 | 18 | 13.73521083 | 5.15505 | 19.02383 |
| ENSG00000131238 | PPT1 | 17 | 9.18891759 | 2.12362 | 6.65219 |
| ENSG00000111203 | ITFG2 | 17 | 12.08473328 | 2.65011 | 8.77722 |
| ENSG00000248275 | TRIM52-AS1 | 17 | 27.10730689 | 4.1517 | 7.99138 |
| ENSG00000111640 | GAPDH | 16 | 11.74396862 | 1.74976 | 37.93309 |
| ENSG00000129535 | NRL | 16 | 11.19319249 | 4.33132 | 8.71601 |
| ENSG00000080603 | SRCAP | 16 | 2.606552839 | 2.93161 | 5.86828 |
| ENSG00000268362 | AC092279.1 | 15 | 7.244158192 | 3.97208 | 7.28745 |
| ENSG00000236570 | RAD23BP1 | 15 | 11.30608226 | 8.37736 | 20.22586 |
| ENSG00000174939 | ASPHD1 | 14 | 9.727817737 | 2.94854 | 7.60861 |
| ENSG00000141337 | ARSG | 14 | 8.241709362 | 2.79434 | 6.0158 |
| ENSG00000171425 | ZNF581 | 14 | 12.010877 | 5.69021 | 26.65576 |
| ENSG00000156973 | PDE6D | 14 | 14.4667323 | 6.02139 | 11.20838 |
| ENSG00000203644 | AC083799.1 | 14 | 14.22826968 | 4.51604 | 8.44714 |
| ENSG00000090061 | CCNK | 13 | 7.233987894 | 3.60701 | 8.23007 |
| ENSG00000227018 | IL6STP1 | 13 | 11.78714498 | 7.61839 | 18.12652 |
| ENSG00000127838 | PNKD | 13 | 9.572362961 | 3.93959 | 9.73981 |
| ENSG00000131503 | ANKHD1 | 13 | 4.816862131 | 3.71745 | 9.3646 |
| ENSG00000233459 | AC125238.2 | 12 | 7.70697941 | 5.12327 | 8.41215 |
| ENSG00000236229 | VEZF1P1 | 12 | 7.201849676 | 6.4868 | 17.83555 |
| ENSG00000253886 | AC026688.1 | 12 | 9.501755437 | 7.11276 | 12.57497 |
| ENSG00000197576 | HOXA4 | 12 | 7.335129114 | 2.60587 | 4.94366 |
| ENSG00000078967 | UBE2D4 | 12 | 10.43049845 | 3.84688 | 5.26464 |
| ENSG00000271550 | BNIP3P11 | 12 | 19.7123452 | 4.98351 | 8.893 |
| ENSG00000230445 | LRRC37A6P | 11 | 4.130415274 | 8.75312 | 20.34323 |
| ENSG00000182957 | SPATA13 | 11 | 2.94193546 | 2.5765 | 9.73062 |
| ENSG00000261971 | MMP25-AS1 | 11 | 8.048427865 | 4.87996 | 6.50818 |
| ENSG00000279738 | AL022311.1 | 11 | 0.523960281 | 2.90254 | 19.88589 |
| ENSG00000249572 | AC034231.1 | 11 | 18.94453039 | 6.02139 | 11.20838 |

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|-----------------|-----------------|----|-------------|---------|----------|
| ENSG00000120509 | PDZD11 | 11 | 14.16882008 | 6.82845 | 13.03533 |
| ENSG00000131236 | CAP1 | 10 | 7.624381939 | 2.12362 | 6.65219 |
| ENSG00000251661 | AC136475.1 | 10 | 10.88044152 | 5.95425 | 61.97791 |
| ENSG00000261061 | AC092718.4 | 10 | 12.91672527 | 4.06698 | 6.9063 |
| ENSG00000111684 | LPCAT3 | 9 | 7.815528415 | 3.3934 | 4.79185 |
| ENSG00000102931 | ARL2BP | 9 | 7.692733607 | 4.20252 | 13.09687 |
| ENSG00000277972 | CISD3 | 9 | 4.828038145 | 2.69307 | 6.46897 |
| ENSG00000270987 | AL133338.2 | 9 | 11.30915457 | 7.20529 | 21.58403 |
| ENSG00000224236 | MRRFP1 | 9 | 4.969276276 | 4.74057 | 8.44714 |
| ENSG00000247373 | AC055713.1 | 8 | 0.893670761 | 1.94437 | 6.03376 |
| ENSG00000116035 | VAX2 | 8 | 5.292346376 | 3.10482 | 6.98403 |
| ENSG00000112305 | SMAP1 | 8 | 3.588118445 | 2.70708 | 4.83877 |
| ENSG00000205578 | POM121B | 8 | 2.974949832 | 7.4849 | 13.68189 |
| ENSG00000236810 | ELOA-AS1 | 7 | 8.440498962 | 4.47343 | 10.80696 |
| ENSG00000270872 | SRGAP2D | 7 | 6.34070784 | 6.16375 | 11.00335 |
| ENSG00000110328 | GALNT18 | 7 | 3.21443034 | 1.96781 | 6.20825 |
| ENSG00000241749 | RPSAP52 | 6 | 5.467019877 | 5.86674 | 48.65232 |
| ENSG00000234494 | SP2-AS1 | 6 | 5.186004836 | 3.82355 | 5.53074 |
| ENSG00000229950 | TFAP2A-AS1 | 6 | 4.464219771 | 7.20189 | 24.84468 |
| ENSG00000185010 | F8 | 6 | 1.88549955 | 4.22516 | 5.86499 |
| ENSG00000230221 | AL157384.1 | 5 | 1.869869651 | 6.74063 | 11.49264 |
| ENSG00000277203 | F8A1 | 5 | 2.699467394 | 4.22516 | 5.86499 |
| ENSG00000135747 | ZNF670-ZNF695 | 4 | 1.950105491 | 5.0885 | 9.53399 |
| ENSG00000137804 | NUSAP1 | 4 | 2.779376496 | 4.27878 | 12.68071 |
| ENSG00000157045 | NTAN1 | 4 | 4.276705337 | 9.0151 | 20.74566 |
| ENSG00000102934 | PLLP | 4 | 1.744153756 | 4.20252 | 13.09687 |
| ENSG00000285278 | TFAP2A-AS2 | 4 | 1.079471875 | 3.66938 | 13.7787 |
| ENSG00000112245 | PTP4A1 | 4 | 2.319341766 | 1.67761 | 22.03526 |
| ENSG00000205596 | AC068533.1 | 4 | 8.914096667 | 4.51604 | 8.44714 |
| ENSG00000284707 | AC079781.5 | 4 | 1.231474739 | 4.50076 | 16.95153 |
| ENSG00000258136 | AC007622.2 | 3 | 2.468427569 | 4.58148 | 18.73171 |
| ENSG00000246859 | STARD4-AS1 | 3 | 0.917497549 | 3.66388 | 14.90131 |
| ENSG00000218803 | GSTM2P1 | 3 | 4.242373987 | 7.51824 | 15.25735 |
| ENSG00000281207 | SLFNL1-AS1 | 2 | 0.38534897 | 3.3044 | 8.09834 |
| ENSG00000008516 | MMP25 | 2 | 1.220907629 | 4.87996 | 6.50818 |
| ENSG00000267009 | AC007780.1 | 2 | 2.832580487 | 2.79434 | 6.0158 |
| ENSG00000284526 | AC015802.6 | 2 | 0.32714451 | 2.92284 | 14.3616 |
| ENSG00000269386 | RAB11B-AS1 | 2 | 2.917468546 | 7.4849 | 13.68189 |
| ENSG00000258881 | AC007040.2 | 2 | 0.805256882 | 3.10482 | 6.98403 |
| ENSG00000244687 | UBE2V1 | 2 | 1.40339534 | 2.75684 | 9.01715 |
| ENSG00000285804 | AC093218.1 | 2 | 0.7003692 | 2.49197 | 13.64093 |
| ENSG00000254996 | ANKHD1-EIF4EBP3 | 2 | 0.348206901 | 3.71745 | 9.3646 |

| | | | | | |
|-----------------|------------|---|-------------|---------|-----------|
| ENSG00000241370 | RPP21 | 2 | 2.80679068 | 8.30562 | 18.30048 |
| ENSG00000188107 | EYS | 2 | 0.54772729 | 5.08805 | 13.10118 |
| ENSG00000112309 | B3GAT2 | 2 | 0.314249925 | 2.70708 | 4.83877 |
| ENSG00000271551 | AL355297.4 | 2 | 1.480924786 | 5.42264 | 9.31879 |
| ENSG00000285725 | AC004967.2 | 2 | 0.968416261 | 4.50076 | 16.95153 |
| ENSG00000236986 | AL157938.2 | 2 | 2.37137828 | 4.80692 | 12.00287 |
| ENSG00000229021 | AL450992.1 | 1 | 0.22507606 | 7.69424 | 418.77039 |
| ENSG00000262412 | AL160291.1 | 1 | 0.922991546 | 8.75312 | 20.34323 |
| ENSG00000170324 | FRMPD2 | 1 | 0.392879154 | 2.37702 | 4.75251 |
| ENSG00000185885 | IFITM1 | 1 | 1.475019983 | 9.34557 | 18.33121 |
| ENSG00000285827 | AP001267.5 | 1 | 0.282048652 | 2.93161 | 5.86828 |
| ENSG00000126749 | EMG1 | 1 | 0.583862076 | 3.3934 | 4.79185 |
| ENSG00000173867 | AC013489.1 | 1 | 0.478199343 | 3.92579 | 5.08049 |
| ENSG00000275807 | AC145285.6 | 1 | 0.600934067 | 4.74477 | 20.15921 |
| ENSG00000267924 | AC139769.2 | 1 | 0.403682902 | 1.58297 | 16.9271 |
| ENSG00000228925 | AC016722.2 | 1 | 0.503998653 | 2.77126 | 7.76376 |
| ENSG00000204929 | AC007389.1 | 1 | 1.420641366 | 5.25209 | 7.4414 |
| ENSG00000116039 | ATP6V1B1 | 1 | 0.912968933 | 3.10482 | 6.98403 |
| ENSG00000256458 | AC080075.1 | 1 | 2.165895853 | 3.37429 | 13.6723 |
| ENSG00000101353 | MROH8 | 1 | 0.501266953 | 3.84245 | 6.17367 |
| ENSG00000178075 | GRAMD1C | 1 | 0.604864309 | 2.51811 | 12.10264 |
| ENSG00000270228 | AC079880.1 | 1 | 0.452022253 | 5.51879 | 9.06616 |
| ENSG00000272540 | AL662797.1 | 1 | 1.196426299 | 2.59662 | 58.00106 |
| ENSG00000196569 | LAMA2 | 1 | 0.210285932 | 2.20855 | 191.0867 |
| ENSG00000183444 | OR7E38P | 1 | 0.938921349 | 4.50076 | 16.95153 |
| ENSG00000137101 | CD72 | 1 | 0.854748179 | 3.55284 | 6.39257 |
| ENSG00000255054 | AL020996.2 | 0 | 0 | 2.02585 | 4.74966 |

Table S6: Data of mRNA-Seq.

| Gene_ID | Gene_name | A5_NC_fpkm | A5_shRNA_fpkm | log2 FoldChange | p value |
|-----------------|------------|-------------|---------------|-----------------|----------|
| ENSG00000123243 | ITIH5 | 5.23603577 | 0 | 13.79349392 | 6.99E-43 |
| ENSG00000198930 | CSAG1 | 60.19094693 | 0 | 13.5728226 | 2.91E-41 |
| ENSG00000135457 | TFCP2 | 16.70544543 | 0 | 13.53283891 | 5.76E-41 |
| ENSG00000130881 | LRP3 | 12.53973586 | 0 | 13.53189574 | 5.86E-41 |
| ENSG00000162344 | FGF19 | 26.00704598 | 0 | 13.52622376 | 6.47E-41 |
| ENSG00000213401 | MAGEA12 | 30.00036223 | 0 | 13.39958416 | 5.50E-40 |
| ENSG00000163817 | SLC6A20 | 7.51396769 | 0 | 13.17755864 | 2.28E-38 |
| ENSG00000176720 | BOK | 17.20124052 | 0 | 13.07768944 | 1.23E-37 |
| ENSG00000139629 | GALNT6 | 6.295970327 | 0 | 13.06600899 | 1.48E-37 |
| ENSG00000159228 | CBR1 | 18.28326662 | 0 | 13.01966417 | 3.22E-37 |
| ENSG00000137507 | LRRC32 | 9.867701199 | 0 | 12.99386783 | 5.02E-37 |
| ENSG00000120457 | KCNJ5 | 7.195661188 | 0 | 12.99249727 | 5.14E-37 |
| ENSG00000141750 | STAC2 | 12.92589791 | 0 | 12.97594814 | 6.69E-37 |
| ENSG00000011677 | GABRA3 | 8.789593983 | 0 | 12.73824725 | 3.51E-35 |
| ENSG00000054983 | GALC | 5.093845426 | 0 | 12.65406481 | 1.40E-34 |
| ENSG00000003400 | CASP10 | 4.399626297 | 0 | 12.59749023 | 3.58E-34 |
| ENSG00000118495 | PLAGL1 | 3.602936496 | 0 | 12.51015463 | 1.54E-33 |
| ENSG00000164742 | ADCY1 | 2.259899487 | 0 | 12.49861499 | 1.87E-33 |
| ENSG00000197937 | ZNF347 | 3.313182165 | 0 | 12.45350437 | 3.90E-33 |
| ENSG00000274173 | AL035661.1 | 26.18895821 | 0 | 12.4394903 | 4.95E-33 |
| ENSG00000102935 | ZNF423 | 3.065288152 | 0 | 12.32000563 | 3.50E-32 |
| ENSG00000226057 | PHF2P2 | 6.93784209 | 0 | 12.31343427 | 3.91E-32 |
| ENSG00000172478 | MAB21L4 | 9.34595219 | 0 | 12.22982603 | 1.55E-31 |
| ENSG00000184860 | SDR42E1 | 2.09786748 | 0 | 12.17771435 | 3.58E-31 |
| ENSG00000178538 | CA8 | 4.291986469 | 0 | 12.16803389 | 4.21E-31 |
| ENSG00000088882 | CPXM1 | 10.17111348 | 0 | 12.13859658 | 6.63E-31 |
| ENSG00000145284 | SCD5 | 5.656418194 | 0 | 12.13611614 | 6.91E-31 |
| ENSG00000233836 | AC139769.1 | 7.320831595 | 0 | 12.10347624 | 1.19E-30 |
| ENSG00000142700 | DMRTA2 | 7.359422025 | 0 | 12.10347624 | 1.19E-30 |
| ENSG00000154930 | ACSS1 | 2.711655072 | 0 | 12.0932828 | 1.42E-30 |
| ENSG00000163053 | SLC16A14 | 4.731065998 | 0 | 12.08301682 | 1.68E-30 |
| ENSG00000170315 | UBB | 131.878079 | 0.027614511 | 12.06143071 | 1.80E-52 |
| ENSG00000164403 | SHROOM1 | 5.105009821 | 0 | 12.03056172 | 3.88E-30 |
| ENSG00000275896 | PRSS2 | 17.62356978 | 0 | 12.00632002 | 5.82E-30 |
| ENSG00000049323 | LTBP1 | 2.981824362 | 0 | 11.98442446 | 8.01E-30 |
| ENSG00000258998 | LINC02302 | 7.194464662 | 0 | 11.91955799 | 2.36E-29 |
| ENSG00000204291 | COL15A1 | 3.108943052 | 0 | 11.90506218 | 3.00E-29 |
| ENSG00000147180 | ZNF711 | 3.732633191 | 0 | 11.75794888 | 3.10E-28 |
| ENSG00000166770 | ZNF667-AS1 | 5.054784481 | 0 | 11.73190258 | 4.76E-28 |
| ENSG00000198453 | ZNF568 | 1.939390424 | 0 | 11.72861348 | 5.03E-28 |
| ENSG00000104689 | TNFRSF10A | 6.187814972 | 0 | 11.72531686 | 5.31E-28 |
| ENSG00000184867 | ARMCX2 | 5.064550315 | 0 | 11.71870094 | 5.92E-28 |

| | | | | | |
|-----------------|------------|-------------|-------------|-------------|----------|
| ENSG00000196172 | ZNF681 | 2.797702183 | 0 | 11.71870094 | 5.92E-28 |
| ENSG00000113209 | PCDHB5 | 5.309008268 | 0 | 11.71205455 | 6.60E-28 |
| ENSG00000186891 | TNFRSF18 | 13.17614214 | 0 | 11.70871983 | 6.97E-28 |
| ENSG00000204983 | PRSS1 | 9.421772746 | 0 | 11.67835535 | 1.09E-27 |
| ENSG00000135097 | MSI1 | 5.273891843 | 0 | 11.56120906 | 6.96E-27 |
| ENSG00000170954 | ZNF415 | 4.278034244 | 0 | 11.5500722 | 8.35E-27 |
| ENSG00000263711 | AC079062.1 | 2.255049122 | 0 | 11.48528601 | 2.40E-26 |
| ENSG00000170231 | FABP6 | 13.17462236 | 0 | 11.47354492 | 2.72E-26 |
| ENSG00000175785 | PRIMA1 | 3.907991798 | 0 | 11.46170749 | 3.29E-26 |
| ENSG00000185869 | ZNF829 | 1.964596238 | 0 | 11.46170749 | 3.29E-26 |
| ENSG00000169255 | B3GALNT1 | 3.426347026 | 0 | 11.37600893 | 1.31E-25 |
| ENSG0000016402 | IL20RA | 2.985937073 | 0 | 11.35483163 | 1.85E-25 |
| ENSG00000130038 | CRACR2A | 1.119552427 | 0 | 11.33766308 | 2.27E-25 |
| ENSG00000130701 | RBBP8NL | 4.952017258 | 0 | 11.32465125 | 2.80E-25 |
| ENSG00000130508 | PXDN | 1.202672652 | 0 | 11.293826 | 4.59E-25 |
| ENSG00000165474 | GJB2 | 5.169841708 | 0 | 11.25320043 | 8.79E-25 |
| ENSG00000070190 | DAPP1 | 2.884923381 | 0 | 11.24861504 | 9.46E-25 |
| ENSG00000125850 | OVOL2 | 5.917204061 | 0 | 11.22079238 | 1.48E-24 |
| ENSG00000160233 | LRRC3 | 2.185744315 | 0 | 11.21610266 | 1.59E-24 |
| ENSG00000102409 | BEX4 | 9.502414254 | 0 | 11.19242259 | 2.15E-24 |
| ENSG00000188171 | ZNF626 | 1.798896957 | 0 | 11.12897127 | 5.87E-24 |
| ENSG00000170516 | COX7B2 | 14.70516483 | 0 | 11.10380405 | 8.74E-24 |
| ENSG00000164438 | TLX3 | 7.948471544 | 0 | 11.10380405 | 8.74E-24 |
| ENSG00000046774 | MAGEC2 | 5.876406937 | 0 | 11.08334931 | 1.21E-23 |
| ENSG00000197928 | ZNF677 | 1.251596728 | 0 | 11.08334931 | 1.21E-23 |
| ENSG00000265843 | LINC01029 | 5.327944294 | 0 | 11.0147946 | 3.26E-23 |
| ENSG00000104313 | EYA1 | 1.131375021 | 0 | 10.94848491 | 9.18E-23 |
| ENSG00000256229 | ZNF486 | 2.500654763 | 0 | 10.94848491 | 9.18E-23 |
| ENSG0000011981 | ULBP1 | 3.364646417 | 0 | 10.93713082 | 1.10E-22 |
| ENSG00000079215 | SLC1A3 | 15.60701593 | 0.007144952 | 10.93296616 | 4.42E-44 |
| ENSG00000197647 | ZNF433 | 3.365635527 | 0 | 10.90834839 | 1.71E-22 |
| ENSG00000144908 | ALDH1L1 | 25.69537054 | 0.013058087 | 10.90396994 | 6.55E-55 |
| ENSG00000157765 | SLC34A2 | 83.18990434 | 0.044363847 | 10.84291539 | 5.04E-56 |
| ENSG00000087510 | TFAP2C | 3.253842089 | 0 | 10.82456171 | 5.71E-22 |
| ENSG00000170006 | TMEM154 | 0.843859107 | 0 | 10.82456171 | 5.71E-22 |
| ENSG00000269067 | ZNF728 | 4.422547708 | 0 | 10.81218484 | 6.90E-22 |
| ENSG00000213967 | ZNF726 | 1.521524602 | 0 | 10.79341815 | 9.21E-22 |
| ENSG00000170801 | HTRA3 | 26.48550854 | 0.013478808 | 10.78028675 | 5.99E-43 |
| ENSG00000181143 | MUC16 | 0.21545772 | 0 | 10.77440411 | 1.23E-21 |
| ENSG00000198046 | ZNF667 | 1.062422358 | 0 | 10.76158743 | 1.50E-21 |
| ENSG00000124939 | SCGB2A1 | 17.80493295 | 0 | 10.74865586 | 1.83E-21 |
| ENSG00000115138 | POMC | 5.977112592 | 0 | 10.73560733 | 2.23E-21 |
| ENSG00000080007 | DDX43 | 3.245182852 | 0 | 10.7224397 | 2.73E-21 |

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|-----------------|------------|-------------|-------------|-------------|----------|
| ENSG00000176845 | METRNL | 32.0630934 | 0.017046124 | 10.71725031 | 1.75E-42 |
| ENSG00000150510 | FAM124A | 1.352945809 | 0 | 10.71581054 | 3.02E-21 |
| ENSG00000197360 | ZNF98 | 2.755224192 | 0 | 10.71581054 | 3.02E-21 |
| ENSG0000018869 | ZNF582 | 2.669279541 | 0 | 10.69573832 | 4.10E-21 |
| ENSG00000121068 | TBX2 | 1.476248302 | 0 | 10.68898504 | 4.54E-21 |
| ENSG00000196263 | ZNF471 | 1.299827526 | 0 | 10.67538289 | 5.03E-21 |
| ENSG00000268119 | AC010615.2 | 1.680837215 | 0 | 10.64778771 | 7.64E-21 |
| ENSG00000184012 | TMPRSS2 | 24.68053516 | 0.014635646 | 10.63960576 | 1.32E-47 |
| ENSG00000083307 | GRHL2 | 13.14931594 | 0.007386654 | 10.63778055 | 6.68E-42 |
| ENSG00000259020 | AL049872.1 | 26.60253853 | 0 | 10.63378962 | 9.43E-21 |
| ENSG00000184735 | DDX53 | 2.360434667 | 0 | 10.63378962 | 9.43E-21 |
| ENSG00000251247 | ZNF345 | 1.737385774 | 0 | 10.57639822 | 2.24E-20 |
| ENSG00000128815 | WDFY4 | 0.595713035 | 0 | 10.5616864 | 2.79E-20 |
| ENSG00000198947 | DMD | 0.428682044 | 0 | 10.55427385 | 3.11E-20 |
| ENSG00000268902 | CSAG2 | 7.330780835 | 0 | 10.52423682 | 4.88E-20 |
| ENSG00000196653 | ZNF502 | 2.425675418 | 0 | 10.52423682 | 4.88E-20 |
| ENSG00000139219 | COL2A1 | 1.185091566 | 0 | 10.51662881 | 5.47E-20 |
| ENSG00000175984 | DENND2C | 1.048441096 | 0 | 10.49356109 | 7.71E-20 |
| ENSG00000226278 | PSPHP1 | 29.4579423 | 0 | 10.47797511 | 9.72E-20 |
| ENSG00000261183 | SPINT1-AS1 | 6.104250676 | 0 | 10.4542758 | 1.38E-19 |
| ENSG00000131771 | PPP1R1B | 179.3177567 | 0.127782298 | 10.44582642 | 3.28E-58 |
| ENSG00000188511 | C22orf34 | 1.074112636 | 0 | 10.39741478 | 2.83E-19 |
| ENSG00000197134 | ZNF257 | 1.404203853 | 0 | 10.35538237 | 5.24E-19 |
| ENSG00000229676 | ZNF492 | 1.663543269 | 0 | 10.35538237 | 5.24E-19 |
| ENSG00000134463 | ECHDC3 | 3.212794383 | 0 | 10.34682691 | 5.94E-19 |
| ENSG00000196109 | ZNF676 | 2.273301725 | 0 | 10.34682691 | 5.94E-19 |
| ENSG00000205212 | CCDC144NL | 2.018738308 | 0 | 10.32956227 | 7.64E-19 |
| ENSG00000276644 | DACH1 | 1.287137656 | 0 | 10.32956227 | 7.64E-19 |
| ENSG00000272259 | LINC01749 | 1.762292893 | 0 | 10.32956227 | 7.64E-19 |
| ENSG00000229689 | AC009237.3 | 1.385013936 | 0 | 10.32085184 | 8.67E-19 |
| ENSG00000163220 | S100A9 | 11.94904571 | 0 | 10.32085184 | 8.67E-19 |
| ENSG00000177432 | NAP1L5 | 3.578492911 | 0 | 10.31208851 | 9.85E-19 |
| ENSG00000165152 | TMEM246 | 1.230749627 | 0 | 10.31208851 | 9.85E-19 |
| ENSG00000221867 | MAGEA3 | 98.48092254 | 0.075105909 | 10.3043052 | 2.71E-48 |
| ENSG00000130224 | LRCH2 | 1.373350177 | 0 | 10.29440052 | 1.27E-18 |
| ENSG00000100558 | PLEK2 | 4.222859029 | 0 | 10.29440052 | 1.27E-18 |
| ENSG00000113494 | PRLR | 0.516420737 | 0 | 10.29440052 | 1.27E-18 |
| ENSG00000187372 | PCDHB13 | 1.321018005 | 0 | 10.27649297 | 1.65E-18 |
| ENSG00000174599 | TRAM1L1 | 3.263520128 | 0 | 10.25836035 | 2.14E-18 |
| ENSG00000227121 | AC073174.1 | 15.8079898 | 0 | 10.24920785 | 2.45E-18 |
| ENSG00000122012 | SV2C | 0.541946318 | 0 | 10.23999692 | 2.80E-18 |
| ENSG00000151743 | AMN1 | 2.014071805 | 0 | 10.22139673 | 3.65E-18 |
| ENSG00000186998 | EMID1 | 1.31352509 | 0 | 10.22139673 | 3.65E-18 |

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|-----------------|------------|-------------|-------------|-------------|----------|
| ENSG00000251629 | LINC02241 | 3.341100424 | 0 | 10.22139673 | 3.65E-18 |
| ENSG0000010704 | HFE | 1.119187404 | 0 | 10.20255361 | 4.79E-18 |
| ENSG00000267795 | SMIM22 | 3.53350293 | 0 | 10.17381927 | 6.30E-18 |
| ENSG00000246082 | NUDT16P1 | 2.674847194 | 0 | 10.16411255 | 7.23E-18 |
| ENSG00000145103 | ILDR1 | 2.043400287 | 0 | 10.15434008 | 8.31E-18 |
| ENSG00000150556 | LYPD6B | 1.628868009 | 0 | 10.15434008 | 8.31E-18 |
| ENSG00000197172 | MAGEA6 | 84.80450312 | 0.072082322 | 10.1478878 | 3.96E-47 |
| ENSG00000132746 | ALDH3B2 | 1.872918195 | 0 | 10.13459429 | 1.10E-17 |
| ENSG00000007264 | MATK | 13.3600427 | 0.010809737 | 10.11142183 | 4.85E-38 |
| ENSG00000106031 | HOXA13 | 1.166640583 | 0 | 10.10445943 | 1.68E-17 |
| ENSG00000248663 | LINC00992 | 5.186655601 | 0 | 10.10445943 | 1.68E-17 |
| ENSG00000175745 | NR2F1 | 1.356041517 | 0 | 10.08401405 | 2.24E-17 |
| ENSG00000006042 | TMEM98 | 1.119756633 | 0 | 10.07368167 | 2.59E-17 |
| ENSG00000185477 | GPRIN3 | 6.515837142 | 0.005887948 | 10.03193118 | 4.23E-43 |
| ENSG00000168143 | FAM83B | 1.781192249 | 0 | 10.03159586 | 4.67E-17 |
| ENSG00000159556 | ISL2 | 2.521049258 | 0 | 10.02087974 | 5.43E-17 |
| ENSG00000005001 | PRSS22 | 2.345727022 | 0 | 10.02087974 | 5.43E-17 |
| ENSG00000183087 | GAS6 | 53.43890231 | 0.052171471 | 9.980290746 | 9.27E-52 |
| ENSG00000134762 | DSC3 | 0.769856661 | 0 | 9.977201088 | 9.96E-17 |
| ENSG00000225899 | FRG2B | 2.570492679 | 0 | 9.966071626 | 1.16E-16 |
| ENSG00000233757 | AC092835.1 | 2.321413931 | 0 | 9.954855639 | 1.36E-16 |
| ENSG00000226321 | CROCC2 | 0.894703529 | 0 | 9.954855639 | 1.36E-16 |
| ENSG00000147246 | HTR2C | 1.095983529 | 0 | 9.943551772 | 1.59E-16 |
| ENSG00000171517 | LPAR3 | 1.474225612 | 0 | 9.920674811 | 2.17E-16 |
| ENSG00000187566 | NHLRC1 | 2.323479246 | 0 | 9.920674811 | 2.17E-16 |
| ENSG00000184785 | SMIM10 | 3.400508688 | 0 | 9.920674811 | 2.17E-16 |
| ENSG00000183844 | FAM3B | 1.439676547 | 0 | 9.909098841 | 2.55E-16 |
| ENSG00000130294 | KIF1A | 18.02318244 | 0.018768605 | 9.887195479 | 4.59E-51 |
| ENSG00000160179 | ABCG1 | 0.832841855 | 0 | 9.885664467 | 3.51E-16 |
| ENSG00000197506 | SLC28A3 | 1.006878332 | 0 | 9.885664467 | 3.51E-16 |
| ENSG00000280202 | AC005831.1 | 2.979398669 | 0 | 9.87380297 | 4.13E-16 |
| ENSG00000124785 | NRN1 | 2.117991061 | 0 | 9.837621875 | 6.77E-16 |
| ENSG00000174469 | CNTNAP2 | 0.293345598 | 0 | 9.825357022 | 6.77E-16 |
| ENSG00000177465 | ACOT4 | 2.052122052 | 0 | 9.812987006 | 7.99E-16 |
| ENSG0000014257 | ACPP | 1.146035497 | 0 | 9.800510008 | 9.45E-16 |
| ENSG00000174080 | CTSF | 1.659297941 | 0 | 9.800510008 | 9.45E-16 |
| ENSG00000177519 | RPRM | 3.266707571 | 0 | 9.800510008 | 9.45E-16 |
| ENSG00000155066 | PROM2 | 7.305389709 | 0.007382999 | 9.790618006 | 1.06E-35 |
| ENSG00000128714 | HOXD13 | 2.126580976 | 0 | 9.787924162 | 1.12E-15 |
| ENSG00000184454 | NCMAP | 1.155638376 | 0 | 9.787924162 | 1.12E-15 |
| ENSG00000196267 | ZNF836 | 1.122417857 | 0 | 9.787924162 | 1.12E-15 |
| ENSG00000101443 | WFDC2 | 456.4954671 | 0.518241644 | 9.776469056 | 3.39E-54 |
| ENSG00000119782 | FKBP1B | 2.790680074 | 0 | 9.762418213 | 1.57E-15 |

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| ENSG00000268940 | CT45A1 | 32.67149206 | 0.033783488 | 9.757581815 | 1.83E-35 |
| ENSG00000138769 | CDKL2 | 1.226708552 | 0 | 9.749494122 | 1.87E-15 |
| ENSG00000141579 | ZNF750 | 1.249174531 | 0 | 9.749494122 | 1.87E-15 |
| ENSG00000269586 | CT45A10 | 79.27674452 | 0.088464668 | 9.727560275 | 7.51E-41 |
| ENSG00000166402 | TUB | 0.677568303 | 0 | 9.723293333 | 2.65E-15 |
| ENSG00000237187 | NR2F1-AS1 | 0.584563301 | 0 | 9.710012313 | 3.16E-15 |
| ENSG00000167355 | OR51B5 | 1.127627549 | 0 | 9.696607896 | 3.77E-15 |
| ENSG00000088386 | SLC15A1 | 1.066565656 | 0 | 9.696607896 | 3.77E-15 |
| ENSG00000168907 | PLA2G4F | 0.725750906 | 0 | 9.683077766 | 4.50E-15 |
| ENSG00000181433 | SAGE1 | 13.79641534 | 0.015158524 | 9.670043182 | 7.84E-35 |
| ENSG00000162373 | BEND5 | 2.013050247 | 0 | 9.641708954 | 7.75E-15 |
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| ENSG00000267640 | AC016582.3 | 0.610181242 | 0 | 9.627651476 | 9.32E-15 |
| ENSG00000118402 | ELOVL4 | 1.401090065 | 0 | 9.627651476 | 9.32E-15 |
| ENSG00000141744 | PNMT | 2.896589243 | 0 | 9.613455673 | 1.12E-14 |
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| ENSG00000260922 | AC009139.1 | 2.414920972 | 0 | 9.584638017 | 1.63E-14 |
| ENSG00000176490 | DIRAS1 | 1.175028457 | 0 | 9.570010414 | 1.97E-14 |
| ENSG00000224807 | DUX4L9 | 3.252560901 | 0 | 9.570010414 | 1.97E-14 |
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| ENSG00000064655 | EYA2 | 1.120284335 | 0 | 9.55523298 | 2.38E-14 |
| ENSG00000206069 | TMEM211 | 3.609250867 | 0 | 9.55523298 | 2.38E-14 |
| ENSG00000148798 | INA | 11.36781529 | 0.013854262 | 9.520524989 | 9.41E-34 |
| ENSG00000178882 | RFLNA | 1.237892333 | 0 | 9.509970189 | 4.26E-14 |
| ENSG00000176438 | SYNE3 | 0.216242698 | 0 | 9.509970189 | 4.26E-14 |
| ENSG00000153064 | BANK1 | 5.889681048 | 0.007285664 | 9.499032029 | 1.36E-33 |
| ENSG0000035664 | DAPK2 | 0.285486844 | 0 | 9.494561425 | 5.19E-14 |
| ENSG00000085552 | IGSF9 | 0.586307622 | 0 | 9.494561425 | 5.19E-14 |
| ENSG00000272913 | AC009237.14 | 2.411707321 | 0 | 9.478986309 | 6.32E-14 |
| ENSG00000198788 | MUC2 | 0.300187576 | 0 | 9.463241209 | 7.72E-14 |
| ENSG00000154856 | APCDD1 | 0.632793298 | 0 | 9.447322375 | 9.45E-14 |
| ENSG00000185156 | MFSD6L | 1.718779967 | 0 | 9.447322375 | 9.45E-14 |
| ENSG00000137561 | TTPA | 1.574169346 | 0 | 9.447322375 | 9.45E-14 |
| ENSG00000155966 | AFF2 | 0.265522285 | 0 | 9.431225929 | 1.16E-13 |
| ENSG00000214814 | FER1L6 | 0.614593475 | 0 | 9.431225929 | 1.16E-13 |
| ENSG00000188227 | ZNF793 | 2.850194401 | 0.003728085 | 9.418540797 | 5.07E-33 |
| ENSG00000248498 | ASNSP1 | 1.297043974 | 0 | 9.414947863 | 1.42E-13 |
| ENSG00000136014 | USP44 | 0.682718096 | 0 | 9.414947863 | 1.42E-13 |
| ENSG00000113248 | PCDHB15 | 0.904987358 | 0 | 9.398484033 | 1.75E-13 |
| ENSG00000135074 | ADAM19 | 0.466452332 | 0 | 9.381830149 | 2.15E-13 |
| ENSG00000278384 | AL354822.1 | 1.187165102 | 0 | 9.381830149 | 2.15E-13 |
| ENSG00000165556 | CDX2 | 0.871797371 | 0 | 9.381830149 | 2.15E-13 |

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| ENSG00000166341 | DCHS1 | 0.333817814 | 0 | 9.381830149 | 2.15E-13 |
| ENSG00000224141 | MIR548XHG | 2.471491585 | 0 | 9.381830149 | 2.15E-13 |
| ENSG00000229807 | XIST | 1.318199978 | 0.001771815 | 9.379263346 | 9.61E-33 |
| ENSG00000159885 | ZNF222 | 1.773221824 | 0 | 9.364981771 | 2.15E-13 |
| ENSG00000165025 | SYK | 17.41996143 | 0.02577531 | 9.348180543 | 3.34E-41 |
| ENSG00000133433 | GSTT2B | 3.193792415 | 0 | 9.347934305 | 2.65E-13 |
| ENSG00000133477 | FAM83F | 1.981041872 | 0.002731291 | 9.342604235 | 1.80E-32 |
| ENSG00000115339 | GALNT3 | 6.928573461 | 0.009552523 | 9.342604235 | 1.80E-32 |
| ENSG00000169851 | PCDH7 | 71.23551169 | 0.109632922 | 9.342535352 | 2.23E-53 |
| ENSG00000240771 | ARHGEF25 | 0.990063492 | 0 | 9.330682987 | 3.28E-13 |
| ENSG00000169752 | NRG4 | 0.681058828 | 0 | 9.313222884 | 4.06E-13 |
| ENSG00000180720 | CHRM4 | 2.239987764 | 0 | 9.29554888 | 5.04E-13 |
| ENSG00000120471 | TP53AIP1 | 0.982473588 | 0 | 9.29554888 | 5.04E-13 |
| ENSG00000230061 | TRPM2-AS | 1.476710956 | 0 | 9.29554888 | 5.04E-13 |
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| ENSG00000183850 | ZNF730 | 1.02844774 | 0 | 9.29554888 | 5.04E-13 |
| ENSG00000228623 | ZNF883 | 0.601603539 | 0 | 9.29554888 | 5.04E-13 |
| ENSG00000099284 | H2AFY2 | 15.80671849 | 0.022607637 | 9.289664315 | 4.28E-32 |
| ENSG00000183317 | EPHA10 | 0.410063305 | 0 | 9.27765567 | 6.26E-13 |
| ENSG00000281162 | LINC01127 | 0.870303583 | 0 | 9.27765567 | 6.26E-13 |
| ENSG00000238113 | LINC01410 | 1.100341034 | 0 | 9.27765567 | 6.26E-13 |
| ENSG00000099994 | SUSD2 | 63.13331223 | 0.10175364 | 9.267295498 | 5.62E-49 |
| ENSG00000104413 | ESRP1 | 23.21128219 | 0.036728715 | 9.265369502 | 1.05E-42 |
| ENSG00000196458 | ZNF605 | 5.377599123 | 0.008271087 | 9.264685919 | 1.87E-37 |
| ENSG00000260581 | AC011374.1 | 2.106605367 | 0 | 9.259537746 | 7.79E-13 |
| ENSG00000196814 | MVB12B | 3.842523059 | 0.005677717 | 9.242687822 | 9.19E-32 |
| ENSG00000241399 | CD302 | 0.799819671 | 0 | 9.241189394 | 9.72E-13 |
| ENSG00000250682 | LINC00491 | 2.656287823 | 0 | 9.241189394 | 9.72E-13 |
| ENSG00000188001 | TPRG1 | 0.341821202 | 0 | 9.241189394 | 9.72E-13 |
| ENSG00000258927 | AL133467.2 | 1.877176026 | 0 | 9.222604676 | 1.21E-12 |
| ENSG00000237289 | CKMT1B | 0.927227582 | 0 | 9.222604676 | 1.21E-12 |
| ENSG00000056998 | GYG2 | 8.15130681 | 0.012247092 | 9.218613226 | 1.38E-31 |
| ENSG00000157554 | ERG | 0.418515321 | 0 | 9.203777423 | 1.52E-12 |
| ENSG00000127928 | GNGT1 | 1.345063218 | 0 | 9.203777423 | 1.52E-12 |
| ENSG00000082556 | OPRK1 | 0.553449679 | 0 | 9.203777423 | 1.52E-12 |
| ENSG00000132698 | RAB25 | 32.43967602 | 0.052693493 | 9.185942727 | 6.93E-37 |
| ENSG00000120318 | ARAP3 | 4.708124665 | 0.007236198 | 9.185875801 | 2.32E-31 |
| ENSG00000071909 | MYO3B | 0.380513454 | 0 | 9.184701221 | 1.91E-12 |
| ENSG00000186026 | ZNF284 | 0.720273226 | 0 | 9.184701221 | 1.91E-12 |
| ENSG00000204516 | MICB | 1.090185098 | 0 | 9.14577501 | 3.03E-12 |
| ENSG00000137491 | SLCO2B1 | 5.151022623 | 0.008649043 | 9.138131249 | 1.56E-36 |
| ENSG00000129675 | ARHGEF6 | 0.467602184 | 0 | 9.125910826 | 3.82E-12 |
| ENSG00000187808 | SOWAHD | 1.938500293 | 0 | 9.125910826 | 3.82E-12 |

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| ENSG00000176293 | ZNF135 | 0.468767911 | 0 | 9.125910826 | 3.82E-12 |
| ENSG00000221994 | ZNF630 | 0.818431027 | 0 | 9.125910826 | 3.82E-12 |
| ENSG00000164237 | CMBL | 8.284179317 | 0.013466643 | 9.105011016 | 8.79E-31 |
| ENSG00000112276 | BVES | 0.503612526 | 0 | 9.085342619 | 6.14E-12 |
| ENSG00000175287 | PHYHD1 | 1.003424203 | 0 | 9.085342619 | 6.14E-12 |
| ENSG00000272077 | AC124045.1 | 1.476290887 | 0 | 9.06462255 | 7.81E-12 |
| ENSG00000250790 | AC127070.2 | 0.883602851 | 0 | 9.06462255 | 7.81E-12 |
| ENSG00000203907 | OOEP | 1.96536885 | 0 | 9.06462255 | 7.81E-12 |
| ENSG00000142185 | TRPM2 | 3.969773622 | 0.006676081 | 9.056035683 | 1.93E-30 |
| ENSG00000179455 | MKRN3 | 0.488164813 | 0 | 9.022267709 | 1.27E-11 |
| ENSG00000125878 | TCF15 | 1.800402058 | 0 | 9.022267709 | 1.27E-11 |
| ENSG00000143416 | SELENBP1 | 7.417394512 | 0.012774864 | 9.021663941 | 3.45E-30 |
| ENSG00000189057 | FAM111B | 0.713911403 | 0 | 9.000614677 | 1.63E-11 |
| ENSG00000186188 | FFAR4 | 0.679270874 | 0 | 9.000614677 | 1.63E-11 |
| ENSG00000243955 | GSTA1 | 2.706417812 | 0 | 9.000614677 | 1.63E-11 |
| ENSG00000254101 | LINC02055 | 0.187850947 | 0 | 9.000614677 | 1.63E-11 |
| ENSG00000092850 | TEKT2 | 1.394256699 | 0 | 9.000614677 | 1.63E-11 |
| ENSG00000253930 | TNFRSF10A-AS1 | 4.32941876 | 0 | 9.000614677 | 1.63E-11 |
| ENSG00000115226 | FNDC4 | 1.370360393 | 0 | 8.978631702 | 2.09E-11 |
| ENSG00000267280 | TBX2-AS1 | 2.252117993 | 0 | 8.978631702 | 2.09E-11 |
| ENSG00000099864 | PALM | 60.14108072 | 0.118565726 | 8.977748559 | 3.16E-47 |
| ENSG00000126838 | PZP | 4.04635086 | 0.007188553 | 8.976916796 | 7.02E-30 |
| ENSG00000262714 | AC007342.5 | 1.248491526 | 0 | 8.956308572 | 2.69E-11 |
| ENSG00000101463 | SYNDIG1 | 0.939328714 | 0 | 8.956308572 | 2.69E-11 |
| ENSG00000250874 | AC010595.1 | 1.811757328 | 0 | 8.933634597 | 3.48E-11 |
| ENSG00000280241 | AC079298.3 | 1.913142004 | 0 | 8.933634597 | 3.48E-11 |
| ENSG00000231358 | AL355516.1 | 2.430732593 | 0 | 8.933634597 | 3.48E-11 |
| ENSG00000198598 | MMP17 | 0.657627629 | 0 | 8.933634597 | 3.48E-11 |
| ENSG00000140092 | FBLN5 | 0.520952734 | 0 | 8.91059857 | 4.50E-11 |
| ENSG00000213468 | FIRRE | 0.279712583 | 0 | 8.91059857 | 4.50E-11 |
| ENSG00000115041 | KCNIP3 | 0.329186524 | 0 | 8.91059857 | 4.50E-11 |
| ENSG00000163032 | VSNL1 | 6.268362689 | 0.011678352 | 8.908335788 | 2.13E-29 |
| ENSG00000242599 | CSAG4 | 3.376043041 | 0 | 8.887188742 | 5.84E-11 |
| ENSG00000171631 | P2RY6 | 0.641074571 | 0 | 8.887188742 | 5.84E-11 |
| ENSG00000174740 | PABPC5 | 0.738815216 | 0 | 8.887188742 | 5.84E-11 |
| ENSG00000073756 | PTGS2 | 0.483756405 | 0 | 8.887188742 | 5.84E-11 |
| ENSG00000151917 | BEND6 | 0.448662678 | 0 | 8.863392782 | 7.60E-11 |
| ENSG00000116014 | KISS1R | 1.492337527 | 0 | 8.863392782 | 7.60E-11 |
| ENSG00000142319 | SLC6A3 | 0.562010098 | 0 | 8.863392782 | 7.60E-11 |
| ENSG00000259129 | LINC00648 | 0.810168122 | 0 | 8.839197737 | 9.92E-11 |
| ENSG00000062524 | LTK | 0.706401603 | 0 | 8.839197737 | 9.92E-11 |
| ENSG00000109193 | SULT1E1 | 1.179025153 | 0 | 8.839197737 | 9.92E-11 |

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| ENSG00000146833 | TRIM4 | 4.639030824 | 0.009152141 | 8.825745115 | 8.09E-29 |
| ENSG00000106123 | EPHB6 | 0.455127914 | 0 | 8.814589992 | 1.30E-10 |
| ENSG00000173930 | SLCO4C1 | 0.454359982 | 0 | 8.814589992 | 1.30E-10 |
| ENSG00000133710 | SPINK5 | 0.55319702 | 0 | 8.814589992 | 1.30E-10 |
| ENSG00000264956 | AC138761.3 | 0.815674895 | 0 | 8.789555224 | 1.70E-10 |
| ENSG00000128833 | MYO5C | 11.91374126 | 0.026737554 | 8.775384779 | 7.96E-42 |
| ENSG00000157021 | FAM92A1P1 | 2.629196902 | 0 | 8.76407835 | 2.24E-10 |
| ENSG00000075388 | FGF4 | 0.723781393 | 0 | 8.76407835 | 2.24E-10 |
| ENSG00000215182 | MUC5AC | 0.134111946 | 0 | 8.76407835 | 2.24E-10 |
| ENSG00000134532 | SOX5 | 2.080271364 | 0.004285603 | 8.763319708 | 2.18E-28 |
| ENSG00000196562 | SULF2 | 9.013655894 | 0.020172655 | 8.751256137 | 8.00E-37 |
| ENSG00000104549 | SQLE | 18.38365708 | 0.041591751 | 8.749607653 | 6.72E-39 |
| ENSG00000267374 | AC016205.1 | 0.826096259 | 0 | 8.738143474 | 2.96E-10 |
| ENSG00000264334 | AC134978.1 | 2.916497198 | 0 | 8.738143474 | 2.96E-10 |
| ENSG00000088756 | ARHGAP28 | 0.192963878 | 0 | 8.738143474 | 2.96E-10 |
| ENSG00000183690 | EFHC2 | 0.692437418 | 0 | 8.738143474 | 2.96E-10 |
| ENSG00000144010 | TRIM43B | 1.377817621 | 0 | 8.738143474 | 2.96E-10 |
| ENSG00000204219 | TCEA3 | 6.038978374 | 0.012734885 | 8.729645041 | 3.82E-28 |
| ENSG00000261804 | AC007342.4 | 2.040157632 | 0 | 8.711733827 | 3.92E-10 |
| ENSG00000278626 | AC023310.4 | 3.471406678 | 0 | 8.711733827 | 3.92E-10 |
| ENSG00000124343 | XG | 0.673757641 | 0 | 8.711733827 | 3.92E-10 |
| ENSG00000108551 | RASD1 | 86.51118209 | 0.204865547 | 8.705034805 | 4.60E-43 |
| ENSG00000233695 | GAS6-AS1 | 0.308917407 | 0 | 8.684831702 | 3.92E-10 |
| ENSG00000228223 | HCG11 | 0.388804229 | 0 | 8.684831702 | 3.92E-10 |
| ENSG00000127954 | STEAP4 | 0.196943432 | 0 | 8.684831702 | 3.92E-10 |
| ENSG00000279924 | AL356585.4 | 1.767976761 | 0 | 8.657418382 | 5.21E-10 |
| ENSG00000270685 | IGHV1OR15-6 | 6.334820523 | 0 | 8.657418382 | 5.21E-10 |
| ENSG00000180155 | LYNX1 | 0.432664962 | 0 | 8.657418382 | 5.21E-10 |
| ENSG00000144115 | THNSL2 | 0.337870228 | 0 | 8.657418382 | 5.21E-10 |
| ENSG00000184292 | TACSTD2 | 54.10247219 | 0.133280244 | 8.645001893 | 8.02E-42 |
| ENSG00000039068 | CDH1 | 40.818101 | 0.10145438 | 8.644417027 | 4.12E-45 |
| ENSG00000254535 | PABPC4L | 4.03148463 | 0.00905403 | 8.638829632 | 1.63E-27 |
| ENSG00000110492 | MDK | 186.22687 | 0.468830512 | 8.630791544 | 3.87E-47 |
| ENSG00000272695 | GAS6-DT | 1.091730527 | 0 | 8.629474063 | 6.95E-10 |
| ENSG00000169116 | PARM1 | 0.423332934 | 0 | 8.629474063 | 6.95E-10 |
| ENSG00000177599 | ZNF491 | 0.702855537 | 0 | 8.629474063 | 6.95E-10 |
| ENSG00000212747 | RTL8B | 9.652315378 | 0.022094335 | 8.611356403 | 2.57E-27 |
| ENSG00000280027 | AC007342.9 | 1.478330027 | 0 | 8.571907246 | 1.25E-09 |
| ENSG00000228636 | AL358214.1 | 2.652185346 | 0 | 8.571907246 | 1.25E-09 |
| ENSG00000250305 | TRMT9B | 0.139588702 | 0 | 8.571907246 | 1.25E-09 |
| ENSG00000178386 | ZNF223 | 0.615045686 | 0 | 8.571907246 | 1.25E-09 |
| ENSG00000049089 | COL9A2 | 8.521576394 | 0.021229842 | 8.568982085 | 2.00E-32 |
| ENSG00000258590 | NBEAP1 | 5.131149144 | 0.012134216 | 8.564372098 | 5.29E-27 |

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| ENSG00000156968 | MPV17L | 5.910739415 | 0.014898693 | 8.552110814 | 2.67E-32 |
| ENSG00000261116 | AL049555.1 | 1.037610779 | 0 | 8.542238883 | 1.68E-09 |
| ENSG0000050767 | COL23A1 | 0.532581422 | 0 | 8.542238883 | 1.68E-09 |
| ENSG00000183160 | TMEM119 | 0.628943756 | 0 | 8.542238883 | 1.68E-09 |
| ENSG00000182107 | TMEM30B | 7.859889082 | 0.020023763 | 8.536756117 | 3.47E-32 |
| ENSG00000204186 | ZDBF2 | 3.208963319 | 0.008204385 | 8.531601354 | 3.79E-32 |
| ENSG00000131620 | ANO1 | 68.38628663 | 0.185862489 | 8.520943574 | 1.27E-46 |
| ENSG00000259126 | AL161752.1 | 7.328045469 | 0 | 8.511947571 | 2.27E-09 |
| ENSG0000078081 | LAMP3 | 0.514653088 | 0 | 8.511947571 | 2.27E-09 |
| ENSG00000242732 | RTL5 | 0.410947099 | 0 | 8.511947571 | 2.27E-09 |
| ENSG00000159445 | THEM4 | 7.776472271 | 0.020393222 | 8.4949929 | 6.86E-32 |
| ENSG00000178202 | KDEL2 | 13.23945185 | 0.035860703 | 8.489940315 | 5.38E-37 |
| ENSG0000052344 | PRSS8 | 43.21531834 | 0.118971753 | 8.48775764 | 1.87E-41 |
| ENSG00000204681 | GABBR1 | 0.226933971 | 0 | 8.481006587 | 3.09E-09 |
| ENSG00000115461 | IGFBP5 | 0.298374842 | 0 | 8.481006587 | 3.09E-09 |
| ENSG00000101746 | NOL4 | 0.337986765 | 0 | 8.481006587 | 3.09E-09 |
| ENSG00000006555 | TTC22 | 0.317445208 | 0 | 8.481006587 | 3.09E-09 |
| ENSG00000233098 | CCDC144NL-AS1 | 6.411870146 | 0.017511246 | 8.478037043 | 6.52E-37 |
| ENSG00000196867 | ZFP28 | 2.522465553 | 0.006418572 | 8.458712524 | 2.83E-26 |
| ENSG00000235984 | GPC5-AS1 | 4.078840096 | 0 | 8.449387452 | 4.20E-09 |
| ENSG00000220008 | LINGO3 | 0.839065276 | 0 | 8.449387452 | 4.20E-09 |
| ENSG00000157873 | TNFRSF14 | 0.302354926 | 0 | 8.449387452 | 4.20E-09 |
| ENSG00000230099 | TRBV5-4 | 3.456517066 | 0 | 8.449387452 | 4.20E-09 |
| ENSG00000214652 | ZNF727 | 1.119919764 | 0 | 8.449387452 | 4.20E-09 |
| ENSG00000182580 | EPHB3 | 27.8631139 | 0.079016985 | 8.444957525 | 3.88E-41 |
| ENSG00000168806 | LCMT2 | 9.19556204 | 0.025737026 | 8.442668919 | 1.19E-36 |
| ENSG00000281566 | AL157778.1 | 0.696688076 | 0 | 8.417059771 | 5.75E-09 |
| ENSG00000184254 | ALDH1A3 | 0.31853081 | 0 | 8.417059771 | 5.75E-09 |
| ENSG00000152785 | BMP3 | 0.320641757 | 0 | 8.417059771 | 5.75E-09 |
| ENSG00000230798 | FOXD3-AS1 | 1.521986617 | 0 | 8.417059771 | 5.75E-09 |
| ENSG00000261594 | TPBGL | 0.658274197 | 0 | 8.417059771 | 5.75E-09 |
| ENSG00000173320 | STOX2 | 4.194792512 | 0.011867212 | 8.413197472 | 2.28E-34 |
| ENSG00000205097 | FRG2 | 109.1428821 | 0.31928047 | 8.41018767 | 1.07E-43 |
| ENSG00000233392 | AC104809.2 | 0.676496379 | 0 | 8.38399106 | 7.89E-09 |
| ENSG00000186081 | KRT5 | 0.41863336 | 0 | 8.38399106 | 7.89E-09 |
| ENSG00000233515 | LINC01518 | 3.46199303 | 0 | 8.38399106 | 7.89E-09 |
| ENSG00000198681 | MAGEA1 | 1.050745253 | 0 | 8.38399106 | 7.89E-09 |
| ENSG00000053328 | METTL24 | 1.012837871 | 0 | 8.38399106 | 7.89E-09 |
| ENSG00000242419 | PCDHGC4 | 0.36123329 | 0 | 8.38399106 | 7.89E-09 |
| ENSG00000077942 | FBLN1 | 4.307601032 | 0.012289121 | 8.373489761 | 5.08E-31 |
| ENSG00000140563 | MCTP2 | 1.262127962 | 0.003449154 | 8.355778664 | 1.43E-25 |
| ENSG00000261437 | AC108860.2 | 0.803934463 | 0 | 8.350146548 | 1.09E-08 |

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| ENSG00000161905 | ALOX15 | 0.515566666 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000236081 | ELFN1-AS1 | 1.774508526 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000230316 | FEZF1-AS1 | 0.52972802 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000268089 | GABRQ | 0.284346878 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000165731 | RET | 0.253941388 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000183578 | TNFAIP8L3 | 0.740189343 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000141655 | TNFRSF11A | 0.195020439 | 0 | 8.350146548 | 1.09E-08 |
| ENSG00000149418 | ST14 | 37.10740144 | 0.113194102 | 8.345599942 | 1.17E-41 |
| ENSG00000141934 | PLPP2 | 22.73071694 | 0.069754121 | 8.336984865 | 1.36E-41 |
| ENSG00000154065 | ANKRD29 | 4.772864818 | 0.014008175 | 8.332580451 | 9.82E-31 |
| ENSG00000261324 | AC010168.2 | 0.315623338 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000246022 | ALDH1L1-AS2 | 0.63008587 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000135905 | DOCK10 | 0.152081978 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000279516 | FAM230C | 0.869646437 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000274750 | HIST1H3E | 0.639493647 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000151704 | KCNJ1 | 0.369463766 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000153012 | LGI2 | 0.26652201 | 0 | 8.315488957 | 1.51E-08 |
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| ENSG00000186462 | NAP1L2 | 0.671844502 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000107014 | RLN2 | 1.340534805 | 0 | 8.315488957 | 1.51E-08 |
| ENSG00000168803 | ADAL | 2.754123869 | 0.007805252 | 8.303328837 | 3.34E-25 |
| ENSG00000223547 | ZNF844 | 6.570793692 | 0.020285403 | 8.287219667 | 1.86E-33 |
| ENSG00000086570 | FAT2 | 17.30401139 | 0.05542658 | 8.281243244 | 1.48E-43 |
| ENSG00000265972 | TXNIP | 8.115022713 | 0.024696895 | 8.280268837 | 2.30E-30 |
| ENSG00000278704 | BX004987.1 | 0.747169437 | 0 | 8.279978258 | 2.10E-08 |
| ENSG00000109424 | UCP1 | 1.143240787 | 0 | 8.279978258 | 2.10E-08 |
| ENSG00000204789 | ZNF204P | 6.467418536 | 0.018674644 | 8.276371083 | 5.16E-25 |
| ENSG00000198440 | ZNF583 | 1.892269172 | 0.005553737 | 8.25285661 | 7.08E-25 |
| ENSG00000145428 | RNF175 | 0.371214711 | 0 | 8.243571388 | 2.93E-08 |
| ENSG00000183072 | NKX2-5 | 7.163790268 | 0.021376849 | 8.228952515 | 1.04E-24 |
| ENSG00000166025 | AMOTL1 | 5.488114011 | 0.017842799 | 8.226564666 | 4.44E-35 |
| ENSG00000266602 | AC008109.1 | 1.922333086 | 0 | 8.206221942 | 4.11E-08 |
| ENSG00000163909 | HEYL | 0.433719511 | 0 | 8.206221942 | 4.11E-08 |
| ENSG00000143171 | RXRG | 0.588964069 | 0 | 8.206221942 | 4.11E-08 |
| ENSG00000230953 | AC099677.1 | 8.83463816 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000228933 | AC107419.1 | 0.548248822 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000242021 | AC112493.1 | 1.743023312 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000162687 | KCNT2 | 0.217755166 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000226686 | LINC01535 | 0.706932637 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000225285 | LINC01770 | 1.816758729 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000157502 | MUM1L1 | 0.355989334 | 0 | 8.167879813 | 5.79E-08 |
| ENSG00000144476 | ACKR3 | 6.310380296 | 0.019824235 | 8.154767787 | 3.42E-24 |
| ENSG00000198521 | ZNF43 | 4.541371686 | 0.015526577 | 8.140001482 | 2.15E-32 |

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| ENSG00000162543 | UBXN10 | 7.020495766 | 0.024105074 | 8.133850102 | 2.39E-32 |
| ENSG00000274286 | ADRA2B | 0.446240352 | 0 | 8.128490788 | 8.20E-08 |
| ENSG0000058866 | DGKG | 0.137026437 | 0 | 8.128490788 | 8.20E-08 |
| ENSG00000111913 | RIPOR2 | 0.157747088 | 0 | 8.128490788 | 8.20E-08 |
| ENSG00000145626 | UGT3A1 | 0.177286532 | 0 | 8.128490788 | 8.20E-08 |
| ENSG0000060982 | BCAT1 | 5.429447105 | 0.019007695 | 8.128288206 | 7.00E-36 |
| ENSG00000162639 | HENMT1 | 5.701147651 | 0.018451411 | 8.11184376 | 6.34E-24 |
| ENSG00000165929 | TC2N | 8.272798694 | 0.029128435 | 8.111555191 | 3.05E-34 |
| ENSG00000142173 | COL6A2 | 9.340824863 | 0.033244056 | 8.096063067 | 3.91E-34 |
| ENSG00000135439 | AGAP2 | 0.217373778 | 0 | 8.087996091 | 1.17E-07 |
| ENSG00000101938 | CHRDL1 | 0.373084382 | 0 | 8.087996091 | 1.17E-07 |
| ENSG00000116157 | GPX7 | 21.84407952 | 0.079414173 | 8.051399646 | 9.24E-32 |
| ENSG00000260211 | AC139426.1 | 0.561765649 | 0 | 8.04633185 | 1.67E-07 |
| ENSG00000230707 | AL589987.1 | 1.734682937 | 0 | 8.04633185 | 1.67E-07 |
| ENSG00000239911 | PRKAG2-AS1 | 1.221586695 | 0 | 8.04633185 | 1.67E-07 |
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| ENSG00000242675 | RPS16P9 | 3.327178749 | 0 | 8.04633185 | 1.67E-07 |
| ENSG00000144868 | TMEM108 | 0.168629712 | 0 | 8.04633185 | 1.67E-07 |
| ENSG00000233922 | LINC01694 | 10.58442035 | 0.039438874 | 8.043992587 | 1.91E-36 |
| ENSG00000240225 | ZNF542P | 5.318958231 | 0.019088751 | 8.042471749 | 1.12E-28 |
| ENSG0000062038 | CDH3 | 11.44476426 | 0.043069072 | 8.029705274 | 2.44E-36 |
| ENSG00000145703 | IQGAP2 | 6.037320947 | 0.022653402 | 8.019798723 | 1.39E-33 |
| ENSG00000246582 | AC100861.1 | 0.563975409 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000234147 | AL035446.1 | 3.043973234 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000184574 | LPAR5 | 0.423241214 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000268606 | MAGEA2 | 0.606918959 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000280109 | PLAC4 | 0.130455996 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000102445 | RUBCNL | 0.225867301 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000170542 | SERPINB9 | 0.334851839 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000196972 | SMIM10L2B | 0.503807042 | 0 | 8.003428494 | 2.40E-07 |
| ENSG00000185633 | NDUFA4L2 | 8.637049693 | 0.03190529 | 8.00080286 | 2.15E-28 |
| ENSG00000152229 | PSTPIP2 | 5.821565227 | 0.021729671 | 7.985804053 | 2.76E-28 |
| ENSG00000178467 | P4HTM | 6.031848212 | 0.023433122 | 7.96967463 | 3.22E-33 |
| ENSG00000263567 | AC007923.1 | 2.647790939 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000248268 | AC010275.1 | 2.3666096 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000267383 | AC011447.3 | 0.362957227 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000260711 | AL121839.2 | 0.192587415 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000270038 | AL133467.4 | 1.844323344 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000164743 | C8orf48 | 0.925352543 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000179776 | CDH5 | 0.219851106 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000171812 | COL8A2 | 0.286324288 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000132704 | FCRL2 | 0.264360305 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000134460 | IL2RA | 0.337489759 | 0 | 7.959210057 | 3.48E-07 |

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| ENSG00000137033 | IL33 | 0.411046549 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000225255 | LINC01297 | 1.563899911 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000253873 | PCDHGA11 | 0.229985281 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000159247 | TUBBP5 | 0.475172148 | 0 | 7.959210057 | 3.48E-07 |
| ENSG00000088881 | EBF4 | 3.338789044 | 0.012042809 | 7.955539865 | 7.02E-23 |
| ENSG00000007062 | PROM1 | 6.109871533 | 0.024085618 | 7.948596264 | 4.63E-33 |
| ENSG00000129422 | MTUS1 | 2.832086338 | 0.011181463 | 7.932400187 | 6.61E-31 |
| ENSG00000182272 | B4GALNT4 | 3.233067315 | 0.01190192 | 7.926109012 | 1.12E-22 |
| ENSG00000160216 | AGPAT3 | 8.75955625 | 0.035664669 | 7.925603336 | 1.94E-37 |
| ENSG00000119411 | BSPRY | 9.807700926 | 0.038275436 | 7.921574238 | 7.69E-28 |
| ENSG00000173467 | AGR3 | 1.11668015 | 0 | 7.913593359 | 5.06E-07 |
| ENSG00000205667 | ARSH | 0.690852786 | 0 | 7.913593359 | 5.06E-07 |
| ENSG00000142609 | CFAP74 | 0.124289865 | 0 | 7.913593359 | 5.06E-07 |
| ENSG00000254349 | MIR2052HG | 0.445749819 | 0 | 7.913593359 | 5.06E-07 |
| ENSG00000160321 | ZNF208 | 0.188633897 | 0 | 7.913593359 | 5.06E-07 |
| ENSG00000139714 | MORN3 | 3.088395608 | 0.011608693 | 7.896065247 | 1.79E-22 |
| ENSG00000205890 | AC108134.1 | 0.409527449 | 0 | 7.866487076 | 7.40E-07 |
| ENSG00000187721 | GTF2IP3 | 2.537577981 | 0 | 7.866487076 | 7.40E-07 |
| ENSG00000138795 | LEF1 | 0.233830167 | 0 | 7.866487076 | 7.40E-07 |
| ENSG00000122378 | PRXL2A | 7.940517406 | 0.034327548 | 7.823961329 | 1.15E-33 |
| ENSG00000168824 | NSG1 | 2.590601999 | 0.010278558 | 7.818099026 | 5.57E-22 |
| ENSG00000279628 | AC131280.1 | 0.199601066 | 0 | 7.817790631 | 1.09E-06 |
| ENSG00000236304 | AP001189.1 | 0.849774244 | 0 | 7.817790631 | 1.09E-06 |
| ENSG00000282870 | FRG1DP | 1.571696591 | 0 | 7.817790631 | 1.09E-06 |
| ENSG00000248131 | LINC01194 | 0.64766332 | 0 | 7.817790631 | 1.09E-06 |
| ENSG00000266916 | ZNF793-AS1 | 0.917318752 | 0 | 7.817790631 | 1.09E-06 |
| ENSG00000165215 | CLDN3 | 71.9929862 | 0.316222997 | 7.816161393 | 1.22E-36 |
| ENSG00000268916 | CSAG3 | 28.86012665 | 0.123997568 | 7.810429849 | 4.90E-30 |
| ENSG00000177932 | ZNF354C | 3.907491791 | 0.016545231 | 7.803934298 | 5.16E-27 |
| ENSG00000154342 | WNT3A | 3.776652268 | 0.015267095 | 7.791144988 | 8.47E-22 |
| ENSG00000160588 | MPZL3 | 5.254773167 | 0.022562057 | 7.783841891 | 7.19E-27 |
| ENSG00000260807 | AC009041.2 | 0.299613988 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000273305 | AC009237.15 | 2.335314613 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000280079 | AC011447.7 | 0.735844416 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000228836 | CT45A5 | 1.007745582 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000128610 | FEZF1 | 0.447929794 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000053108 | FSTL4 | 0.173744078 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000157404 | KIT | 0.210316847 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000229544 | NKX1-2 | 0.347798044 | 0 | 7.767392904 | 1.61E-06 |
| ENSG00000132329 | RAMP1 | 8.770204008 | 0.036274815 | 7.758121 | 1.41E-21 |
| ENSG00000134202 | GSTM3 | 4.301702194 | 0.01884763 | 7.754644172 | 1.11E-26 |
| ENSG00000020633 | RUNX3 | 10.75354072 | 0.049483885 | 7.733885885 | 5.10E-33 |
| ENSG00000234476 | AC092811.1 | 1.137305615 | 0 | 7.715170703 | 2.40E-06 |

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| ENSG00000138316 | ADAMTS14 | 0.214121687 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000134326 | CMPK2 | 0.262251783 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000235436 | DPY19L2P4 | 0.559071938 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000198417 | MT1F | 0.597251017 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000158352 | SHROOM4 | 0.109184861 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000100170 | SLC5A1 | 0.212468394 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000145335 | SNCA | 0.281068054 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000278318 | ZNF229 | 0.204942265 | 0 | 7.715170703 | 2.40E-06 |
| ENSG00000159495 | TGM7 | 4.457114748 | 0.019252956 | 7.695540904 | 3.72E-21 |
| ENSG00000167741 | GGT6 | 6.199739451 | 0.028322127 | 7.694413867 | 2.98E-26 |
| ENSG00000119715 | ESRRB | 1.719333893 | 0.007548587 | 7.672094237 | 5.34E-21 |
| ENSG00000274835 | AC100757.2 | 3.88007757 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000261888 | AC144831.1 | 0.409044322 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000279029 | AL353583.1 | 0.585672086 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000151640 | DPYSL4 | 0.34207233 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000087258 | GNAO1 | 0.079318224 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000153885 | KCTD15 | 0.170072279 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000182170 | MRGPRG | 1.248760597 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000230873 | STMND1 | 0.37696798 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000103528 | SYT17 | 0.144125991 | 0 | 7.660986956 | 3.61E-06 |
| ENSG00000156049 | GNA14 | 10.07396387 | 0.049352946 | 7.621122309 | 1.07E-28 |
| ENSG00000134769 | DTNA | 0.77723452 | 0.003543068 | 7.617903065 | 1.12E-20 |
| ENSG00000172005 | MAL | 6.710909731 | 0.030722802 | 7.611754223 | 1.23E-20 |
| ENSG00000267886 | AC074135.1 | 1.080285697 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000277400 | AC145212.1 | 0.479410862 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000285621 | AL138999.2 | 0.796216668 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000257869 | AL139023.1 | 2.056370608 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000186377 | CYP4X1 | 0.409982837 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000165023 | DIRAS2 | 0.222927074 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000117228 | GBP1 | 0.209262073 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000184350 | MRGPRE | 0.741402604 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000196119 | OR8A1 | 0.1715894 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000198754 | OXCT2 | 0.572089961 | 0 | 7.604688532 | 5.45E-06 |
| ENSG00000070526 | ST6GALNAC1 | 7.70752514 | 0.038947032 | 7.576462186 | 2.18E-28 |
| ENSG00000213949 | ITGA1 | 3.709060802 | 0.019288214 | 7.57022149 | 1.03E-34 |
| ENSG00000124749 | COL21A1 | 0.14168562 | 0 | 7.546103643 | 8.28E-06 |
| ENSG00000187140 | FOXD3 | 0.480753029 | 0 | 7.546103643 | 8.28E-06 |
| ENSG00000213626 | LBH | 0.213508797 | 0 | 7.546103643 | 8.28E-06 |
| ENSG00000168671 | UGT3A2 | 0.372253459 | 0 | 7.546103643 | 8.28E-06 |
| ENSG00000247746 | USP51 | 0.227558615 | 0 | 7.546103643 | 8.28E-06 |
| ENSG00000245680 | ZNF585B | 3.392504094 | 0.017814986 | 7.520978556 | 5.30E-28 |
| ENSG00000187172 | BAGE2 | 4.209269672 | 0.021942707 | 7.504020366 | 6.01E-25 |
| ENSG00000219159 | AC011298.1 | 0.282832657 | 0 | 7.485038676 | 1.27E-05 |

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| ENSG00000248783 | AC106771.1 | 2.583509052 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000234626 | AL021937.3 | 2.662230935 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000248713 | C4orf54 | 0.095287068 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000133083 | DCLK1 | 0.066856721 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000251165 | F11-AS1 | 0.358205504 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000124391 | IL17C | 0.6969292 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000236301 | MRGPRG-AS1 | 0.477666684 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000113396 | SLC27A6 | 0.275140386 | 0 | 7.485038676 | 1.27E-05 |
| ENSG00000258484 | SPESP1 | 10.60424223 | 0.056376728 | 7.475670804 | 9.51E-25 |
| ENSG00000178498 | DTX3 | 6.062826596 | 0.032857687 | 7.475488757 | 1.13E-27 |
| ENSG00000078328 | RBFOX1 | 1.64730707 | 0.008845593 | 7.461284343 | 1.20E-24 |
| ENSG00000117122 | MFAP2 | 2.981603347 | 0.015356131 | 7.441928659 | 1.45E-19 |
| ENSG00000166145 | SPINT1 | 50.51533036 | 0.290669623 | 7.438234106 | 2.76E-38 |
| ENSG00000151322 | NPAS3 | 4.277571304 | 0.024219847 | 7.434743785 | 7.22E-31 |
| ENSG00000236431 | AC009237.8 | 2.425540677 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000275038 | AC091980.2 | 0.300811491 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000277693 | AP003900.1 | 0.991671971 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000242173 | ARHGDIG | 0.378460237 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000279973 | CU104787.1 | 3.191944155 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000188816 | HMX2 | 0.564668253 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000142149 | HUNK | 0.110836739 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000187537 | POTEG | 0.366392952 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000230082 | PRRT3-AS1 | 1.497198561 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000267454 | ZNF582-AS1 | 0.451291073 | 0 | 7.421274334 | 1.96E-05 |
| ENSG00000283023 | FRG1GP | 11.06720595 | 0.057833491 | 7.420982137 | 1.98E-19 |
| ENSG00000185352 | HS6ST3 | 1.092010243 | 0.005734451 | 7.41393183 | 2.20E-19 |
| ENSG00000136167 | LCP1 | 159.9009731 | 0.955229633 | 7.390067889 | 3.47E-41 |
| ENSG00000104081 | BMF | 4.280573072 | 0.024653822 | 7.387741471 | 4.66E-27 |
| ENSG00000138449 | SLC40A1 | 3.62848256 | 0.020675807 | 7.375656804 | 4.51E-24 |
| ENSG00000104892 | KLC3 | 2.241365175 | 0.012250444 | 7.356253575 | 5.19E-19 |
| ENSG00000279377 | AC003973.3 | 0.31094772 | 0 | 7.354560884 | 3.05E-05 |
| ENSG00000279741 | AC007342.8 | 1.294239625 | 0 | 7.354560884 | 3.05E-05 |
| ENSG00000254810 | AP001189.3 | 1.347917766 | 0 | 7.354560884 | 3.05E-05 |
| ENSG00000108556 | CHRNE | 0.306387733 | 0 | 7.354560884 | 3.05E-05 |
| ENSG00000258754 | LINC01579 | 0.129138258 | 0 | 7.354560884 | 3.05E-05 |
| ENSG00000198062 | POTEH | 0.382684024 | 0 | 7.354560884 | 3.05E-05 |
| ENSG00000135643 | KCNMB4 | 3.163486116 | 0.018368126 | 7.348554352 | 6.97E-24 |
| ENSG00000069812 | HES2 | 2.797546361 | 0.016557471 | 7.32093299 | 1.02E-23 |
| ENSG00000215845 | TSTD1 | 18.19911781 | 0.110982947 | 7.305298941 | 1.75E-26 |
| ENSG00000215548 | FRG1JP | 8.48276068 | 0.04808069 | 7.303821327 | 1.13E-18 |
| ENSG00000261241 | LINC02128 | 1.968344962 | 0.011216017 | 7.296172993 | 1.26E-18 |
| ENSG00000114654 | EFCC1 | 0.283772161 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000164616 | FBXL21 | 0.21583394 | 0 | 7.284612248 | 4.78E-05 |

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| ENSG00000275714 | HIST1H3A | 2.033355268 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000205293 | LINC01602 | 0.343206988 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000248238 | LINC02438 | 1.303758214 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000205847 | OR7E91P | 0.697586824 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000214842 | RAD51AP2 | 0.224411658 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000183145 | RIPPLY3 | 0.360374737 | 0 | 7.284612248 | 4.78E-05 |
| ENSG00000101276 | SLC52A3 | 3.895253884 | 0.023709281 | 7.280533334 | 1.94E-23 |
| ENSG00000148734 | NPFFR1 | 0.866529357 | 0.005017725 | 7.272981657 | 1.78E-18 |
| ENSG00000164684 | ZNF704 | 4.187454554 | 0.026843557 | 7.270784004 | 1.16E-32 |
| ENSG00000005379 | TSPOAP1 | 0.677164254 | 0.003942498 | 7.26516762 | 1.99E-18 |
| ENSG00000007372 | PAX6 | 1.019940851 | 0.006452497 | 7.252337691 | 4.00E-26 |
| ENSG00000140832 | MARVELD3 | 3.286568963 | 0.020832976 | 7.249495665 | 4.19E-26 |
| ENSG00000120708 | TGFBI | 23.05957654 | 0.15475087 | 7.217429368 | 3.22E-37 |
| ENSG00000285416 | AC137630.5 | 1.040528918 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000253217 | AP001574.1 | 1.454072462 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000129993 | CBFA2T3 | 0.132940985 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000187821 | HELT | 0.642332981 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000158748 | HTR6 | 0.400163087 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000225174 | OSTM1-AS1 | 0.229989445 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000253767 | PCDHGA8 | 0.091666501 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000175093 | SPSB4 | 0.212279028 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000176933 | TOB2P1 | 0.800326174 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000169059 | VCX3A | 0.79791313 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000258405 | ZNF578 | 0.110435883 | 0 | 7.21109859 | 4.78E-05 |
| ENSG00000073150 | PANX2 | 2.384276204 | 0.014430407 | 7.209251219 | 4.02E-18 |
| ENSG00000081923 | ATP8B1 | 41.40493442 | 0.280247206 | 7.207583998 | 2.37E-38 |
| ENSG00000109265 | KIAA1211 | 3.023172716 | 0.019909469 | 7.194405365 | 9.87E-26 |
| ENSG00000182632 | CCNYL2 | 5.311802276 | 0.035053345 | 7.191446773 | 1.04E-25 |
| ENSG0000003989 | SLC7A2 | 1.733792264 | 0.011325268 | 7.178692423 | 9.18E-23 |
| ENSG00000101098 | RIMS4 | 1.380541208 | 0.008598371 | 7.167940991 | 7.32E-18 |
| ENSG00000165140 | FBP1 | 4.084834174 | 0.025740726 | 7.151079902 | 9.35E-18 |
| ENSG00000184160 | ADRA2C | 6.098106168 | 0.041085931 | 7.134041223 | 1.86E-22 |
| ENSG00000224513 | AC109309.1 | 1.729053135 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000279602 | AC109326.1 | 0.56937026 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000266995 | AP001542.1 | 3.760690568 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000223658 | C1GALT1C1L | 0.64175607 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000110848 | CD69 | 0.265585492 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000149972 | CNTN5 | 0.082625301 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000121361 | KCNJ8 | 0.302793121 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000205628 | LINC01446 | 0.2158835 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000250584 | LINC01511 | 0.444526072 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000253417 | LINC02159 | 0.323778783 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000103710 | RASL12 | 0.26842902 | 0 | 7.133636911 | 7.55E-05 |

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| ENSG00000104055 | TGM5 | 0.207143518 | 0 | 7.133636911 | 7.55E-05 |
| ENSG00000183833 | MAATS1 | 0.982011016 | 0.006299342 | 7.125412925 | 1.35E-17 |
| ENSG00000149054 | ZNF215 | 1.202354797 | 0.007759252 | 7.116754778 | 1.53E-17 |
| ENSG00000099822 | HCN2 | 30.88543147 | 0.223290221 | 7.106269963 | 1.22E-34 |
| ENSG00000151388 | ADAMTS12 | 1.3204852 | 0.009155885 | 7.092638348 | 3.57E-22 |
| ENSG00000175701 | MTLN | 3.320832995 | 0.021825023 | 7.090464135 | 2.24E-17 |
| ENSG00000267191 | AC006213.3 | 1.373989677 | 0 | 7.051778972 | 0.00012 |
| ENSG00000277806 | AC006213.4 | 1.120430068 | 0 | 7.051778972 | 0.00012 |
| ENSG00000279864 | AC124864.2 | 3.819100338 | 0 | 7.051778972 | 0.00012 |
| ENSG00000277493 | AC139769.3 | 4.059158074 | 0 | 7.051778972 | 0.00012 |
| ENSG00000283766 | AC141930.2 | 0.932221342 | 0 | 7.051778972 | 0.00012 |
| ENSG00000285771 | AL139095.5 | 0.599453724 | 0 | 7.051778972 | 0.00012 |
| ENSG00000244731 | C4A | 0.098783572 | 0 | 7.051778972 | 0.00012 |
| ENSG00000102678 | FGF9 | 0.156499816 | 0 | 7.051778972 | 0.00012 |
| ENSG00000134363 | FST | 0.239256539 | 0 | 7.051778972 | 0.00012 |
| ENSG00000128713 | HOXD11 | 0.33666003 | 0 | 7.051778972 | 0.00012 |
| ENSG00000066735 | KIF26A | 0.10514397 | 0 | 7.051778972 | 0.00012 |
| ENSG00000164344 | KLKB1 | 0.240552883 | 0 | 7.051778972 | 0.00012 |
| ENSG00000139648 | KRT71 | 0.313621485 | 0 | 7.051778972 | 0.00012 |
| ENSG00000248307 | LINC00616 | 0.300360534 | 0 | 7.051778972 | 0.00012 |
| ENSG00000258819 | LINC02289 | 0.254333213 | 0 | 7.051778972 | 0.00012 |
| ENSG00000141506 | PIK3R5 | 0.094637978 | 0 | 7.051778972 | 0.00012 |
| ENSG00000204434 | POTEKP | 0.264268104 | 0 | 7.051778972 | 0.00012 |
| ENSG00000185924 | RTN4RL1 | 0.195959355 | 0 | 7.051778972 | 0.00012 |
| ENSG00000241697 | TMEFF1 | 0.272061533 | 0 | 7.051778972 | 0.00012 |
| ENSG00000206077 | ZDHHC11B | 0.146767079 | 0 | 7.051778972 | 0.00012 |
| ENSG00000152284 | TCF7L1 | 1.495718446 | 0.010141169 | 7.045552861 | 4.26E-17 |
| ENSG00000103534 | TMC5 | 1.026171714 | 0.007001896 | 7.036400364 | 4.85E-17 |
| ENSG00000182240 | BACE2 | 9.205049398 | 0.069804224 | 7.036030954 | 1.42E-33 |
| ENSG00000090661 | CERS4 | 27.5378371 | 0.2095342 | 7.033561502 | 1.42E-34 |
| ENSG00000136378 | ADAMTS7 | 8.173299036 | 0.063699139 | 6.99241137 | 9.62E-32 |
| ENSG00000162738 | VANGL2 | 1.189398598 | 0.008382607 | 6.989746121 | 9.41E-17 |
| ENSG00000106541 | AGR2 | 6.139303486 | 0.047201886 | 6.971091058 | 3.38E-24 |
| ENSG00000269696 | AC005498.3 | 0.326927732 | 0 | 6.964995578 | 0.000194 |
| ENSG00000283355 | AC074194.2 | 0.284739017 | 0 | 6.964995578 | 0.000194 |
| ENSG00000253983 | AC087627.1 | 0.673280173 | 0 | 6.964995578 | 0.000194 |
| ENSG00000075340 | ADD2 | 0.052755244 | 0 | 6.964995578 | 0.000194 |
| ENSG00000279081 | AL356585.1 | 0.745336914 | 0 | 6.964995578 | 0.000194 |
| ENSG00000228955 | AL591623.2 | 3.011564019 | 0 | 6.964995578 | 0.000194 |
| ENSG00000225678 | AP000619.1 | 0.668567212 | 0 | 6.964995578 | 0.000194 |
| ENSG00000126947 | ARMCX1 | 0.312268665 | 0 | 6.964995578 | 0.000194 |
| ENSG00000249082 | C5orf66-AS1 | 0.793080916 | 0 | 6.964995578 | 0.000194 |
| ENSG00000133878 | DUSP26 | 0.325812482 | 0 | 6.964995578 | 0.000194 |

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| ENSG00000139515 | PDX1 | 0.267319957 | 0 | 6.964995578 | 0.000194 |
| ENSG00000250591 | PRSS3P1 | 0.901033979 | 0 | 6.964995578 | 0.000194 |
| ENSG0000007350 | TKTL1 | 0.183169099 | 0 | 6.964995578 | 0.000194 |
| ENSG00000163013 | FBXO41 | 2.169859882 | 0.016763121 | 6.964173785 | 3.78E-24 |
| ENSG00000169783 | LINGO1 | 2.395290017 | 0.018263208 | 6.955661677 | 2.83E-21 |
| ENSG00000137462 | TLR2 | 2.250663535 | 0.017160484 | 6.955661677 | 2.83E-21 |
| ENSG00000183117 | CSMD1 | 0.625497258 | 0.00478622 | 6.95052074 | 3.06E-21 |
| ENSG00000168952 | STXBP6 | 20.53790904 | 0.166467542 | 6.945706284 | 1.47E-35 |
| ENSG00000258949 | AL049870.3 | 61.98175196 | 0.497368022 | 6.923333385 | 8.47E-26 |
| ENSG00000159374 | M1AP | 7.437810235 | 0.059684163 | 6.923333385 | 8.47E-26 |
| ENSG00000165521 | EML5 | 0.550808215 | 0.004069375 | 6.921786802 | 2.14E-16 |
| ENSG00000255363 | AP001189.5 | 9.713603336 | 0.077848908 | 6.911209236 | 8.88E-24 |
| ENSG00000180353 | HCLS1 | 4.340173464 | 0.035156585 | 6.909764662 | 1.06E-25 |
| ENSG00000124507 | PACSin1 | 1.225660195 | 0.00931207 | 6.881465472 | 3.75E-16 |
| ENSG00000138207 | RBP4 | 4.066079059 | 0.030892424 | 6.881465472 | 3.75E-16 |
| ENSG00000267327 | AC009271.1 | 0.660465502 | 0 | 6.872655826 | 0.000315 |
| ENSG00000269397 | AC011503.2 | 0.417854508 | 0 | 6.872655826 | 0.000315 |
| ENSG00000275155 | AC027348.1 | 1.019157336 | 0 | 6.872655826 | 0.000315 |
| ENSG00000266369 | AC090774.2 | 0.456838018 | 0 | 6.872655826 | 0.000315 |
| ENSG00000274310 | AC091076.1 | 1.012571505 | 0 | 6.872655826 | 0.000315 |
| ENSG00000257829 | AC121757.1 | 1.004457951 | 0 | 6.872655826 | 0.000315 |
| ENSG00000277702 | AC239859.6 | 2.942637377 | 0 | 6.872655826 | 0.000315 |
| ENSG00000251002 | AC244502.1 | 0.190859245 | 0 | 6.872655826 | 0.000315 |
| ENSG00000280604 | AJ239328.1 | 0.130389382 | 0 | 6.872655826 | 0.000315 |
| ENSG00000284668 | AL805961.1 | 0.342503695 | 0 | 6.872655826 | 0.000315 |
| ENSG00000133169 | BEX1 | 0.725441853 | 0 | 6.872655826 | 0.000315 |
| ENSG00000184492 | FOXD4L1 | 0.251618531 | 0 | 6.872655826 | 0.000315 |
| ENSG00000282995 | FRG1EP | 0.814002287 | 0 | 6.872655826 | 0.000315 |
| ENSG00000278828 | HIST1H3H | 0.506695037 | 0 | 6.872655826 | 0.000315 |
| ENSG00000139679 | LPAR6 | 0.144154039 | 0 | 6.872655826 | 0.000315 |
| ENSG00000120289 | MAGEB4 | 0.292615201 | 0 | 6.872655826 | 0.000315 |
| ENSG00000185155 | MIXL1 | 0.308911662 | 0 | 6.872655826 | 0.000315 |
| ENSG00000196341 | OR8D1 | 0.073678354 | 0 | 6.872655826 | 0.000315 |
| ENSG00000120328 | PCDHB12 | 0.161750132 | 0 | 6.872655826 | 0.000315 |
| ENSG00000168016 | TRANK1 | 0.051485277 | 0 | 6.872655826 | 0.000315 |
| ENSG00000182583 | VCX | 0.594105935 | 0 | 6.872655826 | 0.000315 |
| ENSG00000149582 | TMEM25 | 5.751262078 | 0.048576367 | 6.863501345 | 5.99E-28 |
| ENSG00000136010 | ALDH1L2 | 11.67065135 | 0.09997641 | 6.862566208 | 2.50E-33 |
| ENSG00000100604 | CHGA | 5.172667018 | 0.04329122 | 6.848733867 | 2.29E-23 |
| ENSG00000279114 | Z99129.3 | 1.663619812 | 0.013923211 | 6.821300056 | 2.08E-20 |
| ENSG00000049283 | EPN3 | 6.643184545 | 0.057858408 | 6.819233334 | 1.22E-27 |
| ENSG00000071967 | CYBRD1 | 3.955732394 | 0.03459283 | 6.799306705 | 5.90E-25 |
| ENSG00000176597 | B3GNT5 | 3.110808742 | 0.027495775 | 6.792331842 | 2.50E-26 |

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| ENSG00000279400 | AC008957.3 | 0.260926098 | 0 | 6.773999253 | 0.000517 |
| ENSG00000255000 | AC139103.1 | 0.567957583 | 0 | 6.773999253 | 0.000517 |
| ENSG00000077522 | ACTN2 | 0.105785951 | 0 | 6.773999253 | 0.000517 |
| ENSG00000285407 | AL033530.1 | 0.20818374 | 0 | 6.773999253 | 0.000517 |
| ENSG00000277386 | AL138999.1 | 1.167657307 | 0 | 6.773999253 | 0.000517 |
| ENSG00000258932 | AL390334.1 | 0.351138242 | 0 | 6.773999253 | 0.000517 |
| ENSG00000270025 | BMS1P7 | 0.556080143 | 0 | 6.773999253 | 0.000517 |
| ENSG00000176753 | C15orf56 | 0.253684437 | 0 | 6.773999253 | 0.000517 |
| ENSG00000180044 | C3orf80 | 0.215230431 | 0 | 6.773999253 | 0.000517 |
| ENSG00000249035 | CLMAT3 | 0.266999685 | 0 | 6.773999253 | 0.000517 |
| ENSG00000186417 | GLDN | 0.081886382 | 0 | 6.773999253 | 0.000517 |
| ENSG00000147255 | IGSF1 | 0.082966432 | 0 | 6.773999253 | 0.000517 |
| ENSG00000224559 | LINC01087 | 0.166381203 | 0 | 6.773999253 | 0.000517 |
| ENSG00000257084 | MIR200CHG | 1.67141803 | 0 | 6.773999253 | 0.000517 |
| ENSG00000230937 | MIR205HG | 0.166286615 | 0 | 6.773999253 | 0.000517 |
| ENSG00000166819 | PLIN1 | 0.15406803 | 0 | 6.773999253 | 0.000517 |
| ENSG00000176381 | PRR18 | 0.18577209 | 0 | 6.773999253 | 0.000517 |
| ENSG00000128276 | RFPL3 | 0.389737715 | 0 | 6.773999253 | 0.000517 |
| ENSG00000138083 | SIX3 | 0.231865363 | 0 | 6.773999253 | 0.000517 |
| ENSG00000050438 | SLC4A8 | 0.032535946 | 0 | 6.773999253 | 0.000517 |
| ENSG00000213231 | TCL1B | 0.310837572 | 0 | 6.773999253 | 0.000517 |
| ENSG00000274391 | TPTE | 0.225345266 | 0 | 6.773999253 | 0.000517 |
| ENSG00000112494 | UNC93A | 0.216745576 | 0 | 6.773999253 | 0.000517 |
| ENSG00000114200 | BCHE | 8.080508972 | 0.07262025 | 6.768331535 | 3.72E-26 |
| ENSG00000121316 | PLBD1 | 5.280174876 | 0.047268344 | 6.751645166 | 1.01E-22 |
| ENSG00000138821 | SLC39A8 | 11.15568361 | 0.103618338 | 6.743439167 | 1.87E-31 |
| ENSG00000105707 | HPN | 1.582407603 | 0.013243527 | 6.742048152 | 2.55E-15 |
| ENSG00000226363 | HAGLROS | 4.733944912 | 0.03993142 | 6.730744285 | 2.98E-15 |
| ENSG00000116194 | ANGPTL1 | 4.334488427 | 0.039462053 | 6.72733832 | 1.49E-22 |
| ENSG00000104213 | PDGFRL | 2.150849271 | 0.01858162 | 6.696291354 | 4.75E-15 |
| ENSG00000129538 | RNASE1 | 3.440501922 | 0.029723189 | 6.696291354 | 4.75E-15 |
| ENSG00000273274 | ZBTB8B | 0.403724162 | 0.003487854 | 6.696291354 | 4.75E-15 |
| ENSG00000115705 | TPO | 0.608022056 | 0.005295531 | 6.684621748 | 5.57E-15 |
| ENSG00000197863 | ZNF790 | 2.506476013 | 0.023247532 | 6.673127796 | 1.81E-19 |
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| ENSG00000131668 | BARX1 | 12.98006124 | 0.125951384 | 6.657712376 | 2.12E-25 |
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| ENSG00000137343 | ATAT1 | 2.278264973 | 0.022187421 | 6.602778761 | 5.23E-19 |
| ENSG00000145526 | CDH18 | 10.77139891 | 0.110685651 | 6.594837405 | 2.53E-29 |
| ENSG00000170579 | DLGAP1 | 0.396937621 | 0.003697598 | 6.587702521 | 1.73E-14 |
| ENSG00000165816 | VWA2 | 1.455718521 | 0.013560473 | 6.587702521 | 1.73E-14 |
| ENSG00000228613 | AC141930.1 | 6.060485224 | 0.056950537 | 6.575116675 | 2.04E-14 |
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| ENSG00000099984 | GSTT2 | 0.42350119 | 0 | 6.553802243 | 0.001437 |
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| ENSG00000186446 | ZNF501 | 1.186236582 | 0.011448369 | 6.536686634 | 3.38E-14 |
| ENSG00000253953 | PCDHGB4 | 1.246423814 | 0.012963545 | 6.507977077 | 1.95E-18 |
| ENSG00000115648 | MLPH | 0.595028378 | 0.005957296 | 6.483800409 | 6.74E-14 |
| ENSG00000162069 | BICDL2 | 2.655024377 | 0.028633127 | 6.483079812 | 6.04E-21 |
| ENSG00000134198 | TSPAN2 | 1.298902575 | 0.013127015 | 6.470270279 | 8.03E-14 |
| ENSG00000153363 | LINC00467 | 3.66374231 | 0.040254606 | 6.470096516 | 1.03E-22 |

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| ENSG00000151468 | CCDC3 | 1.179931273 | 0.012153984 | 6.442823292 | 1.15E-13 |
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| ENSG00000274997 | HIST1H2AH | 1.187700151 | 0 | 6.429666703 | 0.002435 |
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| ENSG00000146151 | HMGCLL1 | 0.095758325 | 0 | 6.429666703 | 0.002435 |
| ENSG00000232656 | IDI2-AS1 | 0.360219403 | 0 | 6.429666703 | 0.002435 |
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| ENSG00000232685 | LINC00442 | 0.21103763 | 0 | 6.429666703 | 0.002435 |
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| ENSG00000237476 | LINC01637 | 0.671988243 | 0 | 6.429666703 | 0.002435 |
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| ENSG00000107317 | PTGDS | 0.169546278 | 0 | 6.429666703 | 0.002435 |
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| ENSG0000075213 | SEMA3A | 0.454819761 | 0.004776771 | 6.414843988 | 1.64E-13 |
| ENSG00000171827 | ZNF570 | 2.508732634 | 0.028666745 | 6.413532085 | 2.54E-22 |
| ENSG00000172889 | EGFL7 | 162.8372305 | 1.928689156 | 6.402657047 | 6.37E-34 |
| ENSG00000197696 | NMB | 7.809218292 | 0.087599065 | 6.398976339 | 9.69E-18 |
| ENSG00000044524 | EPHA3 | 0.626093059 | 0.00670709 | 6.38631131 | 2.36E-13 |
| ENSG00000184185 | KCNJ12 | 2.707834089 | 0.031876889 | 6.370594944 | 4.72E-22 |
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| ENSG00000183049 | CAMK1D | 0.462587163 | 0.005108779 | 6.342425492 | 4.13E-13 |
| ENSG00000123095 | BHLHE41 | 1.936863599 | 0.022676354 | 6.33728995 | 2.38E-17 |
| ENSG00000164292 | RHOBTB3 | 2.89986203 | 0.035474001 | 6.333235139 | 3.84E-25 |
| ENSG00000186205 | 1-Mar | 6.260144761 | 0.077361196 | 6.332273242 | 8.79E-29 |
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| ENSG00000179299 | NSUN7 | 1.573140913 | 0.018935331 | 6.297352112 | 3.79E-17 |
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| ENSG00000228956 | SATB1-AS1 | 0.030940726 | 0 | 6.293835811 | 0.004174 |
| ENSG00000145423 | SFRP2 | 0.205637061 | 0 | 6.293835811 | 0.004174 |
| ENSG00000198574 | SH2D1B | 0.149393818 | 0 | 6.293835811 | 0.004174 |
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| ENSG00000074317 | SNCB | 0.208302347 | 0 | 6.293835811 | 0.004174 |
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| ENSG00000233608 | TWIST2 | 0.222499738 | 0 | 6.293835811 | 0.004174 |
| ENSG00000171016 | PYGO1 | 2.463959255 | 0.031175709 | 6.280555257 | 6.81E-24 |
| ENSG00000145908 | ZNF300 | 6.2995522 | 0.081184533 | 6.261098536 | 2.28E-25 |
| ENSG00000132429 | POPDC3 | 3.843106316 | 0.047595026 | 6.256277129 | 6.84E-17 |
| ENSG00000068615 | REEP1 | 3.566702006 | 0.045942308 | 6.254773186 | 1.04E-23 |
| ENSG00000184305 | CCSER1 | 0.686184603 | 0.008547474 | 6.247919911 | 7.71E-17 |
| ENSG00000162777 | DENND2D | 4.955155901 | 0.064932906 | 6.237039541 | 3.40E-25 |
| ENSG00000224717 | AC098936.1 | 1.303532259 | 0.015515814 | 6.234514887 | 1.59E-12 |
| ENSG00000197497 | ZNF665 | 0.950304566 | 0.011976755 | 6.231058822 | 9.81E-17 |
| ENSG00000103740 | ACSBG1 | 0.858048746 | 0.010878037 | 6.2225538 | 1.11E-16 |
| ENSG00000163888 | CAMK2N2 | 2.730473655 | 0.032865728 | 6.218418441 | 1.95E-12 |
| ENSG00000079931 | MOXD1 | 1.326271628 | 0.016914083 | 6.213998342 | 1.25E-16 |
| ENSG00000099256 | PRTFDC1 | 1.578840561 | 0.019219889 | 6.202140376 | 2.38E-12 |
| ENSG00000005108 | THSD7A | 2.133432292 | 0.028670679 | 6.197643129 | 3.42E-24 |
| ENSG00000078804 | TP53INP2 | 3.963095022 | 0.052936521 | 6.196773369 | 3.07E-22 |
| ENSG00000184979 | USP18 | 3.238421501 | 0.042050843 | 6.188023276 | 1.81E-16 |
| ENSG00000197971 | MBP | 2.262677108 | 0.031260843 | 6.168917255 | 1.10E-26 |
| ENSG00000247134 | AC090204.1 | 21.13852215 | 0.292569425 | 6.145521496 | 6.55E-22 |
| ENSG00000253966 | AC008514.2 | 0.281278277 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000283897 | AC011416.3 | 0.162028891 | 0 | 6.143874414 | 0.007243 |
| ENSG00000267682 | AC016590.2 | 1.002850818 | 0 | 6.143874414 | 0.007243 |
| ENSG00000275056 | AC020663.3 | 0.344701244 | 0 | 6.143874414 | 0.007243 |
| ENSG00000261002 | AC036103.1 | 0.380636697 | 0 | 6.143874414 | 0.007243 |
| ENSG00000276925 | AC099778.2 | 1.782317805 | 0 | 6.143874414 | 0.007243 |
| ENSG00000259692 | AC104041.1 | 0.490311678 | 0 | 6.143874414 | 0.007243 |
| ENSG00000250771 | AC106865.1 | 0.114760164 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000224387 | AL139246.1 | 0.8265254 | 0 | 6.143874414 | 0.007243 |

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| ENSG00000228648 | AL353747.2 | 1.834483204 | 0 | 6.143874414 | 0.007243 |
| ENSG00000229162 | AL445471.1 | 0.458620801 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000263551 | AP005328.1 | 0.277337063 | 0 | 6.143874414 | 0.007243 |
| ENSG00000235062 | BCRP5 | 1.48643896 | 0 | 6.143874414 | 0.007243 |
| ENSG00000183784 | C9orf66 | 0.122498064 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000275945 | EIF3FP1 | 0.466586919 | 0 | 6.143874414 | 0.007243 |
| ENSG00000145242 | EPHA5 | 0.038245607 | 0 | 6.143874414 | 0.007243 |
| ENSG00000037280 | FLT4 | 0.042484078 | 0 | 6.143874414 | 0.007243 |
| ENSG00000260459 | FTLP14 | 0.777002184 | 0 | 6.143874414 | 0.007243 |
| ENSG00000236296 | GUSBP5 | 0.189074438 | 0 | 6.143874414 | 0.007243 |
| ENSG00000269466 | H3.Y | 0.384528688 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000187601 | MAGEH1 | 0.257229177 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000231940 | RPS7P3 | 0.648394926 | 0 | 6.143874414 | 0.007243 |
| ENSG00000132026 | RTBDN | 0.140586563 | 0 | 6.143874414 | 0.007243 |
| ENSG00000139155 | SLCO1C1 | 0.077380464 | 0 | 6.143874414 | 0.007243 |
| ENSG00000184564 | SLITRK6 | 0.084056562 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000147041 | SYTL5 | 0.078494898 | 0 | 6.143874414 | 0.007243 |
| ENSG00000205116 | TMEM88B | 0.764368002 | 0 | 6.143874414 | 0.007243 |
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| ENSG00000198153 | ZNF849P | 0.240146269 | 0 | 6.143874414 | 0.007243 |
| ENSG00000204103 | MAFB | 1.970430923 | 0.026385571 | 6.143664404 | 3.40E-16 |
| ENSG00000163814 | CDCP1 | 9.253547648 | 0.130705289 | 6.141152568 | 4.01E-28 |
| ENSG00000069188 | SDK2 | 0.838805034 | 0.011569688 | 6.128271713 | 1.16E-18 |
| ENSG00000166828 | SCNN1G | 0.988934249 | 0.012763936 | 6.1178755 | 5.40E-12 |
| ENSG00000138696 | BMPR1B | 1.032720266 | 0.014183499 | 6.107168353 | 5.69E-16 |
| ENSG00000148408 | CACNA1B | 0.658636993 | 0.009045796 | 6.107168353 | 5.69E-16 |
| ENSG00000140479 | PCSK6 | 3.740143451 | 0.054098493 | 6.105215402 | 3.67E-27 |
| ENSG00000134569 | LRP4 | 0.398558446 | 0.005206831 | 6.100415397 | 6.65E-12 |
| ENSG00000138829 | FBN2 | 8.844101543 | 0.128902594 | 6.100403366 | 4.53E-30 |

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| ENSG00000144488 | ESPNL | 0.631223706 | 0.008348214 | 6.082741393 | 8.21E-12 |
| ENSG00000164736 | SOX17 | 33.72096581 | 0.496943284 | 6.08238352 | 7.89E-29 |
| ENSG00000242715 | CCDC169 | 0.37827725 | 0.005065421 | 6.064848182 | 1.02E-11 |
| ENSG00000183570 | PCBP3 | 0.48345791 | 0.006555818 | 6.046730259 | 1.26E-11 |
| ENSG00000100473 | COCH | 2.975049459 | 0.044418876 | 6.027844459 | 8.69E-20 |
| ENSG00000159921 | GNE | 4.89766979 | 0.075600611 | 6.005041979 | 3.01E-24 |
| ENSG00000124249 | KCNK15 | 2.331239077 | 0.034446419 | 6.001765722 | 2.16E-15 |
| ENSG00000135636 | DYSF | 1.734001534 | 0.026689197 | 5.992329154 | 6.92E-21 |
| ENSG00000180318 | ALX1 | 2.197712289 | 0.030977939 | 5.990969935 | 2.42E-11 |
| ENSG00000104490 | NCALD | 20.13412356 | 0.317271568 | 5.98932891 | 5.00E-30 |
| ENSG00000187017 | ESPN | 12.95276847 | 0.20604429 | 5.973365291 | 1.09E-28 |
| ENSG00000123689 | G0S2 | 9.98797726 | 0.155068552 | 5.957672872 | 1.33E-17 |
| ENSG00000154277 | UCHL1 | 2.563524586 | 0.039231483 | 5.951185483 | 4.34E-15 |
| ENSG00000175591 | P2RY2 | 11.59652146 | 0.187751648 | 5.93905221 | 1.07E-24 |
| ENSG00000143318 | CASQ1 | 1.401809699 | 0.020571288 | 5.932967522 | 4.74E-11 |
| ENSG00000170837 | GPR27 | 4.559344239 | 0.073172247 | 5.923682054 | 3.95E-19 |
| ENSG00000136490 | LIMD2 | 3.469645437 | 0.056602472 | 5.914028444 | 2.00E-21 |
| ENSG00000161405 | IKZF3 | 0.822515368 | 0.013418202 | 5.88628338 | 3.77E-17 |
| ENSG00000127533 | F2RL3 | 0.842206033 | 0.012888892 | 5.872535132 | 9.47E-11 |
| ENSG00000099769 | IGFALS | 1.237825456 | 0.018943344 | 5.872535132 | 9.47E-11 |
| ENSG00000104883 | PEX11G | 1.995212519 | 0.03053419 | 5.872535132 | 9.47E-11 |
| ENSG00000215915 | ATAD3C | 2.017808487 | 0.033774991 | 5.849218666 | 6.46E-17 |
| ENSG00000187621 | TCL6 | 0.514112114 | 0.00847305 | 5.84437252 | 1.85E-14 |
| ENSG00000165238 | WNK2 | 4.473620391 | 0.078008168 | 5.838799089 | 1.11E-26 |
| ENSG00000021300 | PLEKHB1 | 3.676238725 | 0.063519532 | 5.835168394 | 9.94E-22 |
| ENSG00000187815 | ZFP69 | 3.229109649 | 0.055126997 | 5.834574122 | 1.52E-18 |
| ENSG00000101335 | MYL9 | 30.54292785 | 0.539505901 | 5.822582259 | 8.83E-28 |
| ENSG00000009694 | TENM1 | 0.803566361 | 0.013884343 | 5.817235851 | 1.98E-18 |
| ENSG00000083814 | ZNF671 | 2.93397276 | 0.050694362 | 5.817235851 | 1.98E-18 |
| ENSG00000188883 | KLRG2 | 1.274294584 | 0.020374657 | 5.809460222 | 1.93E-10 |
| ENSG00000260401 | AP002761.4 | 5.992438936 | 0.106547151 | 5.796883657 | 3.46E-22 |
| ENSG00000203635 | AC144450.1 | 3.182925865 | 0.054555907 | 5.787846244 | 3.95E-14 |
| ENSG00000146090 | RASGEF1C | 0.93138796 | 0.015117569 | 5.787807189 | 2.45E-10 |
| ENSG00000175414 | ARL10 | 1.958180213 | 0.035157352 | 5.7851964 | 3.40E-22 |
| ENSG00000116771 | AGMAT | 4.044831633 | 0.071620995 | 5.781921388 | 3.08E-18 |
| ENSG00000112208 | BAG2 | 8.845875006 | 0.161526827 | 5.772599236 | 2.34E-26 |
| ENSG00000166394 | CYB5R2 | 1.16664823 | 0.020829745 | 5.769955157 | 3.68E-18 |
| ENSG00000166669 | ATF7IP2 | 1.183408948 | 0.021012262 | 5.764160967 | 2.21E-16 |
| ENSG00000184584 | TMEM173 | 2.593953956 | 0.04650714 | 5.763934615 | 4.03E-18 |
| ENSG00000100078 | PLA2G3 | 8.986118443 | 0.165973756 | 5.746211957 | 1.77E-22 |
| ENSG00000255690 | TRIL | 1.972849043 | 0.036282166 | 5.727274009 | 6.96E-18 |
| ENSG00000157227 | MMP14 | 5.232541885 | 0.100275811 | 5.693019401 | 4.19E-22 |
| ENSG00000127863 | TNFRSF19 | 11.18800745 | 0.218869167 | 5.673473695 | 8.60E-26 |

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| ENSG00000251322 | SHANK3 | 1.552591531 | 0.030022215 | 5.663264953 | 9.74E-19 |
| ENSG00000170500 | LONRF2 | 2.4172162 | 0.048191117 | 5.641642284 | 1.23E-23 |
| ENSG00000167476 | JSRP1 | 11.52849872 | 0.229554472 | 5.637790293 | 9.77E-22 |
| ENSG00000168389 | MFSD2A | 22.77499986 | 0.458020464 | 5.636289573 | 9.63E-27 |
| ENSG00000162804 | SNED1 | 3.603042105 | 0.072453552 | 5.632824779 | 4.47E-25 |
| ENSG00000130707 | ASS1 | 179.8829405 | 3.654431924 | 5.625138219 | 7.44E-29 |
| ENSG00000140931 | CMTM3 | 3.527257462 | 0.070760547 | 5.610243891 | 2.01E-18 |
| ENSG00000113140 | SPARC | 0.501667593 | 0.009265809 | 5.601782504 | 1.84E-09 |
| ENSG00000162444 | RBP7 | 7.765008271 | 0.155969066 | 5.586378134 | 2.44E-15 |
| ENSG00000163132 | MSX1 | 216.4959392 | 4.518541556 | 5.586098048 | 1.58E-28 |
| ENSG00000074211 | PPP2R2C | 0.490631516 | 0.009733229 | 5.577183746 | 5.29E-13 |
| ENSG00000131711 | MAP1B | 0.350693411 | 0.00708838 | 5.550249199 | 7.46E-13 |
| ENSG00000137843 | PAK6 | 1.326624966 | 0.027729981 | 5.542677083 | 9.56E-17 |
| ENSG00000092758 | COL9A3 | 10.33199433 | 0.221920043 | 5.53839837 | 1.04E-24 |
| ENSG00000105523 | FAM83E | 4.196719847 | 0.088499648 | 5.538268332 | 5.93E-18 |
| ENSG00000169071 | ROR2 | 1.465148153 | 0.030775608 | 5.535626777 | 1.06E-16 |
| ENSG00000100311 | PDGFB | 1.710970332 | 0.035705761 | 5.531281898 | 5.25E-15 |
| ENSG00000173898 | SPTBN2 | 6.630547569 | 0.14391794 | 5.524872917 | 2.08E-25 |
| ENSG00000227825 | SLC9A7P1 | 1.312499812 | 0.027039035 | 5.522802212 | 1.06E-12 |
| ENSG00000149639 | SOGA1 | 6.767210098 | 0.147947918 | 5.516548706 | 2.33E-26 |
| ENSG00000123892 | RAB38 | 15.48771315 | 0.336105353 | 5.515197127 | 2.23E-21 |
| ENSG00000151136 | BTBD11 | 0.801538177 | 0.016947169 | 5.512438771 | 6.81E-15 |
| ENSG00000187889 | FYB2 | 0.928966421 | 0.019323601 | 5.508880387 | 1.26E-12 |
| ENSG00000204161 | TMEM273 | 0.547274883 | 0.01085693 | 5.498926339 | 5.39E-09 |
| ENSG00000261150 | EPPK1 | 0.88782985 | 0.019581418 | 5.483126709 | 2.12E-19 |
| ENSG00000171310 | CHST11 | 8.946669217 | 0.199958493 | 5.482267257 | 6.45E-25 |
| ENSG00000106624 | AEBP1 | 2.049215849 | 0.045169649 | 5.474429326 | 1.54E-17 |
| ENSG00000114115 | RBP1 | 1.583673934 | 0.034389082 | 5.473997713 | 1.01E-14 |
| ENSG00000181885 | CLDN7 | 63.71778206 | 1.437018362 | 5.472973025 | 8.25E-27 |
| ENSG00000176771 | NCKAP5 | 0.231849758 | 0.004686256 | 5.472024214 | 5.39E-09 |
| ENSG00000205078 | SYCE1L | 1.780248304 | 0.035983217 | 5.472024214 | 5.39E-09 |
| ENSG00000123612 | ACVR1C | 0.231762696 | 0.004868202 | 5.416666575 | 9.38E-09 |
| ENSG00000204175 | GPRIN2 | 1.082854669 | 0.022745489 | 5.416666575 | 9.38E-09 |
| ENSG00000073282 | TP63 | 0.285894552 | 0.006005248 | 5.416666575 | 9.38E-09 |
| ENSG00000146904 | EPHA1 | 3.602041815 | 0.085118973 | 5.388953098 | 1.51E-19 |
| ENSG00000136574 | GATA4 | 2.153695301 | 0.050374884 | 5.388867444 | 5.00E-17 |
| ENSG00000182759 | MAFA | 0.834374017 | 0.017876646 | 5.388170279 | 1.24E-08 |
| ENSG00000120278 | PLEKHG1 | 2.196029615 | 0.052181607 | 5.385651477 | 6.52E-21 |
| ENSG00000166582 | CENPV | 11.72314035 | 0.279769512 | 5.384106513 | 1.33E-22 |
| ENSG00000140873 | ADAMTS18 | 3.929509296 | 0.093843023 | 5.380404484 | 1.48E-21 |
| ENSG00000132561 | MATN2 | 4.032088065 | 0.096847949 | 5.37291597 | 8.39E-22 |
| ENSG00000154237 | LRRK1 | 0.949669335 | 0.022890233 | 5.360393073 | 2.36E-19 |
| ENSG00000148346 | LCN2 | 12.65591875 | 0.308131628 | 5.349293779 | 2.86E-20 |

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| ENSG00000131127 | ZNF141 | 5.361399236 | 0.132481385 | 5.333334127 | 4.83E-22 |
| ENSG00000121552 | CSTA | 1.460816924 | 0.032602419 | 5.329431396 | 2.21E-08 |
| ENSG00000171291 | ZNF439 | 0.385193324 | 0.00859672 | 5.329431396 | 2.21E-08 |
| ENSG00000151692 | RNF144A | 3.072744409 | 0.076068954 | 5.325254771 | 4.18E-20 |
| ENSG00000180787 | ZFP3 | 2.785161624 | 0.068786972 | 5.322936464 | 4.86E-19 |
| ENSG00000161267 | BDH1 | 10.98507132 | 0.275042224 | 5.321270743 | 3.25E-25 |
| ENSG00000162390 | ACOT11 | 1.296170309 | 0.032078404 | 5.316976624 | 2.36E-18 |
| ENSG00000158156 | XKR8 | 4.600512624 | 0.114233268 | 5.312209414 | 2.54E-18 |
| ENSG00000160352 | ZNF714 | 9.27987603 | 0.234040971 | 5.309787028 | 1.70E-24 |
| ENSG00000228477 | AL663070.1 | 2.708849911 | 0.061742237 | 5.299140083 | 2.95E-08 |
| ENSG00000196415 | PRTN3 | 1.713713949 | 0.039060316 | 5.299140083 | 2.95E-08 |
| ENSG00000076706 | MCAM | 1.199178255 | 0.030155701 | 5.284434337 | 2.31E-16 |
| ENSG00000274209 | ANTXRL | 1.185785123 | 0.028870121 | 5.282119296 | 2.08E-11 |
| ENSG00000138744 | NAAA | 4.713631247 | 0.120465903 | 5.280607286 | 3.32E-20 |
| ENSG00000196440 | ARMCX4 | 0.143969046 | 0.003352792 | 5.268199099 | 3.96E-08 |
| ENSG00000185271 | KLHL33 | 0.349414785 | 0.00813727 | 5.268199099 | 3.96E-08 |
| ENSG00000156966 | B3GNT7 | 1.855423326 | 0.047044794 | 5.264269827 | 4.54E-15 |
| ENSG00000187699 | C2orf88 | 2.034575892 | 0.052249767 | 5.263650346 | 5.30E-18 |
| ENSG00000175352 | NRIP3 | 1.672228808 | 0.04342772 | 5.229739302 | 7.34E-15 |
| ENSG00000156711 | MAPK13 | 10.60747791 | 0.286105823 | 5.213261176 | 4.96E-24 |
| ENSG00000066056 | TIE1 | 0.274657878 | 0.006687051 | 5.204252284 | 7.22E-08 |
| ENSG00000069482 | GAL | 6.46067354 | 0.172165854 | 5.200828581 | 6.99E-16 |
| ENSG00000134330 | IAH1 | 4.187032303 | 0.113650445 | 5.19654314 | 1.32E-20 |
| ENSG00000124097 | HMGB1P1 | 5.38743233 | 0.140764534 | 5.180394317 | 5.69E-11 |
| ENSG00000144857 | BOC | 0.796876457 | 0.021666564 | 5.171847513 | 1.06E-15 |
| ENSG00000111319 | SCNN1A | 32.8537751 | 0.914154975 | 5.170621082 | 3.87E-25 |
| ENSG00000137198 | GMPR | 1.516407487 | 0.040110324 | 5.162720313 | 6.99E-11 |
| ENSG00000116663 | FBXO6 | 7.983305335 | 0.222456156 | 5.151237758 | 5.28E-18 |
| ENSG00000236830 | CBR3-AS1 | 0.207470024 | 0.005291775 | 5.137339061 | 1.33E-07 |
| ENSG00000149527 | PLCH2 | 12.68175446 | 0.361227308 | 5.136314029 | 1.49E-24 |
| ENSG00000143375 | CGN | 3.309488543 | 0.094722447 | 5.119265588 | 8.47E-20 |
| ENSG00000158014 | SLC30A2 | 0.931751046 | 0.025593552 | 5.108360826 | 1.31E-10 |
| ENSG00000168918 | INPP5D | 0.197350937 | 0.005156448 | 5.10268147 | 1.83E-07 |
| ENSG00000168404 | MLKL | 0.300984449 | 0.007864217 | 5.10268147 | 1.83E-07 |
| ENSG00000128408 | RIBC2 | 6.814596928 | 0.197303017 | 5.093690422 | 1.40E-17 |
| ENSG00000125458 | NT5C | 3.989699309 | 0.113973576 | 5.092348569 | 4.87E-14 |
| ENSG00000196507 | TCEAL3 | 2.71922673 | 0.077680038 | 5.092348569 | 4.87E-14 |
| ENSG00000154548 | SRSF12 | 1.359772804 | 0.0393695 | 5.073000009 | 5.55E-14 |
| ENSG00000100321 | SYNGR1 | 0.673086507 | 0.019313874 | 5.072303375 | 1.77E-12 |
| ENSG00000158258 | CLSTN2 | 0.11451206 | 0.003066807 | 5.067170771 | 2.51E-07 |
| ENSG00000134874 | DZIP1 | 0.197333888 | 0.005284902 | 5.067170771 | 2.51E-07 |
| ENSG00000181444 | ZNF467 | 12.07406953 | 0.360200689 | 5.063853603 | 3.81E-21 |
| ENSG00000142694 | EVA1B | 13.59493608 | 0.406601438 | 5.05257024 | 2.51E-18 |

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| ENSG00000152578 | GRIA4 | 1.18937066 | 0.035515717 | 5.049163707 | 2.73E-17 |
| ENSG00000161921 | CXCL16 | 5.309175025 | 0.160211603 | 5.038181556 | 8.65E-18 |
| ENSG00000107731 | UNC5B | 0.451998736 | 0.013086719 | 5.03254083 | 3.11E-10 |
| ENSG00000188959 | C9orf152 | 0.552980176 | 0.015189386 | 5.030763901 | 3.45E-07 |
| ENSG00000175538 | KCNE3 | 174.0170268 | 5.356479103 | 5.025972402 | 8.49E-25 |
| ENSG00000138646 | HERC5 | 2.156781554 | 0.065745248 | 5.016459511 | 1.96E-16 |
| ENSG00000123609 | NMI | 1.705038508 | 0.051451864 | 5.013346891 | 1.24E-13 |
| ENSG00000144369 | FAM171B | 2.001054027 | 0.061466697 | 5.008396692 | 5.02E-17 |
| ENSG00000114646 | CSPG5 | 13.7338804 | 0.430611801 | 4.995747539 | 2.62E-22 |
| ENSG00000258982 | AL133523.1 | 9.08928234 | 0.270472036 | 4.993082259 | 4.85E-10 |
| ENSG00000111490 | TBC1D30 | 2.271873837 | 0.072005022 | 4.972984446 | 4.01E-19 |
| ENSG00000074181 | NOTCH3 | 2.522072661 | 0.081006288 | 4.955094 | 1.72E-19 |
| ENSG00000018236 | CNTN1 | 0.390413982 | 0.011949579 | 4.952514051 | 7.62E-10 |
| ENSG00000139626 | ITGB7 | 0.652751965 | 0.019979077 | 4.952514051 | 7.62E-10 |
| ENSG00000129116 | PALLD | 9.812185639 | 0.318661734 | 4.946691761 | 6.35E-23 |
| ENSG00000172572 | PDE3A | 0.671711819 | 0.021320849 | 4.940483318 | 3.27E-13 |
| ENSG00000072609 | CHFR | 2.878894838 | 0.094089589 | 4.93521415 | 1.05E-21 |
| ENSG00000112619 | PRPH2 | 1.418121817 | 0.045124115 | 4.923340836 | 1.14E-11 |
| ENSG00000188681 | TEKT4P2 | 0.651483858 | 0.019386367 | 4.9156833 | 9.27E-07 |
| ENSG00000268357 | VN1R81P | 7.638200676 | 0.240661946 | 4.910771989 | 1.21E-09 |
| ENSG00000212864 | RNF208 | 5.95896863 | 0.194622269 | 4.907537807 | 3.85E-14 |
| ENSG00000122691 | TWIST1 | 4.686218777 | 0.154127818 | 4.906894761 | 8.85E-16 |
| ENSG00000180066 | C10orf91 | 13.78510214 | 0.460796844 | 4.899387218 | 6.94E-20 |
| ENSG00000145808 | ADAMTS19 | 1.012184551 | 0.033108818 | 4.897132809 | 5.79E-13 |
| ENSG00000279662 | AC131649.2 | 0.630688263 | 0.020168111 | 4.889439142 | 1.52E-09 |
| ENSG00000204967 | PCDHA4 | 0.208305446 | 0.006661179 | 4.889439142 | 1.52E-09 |
| ENSG00000100053 | CRYBB3 | 1.686840573 | 0.051629898 | 4.875188603 | 1.30E-06 |
| ENSG00000197837 | HIST4H4 | 0.567296655 | 0.017363507 | 4.875188603 | 1.30E-06 |
| ENSG00000205363 | INSYN1 | 0.222499738 | 0.006810151 | 4.875188603 | 1.30E-06 |
| ENSG00000184988 | TMEM106A | 0.408859596 | 0.012514152 | 4.875188603 | 1.30E-06 |
| ENSG00000213976 | AC010615.1 | 3.055738746 | 0.101503678 | 4.874959085 | 7.74E-13 |
| ENSG00000142156 | COL6A1 | 18.77725384 | 0.645098333 | 4.86569431 | 1.80E-22 |
| ENSG00000078900 | TP73 | 0.599318161 | 0.019856479 | 4.865118143 | 2.33E-11 |
| ENSG00000158220 | ESYT3 | 0.800291844 | 0.027361321 | 4.847083209 | 1.14E-14 |
| ENSG00000135083 | CCNLJ | 0.29493477 | 0.009721603 | 4.845803134 | 2.44E-09 |
| ENSG00000188060 | RAB42 | 1.215576749 | 0.040693747 | 4.823480005 | 3.10E-09 |
| ENSG00000145087 | STXBP5L | 0.241251137 | 0.008076341 | 4.823480005 | 3.10E-09 |
| ENSG00000185442 | FAM174B | 3.822332408 | 0.134568114 | 4.820633955 | 7.34E-18 |
| ENSG00000133401 | PDZD2 | 1.621516981 | 0.057234525 | 4.820483801 | 3.43E-19 |
| ENSG00000137648 | TMPRSS4 | 3.028479091 | 0.107993057 | 4.807149096 | 1.07E-19 |
| ENSG00000198553 | KCNRG | 1.619989783 | 0.055093073 | 4.800806029 | 3.95E-09 |
| ENSG00000170577 | SIX2 | 3.44895784 | 0.121804413 | 4.800321636 | 2.19E-14 |
| ENSG00000138395 | CDK15 | 0.224543214 | 0.007289224 | 4.790621007 | 2.59E-06 |

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| ENSG00000054219 | LY75 | 0.156731061 | 0.005087875 | 4.790621007 | 2.59E-06 |
| ENSG0000005513 | SOX8 | 0.311128131 | 0.010099982 | 4.790621007 | 2.59E-06 |
| ENSG00000058404 | CAMK2B | 0.471168215 | 0.016459047 | 4.788871471 | 5.87E-11 |
| ENSG00000176788 | BASP1 | 41.65351654 | 1.514314004 | 4.784019523 | 7.30E-22 |
| ENSG00000140511 | HAPLN3 | 38.34680697 | 1.397259766 | 4.781464073 | 2.65E-22 |
| ENSG00000255725 | TDGP1 | 2.107972292 | 0.072844788 | 4.777770003 | 5.04E-09 |
| ENSG00000160183 | TMPRSS3 | 0.877691947 | 0.031341237 | 4.770730602 | 2.99E-12 |
| ENSG00000109255 | NMU | 13.71419922 | 0.505019838 | 4.752555795 | 2.09E-16 |
| ENSG00000159164 | SV2A | 1.767046425 | 0.064954779 | 4.746526139 | 7.98E-15 |
| ENSG00000262920 | AC129507.4 | 3.095218575 | 0.103618338 | 4.746402569 | 3.68E-06 |
| ENSG00000236155 | AL355877.1 | 0.419033038 | 0.014027929 | 4.746402569 | 3.68E-06 |
| ENSG00000254851 | AP005018.2 | 1.626684214 | 0.054456353 | 4.746402569 | 3.68E-06 |
| ENSG00000163071 | SPATA18 | 0.270620203 | 0.009059527 | 4.746402569 | 3.68E-06 |
| ENSG00000101972 | STAG2 | 44.00563777 | 1.645743216 | 4.7448764 | 1.04E-22 |
| ENSG00000129654 | FOXJ1 | 4.113675576 | 0.15254377 | 4.739155324 | 1.98E-15 |
| ENSG00000160097 | FNDC5 | 0.798702468 | 0.028520626 | 4.730564214 | 8.28E-09 |
| ENSG00000256802 | AC022613.1 | 1.771605368 | 0.065443161 | 4.721874465 | 4.77E-12 |
| ENSG00000250182 | EEF1A1P13 | 18.6515331 | 0.708991133 | 4.7143338 | 8.44E-19 |
| ENSG00000276573 | AL442067.1 | 5.808739792 | 0.200731489 | 4.700785872 | 5.25E-06 |
| ENSG00000131746 | TNS4 | 0.26724757 | 0.009235222 | 4.700785872 | 5.25E-06 |
| ENSG00000100593 | ISM2 | 1.992673396 | 0.075851332 | 4.696185038 | 1.62E-14 |
| ENSG00000177359 | AC024940.1 | 0.330709621 | 0.012430748 | 4.656726656 | 1.77E-08 |
| ENSG00000182379 | NXPH4 | 25.16844592 | 0.999362723 | 4.655535553 | 2.76E-20 |
| ENSG00000170324 | FRMPD2 | 0.142596237 | 0.005091926 | 4.653679589 | 7.53E-06 |
| ENSG00000168675 | LDLRAD4 | 0.074799423 | 0.00267099 | 4.653679589 | 7.53E-06 |
| ENSG00000196659 | TTC30B | 3.91120973 | 0.156007893 | 4.640571309 | 1.07E-16 |
| ENSG00000112852 | PCDHB2 | 4.324378932 | 0.173584574 | 4.632915281 | 3.57E-17 |
| ENSG00000128274 | A4GALT | 2.293477925 | 0.091970019 | 4.621078205 | 4.63E-14 |
| ENSG00000163520 | FBLN2 | 0.937828072 | 0.037209578 | 4.618899772 | 1.73E-11 |
| ENSG00000131459 | GFPT2 | 5.481062265 | 0.224752077 | 4.605654001 | 2.31E-18 |
| ENSG00000172379 | ARNT2 | 0.437233111 | 0.017347806 | 4.605434043 | 4.13E-10 |
| ENSG00000196872 | KIAA1211L | 0.488459042 | 0.019027895 | 4.605314906 | 2.98E-08 |
| ENSG00000257446 | ZNF878 | 1.325374736 | 0.051629898 | 4.605314906 | 2.98E-08 |
| ENSG00000205642 | VCX3B | 1.031300487 | 0.038096274 | 4.604983144 | 1.09E-05 |
| ENSG00000176532 | PRR15 | 4.975462351 | 0.20326342 | 4.599503374 | 1.35E-14 |
| ENSG00000122592 | HOXA7 | 3.63954569 | 0.148529646 | 4.59874013 | 1.49E-14 |
| ENSG00000140807 | NKD1 | 0.810529834 | 0.033395729 | 4.592882951 | 4.28E-16 |
| ENSG00000121690 | DEPDC7 | 1.33170709 | 0.053834182 | 4.591965225 | 2.41E-11 |
| ENSG00000111058 | ACSS3 | 2.331640424 | 0.09703215 | 4.58591357 | 5.72E-19 |
| ENSG00000167363 | FN3K | 3.906594312 | 0.161850131 | 4.585847495 | 2.30E-16 |
| ENSG00000144015 | TRIM43 | 1.341506743 | 0.053226067 | 4.578905259 | 3.88E-08 |
| ENSG00000275183 | LENG9 | 2.835129749 | 0.116813993 | 4.572650384 | 2.94E-12 |
| ENSG00000248144 | ADH1C | 0.629028291 | 0.024066195 | 4.554585416 | 1.58E-05 |

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| ENSG00000204128 | C2orf72 | 0.303815274 | 0.011623766 | 4.554585416 | 1.58E-05 |
| ENSG00000108375 | RNF43 | 0.851855292 | 0.03578664 | 4.550108663 | 5.95E-13 |
| ENSG00000115457 | IGFBP2 | 45.19525574 | 1.934382866 | 4.549972678 | 3.54E-21 |
| ENSG00000163577 | EIF5A2 | 5.065355912 | 0.216092311 | 4.549330152 | 2.46E-18 |
| ENSG00000174307 | PHLDA3 | 2.024024383 | 0.085589143 | 4.540656336 | 6.75E-13 |
| ENSG00000121207 | LRAT | 0.563622848 | 0.023677928 | 4.536538935 | 4.75E-11 |
| ENSG00000143217 | NECTIN4 | 0.918754914 | 0.038346478 | 4.532489839 | 9.42E-10 |
| ENSG00000106633 | GCK | 0.527133294 | 0.021719128 | 4.524589814 | 5.07E-08 |
| ENSG00000235863 | B3GALT4 | 1.791311768 | 0.075998509 | 4.522343132 | 5.64E-11 |
| ENSG00000186469 | GNG2 | 0.661597512 | 0.028069053 | 4.522343132 | 5.64E-11 |
| ENSG00000166813 | KIF7 | 1.044427383 | 0.044754171 | 4.516124107 | 6.09E-12 |
| ENSG00000100197 | CYP2D6 | 1.299915783 | 0.05496904 | 4.513662586 | 1.16E-09 |
| ENSG00000170745 | KCNS3 | 1.988512348 | 0.085780496 | 4.511921994 | 9.89E-13 |
| ENSG00000125841 | NRSN2 | 2.122752186 | 0.091571337 | 4.511921994 | 9.89E-13 |
| ENSG00000254165 | AC090739.1 | 1.593512953 | 0.063224749 | 4.502363216 | 2.30E-05 |
| ENSG00000123119 | NECAB1 | 0.176062293 | 0.006985506 | 4.502363216 | 2.30E-05 |
| ENSG00000156535 | CD109 | 2.486110442 | 0.109825693 | 4.498230675 | 1.14E-17 |
| ENSG00000165591 | FAAH2 | 10.03761447 | 0.443418742 | 4.4968492 | 4.40E-17 |
| ENSG00000198435 | NRARP | 55.78475714 | 2.478410142 | 4.495241191 | 3.48E-20 |
| ENSG00000169981 | ZNF35 | 5.319289451 | 0.235329969 | 4.491177967 | 9.40E-16 |
| ENSG00000128641 | MYO1B | 7.670674376 | 0.342778549 | 4.486280749 | 8.73E-20 |
| ENSG00000106605 | BLVRA | 13.53839426 | 0.614540389 | 4.459317716 | 1.58E-17 |
| ENSG00000162782 | TDRD5 | 0.255268261 | 0.010517651 | 4.448179468 | 3.37E-05 |
| ENSG00000182040 | USH1G | 0.305346183 | 0.012580979 | 4.448179468 | 3.37E-05 |
| ENSG00000127831 | VIL1 | 0.156997358 | 0.006468659 | 4.448179468 | 3.37E-05 |
| ENSG00000129757 | CDKN1C | 4.36740587 | 0.198706353 | 4.447573012 | 1.55E-14 |
| ENSG00000159184 | HOXB13 | 2.832299085 | 0.129111976 | 4.443291081 | 4.03E-14 |
| ENSG00000183196 | CHST6 | 3.945865072 | 0.181752815 | 4.440102981 | 2.64E-18 |
| ENSG00000180535 | BHLHA15 | 4.974458424 | 0.224376551 | 4.434103576 | 1.63E-10 |
| ENSG00000047457 | CP | 1.592153963 | 0.073623556 | 4.425433357 | 9.61E-15 |
| ENSG00000198626 | RYR2 | 0.597035748 | 0.027698394 | 4.41946356 | 2.31E-14 |
| ENSG00000050030 | NEXMIF | 0.168986573 | 0.007542863 | 4.409410316 | 1.52E-07 |
| ENSG00000085563 | ABCB1 | 0.669315694 | 0.030839216 | 4.403448884 | 2.34E-10 |
| ENSG00000147036 | LANCL3 | 0.101440694 | 0.004346778 | 4.391881045 | 4.96E-05 |
| ENSG00000204710 | SPDYC | 1.054123379 | 0.045169649 | 4.391881045 | 4.96E-05 |
| ENSG00000168032 | ENTPD3 | 0.797785308 | 0.037158098 | 4.374507713 | 5.33E-09 |
| ENSG00000184828 | ZBTB7C | 0.376986938 | 0.017558756 | 4.374507713 | 5.33E-09 |
| ENSG00000196268 | ZNF493 | 1.736402716 | 0.083826071 | 4.369233576 | 2.05E-16 |
| ENSG00000110723 | EXPH5 | 4.077193295 | 0.198158245 | 4.363955298 | 2.51E-18 |
| ENSG00000165568 | AKR1E2 | 1.175593981 | 0.05556035 | 4.353485719 | 6.68E-09 |
| ENSG00000136859 | ANGPTL2 | 0.730627578 | 0.034530565 | 4.353485719 | 6.68E-09 |
| ENSG00000182218 | HHIPL1 | 0.362609833 | 0.017137489 | 4.353485719 | 6.68E-09 |
| ENSG00000094755 | GABRP | 0.41595558 | 0.019373781 | 4.348178019 | 2.67E-07 |

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| ENSG00000109472 | CPE | 64.69823004 | 3.193042168 | 4.344493946 | 8.62E-20 |
| ENSG00000167608 | TMC4 | 6.222784306 | 0.306997244 | 4.337946208 | 3.14E-16 |
| ENSG00000279970 | AC023024.2 | 0.503186562 | 0.022460172 | 4.333296156 | 7.35E-05 |
| ENSG00000174990 | CA5A | 0.123200346 | 0.005499155 | 4.333296156 | 7.35E-05 |
| ENSG00000226453 | LINC02542 | 1.220013161 | 0.054456353 | 4.333296156 | 7.35E-05 |
| ENSG00000122574 | WIPF3 | 0.165350506 | 0.007380564 | 4.333296156 | 7.35E-05 |
| ENSG00000091428 | RAPGEF4 | 0.392709384 | 0.018837055 | 4.332152872 | 8.38E-09 |
| ENSG00000157992 | KRTCAP3 | 9.619886383 | 0.478579351 | 4.322742072 | 5.51E-15 |
| ENSG00000105810 | CDK6 | 9.669276003 | 0.485603199 | 4.31886981 | 2.74E-19 |
| ENSG00000185306 | C12orf56 | 0.827509835 | 0.040664173 | 4.318742628 | 6.16E-11 |
| ENSG00000259803 | SLC22A31 | 0.720438806 | 0.034301243 | 4.316558884 | 3.56E-07 |
| ENSG00000169964 | TMEM42 | 3.161487742 | 0.158530052 | 4.307355077 | 1.04E-13 |
| ENSG00000189334 | S100A14 | 37.17170874 | 1.892880647 | 4.297044202 | 4.04E-18 |
| ENSG00000162676 | GFI1 | 2.683585447 | 0.135604732 | 4.294780527 | 3.20E-13 |
| ENSG00000005961 | ITGA2B | 0.647369621 | 0.032255898 | 4.290717608 | 8.72E-10 |
| ENSG00000230445 | LRRC37A6P | 0.326855081 | 0.015915777 | 4.284231203 | 4.77E-07 |
| ENSG00000196549 | MME | 0.191118486 | 0.009306262 | 4.284231203 | 4.77E-07 |
| ENSG00000101417 | PXMP4 | 14.90199284 | 0.766518601 | 4.283910179 | 9.33E-19 |
| ENSG00000226054 | MEMO1P1 | 5.976072349 | 0.302453527 | 4.2816545 | 1.71E-11 |
| ENSG00000164099 | PRSS12 | 0.773669481 | 0.03909443 | 4.278527062 | 1.00E-10 |
| ENSG00000223572 | CKMT1A | 0.309123631 | 0.014397916 | 4.272231189 | 0.00011 |
| ENSG00000169429 | CXCL8 | 0.422632088 | 0.01968475 | 4.272231189 | 0.00011 |
| ENSG00000197061 | HIST1H4C | 2.209345672 | 0.102903729 | 4.272231189 | 0.00011 |
| ENSG00000189431 | RASSF10 | 0.379867734 | 0.017692934 | 4.272231189 | 0.00011 |
| ENSG00000257591 | ZNF625 | 0.436055067 | 0.020309946 | 4.272231189 | 0.00011 |
| ENSG00000140848 | CPNE2 | 7.652521184 | 0.396948389 | 4.271073847 | 3.01E-18 |
| ENSG00000167895 | TMC8 | 4.722773973 | 0.245996274 | 4.261982681 | 9.39E-17 |
| ENSG00000171243 | SOSTDC1 | 5.221069262 | 0.271511051 | 4.258840861 | 1.39E-14 |
| ENSG00000249790 | AC092490.1 | 0.788404731 | 0.039283126 | 4.251162493 | 6.40E-07 |
| ENSG00000248774 | AC097534.1 | 3.44870323 | 0.171835401 | 4.251162493 | 6.40E-07 |
| ENSG00000166446 | CDYL2 | 0.209977139 | 0.01046234 | 4.251162493 | 6.40E-07 |
| ENSG00000157833 | GAREM2 | 0.302538202 | 0.015074296 | 4.251162493 | 6.40E-07 |
| ENSG00000188906 | LRRK2 | 0.133183188 | 0.006635998 | 4.251162493 | 6.40E-07 |
| ENSG00000065989 | PDE4A | 2.187983278 | 0.114500914 | 4.251039235 | 5.55E-15 |
| ENSG00000171124 | FUT3 | 0.846729945 | 0.043193749 | 4.24351976 | 2.12E-08 |
| ENSG00000223652 | AC106786.1 | 5.858156332 | 0.307197896 | 4.234361307 | 6.54E-12 |
| ENSG00000197479 | PCDHB11 | 2.209711784 | 0.117292602 | 4.225300383 | 3.24E-13 |
| ENSG00000164932 | CTHRC1 | 1.458726322 | 0.075613382 | 4.220483733 | 2.69E-08 |
| ENSG00000139597 | N4BP2L1 | 0.289937045 | 0.014790392 | 4.21731798 | 8.61E-07 |
| ENSG00000197744 | PTMAP2 | 96.22154257 | 5.201830687 | 4.209490208 | 8.38E-17 |
| ENSG00000107099 | DOCK8 | 0.066691811 | 0.00324747 | 4.208466847 | 0.000164 |
| ENSG00000162669 | HFM1 | 0.157762127 | 0.007682019 | 4.208466847 | 0.000164 |
| ENSG00000249839 | AC011330.1 | 1.033334176 | 0.055348528 | 4.186543129 | 2.33E-09 |

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| ENSG00000186889 | TMEM17 | 0.840753536 | 0.045033322 | 4.173277945 | 4.35E-08 |
| ENSG00000176170 | SPHK1 | 0.747520519 | 0.040546306 | 4.168425205 | 2.84E-09 |
| ENSG00000126778 | SIX1 | 2.655724828 | 0.148004444 | 4.160830975 | 1.28E-14 |
| ENSG00000183779 | ZNF703 | 35.65924702 | 2.004917377 | 4.156121337 | 2.55E-18 |
| ENSG00000283429 | MIR1244-3 | 38.34429599 | 2.106499857 | 4.150076853 | 3.48E-09 |
| ENSG00000198944 | SOWAHA | 1.015031193 | 0.05576222 | 4.150076853 | 3.48E-09 |
| ENSG00000166444 | ST5 | 6.114586715 | 0.345249153 | 4.149606646 | 5.21E-18 |
| ENSG00000213145 | CRIP1 | 0.992089173 | 0.054039986 | 4.149082899 | 5.56E-08 |
| ENSG00000186019 | AC021092.1 | 0.479190949 | 0.025666928 | 4.14714969 | 1.58E-06 |
| ENSG00000165309 | ARMC3 | 0.125374263 | 0.006395645 | 4.141753396 | 0.000248 |
| ENSG00000183813 | CCR4 | 0.283520021 | 0.014463044 | 4.141753396 | 0.000248 |
| ENSG00000232046 | LINC01798 | 0.546045094 | 0.027855085 | 4.141753396 | 0.000248 |
| ENSG00000136274 | NACAD | 0.178461352 | 0.009103747 | 4.141753396 | 0.000248 |
| ENSG00000189212 | DPY19L2P1 | 0.388960313 | 0.02164561 | 4.131492135 | 4.27E-09 |
| ENSG00000132386 | SERPINF1 | 11.72279997 | 0.670936334 | 4.127984052 | 1.06E-16 |
| ENSG00000259439 | LINC01833 | 1.21946176 | 0.069364342 | 4.113330281 | 1.19E-10 |
| ENSG00000187391 | MAGI2 | 0.051686783 | 0.002839489 | 4.110742821 | 2.15E-06 |
| ENSG00000120324 | PCDHB10 | 0.495329052 | 0.027211624 | 4.110742821 | 2.15E-06 |
| ENSG00000197935 | ZNF311 | 0.513108495 | 0.028188364 | 4.110742821 | 2.15E-06 |
| ENSG00000165810 | BTNL9 | 0.42799114 | 0.024131063 | 4.099440386 | 9.12E-08 |
| ENSG00000188613 | NANOS1 | 0.780161515 | 0.044573684 | 4.09358868 | 6.45E-09 |
| ENSG00000121413 | ZSCAN18 | 0.925547483 | 0.053886026 | 4.090555636 | 4.61E-12 |
| ENSG00000189409 | MMP23B | 1.709655486 | 0.098467052 | 4.09001072 | 9.37E-10 |
| ENSG00000131979 | GCH1 | 13.15441672 | 0.773608682 | 4.089140998 | 1.20E-16 |
| ENSG00000128683 | GAD1 | 0.562749943 | 0.032586597 | 4.08759685 | 1.63E-10 |
| ENSG00000178078 | STAP2 | 12.35737481 | 0.728250357 | 4.085707851 | 2.22E-16 |
| ENSG00000124126 | PREX1 | 14.65571132 | 0.865836121 | 4.084634768 | 8.46E-18 |
| ENSG00000113580 | NR3C1 | 1.73118963 | 0.102488613 | 4.074993468 | 1.39E-14 |
| ENSG00000225067 | RPL23AP2 | 6.635457846 | 0.384232807 | 4.074256857 | 7.95E-09 |
| ENSG00000273523 | AL139082.1 | 0.681615276 | 0.039117205 | 4.073963512 | 1.17E-07 |
| ENSG00000165028 | NIPSNAP3B | 0.729039086 | 0.041104795 | 4.073393375 | 2.93E-06 |
| ENSG00000138075 | ABCG5 | 0.224652961 | 0.012033097 | 4.07180476 | 0.000377 |
| ENSG00000138670 | RASGEF1B | 0.816586929 | 0.048354546 | 4.067606046 | 2.53E-12 |
| ENSG00000184226 | PCDH9 | 3.315126733 | 0.198182126 | 4.067525507 | 1.22E-17 |
| ENSG00000231806 | PCAT7 | 2.675288006 | 0.159218422 | 4.067382877 | 1.55E-14 |
| ENSG00000198121 | LPAR1 | 3.586777091 | 0.215259062 | 4.054926177 | 2.56E-14 |
| ENSG00000111859 | NEDD9 | 4.719468808 | 0.285197997 | 4.050664586 | 7.52E-17 |
| ENSG00000275496 | CU633906.1 | 2.07620551 | 0.124428414 | 4.044781192 | 2.04E-11 |
| ENSG00000274267 | HIST1H3B | 3.761707246 | 0.217825411 | 4.035051245 | 4.01E-06 |
| ENSG00000167676 | PLIN4 | 1.021822004 | 0.061960643 | 4.030125223 | 9.28E-12 |
| ENSG00000008735 | MAPK8IP2 | 2.726215649 | 0.166885051 | 4.02710735 | 1.97E-14 |
| ENSG00000121310 | ECHDC2 | 4.578633906 | 0.282380565 | 4.021521026 | 1.07E-16 |
| ENSG00000100100 | PIK3IP1 | 4.95275645 | 0.30587153 | 4.015511006 | 7.83E-15 |

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| ENSG00000272320 | AL445309.1 | 0.399157147 | 0.02250534 | 3.998291102 | 0.000575 |
| ENSG00000238186 | AL603839.2 | 1.454072462 | 0.08198374 | 3.998291102 | 0.000575 |
| ENSG00000212712 | AP002414.1 | 0.692173988 | 0.039026262 | 3.998291102 | 0.000575 |
| ENSG0000018625 | ATP1A2 | 0.126059632 | 0.007107514 | 3.998291102 | 0.000575 |
| ENSG00000204882 | GPR20 | 0.524041957 | 0.029546615 | 3.998291102 | 0.000575 |
| ENSG00000174498 | IGDCC3 | 0.14299776 | 0.008062522 | 3.998291102 | 0.000575 |
| ENSG00000170965 | PLAC1 | 0.414365117 | 0.023362799 | 3.998291102 | 0.000575 |
| ENSG00000253731 | PCDHGA6 | 0.279978368 | 0.016977164 | 3.994716865 | 2.53E-07 |
| ENSG00000172818 | OVOL1 | 0.759932853 | 0.046519223 | 3.994230078 | 1.87E-08 |
| ENSG00000175318 | GRAMD2A | 1.441166539 | 0.089759619 | 3.993329007 | 1.49E-11 |
| ENSG00000188921 | HACD4 | 1.931298697 | 0.122276885 | 3.979385026 | 1.66E-14 |
| ENSG00000134824 | FADS2 | 34.13779616 | 2.176041481 | 3.975844199 | 1.27E-17 |
| ENSG00000100767 | PAPLN | 0.830390176 | 0.052327328 | 3.97467601 | 1.90E-11 |
| ENSG00000135378 | PRRG4 | 7.238781524 | 0.461392035 | 3.973376504 | 4.21E-16 |
| ENSG0000030419 | IKZF2 | 1.891269585 | 0.120684888 | 3.969655476 | 3.92E-15 |
| ENSG00000115850 | LCT | 0.32991853 | 0.020390125 | 3.967303545 | 2.53E-07 |
| ENSG00000124191 | TOX2 | 0.674167992 | 0.041665953 | 3.967303545 | 2.53E-07 |
| ENSG0000010030 | ETV7 | 0.616044977 | 0.037711139 | 3.955167523 | 7.63E-06 |
| ENSG00000054179 | ENTPD2 | 3.967475385 | 0.255012089 | 3.953304305 | 9.00E-13 |
| ENSG00000158050 | DUSP2 | 2.16280801 | 0.139015907 | 3.937221526 | 9.72E-10 |
| ENSG00000253846 | PCDHGA10 | 1.648018681 | 0.107814233 | 3.928520619 | 7.41E-13 |
| ENSG00000267260 | AC020928.1 | 0.366896641 | 0.021835669 | 3.920829424 | 0.000575 |
| ENSG00000183831 | ANKRD45 | 0.258377916 | 0.015377232 | 3.920829424 | 0.000575 |
| ENSG00000163508 | EOMES | 0.205727055 | 0.012243742 | 3.920829424 | 0.000575 |
| ENSG00000140795 | MYLK3 | 0.07898951 | 0.004701021 | 3.920829424 | 0.000575 |
| ENSG00000095627 | TDRD1 | 0.143100859 | 0.008516576 | 3.920829424 | 0.000575 |
| ENSG00000206538 | VGLL3 | 0.05915826 | 0.003520774 | 3.920829424 | 0.000575 |
| ENSG00000219665 | ZNF433-AS1 | 1.837424745 | 0.121597615 | 3.911914135 | 9.32E-13 |
| ENSG00000135547 | HEY2 | 0.762230039 | 0.048992837 | 3.910862929 | 4.27E-07 |
| ENSG00000160111 | CPAMD8 | 0.331858173 | 0.021944858 | 3.890998176 | 7.31E-09 |
| ENSG00000128606 | LRRC17 | 1.015727113 | 0.066960541 | 3.887519161 | 5.64E-08 |
| ENSG00000181392 | SYNE4 | 3.921505237 | 0.2647661 | 3.882375328 | 2.19E-12 |
| ENSG00000105376 | ICAM5 | 1.198149126 | 0.080220649 | 3.882205034 | 4.51E-10 |
| ENSG00000229167 | AC114488.1 | 3.464445156 | 0.227223969 | 3.881792409 | 5.57E-07 |
| ENSG00000114698 | PLSCR4 | 0.484383035 | 0.031769427 | 3.881792409 | 5.57E-07 |
| ENSG00000100290 | BIK | 5.568470353 | 0.375765977 | 3.873758479 | 1.73E-10 |
| ENSG00000183971 | NPW | 13.48725594 | 0.919790177 | 3.871950017 | 9.88E-14 |
| ENSG00000204335 | SP5 | 0.66937858 | 0.043459342 | 3.870599927 | 1.47E-05 |
| ENSG00000151882 | CCL28 | 1.02523984 | 0.069262125 | 3.869280943 | 5.27E-10 |
| ENSG00000267128 | RNF157-AS1 | 2.87355049 | 0.196071493 | 3.86178838 | 8.06E-11 |
| ENSG00000234773 | AC012618.3 | 0.638758483 | 0.042767314 | 3.852124046 | 7.30E-07 |
| ENSG00000245848 | CEBPA | 0.762334335 | 0.051041188 | 3.852124046 | 7.30E-07 |
| ENSG00000183307 | TMEM121B | 0.395679944 | 0.02649228 | 3.852124046 | 7.30E-07 |

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| ENSG00000131242 | RAB11FIP4 | 8.208778014 | 0.57034206 | 3.850997094 | 1.90E-16 |
| ENSG00000221923 | ZNF880 | 2.606675067 | 0.180544993 | 3.845558789 | 3.61E-12 |
| ENSG00000152217 | SETBP1 | 1.328792231 | 0.092558327 | 3.842581554 | 4.76E-14 |
| ENSG00000125780 | TGM3 | 0.977528183 | 0.066488113 | 3.842522056 | 8.90E-08 |
| ENSG00000198515 | CNGA1 | 0.198367122 | 0.012500174 | 3.838971485 | 0.000885 |
| ENSG00000109832 | DDX25 | 0.063611772 | 0.004008518 | 3.838971485 | 0.000885 |
| ENSG00000185269 | NOTUM | 0.235294025 | 0.014827135 | 3.838971485 | 0.000885 |
| ENSG00000114638 | UPK1B | 0.313483082 | 0.019754246 | 3.838971485 | 0.000885 |
| ENSG00000184669 | OR7E14P | 1.801694394 | 0.123723389 | 3.836638689 | 1.32E-08 |
| ENSG00000127084 | FGD3 | 0.986108261 | 0.068398658 | 3.836351744 | 9.71E-11 |
| ENSG00000118596 | SLC16A7 | 0.795039678 | 0.055687748 | 3.830644625 | 1.75E-12 |
| ENSG00000124613 | ZNF391 | 2.247459081 | 0.157420992 | 3.830644625 | 1.75E-12 |
| ENSG00000261104 | AC093904.4 | 0.408534807 | 0.027352962 | 3.826381489 | 2.06E-05 |
| ENSG00000174460 | ZCCHC12 | 2.865609129 | 0.200641515 | 3.824586464 | 1.29E-10 |
| ENSG00000112559 | MDFI | 14.30940525 | 1.011295264 | 3.82440331 | 3.74E-15 |
| ENSG00000175985 | PLEKHD1 | 1.723643393 | 0.121623896 | 3.822170851 | 3.28E-13 |
| ENSG00000260400 | AL513534.1 | 0.8557369 | 0.058513885 | 3.821832734 | 9.57E-07 |
| ENSG00000211445 | GPX3 | 6.975250711 | 0.495323828 | 3.815736033 | 2.59E-14 |
| ENSG00000144407 | PTH2R | 1.589560427 | 0.11216272 | 3.814864937 | 6.24E-11 |
| ENSG00000196387 | ZNF140 | 7.08346588 | 0.508103915 | 3.80316485 | 3.89E-15 |
| ENSG00000267254 | ZNF790-AS1 | 2.941074223 | 0.20806232 | 3.802864588 | 1.15E-09 |
| ENSG00000176920 | FUT2 | 6.613969277 | 0.476766979 | 3.794228352 | 3.02E-14 |
| ENSG00000112562 | SMOC2 | 4.155745475 | 0.299753049 | 3.791836832 | 1.49E-13 |
| ENSG00000181104 | F2R | 0.472732596 | 0.03302739 | 3.79089175 | 1.26E-06 |
| ENSG00000177614 | PGBD5 | 0.661676901 | 0.047519238 | 3.790678395 | 4.01E-11 |
| ENSG00000214546 | AC087491.1 | 2.102839243 | 0.145334812 | 3.780764792 | 2.88E-05 |
| ENSG00000158292 | GPR153 | 1.218145184 | 0.087727824 | 3.779990046 | 5.43E-10 |
| ENSG00000181350 | LRRC75A | 2.657532051 | 0.193832193 | 3.771696199 | 5.80E-12 |
| ENSG00000226887 | ERVMER34-1 | 2.705753986 | 0.197629678 | 3.770763998 | 2.56E-12 |
| ENSG00000127129 | EDN2 | 1.147251546 | 0.081933719 | 3.759272614 | 1.66E-06 |
| ENSG00000197977 | ELOVL2 | 0.47043915 | 0.03359754 | 3.759272614 | 1.66E-06 |
| ENSG00000197619 | ZNF615 | 5.169861813 | 0.383840572 | 3.752264033 | 3.84E-14 |
| ENSG00000267980 | AC007292.1 | 0.896202697 | 0.060004185 | 3.75218809 | 0.00137 |
| ENSG00000259408 | AC010809.2 | 0.693534452 | 0.046434774 | 3.75218809 | 0.00137 |
| ENSG00000090539 | CHRD | 0.100992026 | 0.006761801 | 3.75218809 | 0.00137 |
| ENSG00000149970 | CNKSR2 | 0.02098124 | 0.001404774 | 3.75218809 | 0.00137 |
| ENSG00000223839 | FAM95B1 | 0.084383089 | 0.005649769 | 3.75218809 | 0.00137 |
| ENSG00000171126 | KCNG3 | 0.174834522 | 0.011705837 | 3.75218809 | 0.00137 |
| ENSG00000130822 | PNCK | 0.131323357 | 0.008792599 | 3.75218809 | 0.00137 |
| ENSG00000171056 | SOX7 | 0.766586317 | 0.055675525 | 3.748085196 | 2.27E-07 |
| ENSG00000117461 | PIK3R3 | 19.80438638 | 1.480022251 | 3.746027463 | 6.79E-16 |
| ENSG00000183508 | TENT5C | 0.632122103 | 0.046701223 | 3.736586761 | 9.53E-09 |
| ENSG00000256417 | AC006206.2 | 0.781523393 | 0.055814367 | 3.733658509 | 4.06E-05 |

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| ENSG00000260001 | TGFBR3L | 0.826888867 | 0.059054251 | 3.733658509 | 4.06E-05 |
| ENSG00000139946 | PELI2 | 2.369483987 | 0.17825391 | 3.730687446 | 5.26E-13 |
| ENSG0000019582 | CD74 | 2.427860675 | 0.182764003 | 3.723840468 | 5.35E-11 |
| ENSG00000133687 | TMTC1 | 0.165588695 | 0.012233704 | 3.723477451 | 2.88E-07 |
| ENSG00000141526 | SLC16A3 | 26.0607425 | 1.980625074 | 3.722002438 | 7.08E-16 |
| ENSG00000121653 | MAPK8IP1 | 6.570039427 | 0.499074259 | 3.719005856 | 8.69E-14 |
| ENSG00000179403 | VWA1 | 39.82198831 | 3.040180445 | 3.715424975 | 8.53E-16 |
| ENSG00000133019 | CHRM3 | 1.345924133 | 0.102988284 | 3.706861191 | 3.76E-13 |
| ENSG00000277662 | AL354696.1 | 3.615240206 | 0.270199931 | 3.693876223 | 2.92E-06 |
| ENSG0000060140 | STYK1 | 3.221775409 | 0.248393492 | 3.693268164 | 4.90E-12 |
| ENSG00000116985 | BMP8B | 2.643003418 | 0.204228263 | 3.691184993 | 2.04E-12 |
| ENSG0000023892 | DEF6 | 1.60902718 | 0.123120571 | 3.689797236 | 4.25E-09 |
| ENSG00000278811 | LINC00624 | 2.906356837 | 0.225263734 | 3.688347239 | 4.88E-13 |
| ENSG00000100979 | PLTP | 22.11783993 | 1.726401398 | 3.682287389 | 7.67E-15 |
| ENSG00000278356 | AC005911.1 | 5.131546584 | 0.392658965 | 3.672965809 | 4.69E-07 |
| ENSG00000122694 | GLIPR2 | 1.135251199 | 0.087914478 | 3.668785715 | 1.66E-08 |
| ENSG00000120162 | MOB3B | 1.285343342 | 0.10105968 | 3.663425349 | 2.45E-11 |
| ENSG00000204956 | PCDHGA1 | 0.280708402 | 0.021479425 | 3.660031711 | 3.89E-06 |
| ENSG00000260118 | AL157700.1 | 0.437696761 | 0.031259163 | 3.659848339 | 0.002134 |
| ENSG00000273056 | AL354694.1 | 1.073256441 | 0.076649181 | 3.659848339 | 0.002134 |
| ENSG00000172014 | ANKRD20A4 | 0.138976 | 0.009925304 | 3.659848339 | 0.002134 |
| ENSG00000125999 | BPIFB1 | 0.202122464 | 0.01443506 | 3.659848339 | 0.002134 |
| ENSG00000159231 | CBR3 | 0.536169171 | 0.038291807 | 3.659848339 | 0.002134 |
| ENSG00000102879 | CORO1A | 0.128676198 | 0.009189719 | 3.659848339 | 0.002134 |
| ENSG00000237989 | LINC01679 | 0.224010637 | 0.015998257 | 3.659848339 | 0.002134 |
| ENSG00000183793 | NPIPA5 | 0.412356422 | 0.029449422 | 3.659848339 | 0.002134 |
| ENSG00000255298 | OR8G5 | 0.374421602 | 0.026740216 | 3.659848339 | 0.002134 |
| ENSG00000240322 | RN7SL481P | 2.096260071 | 0.149709438 | 3.659848339 | 0.002134 |
| ENSG00000138031 | ADCY3 | 5.966394009 | 0.472901916 | 3.659295907 | 2.64E-14 |
| ENSG0000061455 | PRDM6 | 1.090443849 | 0.086174994 | 3.657165017 | 1.19E-11 |
| ENSG00000198780 | FAM169A | 1.56543161 | 0.123979492 | 3.654517801 | 8.27E-12 |
| ENSG00000273759 | AL117379.1 | 9.196502456 | 0.727318082 | 3.65046379 | 4.91E-10 |
| ENSG00000215018 | COL28A1 | 0.347212538 | 0.02705129 | 3.647030933 | 5.99E-07 |
| ENSG00000285875 | AL035446.2 | 0.947362446 | 0.072490886 | 3.634564336 | 8.17E-05 |
| ENSG00000284128 | AP000356.3 | 0.729876869 | 0.055849185 | 3.634564336 | 8.17E-05 |
| ENSG00000248019 | FAM13A-AS1 | 0.259421867 | 0.019850608 | 3.634564336 | 8.17E-05 |
| ENSG0000074660 | SCARF1 | 0.235838061 | 0.018046008 | 3.634564336 | 8.17E-05 |
| ENSG00000083290 | ULK2 | 2.254198349 | 0.181908451 | 3.631883801 | 2.66E-13 |
| ENSG00000198719 | DLL1 | 0.699446479 | 0.055502941 | 3.620621286 | 7.68E-07 |
| ENSG00000133135 | RNF128 | 0.657463386 | 0.052171471 | 3.620621286 | 7.68E-07 |
| ENSG00000214182 | PTMAP5 | 79.79510777 | 6.510299149 | 3.619113736 | 7.03E-15 |
| ENSG00000204282 | TNRC6C-AS1 | 1.25299398 | 0.101688146 | 3.611786236 | 1.55E-09 |
| ENSG00000189143 | CLDN4 | 38.98612771 | 3.198725857 | 3.611471989 | 3.85E-15 |

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| ENSG00000103184 | SEC14L5 | 0.761260335 | 0.062199799 | 3.60029195 | 1.71E-09 |
| ENSG00000118513 | MYB | 0.798738818 | 0.065192968 | 3.59962625 | 3.90E-09 |
| ENSG00000259459 | LINC02568 | 3.897477021 | 0.321170382 | 3.595721794 | 5.44E-11 |
| ENSG00000121743 | GJA3 | 0.320748039 | 0.025770364 | 3.589863421 | 6.96E-06 |
| ENSG00000168505 | GBX2 | 3.267026604 | 0.270705705 | 3.586361742 | 1.71E-10 |
| ENSG00000092068 | SLC7A8 | 0.63469805 | 0.052302095 | 3.58302803 | 1.41E-08 |
| ENSG00000224184 | MIR3681HG | 0.291075121 | 0.023097586 | 3.582342136 | 0.000117 |
| ENSG00000153404 | PLEKHG4B | 1.890772802 | 0.158137908 | 3.580880924 | 2.59E-13 |
| ENSG00000174292 | TNK1 | 4.297622785 | 0.359496575 | 3.57889953 | 1.23E-12 |
| ENSG00000112319 | EYA4 | 2.366972456 | 0.199657101 | 3.568016314 | 6.35E-13 |
| ENSG00000213853 | EMP2 | 39.45604848 | 3.342600642 | 3.565515232 | 5.52E-15 |
| ENSG00000116667 | C1orf21 | 2.067835346 | 0.174776559 | 3.565385833 | 4.69E-13 |
| ENSG00000008323 | PLEKHG6 | 1.87347913 | 0.157616627 | 3.565178851 | 1.31E-10 |
| ENSG00000061656 | SPAG4 | 3.562955846 | 0.299753049 | 3.565178851 | 1.31E-10 |
| ENSG00000256894 | AC022509.3 | 0.708227979 | 0.054192642 | 3.561191766 | 0.003346 |
| ENSG00000223723 | BX842568.2 | 0.475606757 | 0.036392782 | 3.561191766 | 0.003346 |
| ENSG00000140481 | CCDC33 | 0.082778592 | 0.006334105 | 3.561191766 | 0.003346 |
| ENSG00000048540 | LMO3 | 0.056972761 | 0.004359478 | 3.561191766 | 0.003346 |
| ENSG00000184497 | TMEM255B | 0.080279444 | 0.006142874 | 3.561191766 | 0.003346 |
| ENSG00000159618 | ADGRG5 | 0.728317836 | 0.061193605 | 3.557858182 | 6.27E-09 |
| ENSG00000157214 | STEAP2 | 0.426724626 | 0.035954315 | 3.55101275 | 2.00E-08 |
| ENSG00000178460 | MCMDC2 | 0.499794501 | 0.042269237 | 3.541880151 | 6.38E-08 |
| ENSG00000179178 | TMEM125 | 6.7776119 | 0.589265357 | 3.522668605 | 4.64E-12 |
| ENSG00000072201 | LNX1 | 1.262686984 | 0.109464403 | 3.521191633 | 3.51E-10 |
| ENSG00000278385 | AC121338.2 | 1.197977373 | 0.102667711 | 3.509865225 | 1.64E-06 |
| ENSG00000050555 | LAMC3 | 0.275121482 | 0.023578152 | 3.509865225 | 1.64E-06 |
| ENSG00000178750 | STX19 | 1.804207718 | 0.154622183 | 3.509865225 | 1.64E-06 |
| ENSG00000160180 | TFF3 | 2.647365887 | 0.229947544 | 3.503472126 | 9.50E-08 |
| ENSG00000160229 | ZNF66 | 1.194266788 | 0.10413488 | 3.50161697 | 3.43E-08 |
| ENSG00000164002 | EXO5 | 3.108232107 | 0.275064462 | 3.494468335 | 6.38E-11 |
| ENSG00000178662 | CSRNP3 | 0.804781463 | 0.071250493 | 3.494256968 | 4.86E-11 |
| ENSG00000112394 | SLC16A10 | 1.253154481 | 0.111539327 | 3.488833646 | 7.38E-12 |
| ENSG00000269313 | MAGIX | 0.597285668 | 0.052590314 | 3.483877738 | 1.16E-07 |
| ENSG00000130584 | ZBTB46 | 5.913424244 | 0.529741088 | 3.482987279 | 2.71E-13 |
| ENSG00000230612 | AC004039.1 | 0.864204404 | 0.075063927 | 3.477764975 | 1.70E-05 |
| ENSG00000130600 | H19 | 0.533676796 | 0.046354631 | 3.477764975 | 1.70E-05 |
| ENSG00000274827 | LINC01297 | 0.35026318 | 0.030423508 | 3.477764975 | 1.70E-05 |
| ENSG00000167912 | AC090152.1 | 0.59933234 | 0.051363307 | 3.471859965 | 0.000241 |
| ENSG00000167311 | ART5 | 0.61776243 | 0.052942782 | 3.471859965 | 0.000241 |
| ENSG00000224843 | LINC00240 | 0.161184427 | 0.013813647 | 3.471859965 | 0.000241 |
| ENSG00000177839 | PCDHB9 | 0.236610706 | 0.020277745 | 3.471859965 | 0.000241 |
| ENSG00000274386 | TMEM269 | 0.238883208 | 0.0204725 | 3.471859965 | 0.000241 |
| ENSG00000023902 | PLEKHO1 | 2.265898015 | 0.20455349 | 3.468810688 | 6.48E-12 |

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| ENSG00000124935 | SCGB1D2 | 7.312453883 | 0.652795529 | 3.467721126 | 4.11E-08 |
| ENSG00000158555 | GDPD5 | 11.34944847 | 1.034356117 | 3.459678954 | 5.02E-14 |
| ENSG00000260249 | AC007608.3 | 0.102978362 | 0.0084859 | 3.455290244 | 0.005282 |
| ENSG00000274677 | AC040169.3 | 0.887599444 | 0.073142356 | 3.455290244 | 0.005282 |
| ENSG00000176029 | C11orf16 | 0.208366268 | 0.017170357 | 3.455290244 | 0.005282 |
| ENSG00000102287 | GABRE | 0.056513822 | 0.004657004 | 3.455290244 | 0.005282 |
| ENSG00000256356 | HSPA8P5 | 0.26254754 | 0.021635148 | 3.455290244 | 0.005282 |
| ENSG00000263503 | MAPK8IP1P2 | 0.369029117 | 0.03040973 | 3.455290244 | 0.005282 |
| ENSG00000167034 | NKX3-1 | 0.166068743 | 0.013684843 | 3.455290244 | 0.005282 |
| ENSG00000243431 | RPL5P30 | 0.609664265 | 0.050239194 | 3.455290244 | 0.005282 |
| ENSG00000085741 | WNT11 | 0.22624359 | 0.018643533 | 3.455290244 | 0.005282 |
| ENSG00000138336 | TET1 | 1.741060448 | 0.1590421 | 3.452248105 | 5.04E-12 |
| ENSG00000245017 | LINC02453 | 1.045725566 | 0.093353748 | 3.451126342 | 2.75E-06 |
| ENSG00000228526 | MIR34AHG | 0.172865574 | 0.015432012 | 3.438375951 | 2.31E-05 |
| ENSG00000140470 | ADAMTS17 | 0.709774703 | 0.065173194 | 3.436435261 | 2.88E-09 |
| ENSG00000261659 | Z92544.2 | 0.693680809 | 0.062975692 | 3.434647032 | 7.74E-07 |
| ENSG00000185112 | FAM43A | 2.513158626 | 0.233328222 | 3.421512433 | 2.10E-09 |
| ENSG00000246575 | AC093162.2 | 2.789653673 | 0.25433592 | 3.42083503 | 3.58E-06 |
| ENSG00000196724 | ZNF418 | 0.965493641 | 0.089506354 | 3.418300855 | 1.20E-08 |
| ENSG00000140403 | DNAJA4 | 2.605647134 | 0.244495887 | 3.413932862 | 5.65E-12 |
| ENSG00000140993 | TIGD7 | 1.254459565 | 0.117320548 | 3.408803161 | 7.80E-09 |
| ENSG00000285813 | AP000813.1 | 1.263538829 | 0.118735072 | 3.400504691 | 1.57E-08 |
| ENSG00000159905 | ZNF221 | 1.56868457 | 0.148276812 | 3.390321551 | 1.65E-08 |
| ENSG00000149212 | SESN3 | 4.031132108 | 0.385268523 | 3.390072961 | 5.05E-13 |
| ENSG00000119888 | EPCAM | 174.2415144 | 16.72175378 | 3.385679648 | 6.02E-14 |
| ENSG00000134955 | SLC37A2 | 0.373845659 | 0.035130374 | 3.385004519 | 1.23E-06 |
| ENSG00000152503 | TRIM36 | 9.754267664 | 0.937294227 | 3.382785117 | 3.33E-13 |
| ENSG00000131981 | LGALS3 | 7.548227025 | 0.728311121 | 3.374032743 | 9.99E-12 |
| ENSG00000232677 | LINC00665 | 13.57258288 | 1.317842224 | 3.368259803 | 1.91E-13 |
| ENSG00000151364 | KCTD14 | 0.980879126 | 0.093402445 | 3.358274911 | 6.09E-06 |
| ENSG00000066230 | SLC9A3 | 4.471451075 | 0.436907135 | 3.357042561 | 3.02E-12 |
| ENSG00000055118 | KCNH2 | 0.241739889 | 0.022849986 | 3.356217012 | 4.30E-05 |
| ENSG00000197165 | SULT1A2 | 11.46115221 | 1.121537561 | 3.355000925 | 2.76E-12 |
| ENSG00000136002 | ARHGEF4 | 0.563125008 | 0.054841258 | 3.352625809 | 4.25E-09 |
| ENSG00000101825 | MXRA5 | 0.610162306 | 0.059422096 | 3.352625809 | 4.25E-09 |
| ENSG00000071073 | MGAT4A | 10.13177856 | 0.994736044 | 3.35225178 | 2.37E-13 |
| ENSG00000283108 | AC011451.3 | 1.027877398 | 0.095749993 | 3.352210109 | 0.000507 |
| ENSG00000276966 | HIST1H4E | 0.646311612 | 0.060205947 | 3.352210109 | 0.000507 |
| ENSG00000181690 | PLAG1 | 1.925768891 | 0.188584581 | 3.351948027 | 1.88E-11 |
| ENSG00000135540 | NHSL1 | 4.264114183 | 0.419926324 | 3.346678188 | 1.21E-12 |
| ENSG00000197594 | ENPP1 | 2.735627462 | 0.269684438 | 3.344466145 | 2.67E-12 |
| ENSG00000170629 | DPY19L2P2 | 1.145730101 | 0.112308908 | 3.344091872 | 3.07E-09 |
| ENSG00000269318 | AC007292.2 | 0.276724839 | 0.02470371 | 3.340994755 | 0.00839 |

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| ENSG00000261655 | AC100803.2 | 0.255438313 | 0.022803424 | 3.340994755 | 0.00839 |
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| ENSG00000283765 | AC131160.1 | 0.163971684 | 0.014638039 | 3.340994755 | 0.00839 |
| ENSG00000230736 | AL021937.1 | 0.321839159 | 0.028731144 | 3.340994755 | 0.00839 |
| ENSG00000279110 | AL022323.4 | 0.0382184 | 0.003411823 | 3.340994755 | 0.00839 |
| ENSG00000152766 | ANKRD22 | 0.289339532 | 0.025829845 | 3.340994755 | 0.00839 |
| ENSG00000177675 | CD163L1 | 0.088123973 | 0.007866981 | 3.340994755 | 0.00839 |
| ENSG00000267296 | CEBPA-DT | 0.22812803 | 0.020365388 | 3.340994755 | 0.00839 |
| ENSG00000278705 | HIST1H4B | 1.14480687 | 0.102198909 | 3.340994755 | 0.00839 |
| ENSG00000227953 | LINC01341 | 0.125859791 | 0.011235723 | 3.340994755 | 0.00839 |
| ENSG00000258616 | LINC02303 | 0.438308924 | 0.039128603 | 3.340994755 | 0.00839 |
| ENSG00000255571 | MIR9-3HG | 0.069019327 | 0.006161476 | 3.340994755 | 0.00839 |
| ENSG00000277311 | RF02247 | 2.310716171 | 0.206281668 | 3.340994755 | 0.00839 |
| ENSG00000144331 | ZNF385B | 0.34624479 | 0.033719866 | 3.32594723 | 7.98E-06 |
| ENSG00000169583 | CLIC3 | 3.834178999 | 0.380315395 | 3.322592842 | 3.74E-08 |
| ENSG00000220848 | RPS18P9 | 2.616132569 | 0.259496359 | 3.322592842 | 3.74E-08 |
| ENSG00000143632 | ACTA1 | 0.922354431 | 0.089825663 | 3.313313657 | 5.89E-05 |
| ENSG00000135454 | B4GALNT1 | 0.172300372 | 0.016779878 | 3.313313657 | 5.89E-05 |
| ENSG00000164929 | BAALC | 0.34498871 | 0.03359754 | 3.313313657 | 5.89E-05 |
| ENSG00000139220 | PPFIA2 | 0.160844497 | 0.015664221 | 3.313313657 | 5.89E-05 |
| ENSG00000218896 | TUBB8P2 | 2.785696717 | 0.271291648 | 3.313313657 | 5.89E-05 |
| ENSG00000135373 | EHF | 1.219456839 | 0.122470922 | 3.30727685 | 1.30E-08 |
| ENSG00000117983 | MUC5B | 0.121325645 | 0.012034391 | 3.307183123 | 2.52E-06 |
| ENSG00000140022 | STON2 | 5.300740105 | 0.538624355 | 3.301732993 | 1.58E-12 |
| ENSG00000167971 | CASKIN1 | 1.575202932 | 0.15962397 | 3.299902411 | 4.01E-10 |
| ENSG00000154556 | SORBS2 | 0.922830012 | 0.093903175 | 3.297030567 | 2.65E-11 |
| ENSG00000215068 | AC025171.2 | 0.331510969 | 0.032284978 | 3.288445767 | 0.00074 |
| ENSG00000100206 | DMC1 | 0.260862632 | 0.025404723 | 3.288445767 | 0.00074 |
| ENSG00000273079 | GRIN2B | 0.029710737 | 0.00289345 | 3.288445767 | 0.00074 |
| ENSG00000222038 | POTEJ | 0.271735122 | 0.026463566 | 3.288445767 | 0.00074 |
| ENSG00000134755 | DSC2 | 1.735626166 | 0.179124137 | 3.277856211 | 1.23E-11 |
| ENSG00000091622 | PITPNM3 | 1.146155733 | 0.1181419 | 3.277191539 | 1.11E-10 |
| ENSG00000137642 | SORL1 | 21.26978058 | 2.214104752 | 3.268404214 | 3.23E-13 |
| ENSG00000058091 | CDK14 | 6.273009491 | 0.654335944 | 3.264049478 | 2.69E-12 |
| ENSG00000131398 | KCNC3 | 0.279590399 | 0.028525169 | 3.259034007 | 1.38E-05 |
| ENSG00000253313 | C1orf210 | 10.72199231 | 1.122030762 | 3.256841897 | 3.49E-11 |
| ENSG00000166126 | AMN | 1.295115133 | 0.134886721 | 3.25670505 | 7.70E-09 |
| ENSG00000167183 | PRR15L | 6.189418315 | 0.648313814 | 3.252517773 | 5.46E-10 |
| ENSG00000145990 | GFOD1 | 1.990341984 | 0.209447511 | 3.249794378 | 1.81E-11 |
| ENSG00000279636 | LINC00216 | 2.300797466 | 0.238524629 | 3.248701298 | 1.17E-06 |
| ENSG00000163406 | SLC15A2 | 0.894921892 | 0.093707019 | 3.248134748 | 1.44E-08 |
| ENSG00000025039 | RRAGD | 9.19411732 | 0.970809033 | 3.246590717 | 2.71E-12 |
| ENSG00000171606 | ZNF274 | 5.330365313 | 0.564037898 | 3.243442382 | 3.15E-12 |

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| ENSG00000117394 | SLC2A1 | 137.3152704 | 14.54517193 | 3.243335122 | 4.37E-13 |
| ENSG00000177706 | FAM20C | 4.38706612 | 0.464167175 | 3.241851048 | 2.33E-11 |
| ENSG00000213638 | ADAT3 | 6.612449517 | 0.700361765 | 3.239120801 | 6.29E-11 |
| ENSG00000139292 | LGR5 | 6.899254581 | 0.733122927 | 3.237058531 | 4.84E-12 |
| ENSG00000267041 | ZNF850 | 4.13063819 | 0.439077757 | 3.236349894 | 6.67E-12 |
| ENSG00000100336 | APOL4 | 0.295944476 | 0.030680687 | 3.223478522 | 0.000112 |
| ENSG00000100399 | CHADL | 0.498402837 | 0.051669629 | 3.223478522 | 0.000112 |
| ENSG00000082684 | SEMA5B | 0.152089817 | 0.015767214 | 3.223478522 | 0.000112 |
| ENSG00000128710 | HOXD10 | 0.325963769 | 0.033256406 | 3.221732316 | 0.001085 |
| ENSG00000163083 | INHBB | 0.273874677 | 0.027942024 | 3.221732316 | 0.001085 |
| ENSG00000166165 | CKB | 20.2430078 | 2.180294438 | 3.218188713 | 3.13E-12 |
| ENSG00000171714 | ANO5 | 0.609036648 | 0.065243718 | 3.21309773 | 6.16E-08 |
| ENSG00000132639 | SNAP25 | 1.97911429 | 0.213348213 | 3.208440795 | 6.08E-09 |
| ENSG00000108984 | MAP2K6 | 12.22829703 | 1.327708331 | 3.20745546 | 1.06E-12 |
| ENSG00000171813 | PWWP2B | 30.76771025 | 3.360189087 | 3.1985789 | 2.30E-12 |
| ENSG00000103196 | CRISPLD2 | 0.671505047 | 0.073059709 | 3.192906963 | 2.70E-08 |
| ENSG00000270127 | AC027020.2 | 0.699630821 | 0.074948718 | 3.188865717 | 2.41E-05 |
| ENSG00000116819 | TFAP2E | 0.754250014 | 0.080799859 | 3.188865717 | 2.41E-05 |
| ENSG00000127578 | WFIKKN1 | 0.342644123 | 0.036706127 | 3.188865717 | 2.41E-05 |
| ENSG00000254221 | PCDHGB1 | 0.516518247 | 0.056270424 | 3.177300465 | 2.29E-06 |
| ENSG00000269834 | ZNF528-AS1 | 0.592630191 | 0.064562195 | 3.177300465 | 2.29E-06 |
| ENSG00000269949 | AC069307.1 | 2.804392668 | 0.300423637 | 3.176372239 | 0.000155 |
| ENSG00000131379 | C3orf20 | 0.358981536 | 0.03845629 | 3.176372239 | 0.000155 |
| ENSG00000089335 | ZNF302 | 7.498462249 | 0.836195045 | 3.167592237 | 9.79E-12 |
| ENSG00000198570 | RD3 | 1.224374436 | 0.136408951 | 3.158726135 | 3.96E-08 |
| ENSG00000135299 | ANKRD6 | 1.439839641 | 0.161231079 | 3.158109918 | 3.57E-10 |
| ENSG00000267270 | PARD6G-AS1 | 0.701128723 | 0.078035514 | 3.152811382 | 3.99E-07 |
| ENSG00000120217 | CD274 | 0.203434522 | 0.021793146 | 3.15178368 | 0.001598 |
| ENSG00000138735 | PDE5A | 2.111714852 | 0.238126071 | 3.150201192 | 5.91E-11 |
| ENSG00000109819 | PPARGC1A | 0.695783495 | 0.078242807 | 3.149043262 | 4.48E-09 |
| ENSG00000196437 | ZNF569 | 5.83963337 | 0.660380986 | 3.146974852 | 2.45E-11 |
| ENSG00000120875 | DUSP4 | 0.43760428 | 0.049346145 | 3.133984129 | 4.82E-07 |
| ENSG00000184916 | JAG2 | 14.08307517 | 1.609429115 | 3.133226633 | 4.85E-12 |
| ENSG00000137877 | SPTBN5 | 1.049885697 | 0.119726295 | 3.132302254 | 3.25E-10 |
| ENSG00000104140 | RHOV | 5.293640683 | 0.603842701 | 3.129871073 | 1.94E-09 |
| ENSG00000268895 | A1BG-AS1 | 0.433862539 | 0.04808069 | 3.127675794 | 0.000215 |
| ENSG00000101460 | MAP1LC3A | 0.687728758 | 0.076214169 | 3.127675794 | 0.000215 |
| ENSG00000233087 | RAB6D | 0.399662953 | 0.044290688 | 3.127675794 | 0.000215 |
| ENSG00000105289 | TJP3 | 18.19257472 | 2.091139442 | 3.124761843 | 6.42E-12 |
| ENSG00000183054 | RGPD6 | 0.207216151 | 0.023543606 | 3.120401498 | 1.36E-06 |
| ENSG00000263002 | ZNF234 | 2.39003154 | 0.274936642 | 3.119600118 | 4.20E-10 |
| ENSG00000161298 | ZNF382 | 1.366020214 | 0.158201527 | 3.110849796 | 2.72E-10 |
| ENSG00000261122 | LINC02167 | 0.987388731 | 0.112526702 | 3.107396866 | 1.12E-05 |

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| ENSG00000112297 | CRYBG1 | 0.817664016 | 0.094928541 | 3.104162158 | 3.17E-09 |
| ENSG00000106868 | SUSD1 | 3.676080774 | 0.428048023 | 3.103033027 | 3.01E-10 |
| ENSG00000173705 | SUSD5 | 1.535248191 | 0.178766462 | 3.099198146 | 5.94E-09 |
| ENSG00000057294 | PKP2 | 12.8684712 | 1.519009818 | 3.086550775 | 8.71E-12 |
| ENSG00000128602 | SMO | 10.53602064 | 1.246015921 | 3.083211195 | 2.04E-11 |
| ENSG00000284735 | AL139424.3 | 0.333441228 | 0.03760027 | 3.078270022 | 0.002365 |
| ENSG00000229422 | AL512625.2 | 0.682064918 | 0.076912581 | 3.078270022 | 0.002365 |
| ENSG00000274641 | HIST1H2BO | 2.083788883 | 0.234977018 | 3.078270022 | 0.002365 |
| ENSG00000249709 | ZNF564 | 0.2191948 | 0.024717351 | 3.078270022 | 0.002365 |
| ENSG00000105357 | MYH14 | 10.16891888 | 1.219011116 | 3.064397512 | 1.06E-11 |
| ENSG00000280287 | AC131212.3 | 0.98050714 | 0.11670878 | 3.061282542 | 3.12E-07 |
| ENSG00000171219 | CDC42BPG | 5.120631973 | 0.615199975 | 3.059925208 | 5.48E-11 |
| ENSG00000144648 | ACKR2 | 0.68914982 | 0.082028811 | 3.059902903 | 2.75E-07 |
| ENSG00000134243 | SORT1 | 18.18761923 | 2.189288061 | 3.058637381 | 8.49E-12 |
| ENSG00000152128 | TMEM163 | 0.442174082 | 0.052631537 | 3.056117533 | 1.03E-06 |
| ENSG00000170903 | MSANTD4 | 19.69359344 | 2.376259755 | 3.054952805 | 1.20E-11 |
| ENSG00000154153 | RETREG1 | 0.576287959 | 0.068594977 | 3.053421418 | 2.55E-06 |
| ENSG00000140284 | SLC27A2 | 4.086086191 | 0.495237966 | 3.044146941 | 1.29E-09 |
| ENSG00000117595 | IRF6 | 11.18486688 | 1.361375915 | 3.041953143 | 2.56E-11 |
| ENSG00000163251 | FZD5 | 17.13651983 | 2.088678768 | 3.040479115 | 1.38E-11 |
| ENSG00000274021 | AC024909.2 | 2.129077021 | 0.257829236 | 3.038561332 | 1.30E-07 |
| ENSG00000105538 | RASIP1 | 1.158189163 | 0.140255624 | 3.038561332 | 1.30E-07 |
| ENSG00000236526 | AL035448.1 | 0.821559928 | 0.097789453 | 3.037378247 | 7.63E-05 |
| ENSG00000146013 | GFRA3 | 0.737751951 | 0.087813873 | 3.037378247 | 7.63E-05 |
| ENSG00000168993 | CPLX1 | 3.646290368 | 0.444298977 | 3.035016991 | 4.87E-09 |
| ENSG00000178429 | RPS3AP5 | 1.374186566 | 0.163568046 | 3.025055866 | 0.000419 |
| ENSG00000213160 | KLHL23 | 9.458423869 | 1.170065268 | 3.018506353 | 3.81E-11 |
| ENSG00000175182 | FAM131A | 1.502871674 | 0.185572606 | 3.018096926 | 8.14E-10 |
| ENSG00000179023 | KLHDC7A | 4.012052998 | 0.495917969 | 3.018044469 | 2.38E-10 |
| ENSG00000145687 | SSBP2 | 2.084828853 | 0.257852085 | 3.017520214 | 1.58E-10 |
| ENSG00000101004 | NINL | 2.107355456 | 0.260770517 | 3.014777759 | 1.04E-09 |
| ENSG00000142632 | ARHGEF19 | 9.428225872 | 1.171371416 | 3.011786394 | 8.32E-11 |
| ENSG00000124839 | RAB17 | 9.251681445 | 1.151131926 | 3.009977879 | 5.12E-11 |
| ENSG00000102886 | GDPD3 | 2.67373852 | 0.331403336 | 3.005888907 | 1.31E-07 |
| ENSG00000158747 | NBL1 | 4.787432067 | 0.597505521 | 3.003607886 | 5.08E-10 |
| ENSG00000136111 | TBC1D4 | 5.521106318 | 0.690217375 | 3.003150991 | 5.63E-11 |
| ENSG00000151715 | TMEM45B | 2.374330205 | 0.295758982 | 3.001971516 | 1.71E-08 |
| ENSG00000233382 | NKAPP1 | 1.232035327 | 0.152822577 | 3.001860641 | 5.76E-07 |
| ENSG00000276292 | AC131159.1 | 3.531164853 | 0.420311004 | 3.000808344 | 0.002365 |
| ENSG00000278231 | AL133342.1 | 2.055022168 | 0.244607224 | 3.000808344 | 0.002365 |
| ENSG00000135374 | ELF5 | 0.167364956 | 0.019921283 | 3.000808344 | 0.002365 |
| ENSG00000198718 | TOGARAM1 | 2.017284755 | 0.252702071 | 2.998833694 | 2.86E-10 |
| ENSG00000226465 | AL390198.1 | 1.406241131 | 0.172165854 | 2.99688355 | 0.000102 |

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| ENSG00000150637 | CD226 | 0.107236455 | 0.01312894 | 2.99688355 | 0.000102 |
| ENSG00000228502 | EEF1A1P11 | 1.052909126 | 0.128907479 | 2.99688355 | 0.000102 |
| ENSG00000113389 | NPR3 | 0.148235432 | 0.018148438 | 2.99688355 | 0.000102 |
| ENSG00000282458 | WASH5P | 0.231004703 | 0.028281865 | 2.99688355 | 0.000102 |
| ENSG00000109452 | INPP4B | 1.210487869 | 0.151814446 | 2.996589663 | 5.56E-10 |
| ENSG00000277117 | FP565260.3 | 0.647257504 | 0.08000558 | 2.99552111 | 1.15E-05 |
| ENSG00000049540 | ELN | 0.708985789 | 0.088951481 | 2.987545445 | 2.25E-07 |
| ENSG00000128487 | SPECC1 | 4.237819553 | 0.536790875 | 2.984518192 | 5.23E-11 |
| ENSG00000100167 | 3-Sep | 0.251191721 | 0.031289754 | 2.979440356 | 3.15E-05 |
| ENSG00000170873 | MTSS1 | 1.957594561 | 0.2491024 | 2.975292015 | 1.07E-09 |
| ENSG00000182568 | SATB1 | 0.342784666 | 0.043397762 | 2.974504529 | 2.58E-07 |
| ENSG00000154122 | ANKH | 4.99372652 | 0.637862154 | 2.972516543 | 5.23E-11 |
| ENSG00000176222 | ZNF404 | 0.438249988 | 0.054170781 | 2.970872119 | 0.000589 |
| ENSG00000085185 | BCORL1 | 6.605403922 | 0.84532659 | 2.969615709 | 6.71E-11 |
| ENSG00000180336 | MEIOC | 1.504645108 | 0.192384192 | 2.967812425 | 1.54E-09 |
| ENSG00000183682 | BMP8A | 1.259490537 | 0.158734475 | 2.967576791 | 1.15E-05 |
| ENSG00000259953 | AL138756.1 | 0.656677886 | 0.083306058 | 2.966447498 | 1.16E-06 |
| ENSG00000118407 | FILIP1 | 1.646832834 | 0.211099385 | 2.964640496 | 1.36E-09 |
| ENSG00000154265 | ABCA5 | 1.905401311 | 0.244941844 | 2.962030627 | 2.97E-10 |
| ENSG00000164938 | TP53INP1 | 5.580227568 | 0.717661046 | 2.96183667 | 1.60E-10 |
| ENSG00000064547 | LPAR2 | 8.399156042 | 1.081525094 | 2.959624647 | 3.07E-10 |
| ENSG00000137266 | SLC22A23 | 2.188359188 | 0.281718906 | 2.959366598 | 5.28E-10 |
| ENSG00000125531 | FNDC11 | 0.864526567 | 0.111136027 | 2.947371296 | 1.39E-06 |
| ENSG00000269416 | LINC01224 | 3.638478267 | 0.47533655 | 2.936544957 | 2.77E-09 |
| ENSG00000092969 | TGFB2 | 0.535398903 | 0.069521447 | 2.930821383 | 3.39E-06 |
| ENSG00000005073 | HOXA11 | 1.775021315 | 0.232838086 | 2.922431625 | 7.37E-07 |
| ENSG00000279329 | AC020910.5 | 0.380886146 | 0.048003348 | 2.918950405 | 0.003515 |
| ENSG00000240207 | AC080013.1 | 0.170062883 | 0.021433144 | 2.918950405 | 0.003515 |
| ENSG00000253908 | AC104115.2 | 1.033992231 | 0.130314766 | 2.918950405 | 0.003515 |
| ENSG00000251609 | SETP12 | 0.882425668 | 0.111212725 | 2.918950405 | 0.003515 |
| ENSG00000129204 | USP6 | 0.063030405 | 0.007943766 | 2.918950405 | 0.003515 |
| ENSG00000196345 | ZKSCAN7 | 0.168810043 | 0.021275248 | 2.918950405 | 0.003515 |
| ENSG00000079150 | FKBP7 | 3.296709264 | 0.436004435 | 2.918132948 | 6.76E-09 |
| ENSG00000123989 | CHPF | 124.2973889 | 16.4958911 | 2.918051862 | 4.00E-11 |
| ENSG00000137440 | FGFBP1 | 4.735069475 | 0.625827312 | 2.916164193 | 6.17E-08 |
| ENSG00000144229 | THSD7B | 0.20395206 | 0.026483137 | 2.912315954 | 0.000186 |
| ENSG00000257497 | AC121761.1 | 1.156007747 | 0.151022679 | 2.910938253 | 5.36E-05 |
| ENSG00000270510 | AP000811.1 | 2.631648972 | 0.34380278 | 2.910938253 | 5.36E-05 |
| ENSG00000234949 | AC104667.2 | 2.04385357 | 0.270308707 | 2.908129409 | 1.07E-06 |
| ENSG00000165716 | FAM69B | 9.534623934 | 1.274689494 | 2.905625572 | 5.13E-10 |
| ENSG00000108821 | COL1A1 | 0.510668509 | 0.068382404 | 2.895217087 | 2.81E-07 |
| ENSG00000146674 | IGFBP3 | 65.98280104 | 8.911494418 | 2.892741812 | 5.85E-11 |
| ENSG00000100867 | DHRS2 | 10.38553157 | 1.409955403 | 2.88477707 | 1.30E-10 |

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| ENSG00000158578 | ALAS2 | 1.096525418 | 0.146833109 | 2.883865171 | 1.17E-05 |
| ENSG00000105963 | ADAP1 | 1.50236113 | 0.203388346 | 2.882939195 | 3.43E-08 |
| ENSG00000183742 | MACC1 | 1.232708792 | 0.167330321 | 2.8815496 | 4.27E-09 |
| ENSG00000105784 | RUNDC3B | 0.913779496 | 0.123550018 | 2.879760278 | 6.92E-07 |
| ENSG00000165175 | MID1IP1 | 23.92465123 | 3.259794634 | 2.879655863 | 1.22E-10 |
| ENSG00000127329 | PTPRB | 1.379247446 | 0.187769938 | 2.878931746 | 1.09E-09 |
| ENSG00000170899 | GSTA4 | 3.938398807 | 0.535099389 | 2.878502839 | 1.91E-08 |
| ENSG00000070759 | TESK2 | 4.352127021 | 0.592889033 | 2.877023207 | 3.35E-09 |
| ENSG00000251595 | ABCA11P | 0.599074563 | 0.080220649 | 2.875427554 | 7.02E-05 |
| ENSG00000112238 | PRDM13 | 0.510200864 | 0.068319783 | 2.875427554 | 7.02E-05 |
| ENSG00000162591 | MEGF6 | 15.77862312 | 2.162162447 | 2.871538595 | 1.25E-10 |
| ENSG00000064989 | CALCRL | 1.013351589 | 0.138427623 | 2.868586724 | 1.05E-07 |
| ENSG00000113211 | PCDHB6 | 1.407348311 | 0.191881111 | 2.868539143 | 4.96E-07 |
| ENSG00000130957 | FBP2 | 1.02462408 | 0.137204972 | 2.868097516 | 0.000252 |
| ENSG00000116574 | RHOU | 1.64389239 | 0.225249013 | 2.865256249 | 4.87E-08 |
| ENSG00000139173 | TMEM117 | 6.316405347 | 0.871839875 | 2.859282841 | 1.05E-09 |
| ENSG00000234869 | AL021392.1 | 1.218565197 | 0.166969936 | 2.858474673 | 2.41E-06 |
| ENSG00000260423 | LINC02367 | 0.523746534 | 0.071408809 | 2.857930295 | 1.46E-05 |
| ENSG00000151320 | AKAP6 | 1.487501108 | 0.206271222 | 2.853182732 | 6.40E-10 |
| ENSG00000125351 | UPF3B | 27.1652898 | 3.777478647 | 2.850248169 | 1.94E-10 |
| ENSG00000233024 | AC126755.2 | 1.710031648 | 0.236372921 | 2.850084488 | 3.10E-07 |
| ENSG00000183665 | TRMT12 | 4.015418691 | 0.556898557 | 2.849450285 | 1.69E-08 |
| ENSG00000163884 | KLF15 | 4.518932175 | 0.628695533 | 2.846356171 | 7.01E-09 |
| ENSG00000234284 | ZNF879 | 1.409707455 | 0.195975553 | 2.842404726 | 2.37E-07 |
| ENSG00000261801 | LOXL1-AS1 | 1.673001937 | 0.233306961 | 2.839890138 | 6.50E-08 |
| ENSG00000186352 | ANKRD37 | 1.862529782 | 0.260250709 | 2.833883953 | 4.73E-07 |
| ENSG00000279667 | AL603839.4 | 0.665241007 | 0.08908084 | 2.83216701 | 0.005247 |
| ENSG00000184956 | MUC6 | 0.079326912 | 0.010622478 | 2.83216701 | 0.005247 |
| ENSG00000185585 | OLFML2A | 0.099105724 | 0.013271012 | 2.83216701 | 0.005247 |
| ENSG00000199331 | RF00019 | 6.554580511 | 0.877708274 | 2.83216701 | 0.005247 |
| ENSG00000143554 | SLC27A3 | 2.910467411 | 0.409169305 | 2.832042619 | 3.66E-09 |
| ENSG00000139832 | RAB20 | 13.15773746 | 1.857758026 | 2.82645759 | 1.91E-09 |
| ENSG00000234311 | AL451069.3 | 25.32701556 | 3.57928221 | 2.825643439 | 1.23E-09 |
| ENSG00000171817 | ZNF540 | 0.815515303 | 0.11440389 | 2.824578829 | 3.35E-06 |
| ENSG00000179841 | AKAP5 | 0.845499004 | 0.119177641 | 2.823776646 | 1.30E-07 |
| ENSG00000112419 | PHACTR2 | 24.70866328 | 3.505593746 | 2.821672823 | 1.51E-10 |
| ENSG00000223960 | AC009948.1 | 2.527387924 | 0.358015472 | 2.819439398 | 1.64E-08 |
| ENSG00000105519 | CAPS | 4.079614426 | 0.579068944 | 2.818361133 | 3.64E-09 |
| ENSG00000138778 | CENPE | 14.33111764 | 2.038134524 | 2.818038812 | 2.21E-10 |
| ENSG00000174951 | FUT1 | 3.463680008 | 0.494734021 | 2.809025734 | 5.46E-09 |
| ENSG00000042980 | ADAM28 | 0.50494663 | 0.071804815 | 2.808601498 | 6.15E-07 |
| ENSG00000079257 | LXN | 7.084634271 | 1.011932278 | 2.807746987 | 1.43E-08 |
| ENSG00000106537 | TSPAN13 | 21.86972333 | 3.139859274 | 2.803762474 | 5.42E-10 |

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| ENSG00000197168 | NEK5 | 1.567404807 | 0.225166609 | 2.799608646 | 1.39E-08 |
| ENSG00000230490 | AL139383.1 | 0.626101217 | 0.087484929 | 2.794923839 | 0.001665 |
| ENSG00000128652 | HOXD3 | 0.270875244 | 0.037849314 | 2.794923839 | 0.001665 |
| ENSG00000116062 | MSH6 | 7.374126669 | 1.066855085 | 2.79309535 | 4.03E-10 |
| ENSG00000267733 | AP005264.5 | 1.551112251 | 0.222903731 | 2.789867408 | 3.95E-06 |
| ENSG00000064042 | LIMCH1 | 0.707836765 | 0.103026887 | 2.779004783 | 7.37E-08 |
| ENSG00000265018 | AGAP12P | 1.288384732 | 0.186513008 | 2.777949926 | 3.73E-06 |
| ENSG00000271781 | AC026740.1 | 2.746957572 | 0.396133823 | 2.777205203 | 2.89E-05 |
| ENSG00000109654 | TRIM2 | 45.92187787 | 6.720405048 | 2.777013199 | 2.57E-10 |
| ENSG00000272468 | AL021807.1 | 2.2186965 | 0.316907058 | 2.775374535 | 0.000466 |
| ENSG00000232640 | AL354892.2 | 3.110579461 | 0.444298977 | 2.775374535 | 0.000466 |
| ENSG00000165905 | LARGE2 | 12.15332854 | 1.781902768 | 2.773217563 | 1.08E-09 |
| ENSG00000168556 | ING2 | 12.4242855 | 1.82065994 | 2.772621588 | 4.64E-09 |
| ENSG00000143995 | MEIS1 | 5.839415471 | 0.859727054 | 2.767721852 | 6.55E-10 |
| ENSG00000139318 | DUSP6 | 169.3068523 | 25.01013809 | 2.763554896 | 2.93E-10 |
| ENSG00000168785 | TSPAN5 | 0.899821281 | 0.132542218 | 2.761000742 | 1.58E-07 |
| ENSG00000197016 | ZNF470 | 1.228345545 | 0.181340164 | 2.760695682 | 2.09E-08 |
| ENSG00000182253 | SYNM | 2.971314826 | 0.440818569 | 2.755473078 | 3.34E-09 |
| ENSG00000166689 | PLEKHA7 | 2.35796664 | 0.350380312 | 2.753380323 | 2.60E-09 |
| ENSG00000196526 | AFAP1 | 14.35594203 | 2.136462278 | 2.752599119 | 4.83E-10 |
| ENSG00000131849 | ZNF132 | 2.736727849 | 0.406129828 | 2.752361833 | 3.38E-08 |
| ENSG00000231466 | AL022324.2 | 2.732125627 | 0.401720325 | 2.749260884 | 2.89E-05 |
| ENSG00000164199 | ADGRV1 | 1.094610294 | 0.164112918 | 2.741017851 | 1.60E-09 |
| ENSG00000166780 | C16orf45 | 0.169951671 | 0.024275012 | 2.739827258 | 0.007865 |
| ENSG00000264049 | MIR4737 | 7.738046437 | 1.105262271 | 2.739827258 | 0.007865 |
| ENSG00000253910 | PCDHGB2 | 0.131428342 | 0.01877254 | 2.739827258 | 0.007865 |
| ENSG00000226245 | ZNF32-AS1 | 1.444197607 | 0.206281668 | 2.739827258 | 0.007865 |
| ENSG00000151690 | MFSD6 | 1.434188079 | 0.215243001 | 2.735650567 | 5.94E-08 |
| ENSG00000121089 | NACA3P | 1.418641847 | 0.207236676 | 2.731159497 | 0.00237 |
| ENSG00000004139 | SARM1 | 1.19687158 | 0.180869219 | 2.727519511 | 1.82E-08 |
| ENSG00000266921 | AC006213.1 | 0.41656173 | 0.061551216 | 2.72667809 | 0.000637 |
| ENSG00000185652 | NTF3 | 0.41513466 | 0.061340352 | 2.72667809 | 0.000637 |
| ENSG00000110876 | SELPLG | 2.965527179 | 0.448708119 | 2.723088381 | 1.27E-07 |
| ENSG00000277075 | HIST1H2AE | 3.53000861 | 0.527659591 | 2.722093788 | 8.24E-05 |
| ENSG00000198478 | SH3BGRL2 | 9.348517997 | 1.42380014 | 2.718548855 | 1.74E-09 |
| ENSG00000095932 | SMIM24 | 1.980485316 | 0.298819239 | 2.718349843 | 6.48E-06 |
| ENSG00000224858 | RPL29P11 | 10.70115202 | 1.637675194 | 2.704421929 | 7.49E-07 |
| ENSG00000164764 | SBSPON | 0.934285689 | 0.14298054 | 2.702096351 | 2.67E-06 |
| ENSG00000147155 | EBP | 50.68372234 | 7.822861912 | 2.699960518 | 1.00E-09 |
| ENSG00000175175 | PPM1E | 0.40239734 | 0.061581794 | 2.696304672 | 1.41E-05 |
| ENSG00000254122 | PCDHGB7 | 0.471201217 | 0.072111352 | 2.694285056 | 2.74E-05 |
| ENSG00000078399 | HOXA9 | 0.675961402 | 0.103447294 | 2.691694067 | 4.60E-05 |
| ENSG00000158296 | SLC13A3 | 0.241534397 | 0.036963767 | 2.683445386 | 0.00028 |

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| ENSG00000259248 | USP3-AS1 | 0.204801957 | 0.031342334 | 2.683445386 | 0.00028 |
| ENSG00000198756 | COLGALT2 | 0.444298285 | 0.068813408 | 2.683104198 | 6.52E-06 |
| ENSG00000085117 | CD82 | 6.503852844 | 1.015837992 | 2.681581763 | 5.33E-09 |
| ENSG00000198429 | ZNF69 | 2.15271343 | 0.33599068 | 2.677546713 | 3.93E-07 |
| ENSG00000275895 | U2AF1L5 | 3.055272189 | 0.479072894 | 2.676304883 | 3.90E-09 |
| ENSG00000248243 | LINC02014 | 1.640943368 | 0.251125509 | 2.676280363 | 0.000872 |
| ENSG00000188868 | ZNF563 | 0.807235614 | 0.125783272 | 2.66835018 | 3.41E-05 |
| ENSG00000167703 | SLC43A2 | 6.441562511 | 1.017151838 | 2.666822927 | 2.12E-09 |
| ENSG00000275632 | AL035461.2 | 1.674607759 | 0.256277416 | 2.664446047 | 0.003385 |
| ENSG00000152822 | GRM1 | 0.120667556 | 0.018466634 | 2.664446047 | 0.003385 |
| ENSG00000223760 | MED15P9 | 0.389651184 | 0.059631157 | 2.664446047 | 0.003385 |
| ENSG00000262576 | PCDHGA4 | 0.179556879 | 0.027478896 | 2.664446047 | 0.003385 |
| ENSG00000090339 | ICAM1 | 2.221190987 | 0.350278073 | 2.664261074 | 1.34E-07 |
| ENSG00000249863 | AC021106.1 | 1.895748239 | 0.296164323 | 2.662025705 | 5.82E-05 |
| ENSG00000152192 | POU4F1 | 1.121140311 | 0.177201714 | 2.657927759 | 1.21E-06 |
| ENSG00000151090 | THR8 | 1.440089386 | 0.228549857 | 2.657515899 | 2.07E-08 |
| ENSG00000278000 | AC139100.2 | 2.587920666 | 0.405708054 | 2.653591685 | 0.000138 |
| ENSG00000272602 | ZNF595 | 13.32289734 | 2.128325402 | 2.649890255 | 3.14E-09 |
| ENSG00000088280 | ASAP3 | 3.577062445 | 0.574346392 | 2.641052667 | 1.76E-08 |
| ENSG00000129128 | SPCS3 | 37.80937947 | 6.107338555 | 2.634528377 | 1.70E-09 |
| ENSG00000134317 | GRHL1 | 1.571158171 | 0.253312436 | 2.63414761 | 5.24E-08 |
| ENSG00000152939 | MARVELD2 | 13.12901043 | 2.127207622 | 2.629708996 | 3.32E-09 |
| ENSG00000182010 | RTKN2 | 3.501085108 | 0.567274587 | 2.629031981 | 6.82E-09 |
| ENSG00000010610 | CD4 | 0.84792645 | 0.136740936 | 2.626647362 | 5.55E-06 |
| ENSG00000270659 | AC079610.2 | 1.635082856 | 0.259496359 | 2.624058163 | 0.001197 |
| ENSG00000130997 | POLN | 0.146121897 | 0.023190324 | 2.624058163 | 0.001197 |
| ENSG00000145569 | OTULINL | 4.256495352 | 0.692213226 | 2.622617444 | 2.23E-08 |
| ENSG00000219891 | ZSCAN12P1 | 5.976555118 | 0.972524074 | 2.620014098 | 9.53E-08 |
| ENSG00000274333 | CU633967.1 | 0.190888309 | 0.030673679 | 2.618080986 | 0.000178 |
| ENSG00000187867 | PALM3 | 0.659857098 | 0.106031872 | 2.618080986 | 0.000178 |
| ENSG00000198846 | TOX | 0.404603735 | 0.065015428 | 2.618080986 | 0.000178 |
| ENSG00000204920 | ZNF155 | 2.298562723 | 0.375833971 | 2.612099673 | 2.40E-07 |
| ENSG00000064270 | ATP2C2 | 0.596772624 | 0.097417023 | 2.610405191 | 3.19E-06 |
| ENSG00000128203 | ASPHD2 | 2.439662898 | 0.4000279 | 2.60821398 | 2.16E-07 |
| ENSG00000184060 | ADAP2 | 1.961130489 | 0.322294478 | 2.604403508 | 3.30E-07 |
| ENSG00000166147 | FBN1 | 0.458008304 | 0.07526962 | 2.604403508 | 3.30E-07 |
| ENSG00000198929 | NOS1AP | 3.247768918 | 0.535705873 | 2.602927003 | 1.34E-08 |
| ENSG00000272674 | PCDHB16 | 0.601590173 | 0.098459176 | 2.602555351 | 2.18E-05 |
| ENSG00000279133 | AC018628.1 | 0.503307341 | 0.082048142 | 2.600793408 | 9.35E-05 |
| ENSG00000180628 | PCGF5 | 8.310807206 | 1.374259102 | 2.60032042 | 4.79E-09 |
| ENSG00000128165 | ADM2 | 14.09135173 | 2.334465902 | 2.597549751 | 5.51E-09 |
| ENSG00000135929 | CYP27A1 | 1.274715394 | 0.210085051 | 2.595327146 | 7.47E-06 |
| ENSG00000136147 | PHF11 | 1.286104558 | 0.212673374 | 2.594539553 | 7.71E-07 |

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| ENSG00000099617 | EFNA2 | 0.880620669 | 0.141506181 | 2.59449741 | 0.004849 |
| ENSG00000239335 | LLPH-DT | 1.341426991 | 0.215552754 | 2.59449741 | 0.004849 |
| ENSG00000185904 | LINC00839 | 17.87995326 | 2.968884854 | 2.593968261 | 7.60E-09 |
| ENSG00000163293 | NIPAL1 | 4.190417927 | 0.695799823 | 2.59334301 | 1.51E-08 |
| ENSG00000137460 | FHDC1 | 1.432354296 | 0.237632226 | 2.59199207 | 1.47E-07 |
| ENSG00000125827 | TMX4 | 49.94056837 | 8.348434511 | 2.58507312 | 3.07E-09 |
| ENSG00000269743 | SLC25A53 | 0.238076345 | 0.039237214 | 2.581674116 | 0.000231 |
| ENSG00000154240 | CEP112 | 0.920994137 | 0.153981946 | 2.579618455 | 4.32E-07 |
| ENSG00000175707 | KDF1 | 11.60577495 | 1.94730815 | 2.57798626 | 2.72E-08 |
| ENSG00000101412 | E2F1 | 65.67477558 | 11.05218113 | 2.575330328 | 4.24E-09 |
| ENSG00000145147 | SLIT2 | 1.342366211 | 0.225843593 | 2.572981052 | 8.25E-08 |
| ENSG00000101977 | MCF2 | 1.120746678 | 0.188155637 | 2.572126291 | 1.36E-06 |
| ENSG00000167555 | ZNF528 | 1.121789944 | 0.188918217 | 2.570502077 | 1.68E-07 |
| ENSG00000268230 | AC012313.3 | 0.2617253 | 0.043134784 | 2.569874415 | 0.001649 |
| ENSG00000273284 | AP001033.2 | 1.083172203 | 0.178516937 | 2.569874415 | 0.001649 |
| ENSG00000154269 | ENPP3 | 0.27964523 | 0.046088156 | 2.569874415 | 0.001649 |
| ENSG00000267053 | AC012617.1 | 0.703195693 | 0.117180948 | 2.569174273 | 0.000119 |
| ENSG00000070404 | FSTL3 | 18.54254923 | 3.137943013 | 2.566831304 | 7.89E-09 |
| ENSG00000196335 | STK31 | 0.729876869 | 0.123075056 | 2.56417169 | 3.69E-06 |
| ENSG00000138028 | CGREF1 | 0.5276202 | 0.088661791 | 2.559680769 | 6.60E-05 |
| ENSG00000167705 | RILP | 6.636395888 | 1.128124329 | 2.558301216 | 7.82E-08 |
| ENSG00000187239 | FNBP1 | 4.020266853 | 0.685011412 | 2.556215688 | 2.30E-08 |
| ENSG00000205572 | SERF1B | 4.218262482 | 0.71890953 | 2.554373123 | 1.03E-07 |
| ENSG00000186767 | SPIN4 | 17.6398138 | 3.011752437 | 2.554194806 | 7.67E-09 |
| ENSG00000065361 | ERBB3 | 12.15795281 | 2.07993265 | 2.551504135 | 6.48E-09 |
| ENSG00000168564 | CDKN2AIP | 11.88261487 | 2.032775661 | 2.550889106 | 1.43E-08 |
| ENSG00000130818 | ZNF426 | 6.097519057 | 1.044176205 | 2.5495926 | 1.18E-08 |
| ENSG00000214796 | AC098934.1 | 2.387336436 | 0.408588334 | 2.545895127 | 6.22E-07 |
| ENSG00000137825 | ITPKA | 2.376897056 | 0.406548431 | 2.544550797 | 2.92E-06 |
| ENSG00000164061 | BSN | 1.091958775 | 0.187605072 | 2.543581123 | 4.55E-08 |
| ENSG00000171105 | INSR | 4.23012218 | 0.72813422 | 2.542130363 | 1.37E-08 |
| ENSG00000047597 | XK | 2.599056642 | 0.446857812 | 2.541881727 | 9.61E-08 |
| ENSG00000165959 | CLMN | 1.218886469 | 0.210971978 | 2.533048946 | 5.29E-08 |
| ENSG00000197128 | ZNF772 | 8.485956043 | 1.475949395 | 2.527273834 | 1.40E-08 |
| ENSG00000081059 | TCF7 | 1.893487583 | 0.329173311 | 2.526736955 | 5.49E-08 |
| ENSG00000134548 | SPX | 1.635359226 | 0.28476056 | 2.523214558 | 1.75E-07 |
| ENSG00000109572 | CLCN3 | 24.85110336 | 4.342403066 | 2.521118517 | 7.83E-09 |
| ENSG00000276790 | AC068234.2 | 1.520926369 | 0.257259322 | 2.520983752 | 0.006966 |
| ENSG00000274943 | AC079684.1 | 1.816758729 | 0.30729832 | 2.520983752 | 0.006966 |
| ENSG00000182224 | CYB5D1 | 0.199478283 | 0.033741047 | 2.520983752 | 0.006966 |
| ENSG00000171757 | LRRC34 | 0.163661836 | 0.027682821 | 2.520983752 | 0.006966 |
| ENSG00000263731 | AC145207.5 | 1.05943723 | 0.183592223 | 2.520245081 | 4.44E-05 |
| ENSG00000250722 | SELENOP | 1.623520502 | 0.283310898 | 2.519230274 | 2.98E-07 |

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| ENSG00000198331 | HYLS1 | 7.147694645 | 1.253785343 | 2.514032691 | 4.77E-08 |
| ENSG00000232653 | GOLGA8N | 0.137415979 | 0.02355334 | 2.513575991 | 0.002276 |
| ENSG00000136286 | MYO1G | 0.119701646 | 0.020517072 | 2.513575991 | 0.002276 |
| ENSG00000180096 | 1-Sep | 0.971063356 | 0.169838736 | 2.510996061 | 8.34E-06 |
| ENSG00000013297 | CLDN11 | 0.347092437 | 0.059972028 | 2.509042655 | 0.000884 |
| ENSG00000283646 | LINC02009 | 1.727490679 | 0.303375954 | 2.506887505 | 3.32E-06 |
| ENSG00000144792 | ZNF660 | 0.237380881 | 0.04123733 | 2.505982541 | 0.000392 |
| ENSG00000113356 | POLR3G | 30.23440926 | 5.357318155 | 2.50086692 | 1.14E-08 |
| ENSG00000168350 | DEGS2 | 0.570737236 | 0.100230905 | 2.499769271 | 4.40E-05 |
| ENSG00000109536 | FRG1 | 24.16065606 | 4.300616287 | 2.49372681 | 2.59E-08 |
| ENSG00000166347 | CYB5A | 24.05815387 | 4.292222475 | 2.491125541 | 1.03E-08 |
| ENSG00000074657 | ZNF532 | 3.821562855 | 0.681690921 | 2.490742397 | 2.29E-08 |
| ENSG00000197329 | PELI1 | 5.399186728 | 0.965798268 | 2.485896257 | 5.90E-08 |
| ENSG00000256673 | AC141557.1 | 12.53563523 | 2.238156098 | 2.483066181 | 4.21E-06 |
| ENSG00000126460 | PRRG2 | 7.050220087 | 1.263156881 | 2.48221111 | 2.39E-07 |
| ENSG00000138172 | CALHM2 | 1.290670294 | 0.230440782 | 2.481288261 | 1.10E-05 |
| ENSG00000233834 | AC005083.1 | 3.339125921 | 0.596179205 | 2.478332037 | 4.07E-05 |
| ENSG00000120327 | PCDHB14 | 0.571217844 | 0.101987229 | 2.477259201 | 6.37E-05 |
| ENSG00000166833 | NAV2 | 9.01037049 | 1.626030396 | 2.474520798 | 1.53E-08 |
| ENSG00000135525 | MAP7 | 5.032358307 | 0.912191397 | 2.467096539 | 5.49E-08 |
| ENSG00000241547 | ACTG1P20 | 3.214265443 | 0.573886179 | 2.466593516 | 0.000512 |
| ENSG00000185101 | ANO9 | 1.036726183 | 0.187504619 | 2.466109949 | 1.70E-06 |
| ENSG00000113448 | PDE4D | 0.363841919 | 0.065876559 | 2.46409353 | 2.23E-06 |
| ENSG00000168453 | HR | 12.80583259 | 2.32886461 | 2.46334689 | 1.83E-08 |
| ENSG00000182378 | PLCXD1 | 12.72259323 | 2.320943652 | 2.458721844 | 2.32E-08 |
| ENSG00000155962 | CLIC2 | 0.956357148 | 0.173378289 | 2.455276226 | 7.64E-05 |
| ENSG00000138615 | CILP | 0.176093208 | 0.031440296 | 2.454991103 | 0.003149 |
| ENSG00000108771 | DHX58 | 0.260955196 | 0.046591852 | 2.454991103 | 0.003149 |
| ENSG00000261428 | AC097461.1 | 0.873924706 | 0.158678206 | 2.451778265 | 6.54E-05 |
| ENSG00000188039 | NWD1 | 0.276538597 | 0.050211017 | 2.451778265 | 6.54E-05 |
| ENSG00000159915 | ZNF233 | 0.546686964 | 0.099449049 | 2.447501777 | 0.000112 |
| ENSG00000167291 | TBC1D16 | 7.037168946 | 1.293888597 | 2.447412269 | 2.55E-08 |
| ENSG00000146205 | ANO7 | 0.814431086 | 0.149341408 | 2.444261579 | 6.92E-06 |
| ENSG00000164104 | HMGB2 | 160.9982124 | 29.68077276 | 2.443923672 | 1.70E-08 |
| ENSG00000272263 | AC034198.2 | 1.474780615 | 0.263312482 | 2.443522074 | 0.006966 |
| ENSG00000258344 | AC078778.2 | 1.326522246 | 0.236841915 | 2.443522074 | 0.006966 |
| ENSG00000226763 | SRRM5 | 0.278776173 | 0.049773672 | 2.443522074 | 0.006966 |
| ENSG00000105928 | GSDME | 0.770216948 | 0.141735544 | 2.441546662 | 1.61E-06 |
| ENSG00000237172 | B3GNT9 | 4.741509839 | 0.874699332 | 2.440550256 | 2.28E-07 |
| ENSG00000237276 | ANO7L1 | 0.860906272 | 0.157458218 | 2.435275779 | 0.000315 |
| ENSG00000212994 | RPS26P6 | 4.922998509 | 0.900407626 | 2.435275779 | 0.000315 |
| ENSG00000182552 | RWDD4 | 14.19440925 | 2.644507205 | 2.427943301 | 5.58E-08 |
| ENSG00000269473 | AC012313.8 | 0.270731354 | 0.049718388 | 2.426098819 | 0.00067 |

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| ENSG00000243056 | EIF4EBP3 | 2.116484481 | 0.388681233 | 2.426098819 | 0.00067 |
| ENSG00000166922 | SCG5 | 0.665979406 | 0.122303612 | 2.426098819 | 0.00067 |
| ENSG00000140836 | ZFHX3 | 1.200263678 | 0.223875046 | 2.425886949 | 8.62E-08 |
| ENSG00000125637 | PSD4 | 4.827615312 | 0.905785536 | 2.418105074 | 4.05E-08 |
| ENSG00000240087 | RPSAP12 | 5.929016662 | 1.108996265 | 2.416666407 | 5.26E-06 |
| ENSG00000166831 | RBPMS2 | 4.315774781 | 0.809613819 | 2.415146126 | 7.67E-07 |
| ENSG00000143412 | ANXA9 | 10.43492089 | 1.961144445 | 2.414438722 | 1.65E-07 |
| ENSG00000025423 | HSD17B6 | 0.533353025 | 0.098510392 | 2.413239927 | 0.001592 |
| ENSG00000174327 | SLC16A13 | 2.282482696 | 0.428970982 | 2.409147201 | 7.69E-06 |
| ENSG00000160190 | SLC37A1 | 3.372761655 | 0.637220844 | 2.407163551 | 1.21E-07 |
| ENSG00000147050 | KDM6A | 10.76974778 | 2.037822473 | 2.406005767 | 4.27E-08 |
| ENSG00000179627 | ZBTB42 | 4.419306316 | 0.836801 | 2.403483999 | 2.33E-07 |
| ENSG00000114854 | TNNC1 | 19.60481765 | 3.7174853 | 2.401909061 | 1.28E-07 |
| ENSG00000135842 | FAM129A | 1.177898516 | 0.224564157 | 2.392214785 | 9.25E-07 |
| ENSG00000168646 | AXIN2 | 1.079417499 | 0.205571169 | 2.391229957 | 4.64E-06 |
| ENSG00000124635 | HIST1H2BJ | 5.190192831 | 0.989500591 | 2.388868428 | 8.48E-06 |
| ENSG00000003987 | MTMR7 | 0.866247925 | 0.165148553 | 2.388868428 | 8.48E-06 |
| ENSG00000178127 | NDUFV2 | 1.387196816 | 0.264186629 | 2.388308022 | 2.59E-05 |
| ENSG00000161544 | CYGB | 1.431105638 | 0.273223532 | 2.385718965 | 1.54E-05 |
| ENSG00000236609 | ZNF853 | 2.361739244 | 0.452621664 | 2.384417899 | 9.75E-07 |
| ENSG00000115616 | SLC9A2 | 0.93570361 | 0.179531238 | 2.380513836 | 5.17E-06 |
| ENSG00000095585 | BLNK | 0.514458354 | 0.097976738 | 2.379594158 | 0.000258 |
| ENSG00000243789 | JMJD7 | 0.954005725 | 0.181686949 | 2.379594158 | 0.000258 |
| ENSG00000164197 | RNF180 | 0.984272672 | 0.189464815 | 2.375575927 | 6.50E-06 |
| ENSG00000184635 | ZNF93 | 4.022008793 | 0.778279769 | 2.372662217 | 1.81E-07 |
| ENSG00000233080 | LINC01399 | 2.02187665 | 0.388761605 | 2.36335821 | 0.000519 |
| ENSG00000138606 | SHF | 0.332985815 | 0.064025716 | 2.36335821 | 0.000519 |
| ENSG00000120784 | ZFP30 | 3.24304991 | 0.633248578 | 2.359776482 | 1.94E-07 |
| ENSG00000108830 | RND2 | 0.950323828 | 0.185099057 | 2.35690131 | 2.01E-05 |
| ENSG00000239887 | C1orf226 | 12.6146511 | 2.469689488 | 2.356689791 | 9.32E-08 |
| ENSG00000178568 | ERBB4 | 0.247213193 | 0.04815088 | 2.354690613 | 5.57E-05 |
| ENSG00000164056 | SPRY1 | 65.15071921 | 12.79753146 | 2.35234869 | 5.36E-08 |
| ENSG00000165029 | ABCA1 | 0.342382989 | 0.067046086 | 2.348720801 | 2.80E-05 |
| ENSG00000174718 | KIAA1551 | 21.06877001 | 4.148974289 | 2.348608864 | 6.65E-08 |
| ENSG00000145113 | MUC4 | 0.23513501 | 0.046180009 | 2.346350913 | 1.04E-05 |
| ENSG00000120802 | TMPO | 141.8653253 | 28.00495097 | 2.345299072 | 5.31E-08 |
| ENSG00000102302 | FGD1 | 6.050337782 | 1.193683252 | 2.34492426 | 2.13E-07 |
| ENSG00000178458 | H3F3AP6 | 102.4811055 | 20.25776322 | 2.342615427 | 1.26E-07 |
| ENSG00000276449 | AC004076.2 | 0.955670857 | 0.18858974 | 2.33586336 | 6.53E-05 |
| ENSG00000175697 | GPR156 | 0.337980701 | 0.066501832 | 2.334577321 | 0.000214 |
| ENSG00000166558 | SLC38A8 | 4.341643867 | 0.861302512 | 2.334216771 | 2.27E-06 |
| ENSG00000274104 | AC020910.4 | 1.702370216 | 0.331578681 | 2.330161793 | 0.006073 |
| ENSG00000088340 | FER1L4 | 0.17512376 | 0.034558493 | 2.326008764 | 0.000668 |

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| ENSG0000023839 | ABCC2 | 0.287918124 | 0.057117675 | 2.324314356 | 0.000181 |
| ENSG00000129910 | CDH15 | 0.487557118 | 0.09672239 | 2.324314356 | 0.000181 |
| ENSG00000112312 | GMNN | 22.56346836 | 4.519701329 | 2.323688238 | 1.35E-07 |
| ENSG00000170390 | DCLK2 | 0.780188616 | 0.155494996 | 2.322815796 | 4.65E-05 |
| ENSG00000101986 | ABCD1 | 10.12801145 | 2.030361308 | 2.322372874 | 1.66E-07 |
| ENSG00000269737 | AL691432.1 | 3.07820253 | 0.61521608 | 2.321909414 | 7.77E-06 |
| ENSG00000167861 | HID1 | 6.103265484 | 1.228168291 | 2.316810191 | 1.92E-07 |
| ENSG00000231010 | AL121672.1 | 1.521400832 | 0.303221825 | 2.314197767 | 0.000412 |
| ENSG00000134909 | ARHGAP32 | 2.141174877 | 0.432258167 | 2.311871567 | 2.67E-07 |
| ENSG00000246596 | AC139795.1 | 0.505922498 | 0.100365744 | 2.310619999 | 0.00289 |
| ENSG00000224292 | AF196972.1 | 1.727729204 | 0.342749785 | 2.310619999 | 0.00289 |
| ENSG00000165272 | AQP3 | 0.382443109 | 0.075869698 | 2.310619999 | 0.00289 |
| ENSG00000135363 | LMO2 | 0.362884262 | 0.071989582 | 2.310619999 | 0.00289 |
| ENSG00000205413 | SAMD9 | 0.164581644 | 0.03264998 | 2.310619999 | 0.00289 |
| ENSG00000125775 | SDCBP2 | 5.843347995 | 1.181085012 | 2.30925176 | 7.33E-07 |
| ENSG00000102189 | EEA1 | 7.171453716 | 1.455352734 | 2.305032141 | 1.37E-07 |
| ENSG00000171208 | NETO2 | 8.786059891 | 1.783105246 | 2.304914635 | 1.46E-07 |
| ENSG00000186212 | SOWAHB | 1.985457753 | 0.403146129 | 2.299868793 | 5.96E-06 |
| ENSG00000196967 | ZNF585A | 1.021525706 | 0.208045743 | 2.297533667 | 1.52E-06 |
| ENSG00000145506 | NKD2 | 1.520787636 | 0.31031627 | 2.290642582 | 2.34E-05 |
| ENSG00000266066 | POLRMT1 | 0.95691872 | 0.195258983 | 2.288919952 | 6.24E-05 |
| ENSG00000268521 | VN1R83P | 3.474295906 | 0.704138997 | 2.287666634 | 0.000861 |
| ENSG00000204172 | AGAP9 | 2.380737873 | 0.487574852 | 2.286946182 | 9.35E-06 |
| ENSG00000075618 | FSCN1 | 30.377072 | 6.244043285 | 2.286718063 | 1.41E-07 |
| ENSG00000205269 | TMEM170B | 3.802765849 | 0.781561326 | 2.286225643 | 3.05E-07 |
| ENSG00000223773 | CD99P1 | 0.882145135 | 0.181441467 | 2.280308909 | 1.37E-05 |
| ENSG00000004399 | PLXND1 | 9.701879664 | 2.004181677 | 2.279490313 | 1.67E-07 |
| ENSG00000164300 | SERINC5 | 7.942292051 | 1.641782216 | 2.278455139 | 1.83E-07 |
| ENSG00000125967 | NECAB3 | 47.85791032 | 9.907268587 | 2.276611033 | 1.33E-07 |
| ENSG00000151012 | SLC7A11 | 41.62082171 | 8.623108409 | 2.275507972 | 1.27E-07 |
| ENSG00000163141 | BNIPL | 0.515598894 | 0.105767419 | 2.274617646 | 0.000333 |
| ENSG00000158813 | EDA | 9.438890934 | 1.957067484 | 2.274028706 | 2.02E-07 |
| ENSG00000163435 | ELF3 | 9.059034589 | 1.879914175 | 2.272789485 | 2.07E-07 |
| ENSG00000138641 | HERC3 | 3.848738696 | 0.80151701 | 2.26703259 | 4.40E-07 |
| ENSG00000100191 | SLC5A4 | 1.914308828 | 0.396914382 | 2.266824717 | 4.53E-05 |
| ENSG00000278206 | AL031320.2 | 0.42207526 | 0.086124333 | 2.263448343 | 0.008459 |
| ENSG00000237766 | GGTA2P | 0.779995081 | 0.159157767 | 2.263448343 | 0.008459 |
| ENSG00000238099 | LINC01625 | 0.519227495 | 0.105948218 | 2.263448343 | 0.008459 |
| ENSG00000186340 | THBS2 | 0.136851913 | 0.027924593 | 2.263448343 | 0.008459 |
| ENSG00000196405 | EVL | 4.599114202 | 0.960925695 | 2.262810707 | 2.80E-07 |
| ENSG00000113083 | LOX | 1.122414307 | 0.234023893 | 2.261682123 | 8.70E-06 |
| ENSG00000113163 | COL4A3BP | 16.68377078 | 3.492105942 | 2.260735554 | 1.54E-07 |
| ENSG00000267751 | AC009005.1 | 3.236560926 | 0.672740561 | 2.260319033 | 0.000169 |

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| ENSG00000105649 | RAB3A | 4.711780751 | 0.984887172 | 2.25935341 | 4.17E-06 |
| ENSG00000260743 | AC007823.1 | 0.693755887 | 0.142921845 | 2.256436251 | 0.003905 |
| ENSG00000214029 | ZNF891 | 1.987208431 | 0.417074705 | 2.255965075 | 4.35E-07 |
| ENSG00000081665 | ZNF506 | 1.395496989 | 0.292604196 | 2.255808522 | 1.87E-06 |
| ENSG00000127334 | DYRK2 | 33.90721641 | 7.133621606 | 2.253351587 | 1.66E-07 |
| ENSG00000112182 | BACH2 | 0.132367563 | 0.0274452 | 2.251696087 | 0.001999 |
| ENSG00000185739 | SRL | 0.227174496 | 0.047102549 | 2.251696087 | 0.001999 |
| ENSG00000188338 | SLC38A3 | 0.379101872 | 0.078967201 | 2.248277609 | 0.001111 |
| ENSG00000171722 | SPATA46 | 0.807015143 | 0.168101853 | 2.248277609 | 0.001111 |
| ENSG00000225489 | AL354707.1 | 0.603453146 | 0.126137716 | 2.245695664 | 0.00066 |
| ENSG0000043355 | ZIC2 | 35.03160902 | 7.410933787 | 2.245235816 | 2.30E-07 |
| ENSG00000174652 | ZNF266 | 11.00308964 | 2.327616075 | 2.245050912 | 3.07E-07 |
| ENSG00000226950 | DANCR | 93.88468455 | 19.88383755 | 2.243714987 | 1.94E-07 |
| ENSG00000242615 | AC022415.1 | 1.404784436 | 0.295076611 | 2.242054591 | 0.000273 |
| ENSG00000101844 | ATG4A | 9.721862647 | 2.064578567 | 2.23892444 | 5.90E-07 |
| ENSG00000178665 | ZNF713 | 0.653200824 | 0.138564067 | 2.234678711 | 3.89E-05 |
| ENSG00000259207 | ITGB3 | 10.27043396 | 2.200462982 | 2.226540254 | 4.25E-07 |
| ENSG00000170345 | FOS | 5.484501721 | 1.175066512 | 2.225562743 | 1.15E-06 |
| ENSG00000104154 | SLC30A4 | 0.750512865 | 0.160799026 | 2.222457147 | 1.16E-05 |
| ENSG00000159208 | CIART | 1.704895988 | 0.365277701 | 2.220960976 | 3.00E-05 |
| ENSG00000180834 | MAP6D1 | 1.735276194 | 0.371786727 | 2.220341836 | 4.42E-05 |
| ENSG00000122547 | EEPD1 | 8.069152447 | 1.736221772 | 2.220294364 | 4.97E-07 |
| ENSG00000119772 | DNMT3A | 6.876174842 | 1.48589731 | 2.214485836 | 3.67E-07 |
| ENSG00000260103 | AC012435.1 | 0.61721493 | 0.132239651 | 2.213558295 | 0.000337 |
| ENSG00000249550 | LINC01234 | 8.172578126 | 1.766965341 | 2.213301745 | 5.79E-07 |
| ENSG00000277938 | AL035252.3 | 0.675411381 | 0.144708368 | 2.212057527 | 0.000519 |
| ENSG00000132170 | PPARG | 8.75329178 | 1.895153124 | 2.211356082 | 5.73E-07 |
| ENSG00000101489 | CELF4 | 0.255881511 | 0.054823174 | 2.210184965 | 0.000838 |
| ENSG00000197461 | PDGFA | 21.16955022 | 4.62620557 | 2.198328322 | 4.27E-07 |
| ENSG00000145331 | TRMT10A | 8.979243929 | 1.962667142 | 2.197625167 | 6.71E-07 |
| ENSG00000214530 | STARD10 | 10.6547268 | 2.340713116 | 2.190328599 | 7.15E-07 |
| ENSG0000010810 | FYN | 1.843724517 | 0.404686165 | 2.190273192 | 2.29E-06 |
| ENSG00000106853 | PTGR1 | 14.08036333 | 3.095322263 | 2.189556285 | 5.89E-07 |
| ENSG00000196517 | SLC6A9 | 8.674591541 | 1.908875137 | 2.188011333 | 6.75E-07 |
| ENSG00000089682 | RBM41 | 7.294132938 | 1.614143064 | 2.179907263 | 7.40E-07 |
| ENSG00000151929 | BAG3 | 54.97365091 | 12.20516139 | 2.175624541 | 4.59E-07 |
| ENSG00000163701 | IL17RE | 2.242974367 | 0.497793486 | 2.173742394 | 4.97E-06 |
| ENSG00000185818 | NAT8L | 6.547881911 | 1.45626917 | 2.172597742 | 8.83E-07 |
| ENSG00000111424 | VDR | 5.59692326 | 1.246488063 | 2.170463401 | 9.82E-07 |
| ENSG00000164306 | PRIMPOL | 5.93785512 | 1.322582569 | 2.169527088 | 2.19E-06 |
| ENSG00000197050 | ZNF420 | 5.286799512 | 1.179440947 | 2.167569736 | 1.67E-06 |
| ENSG00000197013 | ZNF429 | 1.827183343 | 0.40742058 | 2.166643419 | 7.28E-06 |
| ENSG00000153093 | ACOXL | 0.247208165 | 0.054522682 | 2.166118671 | 0.001859 |

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| ENSG00000268912 | AC012313.5 | 1.676730444 | 0.373470624 | 2.164702226 | 5.96E-05 |
| ENSG00000235437 | LINC01278 | 4.480521762 | 1.003468638 | 2.162281243 | 1.24E-06 |
| ENSG00000168116 | KIAA1586 | 9.56939239 | 2.145289538 | 2.160903344 | 1.19E-06 |
| ENSG00000184986 | TMEM121 | 2.523806112 | 0.564241033 | 2.160144106 | 4.20E-05 |
| ENSG00000163795 | ZNF513 | 5.318148278 | 1.192421431 | 2.159439513 | 3.56E-06 |
| ENSG00000160050 | CCDC28B | 2.906298207 | 0.651273244 | 2.159106973 | 1.06E-05 |
| ENSG00000169760 | NLGN1 | 0.119410531 | 0.026466174 | 2.155893359 | 0.00349 |
| ENSG00000234965 | SHISA8 | 0.862475496 | 0.19115924 | 2.155893359 | 0.00349 |
| ENSG00000056277 | ZNF280C | 3.128949377 | 0.705159237 | 2.152363629 | 3.45E-06 |
| ENSG00000155760 | FZD7 | 9.950979333 | 2.25033575 | 2.148559061 | 1.13E-06 |
| ENSG00000137563 | GGH | 28.31531663 | 6.40698998 | 2.148119494 | 7.17E-07 |
| ENSG00000180626 | ZNF594 | 2.830779502 | 0.640195196 | 2.147396703 | 3.28E-06 |
| ENSG00000196787 | HIST1H2AG | 3.0828377 | 0.696315231 | 2.147150222 | 1.38E-05 |
| ENSG00000213080 | AL354714.2 | 4.685150814 | 1.060930876 | 2.142142449 | 3.68E-05 |
| ENSG00000229368 | AC090587.2 | 1.902942729 | 0.424697552 | 2.141552939 | 0.007168 |
| ENSG00000102103 | PQBP1 | 47.77989535 | 10.86734753 | 2.140668886 | 7.85E-07 |
| ENSG00000269001 | AC092070.2 | 1.897463707 | 0.430839525 | 2.139953305 | 1.14E-05 |
| ENSG00000163596 | ICA1L | 0.465246574 | 0.105593324 | 2.138651551 | 4.38E-05 |
| ENSG00000138814 | PPP3CA | 18.78862394 | 4.284825985 | 2.136837786 | 7.91E-07 |
| ENSG00000260910 | LINC00565 | 1.774671654 | 0.403271369 | 2.13588457 | 7.67E-05 |
| ENSG00000204977 | TRIM13 | 6.029930147 | 1.379457595 | 2.132056542 | 1.15E-06 |
| ENSG00000154429 | CCSAP | 8.65331784 | 1.979783615 | 2.131981639 | 1.04E-06 |
| ENSG00000256235 | SMIM3 | 11.55114339 | 2.65032776 | 2.127422623 | 1.78E-06 |
| ENSG00000168970 | JMJD7- PLA2G4B | 0.99387933 | 0.227744197 | 2.126855169 | 1.58E-05 |
| ENSG00000126803 | HSPA2 | 1.251321271 | 0.28669474 | 2.126791772 | 1.41E-05 |
| ENSG00000230896 | AL604028.1 | 6.218904879 | 1.422239661 | 2.125993387 | 0.000123 |
| ENSG00000170775 | GPR37 | 1.231017914 | 0.281529069 | 2.125993387 | 0.000123 |
| ENSG00000156265 | MAP3K7CL | 0.436716964 | 0.099539964 | 2.1245281 | 0.000635 |
| ENSG00000197980 | LEKR1 | 0.246147782 | 0.055933926 | 2.123215316 | 0.00241 |
| ENSG00000198315 | ZKSCAN8 | 8.550413453 | 1.970405765 | 2.121654995 | 1.07E-06 |
| ENSG00000164305 | CASP3 | 34.4632676 | 7.982936893 | 2.114365486 | 9.88E-07 |
| ENSG00000183562 | AC131971.1 | 1.184203058 | 0.271840822 | 2.112816623 | 0.001019 |
| ENSG00000170175 | CHRN B1 | 1.650568741 | 0.382590786 | 2.110028642 | 1.66E-05 |
| ENSG00000181315 | ZNF322 | 5.864334856 | 1.362625179 | 2.109265819 | 1.99E-06 |
| ENSG00000108379 | WNT3 | 1.957186549 | 0.454447939 | 2.108109912 | 1.40E-05 |
| ENSG00000139133 | ALG10 | 4.208058609 | 0.979097678 | 2.106792662 | 3.28E-06 |
| ENSG00000284428 | IPO5P1 | 0.607370528 | 0.140681585 | 2.106355045 | 0.000243 |
| ENSG00000186187 | ZNRF1 | 8.036027871 | 1.871893926 | 2.106177968 | 1.26E-06 |
| ENSG00000285437 | POLR2J3 | 0.296185961 | 0.068435628 | 2.106118587 | 0.00062 |
| ENSG00000169862 | CTNND2 | 0.170478307 | 0.039134304 | 2.105495632 | 0.004621 |
| ENSG00000164379 | FOXQ1 | 0.506709667 | 0.116318203 | 2.105495632 | 0.004621 |
| ENSG00000185187 | SIGIRR | 9.968268287 | 2.330345594 | 2.100621198 | 1.92E-06 |

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| ENSG00000196812 | ZSCAN16 | 5.632225667 | 1.314579636 | 2.100235381 | 1.68E-05 |
| ENSG00000128886 | ELL3 | 0.536826972 | 0.124342005 | 2.098086519 | 0.001728 |
| ENSG00000136928 | GABBR2 | 0.202576216 | 0.046921511 | 2.098086519 | 0.001728 |
| ENSG00000185864 | NPIPB4 | 0.370924495 | 0.086381941 | 2.097996494 | 0.000334 |
| ENSG00000164976 | MYORG | 8.033151678 | 1.882038107 | 2.097730383 | 1.54E-06 |
| ENSG00000188732 | FAM221A | 1.921749747 | 0.450152071 | 2.096712278 | 5.78E-06 |
| ENSG00000162458 | FBLIM1 | 3.925138822 | 0.920700346 | 2.095120405 | 3.64E-06 |
| ENSG00000113391 | FAM172A | 9.319531613 | 2.18916471 | 2.093895424 | 1.65E-06 |
| ENSG00000129354 | AP1M2 | 47.03222371 | 11.05936211 | 2.092694214 | 1.23E-06 |
| ENSG00000187837 | HIST1H1C | 38.53113216 | 9.064183575 | 2.091306065 | 3.04E-06 |
| ENSG00000205336 | ADGRG1 | 16.6244229 | 3.913348346 | 2.091209424 | 1.16E-06 |
| ENSG00000246273 | SBF2-AS1 | 0.494875063 | 0.115666982 | 2.090564684 | 0.000853 |
| ENSG00000115221 | ITGB6 | 1.096567195 | 0.257863088 | 2.087941994 | 5.27E-05 |
| ENSG00000130714 | POMT1 | 4.504315938 | 1.062450892 | 2.087542841 | 2.73E-06 |
| ENSG00000138794 | CASP6 | 16.30127209 | 3.84737075 | 2.08679838 | 2.45E-06 |
| ENSG00000119699 | TGFB3 | 1.19897203 | 0.282388437 | 2.086306967 | 3.35E-05 |
| ENSG00000196782 | MAML3 | 0.893870167 | 0.210665006 | 2.085637014 | 3.02E-05 |
| ENSG00000108244 | KRT23 | 1.699063814 | 0.401047957 | 2.082335089 | 6.32E-05 |
| ENSG00000167614 | TTYH1 | 0.135974161 | 0.031666046 | 2.080487972 | 0.009733 |
| ENSG00000162086 | ZNF75A | 3.088692627 | 0.732820551 | 2.079013112 | 3.37E-06 |
| ENSG00000171604 | CXXC5 | 35.32020448 | 8.390180181 | 2.078092575 | 1.36E-06 |
| ENSG00000172465 | TCEAL1 | 15.85864798 | 3.772173199 | 2.075373797 | 3.35E-06 |
| ENSG00000256223 | ZNF10 | 4.411566268 | 1.0502086 | 2.074149278 | 3.66E-06 |
| ENSG00000087301 | TXNDC16 | 7.256684105 | 1.728561156 | 2.073569265 | 2.51E-06 |
| ENSG00000167617 | CDC42EP5 | 4.581129153 | 1.0905744 | 2.069145788 | 0.000115 |
| ENSG00000179222 | MAGED1 | 24.71981703 | 5.9227801 | 2.065711799 | 1.55E-06 |
| ENSG00000143845 | ETNK2 | 0.504564924 | 0.120115712 | 2.064155038 | 0.001028 |
| ENSG00000272462 | U91328.1 | 2.488915469 | 0.596119058 | 2.063990967 | 1.29E-05 |
| ENSG00000057468 | MSH4 | 0.5757334 | 0.137057936 | 2.06196798 | 0.000974 |
| ENSG00000135205 | CCDC146 | 2.259433169 | 0.542339822 | 2.060795113 | 1.40E-05 |
| ENSG00000130717 | UCK1 | 33.93513356 | 8.159944107 | 2.060434855 | 1.85E-06 |
| ENSG00000186111 | PIP5K1C | 14.66061413 | 3.529362912 | 2.058781353 | 1.83E-06 |
| ENSG00000149177 | PTPRJ | 30.69189138 | 7.393825447 | 2.057938192 | 1.49E-06 |
| ENSG00000133121 | STARD13 | 5.848369002 | 1.408853624 | 2.057567667 | 2.44E-06 |
| ENSG00000123080 | CDKN2C | 21.45943583 | 5.180542144 | 2.054649251 | 2.12E-06 |
| ENSG00000270228 | AC079880.1 | 0.551420904 | 0.131270152 | 2.053273432 | 0.006128 |
| ENSG00000200090 | RF00019 | 11.39603202 | 2.712916482 | 2.053273432 | 0.006128 |
| ENSG00000268362 | AC092279.1 | 0.934498899 | 0.22473498 | 2.04855177 | 0.000759 |
| ENSG00000107864 | CPEB3 | 1.370360393 | 0.33312616 | 2.042734733 | 1.33E-05 |
| ENSG00000048740 | CELF2 | 0.319728353 | 0.077473066 | 2.042701762 | 0.000244 |
| ENSG00000089486 | CDIP1 | 5.46304628 | 1.331986056 | 2.039644641 | 4.85E-06 |
| ENSG00000205707 | ETFRF1 | 18.06297263 | 4.410964573 | 2.037883316 | 3.06E-06 |
| ENSG00000111837 | MAK | 0.524048483 | 0.127107777 | 2.037252913 | 0.00124 |

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| ENSG00000213064 | SFT2D2 | 21.6803221 | 5.301683369 | 2.036321462 | 1.92E-06 |
| ENSG00000184992 | BRI3BP | 34.6452173 | 8.477251888 | 2.035439835 | 1.95E-06 |
| ENSG00000148832 | PAOX | 1.853460925 | 0.452152747 | 2.034175961 | 0.000132 |
| ENSG00000004799 | PDK4 | 4.12399005 | 1.01036478 | 2.032430125 | 7.21E-06 |
| ENSG00000189164 | ZNF527 | 2.155495595 | 0.528588762 | 2.030626656 | 1.06E-05 |
| ENSG00000136802 | LRRC8A | 32.09410243 | 7.891319015 | 2.028383981 | 2.18E-06 |
| ENSG00000071575 | TRIB2 | 26.95835533 | 6.653977589 | 2.022807703 | 2.52E-06 |
| ENSG00000276007 | AC079414.3 | 1.840093244 | 0.451737928 | 2.018883407 | 0.000931 |
| ENSG00000225526 | MKRN2OS | 1.096611064 | 0.269215058 | 2.018883407 | 0.000931 |
| ENSG00000143320 | CRABP2 | 1.32953707 | 0.325549978 | 2.018202797 | 0.002817 |
| ENSG00000084453 | SLCO1A2 | 0.126952324 | 0.031085501 | 2.018202797 | 0.002817 |
| ENSG00000185436 | IFNLR1 | 2.860389378 | 0.709226795 | 2.014767733 | 1.22E-05 |
| ENSG00000148400 | NOTCH1 | 7.195779176 | 1.785866097 | 2.01476692 | 3.13E-06 |
| ENSG00000168491 | CCDC110 | 0.962002703 | 0.237820601 | 2.013452686 | 0.000326 |
| ENSG00000262681 | AC005722.2 | 1.500308469 | 0.371919114 | 2.012078009 | 9.17E-05 |
| ENSG00000130024 | PHF10 | 20.93802945 | 5.20915261 | 2.01135835 | 2.90E-06 |
| ENSG00000144043 | TEX261 | 41.59908372 | 10.36066626 | 2.009858935 | 2.63E-06 |
| ENSG00000121211 | MND1 | 20.18754405 | 5.036221531 | 2.006838193 | 5.50E-06 |
| ENSG00000133805 | AMPD3 | 0.424436347 | 0.105433527 | 2.005608197 | 0.00053 |
| ENSG00000135127 | BICDL1 | 1.699153085 | 0.424449734 | 2.003191863 | 2.58E-05 |
| ENSG00000197558 | SSPO | 0.051382034 | 0.012702362 | 1.999089684 | 0.008135 |
| ENSG00000231107 | LINC01508 | 1.12509354 | 0.280295066 | 1.996571589 | 0.001501 |
| ENSG00000164180 | TMEM161B | 9.63877766 | 2.425174351 | 1.995067409 | 3.65E-06 |
| ENSG00000147140 | NONO | 142.8932922 | 36.10147478 | 1.989334871 | 2.98E-06 |
| ENSG00000127252 | HRASLS | 5.0042456 | 1.263629619 | 1.986189955 | 6.88E-05 |
| ENSG00000196081 | ZNF724 | 2.075436296 | 0.525515279 | 1.98283004 | 4.74E-05 |
| ENSG00000124782 | RREB1 | 5.274644242 | 1.338690792 | 1.982555489 | 4.08E-06 |
| ENSG00000197712 | FAM114A1 | 8.749981477 | 2.223912033 | 1.980199211 | 5.66E-06 |
| ENSG00000115112 | TFCP2L1 | 1.560489518 | 0.396429697 | 1.979850834 | 1.51E-05 |
| ENSG00000162924 | REL | 1.989330116 | 0.506431676 | 1.977527002 | 8.09E-06 |
| ENSG00000105750 | ZNF85 | 2.748100553 | 0.700023116 | 1.975736531 | 2.02E-05 |
| ENSG00000111252 | SH2B3 | 37.68191652 | 9.611229988 | 1.975529689 | 3.71E-06 |
| ENSG00000076555 | ACACB | 3.096818998 | 0.790028212 | 1.97486001 | 5.91E-06 |
| ENSG00000154274 | C4orf19 | 1.900710034 | 0.484799155 | 1.971311554 | 0.000105 |
| ENSG00000156427 | FGF18 | 98.10954526 | 25.10882068 | 1.970639549 | 3.94E-06 |
| ENSG00000197457 | STMN3 | 17.59895139 | 4.517650172 | 1.965977906 | 5.80E-06 |
| ENSG00000137868 | STRA6 | 0.614012475 | 0.157165708 | 1.965740312 | 0.000139 |
| ENSG00000140443 | IGF1R | 4.112304601 | 1.056385275 | 1.964973666 | 5.74E-06 |
| ENSG00000156531 | PHF6 | 29.08196479 | 7.482857214 | 1.962923749 | 4.20E-06 |
| ENSG00000174607 | UGT8 | 14.93925458 | 3.858068609 | 1.957394657 | 5.84E-06 |
| ENSG00000196696 | PDXDC2P-NPIPBP14P | 0.341719421 | 0.087856962 | 1.953398977 | 0.001807 |
| ENSG00000155957 | TMBIM4 | 4.636094247 | 1.201040981 | 1.952016709 | 1.44E-05 |

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| ENSG00000204272 | NBDY | 40.85525326 | 10.5942011 | 1.951483659 | 6.25E-06 |
| ENSG00000260097 | SPDYE6 | 1.334366849 | 0.344128081 | 1.949785151 | 0.001678 |
| ENSG00000214367 | HAUS3 | 4.286748521 | 1.114802528 | 1.946918753 | 9.75E-06 |
| ENSG00000143801 | PSEN2 | 19.03287189 | 4.951144886 | 1.946904886 | 6.39E-06 |
| ENSG00000163257 | DCAF16 | 23.3915231 | 6.097302327 | 1.944102975 | 5.82E-06 |
| ENSG00000117407 | ARTN | 0.974679438 | 0.252613555 | 1.943972515 | 0.00105 |
| ENSG00000072163 | LIMS2 | 0.305254854 | 0.079114744 | 1.943972515 | 0.00105 |
| ENSG00000251333 | RTN3P1 | 3.643738322 | 0.944369662 | 1.943972515 | 0.00105 |
| ENSG00000235499 | AC073046.1 | 7.4999527 | 1.951213009 | 1.939501995 | 0.000701 |
| ENSG00000176018 | LYSMD3 | 19.65106307 | 5.149917373 | 1.936291963 | 6.62E-06 |
| ENSG00000125898 | FAM110A | 6.339967363 | 1.660938765 | 1.935758505 | 1.91E-05 |
| ENSG00000109881 | CCDC34 | 15.72691088 | 4.124970253 | 1.934962254 | 7.83E-06 |
| ENSG00000205795 | CYS1 | 12.22595029 | 3.207473439 | 1.934363161 | 1.02E-05 |
| ENSG00000123191 | ATP7B | 7.954401287 | 2.087495399 | 1.934251743 | 7.03E-06 |
| ENSG00000146267 | FAXC | 0.118240428 | 0.030706995 | 1.933635201 | 0.004613 |
| ENSG00000196810 | CTBP1-DT | 1.982404377 | 0.52090078 | 1.93131426 | 2.10E-05 |
| ENSG00000237522 | NONOP2 | 1.391716881 | 0.363632185 | 1.928069486 | 0.002322 |
| ENSG00000188738 | FSIP2 | 0.094263595 | 0.024768902 | 1.922883026 | 0.002011 |
| ENSG00000140450 | ARRDC4 | 1.498201329 | 0.395744693 | 1.921584896 | 0.000104 |
| ENSG00000233927 | RPS28 | 194.4137607 | 51.5018836 | 1.920937517 | 6.27E-06 |
| ENSG00000134453 | RBM17 | 83.96799024 | 22.25952412 | 1.919933436 | 6.27E-06 |
| ENSG00000138587 | MNS1 | 11.06379946 | 2.931769969 | 1.919777801 | 1.39E-05 |
| ENSG00000107249 | GLIS3 | 2.042278923 | 0.541275701 | 1.919404339 | 1.51E-05 |
| ENSG00000234678 | ELF3-AS1 | 1.335573754 | 0.353668049 | 1.918636203 | 8.45E-05 |
| ENSG00000228106 | AL392172.1 | 9.303028326 | 2.470555843 | 1.915250868 | 4.35E-05 |
| ENSG00000268225 | AC010487.1 | 3.458352153 | 0.916650962 | 1.914867077 | 0.000308 |
| ENSG00000156504 | FAM122B | 13.27380691 | 3.537140427 | 1.912115739 | 9.81E-06 |
| ENSG00000125843 | AP5S1 | 3.607705585 | 0.962121747 | 1.910262709 | 1.95E-05 |
| ENSG00000250312 | ZNF718 | 2.318111777 | 0.618551574 | 1.908660689 | 3.71E-05 |
| ENSG00000174799 | CEP135 | 3.375722758 | 0.901479539 | 1.90865147 | 1.45E-05 |
| ENSG0000012963 | UBR7 | 43.13154406 | 11.52401976 | 1.908521709 | 7.70E-06 |
| ENSG00000196586 | MYO6 | 8.899325938 | 2.379553552 | 1.907288183 | 9.32E-06 |
| ENSG00000136158 | SPRY2 | 93.61151345 | 25.06322266 | 1.905595811 | 7.51E-06 |
| ENSG00000076513 | ANKRD13A | 15.77613957 | 4.226613148 | 1.904542991 | 8.59E-06 |
| ENSG00000178409 | BEND3 | 5.859372317 | 1.570865517 | 1.903211031 | 1.25E-05 |
| ENSG00000046653 | GPM6B | 1.207544304 | 0.323398767 | 1.902134422 | 0.000111 |
| ENSG00000112406 | HECA | 4.60726648 | 1.235889545 | 1.902094199 | 1.65E-05 |
| ENSG00000163072 | NOSTRIN | 6.791728182 | 1.825325476 | 1.89958545 | 1.36E-05 |
| ENSG00000131174 | COX7B | 85.98904103 | 23.13649459 | 1.89845778 | 8.14E-06 |
| ENSG00000100068 | LRP5L | 2.522996067 | 0.678084416 | 1.898361606 | 4.38E-05 |
| ENSG00000151470 | C4orf33 | 2.823421762 | 0.759345904 | 1.898100403 | 2.17E-05 |
| ENSG00000197062 | ZSCAN26 | 5.727156906 | 1.541450841 | 1.896824561 | 2.82E-05 |
| ENSG00000107719 | PALD1 | 9.522129064 | 2.564912147 | 1.896443018 | 1.29E-05 |

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| ENSG00000122778 | KIAA1549 | 1.254202393 | 0.338596078 | 1.892334892 | 2.90E-05 |
| ENSG00000146122 | DAAM2 | 0.116115494 | 0.031097499 | 1.891160863 | 0.004061 |
| ENSG00000182853 | VMO1 | 1.873320333 | 0.501703733 | 1.891160863 | 0.004061 |
| ENSG00000132640 | BTBD3 | 17.27641871 | 4.671809453 | 1.8911118 | 1.01E-05 |
| ENSG00000169129 | AFAP1L2 | 43.01974201 | 11.63732917 | 1.890711177 | 8.84E-06 |
| ENSG00000254726 | MEX3A | 7.075687857 | 1.915078046 | 1.889538186 | 1.38E-05 |
| ENSG00000189157 | FAM47E | 0.140632565 | 0.037663544 | 1.889416763 | 0.005912 |
| ENSG00000158806 | NPM2 | 0.648150472 | 0.173584574 | 1.889416763 | 0.005912 |
| ENSG00000254560 | BBOX1-AS1 | 3.789991342 | 1.023546996 | 1.888936257 | 0.000214 |
| ENSG00000088836 | SLC4A11 | 3.615124134 | 0.978485179 | 1.888640691 | 2.94E-05 |
| ENSG00000231769 | AL035701.1 | 1.583210584 | 0.424007921 | 1.887179725 | 0.008985 |
| ENSG00000183914 | DNAH2 | 0.067900448 | 0.018184775 | 1.887179725 | 0.008985 |
| ENSG00000186326 | RGS9BP | 0.404282177 | 0.108272928 | 1.887179725 | 0.008985 |
| ENSG00000137338 | PGBD1 | 2.345376914 | 0.635347538 | 1.885870305 | 0.000106 |
| ENSG00000126878 | AIF1L | 42.20338412 | 11.4801062 | 1.882686093 | 9.68E-06 |
| ENSG00000203995 | ZYG11A | 3.436127821 | 0.934551758 | 1.881697944 | 2.96E-05 |
| ENSG00000241962 | AC079447.1 | 1.572458006 | 0.42674326 | 1.879468678 | 0.000755 |
| ENSG00000067141 | NEO1 | 8.833785081 | 2.409940162 | 1.878300806 | 1.28E-05 |
| ENSG00000197372 | ZNF675 | 3.602724936 | 0.983007395 | 1.877519507 | 2.21E-05 |
| ENSG00000127419 | TMEM175 | 4.25581875 | 1.161394829 | 1.876785489 | 3.37E-05 |
| ENSG00000139372 | TDG | 43.04676969 | 11.75910689 | 1.876584882 | 1.04E-05 |
| ENSG00000171155 | C1GALT1C1 | 28.27833306 | 7.723832809 | 1.876453168 | 1.44E-05 |
| ENSG00000110195 | FOLR1 | 57.83532353 | 15.80833555 | 1.875604357 | 1.22E-05 |
| ENSG00000114279 | FGF12 | 1.42598887 | 0.389509151 | 1.874809697 | 5.58E-05 |
| ENSG00000198513 | ATL1 | 0.977549536 | 0.266936048 | 1.87236469 | 0.000338 |
| ENSG00000164162 | ANAPC10 | 1.700248328 | 0.465251378 | 1.87152575 | 0.000108 |
| ENSG00000268713 | AC005261.3 | 2.956660054 | 0.807998591 | 1.87104009 | 0.000386 |
| ENSG00000169762 | TAPT1 | 5.167132899 | 1.41814694 | 1.869403174 | 1.69E-05 |
| ENSG00000131389 | SLC6A6 | 25.74255114 | 7.071857407 | 1.868453753 | 1.12E-05 |
| ENSG00000109189 | USP46 | 9.5876452 | 2.635487163 | 1.867422633 | 1.36E-05 |
| ENSG00000119514 | GALNT12 | 9.071052587 | 2.49714579 | 1.864824 | 2.24E-05 |
| ENSG00000244490 | RWDD4P1 | 6.064437101 | 1.663762055 | 1.864469437 | 0.000615 |
| ENSG00000102053 | ZC3H12B | 0.250851473 | 0.068611248 | 1.864368781 | 0.003196 |
| ENSG00000164117 | FBXO8 | 7.345911984 | 2.023101953 | 1.863933794 | 2.80E-05 |
| ENSG00000170425 | ADORA2B | 2.358723994 | 0.649249515 | 1.862305189 | 0.000149 |
| ENSG00000139800 | ZIC5 | 8.00760201 | 2.209690651 | 1.861530842 | 1.96E-05 |
| ENSG00000146109 | ABT1 | 14.89200025 | 4.113532062 | 1.860178628 | 1.81E-05 |
| ENSG00000163430 | FSTL1 | 3.892697544 | 1.077146283 | 1.857511756 | 2.11E-05 |
| ENSG00000052802 | MSMO1 | 34.31550676 | 9.503650375 | 1.856658305 | 1.45E-05 |
| ENSG00000151623 | NR3C2 | 1.100449286 | 0.304879747 | 1.853536678 | 0.000133 |
| ENSG00000254531 | FLJ20021 | 5.712441369 | 1.586541032 | 1.848287352 | 0.00033 |
| ENSG00000237686 | AL109615.3 | 4.622606486 | 1.286744795 | 1.847630381 | 6.73E-05 |
| ENSG00000134780 | DAGLA | 1.785516916 | 0.497627203 | 1.845795723 | 7.33E-05 |

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| ENSG00000197847 | SLC22A20P | 0.325219426 | 0.089908354 | 1.843800066 | 0.007582 |
| ENSG00000110799 | VWF | 0.124660665 | 0.034462994 | 1.843800066 | 0.007582 |
| ENSG00000120437 | ACAT2 | 21.45161429 | 5.997571121 | 1.842974498 | 1.67E-05 |
| ENSG00000029993 | HMGB3 | 47.75781037 | 13.36010497 | 1.842256055 | 1.48E-05 |
| ENSG00000119547 | ONECUT2 | 7.111814737 | 1.993577503 | 1.839241168 | 1.66E-05 |
| ENSG00000109705 | NKX3-2 | 0.74590237 | 0.207754582 | 1.83902909 | 0.002895 |
| ENSG00000158691 | ZSCAN12 | 1.13303588 | 0.317700047 | 1.835797463 | 0.000177 |
| ENSG00000184602 | SNN | 22.64640221 | 6.365770061 | 1.835165344 | 1.92E-05 |
| ENSG00000133985 | TTC9 | 1.161374422 | 0.326049192 | 1.83392987 | 0.000177 |
| ENSG00000136830 | FAM129B | 69.03761663 | 19.43700046 | 1.833071572 | 1.56E-05 |
| ENSG00000162482 | AKR7A3 | 1.588335848 | 0.445013493 | 1.832791078 | 0.001513 |
| ENSG00000079482 | OPHN1 | 2.144146428 | 0.604171515 | 1.830801122 | 4.49E-05 |
| ENSG00000174720 | LARP7 | 16.10832709 | 4.549766254 | 1.828197376 | 2.13E-05 |
| ENSG00000281026 | N4BP2L2-IT2 | 0.487069671 | 0.13731019 | 1.822929168 | 0.002419 |
| ENSG00000185774 | KCNIP4 | 0.893438914 | 0.25242362 | 1.822875307 | 0.000638 |
| ENSG00000168538 | TRAPPC11 | 11.66072329 | 3.310677741 | 1.820726293 | 2.28E-05 |
| ENSG00000101882 | NKAP | 3.551816248 | 1.009353396 | 1.818980511 | 3.38E-05 |
| ENSG00000251615 | AC104825.1 | 0.488718722 | 0.137775075 | 1.818802471 | 0.004498 |
| ENSG00000232630 | PRPS1P2 | 1.694607395 | 0.477728089 | 1.818802471 | 0.004498 |
| ENSG00000125895 | TMEM74B | 0.718482864 | 0.202548063 | 1.818802471 | 0.004498 |
| ENSG00000111727 | HCFC2 | 4.392623792 | 1.249111184 | 1.818077003 | 3.47E-05 |
| ENSG00000168298 | HIST1H1E | 2.937173594 | 0.831145501 | 1.816917639 | 0.003145 |
| ENSG00000167785 | ZNF558 | 3.747619851 | 1.066569988 | 1.816912473 | 3.35E-05 |
| ENSG00000123739 | PLA2G12A | 10.98986128 | 3.133761025 | 1.814422017 | 2.50E-05 |
| ENSG00000136842 | TMOD1 | 61.02163319 | 17.40788076 | 1.814050589 | 1.93E-05 |
| ENSG00000197020 | ZNF100 | 3.798102829 | 1.083197144 | 1.813760239 | 4.02E-05 |
| ENSG00000110921 | MVK | 14.75387521 | 4.213812407 | 1.812248376 | 2.28E-05 |
| ENSG00000147894 | C9orf72 | 5.338665455 | 1.526979524 | 1.809778312 | 3.27E-05 |
| ENSG00000151725 | CENPU | 18.38107028 | 5.260007897 | 1.809281655 | 2.75E-05 |
| ENSG00000101188 | NTSR1 | 0.335309258 | 0.095083337 | 1.809001925 | 0.006485 |
| ENSG00000173991 | TCAP | 0.669197045 | 0.189763588 | 1.809001925 | 0.006485 |
| ENSG00000164114 | MAP9 | 3.708181585 | 1.0613363 | 1.808793584 | 3.38E-05 |
| ENSG00000082196 | C1QTNF3 | 1.226921792 | 0.350494244 | 1.807694582 | 0.000458 |
| ENSG00000155008 | APOOL | 11.18660586 | 3.206155192 | 1.807147541 | 2.53E-05 |
| ENSG00000136026 | CKAP4 | 49.57284373 | 14.21149144 | 1.806941134 | 2.11E-05 |
| ENSG00000159167 | STC1 | 351.3845208 | 100.7790606 | 1.806398322 | 1.95E-05 |
| ENSG00000103653 | CSK | 50.52656475 | 14.49659092 | 1.805801216 | 2.09E-05 |
| ENSG00000130066 | SAT1 | 51.65471255 | 14.83741593 | 1.804066731 | 2.33E-05 |
| ENSG00000170088 | TMEM192 | 6.206002402 | 1.783356485 | 1.803321087 | 2.75E-05 |
| ENSG00000196604 | POTEF | 4.070333764 | 1.169860636 | 1.802236831 | 6.01E-05 |
| ENSG00000280128 | AL662795.2 | 1.725087417 | 0.495220723 | 1.802051847 | 0.000265 |
| ENSG00000198908 | BHLHB9 | 2.173328084 | 0.624639433 | 1.801752809 | 9.13E-05 |
| ENSG00000102393 | GLA | 23.78556428 | 6.847281953 | 1.800682565 | 2.99E-05 |

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| ENSG00000136866 | ZFP37 | 1.690094562 | 0.486096225 | 1.800546044 | 9.47E-05 |
| ENSG00000001497 | LAS1L | 21.09832565 | 6.078942489 | 1.799629386 | 2.47E-05 |
| ENSG00000225439 | BOLA3-AS1 | 4.579539587 | 1.317998138 | 1.799111178 | 0.000147 |
| ENSG00000063587 | ZNF275 | 5.03148732 | 1.450529544 | 1.798491509 | 3.35E-05 |
| ENSG00000168297 | PXK | 7.414302992 | 2.140336052 | 1.796545563 | 3.51E-05 |
| ENSG00000182518 | FAM104B | 11.65444545 | 3.367533785 | 1.795012713 | 4.03E-05 |
| ENSG00000182952 | HMGN4 | 49.1323432 | 14.23003485 | 1.791984517 | 3.08E-05 |
| ENSG00000175741 | RWDD4P2 | 14.54697753 | 4.213935105 | 1.789699198 | 0.000167 |
| ENSG00000260822 | AC004656.1 | 1.249090429 | 0.361649137 | 1.789676336 | 0.000247 |
| ENSG00000267534 | S1PR2 | 1.949911235 | 0.565221963 | 1.788384463 | 0.000222 |
| ENSG00000158486 | DNAH3 | 0.175968142 | 0.050867184 | 1.787793973 | 0.002064 |
| ENSG00000137822 | TUBGCP4 | 8.779021836 | 2.552511744 | 1.786505107 | 2.86E-05 |
| ENSG00000155545 | MIER3 | 11.0064748 | 3.200139901 | 1.786401931 | 3.22E-05 |
| ENSG0000035115 | SH3YL1 | 7.623552458 | 2.217107608 | 1.786117631 | 3.02E-05 |
| ENSG00000122035 | RASL11A | 0.952008422 | 0.275634987 | 1.780460341 | 0.005615 |
| ENSG00000112812 | PRSS16 | 1.856253484 | 0.541557619 | 1.779833586 | 0.000127 |
| ENSG00000146950 | SHROOM2 | 1.066189624 | 0.311500177 | 1.777550287 | 0.000167 |
| ENSG00000285763 | AL358777.1 | 1.193181317 | 0.348602334 | 1.775150776 | 0.000656 |
| ENSG00000058668 | ATP2B4 | 10.20887209 | 2.993110716 | 1.774472972 | 3.23E-05 |
| ENSG00000166821 | PEX11A | 3.175746967 | 0.931682766 | 1.771874565 | 0.000135 |
| ENSG00000281344 | HELLPAR | 0.059515305 | 0.017467513 | 1.771602592 | 0.000111 |
| ENSG00000170271 | FAXDC2 | 0.908379364 | 0.266520942 | 1.770738308 | 0.000306 |
| ENSG00000280239 | AC011498.7 | 0.907034945 | 0.265001215 | 1.769480982 | 0.005682 |
| ENSG00000283078 | AL137077.2 | 0.857537236 | 0.250539862 | 1.76609857 | 0.008204 |
| ENSG00000205832 | C16orf96 | 0.360690524 | 0.105380094 | 1.76609857 | 0.008204 |
| ENSG00000166823 | MESP1 | 0.582068331 | 0.170058294 | 1.76609857 | 0.008204 |
| ENSG00000187630 | DHRS4L2 | 12.48913314 | 3.682816473 | 1.765754176 | 5.18E-05 |
| ENSG00000174516 | PELI3 | 5.789935103 | 1.710256825 | 1.763071152 | 6.41E-05 |
| ENSG00000206535 | LNP1 | 2.025173025 | 0.597107007 | 1.76244625 | 0.000543 |
| ENSG00000164849 | GPR146 | 0.674385439 | 0.198317629 | 1.76156 | 0.004472 |
| ENSG00000085871 | MGST2 | 21.02404358 | 6.231949412 | 1.758564342 | 4.10E-05 |
| ENSG00000242516 | LINC00960 | 5.884904728 | 1.744931507 | 1.75741537 | 7.73E-05 |
| ENSG00000249464 | LINC01091 | 0.311551118 | 0.092069669 | 1.755575639 | 0.003084 |
| ENSG00000250033 | SLC7A11-AS1 | 0.63753163 | 0.188904589 | 1.754683403 | 0.000853 |
| ENSG00000180747 | SMG1P3 | 1.399315785 | 0.415698051 | 1.753812729 | 0.000151 |
| ENSG00000112033 | PPARD | 7.753324608 | 2.309965908 | 1.750967504 | 5.67E-05 |
| ENSG00000272009 | AL121944.1 | 3.959262827 | 1.174542559 | 1.750894994 | 0.002232 |
| ENSG00000151726 | ACSL1 | 23.86505136 | 7.130471846 | 1.747264582 | 3.86E-05 |
| ENSG00000149573 | MPZL2 | 8.132030707 | 2.429809692 | 1.746854737 | 5.67E-05 |
| ENSG00000100612 | DHRS7 | 5.248911302 | 1.571119428 | 1.743709574 | 9.83E-05 |
| ENSG00000158423 | RIBC1 | 0.851624623 | 0.254250943 | 1.741348119 | 0.002822 |
| ENSG00000213366 | GSTM2 | 0.165014944 | 0.049103907 | 1.741071317 | 0.007013 |
| ENSG00000181007 | ZFP82 | 3.31789617 | 0.995928773 | 1.73997964 | 7.69E-05 |

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| ENSG00000198093 | ZNF649 | 5.466092184 | 1.640801721 | 1.739902272 | 8.03E-05 |
| ENSG00000187325 | TAF9B | 15.46555737 | 4.651130551 | 1.737541401 | 5.83E-05 |
| ENSG00000101945 | SUV39H1 | 6.364589145 | 1.913862697 | 1.737289291 | 8.52E-05 |
| ENSG00000091513 | TF | 0.068581793 | 0.020502976 | 1.736412271 | 0.00689 |
| ENSG00000133027 | PEMT | 51.89169931 | 15.64106762 | 1.734518734 | 4.81E-05 |
| ENSG00000099954 | CECR2 | 0.194188357 | 0.058247394 | 1.733063703 | 0.004472 |
| ENSG00000100241 | SBF1 | 14.47287618 | 4.371528275 | 1.731566747 | 4.54E-05 |
| ENSG00000142910 | TINAGL1 | 71.75766956 | 21.68226964 | 1.731126539 | 4.23E-05 |
| ENSG00000129680 | MAP7D3 | 2.453793981 | 0.741090317 | 1.730808544 | 0.000106 |
| ENSG00000072506 | HSD17B10 | 202.4814264 | 61.22310403 | 1.730118514 | 4.39E-05 |
| ENSG00000083097 | DOP1A | 3.60656902 | 1.096239721 | 1.722126622 | 7.08E-05 |
| ENSG00000174010 | KLHL15 | 7.788136469 | 2.369476481 | 1.720900817 | 6.42E-05 |
| ENSG00000278635 | AC141557.2 | 3.380980456 | 1.021565024 | 1.720215913 | 0.006069 |
| ENSG00000096654 | ZNF184 | 6.357491707 | 1.935625069 | 1.719315742 | 0.000109 |
| ENSG00000132326 | PER2 | 3.056286423 | 0.930802158 | 1.718941283 | 0.000102 |
| ENSG00000228532 | AC005000.1 | 8.705302241 | 2.642267616 | 1.717552158 | 0.003301 |
| ENSG00000197124 | ZNF682 | 1.774704128 | 0.540617415 | 1.717434002 | 0.000254 |
| ENSG00000144649 | FAM198A | 0.767313877 | 0.233405533 | 1.716269168 | 0.00141 |
| ENSG00000142599 | RERE | 6.811068432 | 2.081915174 | 1.714300125 | 5.98E-05 |
| ENSG00000163235 | TGFA | 25.04769615 | 7.657443189 | 1.714157361 | 5.57E-05 |
| ENSG00000104450 | SPAG1 | 3.794168526 | 1.160033428 | 1.713249229 | 0.000121 |
| ENSG00000109674 | NEIL3 | 9.743819204 | 2.980174054 | 1.71303252 | 8.89E-05 |
| ENSG00000155158 | TTC39B | 1.964682891 | 0.60133945 | 1.711863218 | 0.000101 |
| ENSG00000270055 | AC127502.2 | 2.488287157 | 0.761601394 | 1.709577837 | 0.000445 |
| ENSG00000164543 | STK17A | 7.096724918 | 2.17714341 | 1.708785812 | 7.97E-05 |
| ENSG00000008083 | JARID2 | 4.869759099 | 1.495825023 | 1.706864104 | 9.17E-05 |
| ENSG00000081386 | ZNF510 | 6.492588194 | 1.995856139 | 1.70588482 | 8.18E-05 |
| ENSG00000140465 | CYP1A1 | 1.994996776 | 0.612479398 | 1.705639153 | 0.000425 |
| ENSG00000147099 | HDAC8 | 0.836218017 | 0.257057866 | 1.705427014 | 0.000128 |
| ENSG00000138796 | HADH | 15.31257334 | 4.718535279 | 1.702767844 | 5.80E-05 |
| ENSG00000244701 | AC004918.1 | 2.279206405 | 0.697607095 | 1.702567759 | 0.008356 |
| ENSG00000011347 | SYT7 | 0.294807481 | 0.09023307 | 1.702567759 | 0.008356 |
| ENSG00000088899 | LZTS3 | 4.492226402 | 1.385623979 | 1.700728828 | 0.000112 |
| ENSG00000162407 | PLPP3 | 8.260650027 | 2.548940543 | 1.700513403 | 8.07E-05 |
| ENSG00000087842 | PIR | 19.62851588 | 6.058702813 | 1.700072113 | 7.93E-05 |
| ENSG00000101843 | PSMD10 | 45.21800914 | 13.96230766 | 1.699759606 | 6.47E-05 |
| ENSG00000182359 | KBTBD3 | 3.310413702 | 1.022507862 | 1.698499071 | 0.000131 |
| ENSG00000198682 | PAPSS2 | 0.992698683 | 0.306972181 | 1.693508019 | 0.001109 |
| ENSG00000214193 | SH3D21 | 1.774527413 | 0.550284244 | 1.691555093 | 0.000359 |
| ENSG00000100902 | PSMA6 | 0.732176666 | 0.227049343 | 1.690100067 | 0.000829 |
| ENSG00000104361 | NIPAL2 | 1.029896804 | 0.319793691 | 1.68883854 | 0.000526 |
| ENSG00000111247 | RAD51AP1 | 44.54610016 | 13.85941853 | 1.688837427 | 7.15E-05 |
| ENSG00000137404 | NRM | 16.9593761 | 5.275262784 | 1.688826007 | 9.85E-05 |

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| ENSG00000124762 | CDKN1A | 13.3028435 | 4.138754227 | 1.688596542 | 9.42E-05 |
| ENSG00000169246 | NPIPB3 | 0.67324449 | 0.208774366 | 1.688285193 | 0.001942 |
| ENSG00000171169 | NAIF1 | 8.897150659 | 2.769107793 | 1.687942218 | 0.000106 |
| ENSG00000232593 | KANTR | 1.591105106 | 0.496015253 | 1.685037601 | 0.000174 |
| ENSG00000002586 | CD99 | 22.14322645 | 6.907664179 | 1.684993997 | 7.36E-05 |
| ENSG00000184613 | NELL2 | 1.431008588 | 0.445958874 | 1.684730362 | 0.000295 |
| ENSG00000106078 | COBL | 0.690163205 | 0.215252311 | 1.683725871 | 0.000256 |
| ENSG00000141527 | CARD14 | 0.189797649 | 0.058856603 | 1.682866467 | 0.007499 |
| ENSG00000070731 | ST6GALNAC2 | 0.512539422 | 0.158939426 | 1.682866467 | 0.007499 |
| ENSG00000197472 | ZNF695 | 1.412873335 | 0.440957272 | 1.681237848 | 0.000672 |
| ENSG00000116990 | MYCL | 3.111419106 | 0.972534745 | 1.681217196 | 0.00018 |
| ENSG00000118276 | B4GALT6 | 2.535792526 | 0.793014222 | 1.68029901 | 0.000197 |
| ENSG00000164465 | DCBLD1 | 5.999113696 | 1.877438463 | 1.680121201 | 0.0001 |
| ENSG00000147123 | NDUFB11 | 77.17637203 | 24.18092484 | 1.678690167 | 7.87E-05 |
| ENSG00000173894 | CBX2 | 7.531226838 | 2.361339298 | 1.677436903 | 9.97E-05 |
| ENSG00000276672 | AL161891.1 | 1.018497829 | 0.318633094 | 1.677403458 | 0.000829 |
| ENSG00000183617 | MRPL54 | 58.0330338 | 18.20872758 | 1.676507443 | 9.24E-05 |
| ENSG00000113328 | CCNG1 | 77.64589736 | 24.37681642 | 1.675885832 | 7.33E-05 |
| ENSG00000204619 | PPP1R11 | 21.56774645 | 6.772670935 | 1.675323599 | 9.41E-05 |
| ENSG00000099194 | SCD | 146.5763788 | 46.0654433 | 1.67443105 | 7.12E-05 |
| ENSG00000120662 | MTRF1 | 4.340639118 | 1.363521289 | 1.674103946 | 0.000179 |
| ENSG00000279382 | AC018665.1 | 3.558819595 | 1.117434763 | 1.672249081 | 0.000884 |
| ENSG00000141404 | GNAL | 0.573962379 | 0.180218608 | 1.672249081 | 0.000884 |
| ENSG00000260257 | AL035071.1 | 2.607914102 | 0.819221847 | 1.672061622 | 0.000639 |
| ENSG00000242951 | AC007182.2 | 6.028746627 | 1.892967844 | 1.668749368 | 0.004523 |
| ENSG00000188833 | ENTPD8 | 1.001907846 | 0.31567787 | 1.664823594 | 0.002956 |
| ENSG00000106484 | MEST | 23.16765292 | 7.33913514 | 1.662835041 | 9.03E-05 |
| ENSG00000177181 | RIMKLA | 0.897961474 | 0.284099538 | 1.662722025 | 0.000425 |
| ENSG00000019485 | PRDM11 | 4.241493029 | 1.345462561 | 1.660742288 | 0.000104 |
| ENSG00000119004 | CYP20A1 | 8.291948819 | 2.631414445 | 1.659771151 | 0.000149 |
| ENSG00000187626 | ZKSCAN4 | 4.099372643 | 1.300486491 | 1.659182251 | 0.000317 |
| ENSG00000227354 | RBM26-AS1 | 2.107672857 | 0.66899782 | 1.658008389 | 0.000459 |
| ENSG00000178947 | SMIM10L2A | 2.47676668 | 0.787420119 | 1.65651553 | 0.000253 |
| ENSG00000112294 | ALDH5A1 | 1.376461907 | 0.437503816 | 1.6559508 | 0.000504 |
| ENSG00000188760 | TMEM198 | 3.112027364 | 0.989719919 | 1.655232511 | 0.000453 |
| ENSG00000064666 | CNN2 | 70.59391105 | 22.52278894 | 1.652650345 | 9.08E-05 |
| ENSG00000153395 | LPCAT1 | 47.83385293 | 15.27488116 | 1.651374125 | 9.10E-05 |
| ENSG00000174669 | SLC29A2 | 10.00085605 | 3.192663846 | 1.651235164 | 0.000159 |
| ENSG00000109775 | UFSP2 | 8.654591743 | 2.768521027 | 1.648216846 | 0.00017 |
| ENSG00000100647 | SUSD6 | 6.214062746 | 1.988618969 | 1.64786841 | 0.000141 |
| ENSG00000164930 | FZD6 | 46.80176071 | 14.98711168 | 1.647310122 | 9.74E-05 |
| ENSG00000175634 | RPS6KB2 | 13.78015552 | 4.413265545 | 1.647023813 | 0.00011 |
| ENSG00000142731 | PLK4 | 13.499628 | 4.324505089 | 1.646595512 | 0.000121 |

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| ENSG00000275993 | SIK1B | 4.129856244 | 1.322589122 | 1.646447853 | 0.000197 |
| ENSG00000163945 | UVSSA | 1.576259634 | 0.505156642 | 1.645592861 | 0.00017 |
| ENSG0000025708 | TYMP | 0.465681228 | 0.148311549 | 1.644524337 | 0.00927 |
| ENSG00000175866 | BAIAP2 | 14.84504496 | 4.768699618 | 1.642762405 | 0.000103 |
| ENSG00000197279 | ZNF165 | 4.8984368 | 1.572126732 | 1.642559652 | 0.00039 |
| ENSG00000214717 | ZBED1 | 16.1166176 | 5.177648176 | 1.642521552 | 0.000118 |
| ENSG00000175854 | SWI5 | 35.98261982 | 11.56403272 | 1.641934353 | 0.000123 |
| ENSG00000165891 | E2F7 | 9.838110253 | 3.167436521 | 1.639356934 | 0.000126 |
| ENSG00000102078 | SLC25A14 | 4.068839173 | 1.309124205 | 1.639227103 | 0.000306 |
| ENSG00000184260 | HIST2HAC | 13.92848359 | 4.476312196 | 1.639179285 | 0.000829 |
| ENSG00000100605 | ITPK1 | 30.70919535 | 9.898965493 | 1.637799063 | 0.000106 |
| ENSG00000140564 | FURIN | 26.5401245 | 8.558769512 | 1.637125862 | 0.000111 |
| ENSG00000204839 | MROH6 | 2.644768775 | 0.853017751 | 1.635643391 | 0.000343 |
| ENSG00000183943 | PRKX | 10.58236617 | 3.420368743 | 1.633755641 | 0.000131 |
| ENSG00000130203 | APOE | 2.975139351 | 0.960231279 | 1.633547562 | 0.000766 |
| ENSG00000126003 | PLAGL2 | 8.855146357 | 2.86389825 | 1.632769119 | 0.00014 |
| ENSG00000101856 | PGRMC1 | 158.2142185 | 51.2011739 | 1.63213357 | 0.000109 |
| ENSG00000173175 | ADCY5 | 4.252480788 | 1.377249216 | 1.630639507 | 0.000157 |
| ENSG00000211455 | STK38L | 8.543044766 | 2.768186129 | 1.630090486 | 0.000137 |
| ENSG00000162063 | CCNF | 15.58427098 | 5.051726555 | 1.629633351 | 0.000126 |
| ENSG00000232040 | ZBED9 | 1.06018221 | 0.343995692 | 1.626536081 | 0.000499 |
| ENSG00000259032 | ENSAP2 | 21.13014271 | 6.867069846 | 1.623912572 | 0.000657 |
| ENSG00000048392 | RRM2B | 23.06183313 | 7.511619781 | 1.622741675 | 0.000127 |
| ENSG00000078061 | ARAF | 17.7189224 | 5.77425279 | 1.621883429 | 0.000145 |
| ENSG00000176945 | MUC20 | 0.64905619 | 0.210699562 | 1.621837715 | 0.003928 |
| ENSG00000080546 | SESN1 | 2.415249644 | 0.786698101 | 1.621539682 | 0.000343 |
| ENSG00000180758 | GPR157 | 5.055946201 | 1.64986935 | 1.619592153 | 0.000207 |
| ENSG00000234129 | AC073529.1 | 0.759735468 | 0.24706918 | 1.618237726 | 0.006203 |
| ENSG00000128567 | PODXL | 38.53938868 | 12.60712891 | 1.616590146 | 0.000127 |
| ENSG00000135821 | GLUL | 26.8746328 | 8.792048091 | 1.616464537 | 0.000127 |
| ENSG00000250461 | AC122718.1 | 11.40113777 | 3.730260163 | 1.614493368 | 0.000537 |
| ENSG00000213139 | CRYGS | 1.84547551 | 0.603500947 | 1.613078974 | 0.001837 |
| ENSG00000269293 | ZSCAN16-AS1 | 2.337512502 | 0.765712211 | 1.611489046 | 0.001158 |
| ENSG00000225544 | AC245452.2 | 6.289136721 | 2.055449478 | 1.611461029 | 0.00555 |
| ENSG00000081320 | STK17B | 9.239791923 | 3.034096109 | 1.610887496 | 0.000163 |
| ENSG00000128791 | TWSG1 | 19.11672595 | 6.28803269 | 1.608523624 | 0.000155 |
| ENSG00000177576 | C18orf32 | 1.921839547 | 0.631674718 | 1.608344741 | 0.000442 |
| ENSG00000151366 | NDUFC2 | 12.9831114 | 4.270388332 | 1.608290713 | 0.000203 |
| ENSG00000084112 | SSH1 | 12.49223148 | 4.110804693 | 1.608007615 | 0.00014 |
| ENSG00000116035 | VAX2 | 1.608761022 | 0.529114917 | 1.605512119 | 0.001376 |
| ENSG00000168778 | TCTN2 | 5.687600524 | 1.876088543 | 1.604102318 | 0.000219 |
| ENSG00000273045 | C2orf15 | 3.365939551 | 1.109476807 | 1.603438099 | 0.000784 |
| ENSG00000186654 | PRR5 | 4.316316812 | 1.424707713 | 1.602991289 | 0.000261 |

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| ENSG00000257588 | AC025154.2 | 3.451149046 | 1.137563455 | 1.602764874 | 0.001042 |
| ENSG00000188343 | FAM92A | 2.46558365 | 0.814094229 | 1.602352214 | 0.000307 |
| ENSG00000089094 | KDM2B | 6.067064641 | 2.004367936 | 1.602216507 | 0.000167 |
| ENSG00000185619 | PCGF3 | 11.21594658 | 3.707652526 | 1.601340239 | 0.000167 |
| ENSG00000138767 | CNOT6L | 6.744913158 | 2.231704703 | 1.599960399 | 0.00018 |
| ENSG00000051620 | HEBP2 | 8.95748365 | 2.965189423 | 1.599355831 | 0.000166 |
| ENSG00000215305 | VPS16 | 29.21503573 | 9.673837594 | 1.598947055 | 0.000164 |
| ENSG00000224546 | EIF4BP3 | 12.06131389 | 3.992386553 | 1.598912755 | 0.000276 |
| ENSG00000198040 | ZNF84 | 9.371001824 | 3.103325682 | 1.598768103 | 0.000168 |
| ENSG00000218426 | AL590867.2 | 24.2112567 | 8.011296995 | 1.598667555 | 0.00049 |
| ENSG00000148926 | ADM | 4.227740603 | 1.399876883 | 1.597770474 | 0.000465 |
| ENSG00000139266 | 9-Mar | 6.771225354 | 2.246538705 | 1.595689423 | 0.000252 |
| ENSG00000106070 | GRB10 | 6.633626945 | 2.20273862 | 1.594814457 | 0.000184 |
| ENSG00000113361 | CDH6 | 0.664975668 | 0.220579242 | 1.594650143 | 0.000653 |
| ENSG00000156709 | AIFM1 | 18.30167353 | 6.079443969 | 1.594261442 | 0.000189 |
| ENSG00000213516 | RBMXL1 | 9.298433312 | 3.088629017 | 1.594245691 | 0.000202 |
| ENSG00000137310 | TCF19 | 34.19131711 | 11.36158381 | 1.593893088 | 0.000165 |
| ENSG00000168939 | SPRY3 | 1.672529962 | 0.555878663 | 1.592706474 | 0.00037 |
| ENSG00000094841 | UPRT | 6.049645791 | 2.012359819 | 1.591601931 | 0.000329 |
| ENSG00000007866 | TEAD3 | 5.871363403 | 1.954528963 | 1.590555824 | 0.000348 |
| ENSG00000112763 | BTN2A1 | 7.734777127 | 2.576805014 | 1.589799099 | 0.000244 |
| ENSG00000197705 | KLHL14 | 15.21753796 | 5.075305895 | 1.588519534 | 0.00019 |
| ENSG00000145439 | CBR4 | 5.568667704 | 1.857100167 | 1.588288495 | 0.000256 |
| ENSG00000069011 | PITX1 | 26.59939688 | 8.87357815 | 1.588195346 | 0.000182 |
| ENSG00000167081 | PBX3 | 2.103573145 | 0.701740265 | 1.586752061 | 0.000642 |
| ENSG00000018610 | CXorf56 | 23.0953693 | 7.720771036 | 1.585082424 | 0.000206 |
| ENSG00000120549 | KIAA1217 | 9.310573279 | 3.114820738 | 1.584123222 | 0.000187 |
| ENSG00000134291 | TMEM106C | 120.7148605 | 40.39630229 | 1.583828009 | 0.000168 |
| ENSG00000104369 | JPH1 | 9.649404001 | 3.230960836 | 1.582665875 | 0.000233 |
| ENSG00000157796 | WDR19 | 6.131483927 | 2.053261652 | 1.582590286 | 0.000217 |
| ENSG00000213463 | SYNJ2BP | 13.15192754 | 4.412010172 | 1.580155663 | 0.000196 |
| ENSG00000145555 | MYO10 | 11.24313819 | 3.773271829 | 1.57961516 | 0.000183 |
| ENSG00000129355 | CDKN2D | 9.230052995 | 3.097381693 | 1.578731476 | 0.000471 |
| ENSG00000180257 | ZNF816 | 4.229041089 | 1.419978189 | 1.577914462 | 0.000467 |
| ENSG00000168214 | RBPJ | 10.85166305 | 3.647616336 | 1.577293393 | 0.000198 |
| ENSG00000174013 | FBXO45 | 18.61326471 | 6.262043166 | 1.576044042 | 0.000199 |
| ENSG00000089163 | SIRT4 | 1.641327035 | 0.549465491 | 1.575612828 | 0.009406 |
| ENSG00000228775 | WEE2-AS1 | 0.572403435 | 0.191622954 | 1.575612828 | 0.009406 |
| ENSG00000100092 | SH3BP1 | 0.572286427 | 0.192155675 | 1.573514262 | 0.00474 |
| ENSG00000182621 | PLCB1 | 4.055674924 | 1.370247186 | 1.569845785 | 0.000226 |
| ENSG00000271851 | AC087501.4 | 1.566514371 | 0.527955946 | 1.569500968 | 0.002726 |
| ENSG00000196705 | ZNF431 | 2.531017963 | 0.855225229 | 1.569470088 | 0.000271 |
| ENSG00000169188 | APEX2 | 18.02762128 | 6.110959331 | 1.565034563 | 0.000247 |

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| ENSG00000136383 | ALPK3 | 0.374312082 | 0.126842485 | 1.562044421 | 0.002266 |
| ENSG00000145604 | SKP2 | 42.286397 | 14.40772886 | 1.55781438 | 0.000222 |
| ENSG00000066379 | ZNRD1 | 2.719695733 | 0.926469845 | 1.556672234 | 0.000764 |
| ENSG00000185825 | BCAP31 | 97.6807353 | 33.3221089 | 1.556107515 | 0.000217 |
| ENSG00000125386 | FAM193A | 5.824383853 | 1.987613836 | 1.555252537 | 0.000291 |
| ENSG00000126767 | ELK1 | 22.76188033 | 7.785463531 | 1.552127359 | 0.000261 |
| ENSG00000128011 | LRFN1 | 2.014501175 | 0.688459728 | 1.551327354 | 0.001185 |
| ENSG00000226332 | AL354836.1 | 5.767742102 | 1.971943699 | 1.549123106 | 0.002677 |
| ENSG00000080224 | EPHA6 | 0.624357395 | 0.21346267 | 1.549123106 | 0.002677 |
| ENSG00000008283 | CYB561 | 17.82950624 | 6.117065727 | 1.547754153 | 0.000259 |
| ENSG00000223509 | AC135983.2 | 1.424170317 | 0.487581441 | 1.547266987 | 0.002517 |
| ENSG00000173511 | VEGFB | 44.38182828 | 15.23974249 | 1.546469448 | 0.000282 |
| ENSG00000188419 | CHM | 9.947305687 | 3.427783313 | 1.541413884 | 0.000278 |
| ENSG00000113369 | ARRDC3 | 17.69148898 | 6.096639229 | 1.541355956 | 0.000281 |
| ENSG00000260404 | AC110079.1 | 1.587506949 | 0.546632426 | 1.540558802 | 0.001197 |
| ENSG00000132670 | PTPRA | 52.86528051 | 18.22977891 | 1.540517514 | 0.000253 |
| ENSG00000156869 | FRRS1 | 8.688586653 | 2.997025599 | 1.53971531 | 0.000357 |
| ENSG00000092931 | MFSD11 | 2.81656902 | 0.971781758 | 1.538991751 | 0.000491 |
| ENSG00000198546 | ZNF511 | 5.468257302 | 1.88700844 | 1.538542943 | 0.000566 |
| ENSG00000133958 | UNC79 | 0.280506502 | 0.096587892 | 1.538447063 | 0.003682 |
| ENSG00000005249 | PRKAR2B | 2.970850714 | 1.026296682 | 1.536831054 | 0.000631 |
| ENSG00000109062 | SLC9A3R1 | 83.31820333 | 28.81082148 | 1.536501158 | 0.000265 |
| ENSG00000083828 | ZNF586 | 4.08756786 | 1.413861258 | 1.535050439 | 0.000667 |
| ENSG00000143178 | TBX19 | 1.065546181 | 0.368218716 | 1.533714342 | 0.002982 |
| ENSG00000102312 | PORCN | 6.050633189 | 2.096180736 | 1.533070603 | 0.000527 |
| ENSG00000115129 | TP53I3 | 11.72956641 | 4.065854503 | 1.532532763 | 0.000418 |
| ENSG00000215414 | PSMA6P1 | 3.496218552 | 1.208181429 | 1.531821608 | 0.006956 |
| ENSG00000204604 | ZNF468 | 3.727755316 | 1.293025452 | 1.531765617 | 0.000358 |
| ENSG00000197779 | ZNF81 | 2.276596867 | 0.789968633 | 1.53080324 | 0.000511 |
| ENSG00000167103 | PIP5KL1 | 1.275700682 | 0.44213799 | 1.52982738 | 0.002481 |
| ENSG00000145390 | USP53 | 4.496743906 | 1.562026934 | 1.529744944 | 0.000338 |
| ENSG00000141524 | TMC6 | 13.26009632 | 4.611081775 | 1.528343429 | 0.000298 |
| ENSG00000146233 | CYP39A1 | 0.913343186 | 0.316550525 | 1.528108327 | 0.005655 |
| ENSG00000158373 | HIST1H2BD | 5.181203998 | 1.798747725 | 1.52760027 | 0.002222 |
| ENSG00000177853 | ZNF518A | 6.518545665 | 2.268776359 | 1.526986334 | 0.000332 |
| ENSG00000180596 | HIST1H2BC | 3.557274585 | 1.234474586 | 1.526489601 | 0.005142 |
| ENSG00000253293 | HOXA10 | 8.183500742 | 2.849769836 | 1.525947321 | 0.00042 |
| ENSG00000173020 | GRK2 | 33.44089938 | 11.65251562 | 1.525463525 | 0.00029 |
| ENSG00000164109 | MAD2L1 | 30.46674045 | 10.62228573 | 1.524614422 | 0.000297 |
| ENSG00000198856 | OSTC | 124.3743813 | 43.3789809 | 1.524105609 | 0.000295 |
| ENSG00000187446 | CHP1 | 47.72004263 | 16.6473484 | 1.523782421 | 0.000297 |
| ENSG00000275223 | AL121906.2 | 7.108728137 | 2.47652127 | 1.522993021 | 0.001906 |
| ENSG00000196182 | STK40 | 19.41266827 | 6.782533864 | 1.521524918 | 0.000321 |

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| ENSG00000147100 | SLC16A2 | 2.193639529 | 0.76606638 | 1.52080731 | 0.00102 |
| ENSG00000214357 | NEURL1B | 8.989335764 | 3.142616439 | 1.520553331 | 0.000358 |
| ENSG00000257093 | KIAA1147 | 31.31636624 | 10.96562612 | 1.518422556 | 0.000308 |
| ENSG00000130340 | SNX9 | 19.98708859 | 6.998762869 | 1.518296852 | 0.000336 |
| ENSG00000184675 | AMER1 | 3.672249729 | 1.288338107 | 1.515243254 | 0.000453 |
| ENSG00000170325 | PRDM10 | 4.351337311 | 1.526783212 | 1.51501892 | 0.000478 |
| ENSG00000072501 | SMC1A | 39.48972206 | 13.86358804 | 1.514698536 | 0.000311 |
| ENSG00000101247 | NDUFAF5 | 5.778284586 | 2.028202976 | 1.51464948 | 0.000413 |
| ENSG00000042286 | AIFM2 | 7.413153971 | 2.606460266 | 1.512173761 | 0.000432 |
| ENSG00000109171 | SLAIN2 | 14.12276501 | 4.967581284 | 1.511807603 | 0.000356 |
| ENSG00000152952 | PLOD2 | 10.54746534 | 3.711721073 | 1.511114495 | 0.000365 |
| ENSG00000128709 | HOXD9 | 9.250896585 | 3.255499779 | 1.510439003 | 0.000654 |
| ENSG00000176024 | ZNF613 | 3.728714672 | 1.312122641 | 1.510331416 | 0.000738 |
| ENSG00000170270 | GON7 | 40.30087235 | 14.19696936 | 1.509475875 | 0.000416 |
| ENSG00000135679 | MDM2 | 12.28650788 | 4.330067127 | 1.509082516 | 0.000341 |
| ENSG00000151135 | TMEM263 | 29.11310139 | 10.26134486 | 1.50890214 | 0.000346 |
| ENSG00000224032 | EPB41L4A-AS1 | 14.6948834 | 5.180421112 | 1.508437311 | 0.000417 |
| ENSG00000109270 | LAMTOR3 | 16.87831624 | 5.952880867 | 1.507866784 | 0.000387 |
| ENSG00000185753 | CXorf38 | 9.597584917 | 3.385197209 | 1.507741045 | 0.0004 |
| ENSG00000135124 | P2RX4 | 2.504361493 | 0.883302198 | 1.50731866 | 0.00062 |
| ENSG00000151131 | C12orf45 | 4.585794631 | 1.621965017 | 1.503865598 | 0.000367 |
| ENSG00000144485 | HES6 | 52.63694975 | 18.63481955 | 1.502498889 | 0.000378 |
| ENSG00000157514 | TSC22D3 | 26.28467926 | 9.307648733 | 1.502176525 | 0.000371 |
| ENSG00000165359 | INTS6L | 5.518723512 | 1.954069275 | 1.502050609 | 0.00047 |
| ENSG00000102309 | PIN4 | 6.115198104 | 2.165057507 | 1.501969312 | 0.000579 |
| ENSG00000196511 | TPK1 | 2.950027085 | 1.044578894 | 1.501791054 | 0.000569 |
| ENSG00000138617 | PARP16 | 5.308945561 | 1.879689644 | 1.501764733 | 0.000617 |
| ENSG00000071553 | ATP6AP1 | 26.29129611 | 9.321067779 | 1.500464175 | 0.000375 |
| ENSG00000204576 | PRR3 | 4.597278044 | 1.631171929 | 1.498705771 | 0.000633 |
| ENSG00000137185 | ZSCAN9 | 3.642834169 | 1.29275413 | 1.498117724 | 0.000855 |
| ENSG00000108590 | MED31 | 6.537048645 | 2.320104752 | 1.497973168 | 0.000833 |
| ENSG00000204713 | TRIM27 | 14.79181935 | 5.257676985 | 1.496738974 | 0.000391 |
| ENSG00000100749 | VRK1 | 33.51668262 | 11.92486959 | 1.495308844 | 0.000416 |
| ENSG00000160113 | NR2F6 | 49.12444996 | 17.49709476 | 1.493775254 | 0.000397 |
| ENSG00000137193 | PIM1 | 4.519622151 | 1.608886144 | 1.493646037 | 0.000887 |
| ENSG00000165169 | DYNLT3 | 17.84996814 | 6.364624686 | 1.492082952 | 0.000459 |
| ENSG00000050405 | LIMA1 | 17.5754223 | 6.271230479 | 1.491168867 | 0.000412 |
| ENSG00000180178 | FAR2P1 | 3.896525625 | 1.39139859 | 1.489762081 | 0.00057 |
| ENSG00000140577 | CRTC3 | 2.782090304 | 0.99344824 | 1.489741582 | 0.000564 |
| ENSG00000104290 | FZD3 | 2.00031896 | 0.714287868 | 1.489699063 | 0.000604 |
| ENSG00000120696 | KBTBD7 | 5.719681473 | 2.042423816 | 1.489689615 | 0.000587 |
| ENSG00000182141 | ZNF708 | 4.028793749 | 1.438629816 | 1.489401807 | 0.000757 |
| ENSG00000113161 | HMGCR | 50.27700736 | 17.96286825 | 1.489392949 | 0.000391 |

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| ENSG00000126561 | STAT5A | 1.87359164 | 0.669035191 | 1.488904535 | 0.001075 |
| ENSG00000157216 | SSBP3 | 9.249237905 | 3.305637091 | 1.488672268 | 0.000492 |
| ENSG00000138376 | BARD1 | 8.257912553 | 2.958630609 | 1.485124932 | 0.000513 |
| ENSG00000130338 | TULP4 | 4.078205573 | 1.46113243 | 1.485124932 | 0.000513 |
| ENSG00000151466 | SCLT1 | 2.952999776 | 1.058076689 | 1.484722181 | 0.000663 |
| ENSG00000179611 | DGKZP1 | 6.517687384 | 2.33813137 | 1.48278881 | 0.000777 |
| ENSG00000125650 | PSPN | 2.553495968 | 0.915635325 | 1.482786223 | 0.001271 |
| ENSG00000091490 | SEL1L3 | 17.38038177 | 6.240178839 | 1.482250156 | 0.000438 |
| ENSG00000258289 | CHURC1 | 11.25825616 | 4.04226564 | 1.482074822 | 0.00049 |
| ENSG00000069509 | FUNDC1 | 34.07948486 | 12.25466455 | 1.479837369 | 0.000536 |
| ENSG00000166908 | PIP4K2C | 33.50182396 | 12.04900039 | 1.479757124 | 0.000455 |
| ENSG00000181544 | FANCB | 3.465645512 | 1.245842526 | 1.479441071 | 0.00096 |
| ENSG00000198176 | TFDP1 | 90.31733623 | 32.51039892 | 1.478617448 | 0.000428 |
| ENSG00000082512 | TRAF5 | 0.648410896 | 0.233192943 | 1.477564693 | 0.002355 |
| ENSG00000158470 | B4GALT5 | 57.56339627 | 20.77001275 | 1.47515557 | 0.000445 |
| ENSG00000205208 | C4orf46 | 13.42063539 | 4.848338143 | 1.473171483 | 0.000565 |
| ENSG00000196220 | SRGAP3 | 1.276262447 | 0.461256013 | 1.472270377 | 0.000726 |
| ENSG00000176973 | FAM89B | 2.808624262 | 1.013157081 | 1.472186319 | 0.003714 |
| ENSG00000114268 | PFKFB4 | 5.980102172 | 2.162292612 | 1.471787264 | 0.000615 |
| ENSG00000108423 | TUBD1 | 6.876404509 | 2.486840109 | 1.47129495 | 0.000737 |
| ENSG00000123136 | DDX39A | 51.29599346 | 18.58135844 | 1.469477192 | 0.000475 |
| ENSG00000109929 | SC5D | 19.56393904 | 7.093257918 | 1.468107225 | 0.000503 |
| ENSG00000109670 | FBXW7 | 2.248392438 | 0.814975271 | 1.46807137 | 0.000736 |
| ENSG00000009724 | MASP2 | 0.756875961 | 0.273780562 | 1.46731789 | 0.005702 |
| ENSG00000173801 | JUP | 53.40285451 | 19.41063747 | 1.464574393 | 0.000488 |
| ENSG00000139263 | LRIG3 | 7.353048097 | 2.673785666 | 1.463699712 | 0.000624 |
| ENSG00000100908 | EMC9 | 25.15547287 | 9.161218285 | 1.461476118 | 0.000653 |
| ENSG00000168904 | LRRC28 | 2.314659089 | 0.844223121 | 1.459026404 | 0.000837 |
| ENSG00000145725 | PPIP5K2 | 6.677929594 | 2.441624834 | 1.45599861 | 0.000554 |
| ENSG00000070961 | ATP2B1 | 14.69731593 | 5.375535556 | 1.45553203 | 0.000547 |
| ENSG00000197046 | SIGLEC15 | 10.33603423 | 3.782098131 | 1.454616618 | 0.000699 |
| ENSG00000149823 | VPS51 | 20.3958914 | 7.469696859 | 1.453577859 | 0.000579 |
| ENSG00000109458 | GAB1 | 1.304892029 | 0.477756416 | 1.453115447 | 0.001218 |
| ENSG00000088832 | FKBP1A | 286.2716853 | 104.898911 | 1.45292388 | 0.000524 |
| ENSG00000232531 | AC027612.3 | 6.305731824 | 2.3086997 | 1.452092241 | 0.002349 |
| ENSG00000119669 | IRF2BPL | 15.79142245 | 5.793254658 | 1.451046468 | 0.000632 |
| ENSG00000146426 | TIAM2 | 0.286251354 | 0.104804396 | 1.450050505 | 0.005877 |
| ENSG00000102934 | PLLP | 3.090781621 | 1.134478206 | 1.4499995 | 0.000843 |
| ENSG00000187605 | TET3 | 7.767306102 | 2.852641298 | 1.449531534 | 0.0006 |
| ENSG00000180776 | ZDHHC20 | 46.17089903 | 16.99296126 | 1.446551286 | 0.000569 |
| ENSG00000177685 | CRACR2B | 2.829835025 | 1.041002836 | 1.446088165 | 0.001386 |
| ENSG00000133812 | SBF2 | 2.225467139 | 0.819602698 | 1.445309026 | 0.000749 |
| ENSG00000135913 | USP37 | 5.806783308 | 2.139378488 | 1.444855877 | 0.000694 |

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| ENSG00000116133 | DHCR24 | 127.176577 | 46.89097148 | 1.443991098 | 0.000565 |
| ENSG00000156500 | FAM122C | 0.351755899 | 0.12935693 | 1.442987997 | 0.008675 |
| ENSG00000112759 | SLC29A1 | 34.49574757 | 12.73433642 | 1.442163773 | 0.000608 |
| ENSG00000105516 | DBP | 7.630442185 | 2.818216114 | 1.44127392 | 0.000722 |
| ENSG00000205978 | NYNRIN | 0.336174588 | 0.123794932 | 1.440816343 | 0.009693 |
| ENSG00000133111 | RFXAP | 11.92316852 | 4.406430479 | 1.440157141 | 0.000887 |
| ENSG00000279528 | AC115618.3 | 8.84868369 | 3.265074778 | 1.439356382 | 0.005279 |
| ENSG00000170370 | EMX2 | 16.24278098 | 6.010498902 | 1.438547665 | 0.000736 |
| ENSG00000077721 | UBE2A | 17.83563971 | 6.600778788 | 1.438470272 | 0.000664 |
| ENSG00000279541 | AC005261.5 | 2.621005203 | 0.968200187 | 1.437636951 | 0.005716 |
| ENSG00000054654 | SYNE2 | 4.557589485 | 1.687855335 | 1.437543655 | 0.000635 |
| ENSG00000147889 | CDKN2A | 53.58074316 | 19.87404029 | 1.435329135 | 0.000629 |
| ENSG00000205559 | CHKB-DT | 2.895313526 | 1.072170586 | 1.433823919 | 0.006048 |
| ENSG00000204764 | RANBP17 | 2.496075718 | 0.926696643 | 1.43356576 | 0.000937 |
| ENSG00000102221 | JADE3 | 7.036094005 | 2.614159351 | 1.432618638 | 0.000843 |
| ENSG00000139880 | CDH24 | 4.593277938 | 1.707877919 | 1.431108985 | 0.00118 |
| ENSG00000116711 | PLA2G4A | 11.84526691 | 4.406248179 | 1.430857311 | 0.000886 |
| ENSG00000157625 | TAB3 | 3.264334246 | 1.214953747 | 1.430126415 | 0.000839 |
| ENSG00000187624 | C17orf97 | 1.511060581 | 0.561603744 | 1.42927249 | 0.004683 |
| ENSG00000019505 | SYT13 | 2.811889662 | 1.048104072 | 1.42745243 | 0.001278 |
| ENSG00000131269 | ABCB7 | 12.7208116 | 4.743683445 | 1.427446666 | 0.000788 |
| ENSG00000166086 | JAM3 | 0.551926702 | 0.205297753 | 1.426940502 | 0.008 |
| ENSG00000111832 | RWDD1 | 16.05228858 | 5.992152559 | 1.426051231 | 0.000739 |
| ENSG00000101966 | XIAP | 18.87174485 | 7.048021751 | 1.425417424 | 0.000695 |
| ENSG00000071889 | FAM3A | 7.991528931 | 2.985378868 | 1.424792562 | 0.000881 |
| ENSG00000158406 | HIST1H4H | 1.332961675 | 0.496678191 | 1.424256647 | 0.008869 |
| ENSG00000145337 | PYURF | 62.17159279 | 23.25314271 | 1.423232054 | 0.000765 |
| ENSG00000115271 | GCA | 7.70932443 | 2.883214187 | 1.423019992 | 0.000997 |
| ENSG00000234127 | TRIM26 | 21.65167976 | 8.099701301 | 1.422957189 | 0.000758 |
| ENSG00000178184 | PARD6G | 3.769000175 | 1.409444891 | 1.422789691 | 0.00135 |
| ENSG00000205683 | DPF3 | 0.661143001 | 0.246915174 | 1.422628914 | 0.003954 |
| ENSG00000221890 | NPTXR | 4.197328301 | 1.571043181 | 1.421767008 | 0.001078 |
| ENSG00000112378 | PERP | 29.4251391 | 11.01861464 | 1.421559813 | 0.000733 |
| ENSG00000213189 | BTF3L4P2 | 40.09470998 | 15.00728944 | 1.421363499 | 0.00147 |
| ENSG00000173542 | MOB1B | 6.566217293 | 2.46169197 | 1.419743522 | 0.000826 |
| ENSG00000101849 | TBL1X | 12.27091438 | 4.603334694 | 1.418931668 | 0.000758 |
| ENSG00000185507 | IRF7 | 3.99092395 | 1.498917326 | 1.416120122 | 0.001845 |
| ENSG00000169239 | CA5B | 1.412465941 | 0.530642643 | 1.4158812 | 0.00174 |
| ENSG00000055609 | KMT2C | 6.250990421 | 2.350097285 | 1.415817982 | 0.000769 |
| ENSG00000180817 | PPA1 | 95.67583388 | 35.97670371 | 1.415622255 | 0.000723 |
| ENSG00000165338 | HECTD2 | 1.504999785 | 0.565836866 | 1.415115649 | 0.001308 |
| ENSG00000166441 | RPL27A | 337.4147555 | 127.0705112 | 1.413445391 | 0.000724 |
| ENSG00000149091 | DGKZ | 9.300720058 | 3.510670361 | 1.410024225 | 0.000827 |

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| ENSG00000087076 | HSD17B14 | 3.979566739 | 1.502587232 | 1.407194923 | 0.00462 |
| ENSG00000156697 | UTP14A | 27.48208751 | 10.39398159 | 1.407185627 | 0.000834 |
| ENSG00000105204 | DYRK1B | 5.340997465 | 2.019388961 | 1.406993029 | 0.001422 |
| ENSG00000165113 | GKAP1 | 2.620087418 | 0.992970762 | 1.402903349 | 0.002498 |
| ENSG00000175548 | ALG10B | 5.803027924 | 2.201208635 | 1.402874279 | 0.000934 |
| ENSG00000183091 | NEB | 0.135334172 | 0.051254924 | 1.402225974 | 0.005308 |
| ENSG00000231074 | HCG18 | 1.525147937 | 0.578916651 | 1.401476502 | 0.001301 |
| ENSG00000228343 | AC115618.2 | 17.82845899 | 6.764205096 | 1.401153712 | 0.002467 |
| ENSG00000204899 | MZT1 | 62.6509129 | 23.81265688 | 1.40007529 | 0.000867 |
| ENSG00000169860 | P2RY1 | 1.170512849 | 0.444512994 | 1.39978446 | 0.002552 |
| ENSG00000204568 | MRPS18B | 43.84373832 | 16.66762433 | 1.399725191 | 0.000934 |
| ENSG00000112787 | FBRSL1 | 7.111279528 | 2.706407566 | 1.398096097 | 0.000966 |
| ENSG00000179981 | TSHZ1 | 5.666593552 | 2.156803002 | 1.397873023 | 0.001026 |
| ENSG00000244398 | AC116533.1 | 1048.02076 | 399.8002201 | 1.394835353 | 0.000869 |
| ENSG00000100968 | NFATC4 | 0.445737889 | 0.169778346 | 1.393727843 | 0.00668 |
| ENSG00000119630 | PGF | 1.317622399 | 0.503040787 | 1.392136126 | 0.002702 |
| ENSG00000174132 | FAM174A | 17.02698099 | 6.512149099 | 1.390650281 | 0.00134 |
| ENSG00000254198 | AC113191.1 | 27.26941327 | 10.44102597 | 1.388430827 | 0.002075 |
| ENSG00000089123 | TASP1 | 7.752963153 | 2.973935469 | 1.386373481 | 0.001465 |
| ENSG00000163376 | KBTBD8 | 1.0852218 | 0.415873599 | 1.385884759 | 0.005121 |
| ENSG00000153132 | CLGN | 4.663614427 | 1.789379675 | 1.385684838 | 0.001764 |
| ENSG00000186416 | NKRF | 5.865751985 | 2.251923315 | 1.385245309 | 0.001358 |
| ENSG00000153130 | SCOC | 19.94999675 | 7.666769221 | 1.384154975 | 0.000998 |
| ENSG00000163584 | RPL22L1 | 230.5924531 | 88.64098872 | 1.383832991 | 0.00094 |
| ENSG00000120509 | PDZD11 | 38.60579693 | 14.84606055 | 1.383061504 | 0.001145 |
| ENSG00000125834 | STK35 | 14.23252136 | 5.475630652 | 1.38252657 | 0.001039 |
| ENSG00000137166 | FOXP4 | 9.521935781 | 3.663756336 | 1.382275399 | 0.001123 |
| ENSG00000167815 | PRDX2 | 165.884047 | 63.90454296 | 1.380705723 | 0.000975 |
| ENSG00000126945 | HNRNPH2 | 59.84924661 | 23.0762653 | 1.379386569 | 0.001033 |
| ENSG00000162636 | FAM102B | 3.684980959 | 1.421127442 | 1.378816763 | 0.001298 |
| ENSG00000133983 | COX16 | 3.678375697 | 1.417618999 | 1.378337995 | 0.003457 |
| ENSG00000162783 | IER5 | 7.203699964 | 2.77899038 | 1.378321455 | 0.001377 |
| ENSG00000124486 | USP9X | 18.2949764 | 7.06296789 | 1.377609339 | 0.00101 |
| ENSG00000155893 | PXYLP1 | 1.72159193 | 0.665148079 | 1.376011289 | 0.00158 |
| ENSG00000107438 | PDLIM1 | 31.29709733 | 12.09543939 | 1.375945408 | 0.001142 |
| ENSG00000183765 | CHEK2 | 8.221308362 | 3.178151771 | 1.375400939 | 0.001321 |
| ENSG00000161888 | SPC24 | 20.1788446 | 7.804771177 | 1.374758644 | 0.001208 |
| ENSG00000091129 | NRCAM | 0.550815169 | 0.213079672 | 1.371990511 | 0.005323 |
| ENSG00000167513 | CDT1 | 29.94874483 | 11.60674475 | 1.371965334 | 0.001133 |
| ENSG00000138709 | LARP1B | 8.301657779 | 3.218910539 | 1.371227264 | 0.001176 |
| ENSG00000172795 | DCP2 | 17.55232481 | 6.810508155 | 1.370314066 | 0.001092 |
| ENSG00000125249 | RAP2A | 13.2708191 | 5.151375436 | 1.369617965 | 0.001209 |
| ENSG00000236814 | AC046176.1 | 6.214246523 | 2.410321952 | 1.369214716 | 0.003323 |

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| ENSG00000167536 | DHRS13 | 6.458009543 | 2.508802691 | 1.368000102 | 0.001845 |
| ENSG00000110693 | SOX6 | 0.293664301 | 0.113982282 | 1.367780164 | 0.004606 |
| ENSG00000163939 | PBRM1 | 12.49581483 | 4.859307211 | 1.367077455 | 0.00115 |
| ENSG00000163644 | PPM1K | 1.407424821 | 0.54718793 | 1.366738454 | 0.001989 |
| ENSG00000168566 | SNRNP48 | 14.41297333 | 5.606895503 | 1.366504773 | 0.001218 |
| ENSG00000198740 | ZNF652 | 8.067769778 | 3.140023765 | 1.365778661 | 0.001251 |
| ENSG00000115507 | OTX1 | 1.547609287 | 0.602028332 | 1.365054254 | 0.00346 |
| ENSG00000204138 | PHACTR4 | 16.68108066 | 6.498661383 | 1.36445485 | 0.001173 |
| ENSG00000180098 | TRNAU1AP | 10.09984683 | 3.935333617 | 1.364051102 | 0.001382 |
| ENSG00000111707 | SUDS3 | 40.42200995 | 15.75418199 | 1.363910267 | 0.001134 |
| ENSG00000230330 | HMGN2P3 | 13.46930281 | 5.246959351 | 1.361353332 | 0.008226 |
| ENSG00000157978 | LDLRAP1 | 10.67669753 | 4.171919649 | 1.360027469 | 0.001344 |
| ENSG00000260920 | AL031985.3 | 3.975504298 | 1.553640411 | 1.358790836 | 0.002871 |
| ENSG00000165476 | REEP3 | 16.91164204 | 6.618937241 | 1.35776512 | 0.001283 |
| ENSG00000197077 | KIAA1671 | 8.444021377 | 3.305701689 | 1.357443023 | 0.001229 |
| ENSG00000151689 | INPP1 | 2.580331154 | 1.010701611 | 1.355476426 | 0.003047 |
| ENSG00000168528 | SERINC2 | 17.36645248 | 6.81095685 | 1.354733923 | 0.001378 |
| ENSG00000267023 | LRRC37A16P | 3.800668785 | 1.49014849 | 1.35451809 | 0.002206 |
| ENSG00000103495 | MAZ | 24.69682321 | 9.696121452 | 1.353262885 | 0.001351 |
| ENSG00000099889 | ARVCF | 6.69042976 | 2.627971935 | 1.352384444 | 0.001561 |
| ENSG00000170846 | AC093323.1 | 10.54214762 | 4.141739265 | 1.352098524 | 0.001551 |
| ENSG00000218739 | CEBPZOS | 17.84197834 | 7.012698545 | 1.35164679 | 0.00137 |
| ENSG00000147606 | SLC26A7 | 0.672777065 | 0.264026066 | 1.351141749 | 0.006715 |
| ENSG00000119720 | NRDE2 | 1.860303017 | 0.731398577 | 1.350995404 | 0.001662 |
| ENSG00000126768 | TIMM17B | 21.70821037 | 8.54378089 | 1.349634464 | 0.001457 |
| ENSG00000155085 | AK9 | 1.013808223 | 0.398958306 | 1.348855178 | 0.002981 |
| ENSG00000167130 | DOLPP1 | 22.92718819 | 9.036219373 | 1.347591963 | 0.001509 |
| ENSG00000077713 | SLC25A43 | 5.68765044 | 2.241748644 | 1.347086799 | 0.00213 |
| ENSG00000198055 | GRK6 | 31.20236185 | 12.30343444 | 1.347062643 | 0.001338 |
| ENSG00000257621 | PSMA3-AS1 | 7.224613635 | 2.851693017 | 1.345434592 | 0.00153 |
| ENSG00000164142 | FAM160A1 | 3.355036192 | 1.325104584 | 1.344055157 | 0.002299 |
| ENSG00000142784 | WDTC1 | 7.255574617 | 2.868287695 | 1.343183336 | 0.001628 |
| ENSG00000102384 | CENPI | 5.686147893 | 2.247997562 | 1.342881269 | 0.001897 |
| ENSG00000169282 | KCNAB1 | 0.579337102 | 0.228649922 | 1.342804073 | 0.007835 |
| ENSG00000108179 | PPIF | 113.0738675 | 44.72964169 | 1.342479835 | 0.001335 |
| ENSG00000157869 | RAB28 | 14.61832294 | 5.784338587 | 1.341742927 | 0.00179 |
| ENSG00000151208 | DLG5 | 8.42950579 | 3.338384911 | 1.340716884 | 0.001486 |
| ENSG00000198948 | MFAP3L | 1.539287855 | 0.609405276 | 1.340459461 | 0.002582 |
| ENSG00000088812 | ATRN | 16.94237001 | 6.714723996 | 1.339712275 | 0.00141 |
| ENSG00000089289 | IGBP1 | 30.40777969 | 12.06825307 | 1.337570601 | 0.001619 |
| ENSG00000138381 | ASNSD1 | 34.60983421 | 13.76501754 | 1.334595817 | 0.001555 |
| ENSG00000138495 | COX17 | 16.06392789 | 6.388843374 | 1.33441547 | 0.001871 |
| ENSG00000198792 | TMEM184B | 16.34826251 | 6.505826624 | 1.333787711 | 0.001505 |

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| ENSG00000144320 | LNPK | 9.811931103 | 3.911007258 | 1.331421947 | 0.001589 |
| ENSG0000069493 | CLEC2D | 0.72675572 | 0.289541539 | 1.329924867 | 0.007169 |
| ENSG0000005022 | SLC25A5 | 368.8262454 | 147.181145 | 1.32988409 | 0.001456 |
| ENSG00000235823 | OLMALINC | 2.341449321 | 0.934126724 | 1.329620424 | 0.002485 |
| ENSG00000102580 | DNAJC3 | 19.77540739 | 7.894193928 | 1.329293986 | 0.001565 |
| ENSG00000261609 | GAN | 2.182680414 | 0.87138645 | 1.328923335 | 0.001925 |
| ENSG00000102316 | MAGED2 | 40.83319729 | 16.30656586 | 1.328748465 | 0.001561 |
| ENSG00000171681 | ATF7IP | 11.52592841 | 4.609016576 | 1.326831798 | 0.00156 |
| ENSG0000054793 | ATP9A | 7.10407928 | 2.84176126 | 1.326220675 | 0.00176 |
| ENSG00000272141 | AL390719.2 | 5.334312863 | 2.131577236 | 1.325709279 | 0.006832 |
| ENSG00000233901 | LINC01503 | 3.302990461 | 1.319866206 | 1.325709279 | 0.006832 |
| ENSG0000091542 | ALKBH5 | 31.03126422 | 12.41860907 | 1.32565736 | 0.001626 |
| ENSG00000196151 | WDSUB1 | 7.80908424 | 3.123983687 | 1.32562001 | 0.002587 |
| ENSG00000136122 | BORA | 10.96720674 | 4.393495508 | 1.323977312 | 0.002014 |
| ENSG00000146707 | POMZP3 | 4.984615835 | 1.996420808 | 1.323362275 | 0.00386 |
| ENSG00000115137 | DNAJC27 | 2.243813323 | 0.899401277 | 1.322546671 | 0.003163 |
| ENSG00000196922 | ZNF252P | 10.88943098 | 4.374533344 | 1.32016751 | 0.001697 |
| ENSG00000184792 | OSBP2 | 3.872949988 | 1.556687674 | 1.319061805 | 0.002265 |
| ENSG00000146414 | SHPRH | 2.241256246 | 0.900998373 | 1.318973772 | 0.001988 |
| ENSG00000108100 | CCNY | 29.42370936 | 11.83186821 | 1.318789338 | 0.001652 |
| ENSG00000176542 | USF3 | 4.775306281 | 1.92242262 | 1.317047707 | 0.001855 |
| ENSG00000264112 | AC015813.1 | 3.364692181 | 1.355524684 | 1.315587335 | 0.002579 |
| ENSG00000100592 | DAAM1 | 2.508219272 | 1.011265451 | 1.314627747 | 0.002294 |
| ENSG00000175305 | CCNE2 | 6.253087696 | 2.524733738 | 1.312574347 | 0.002274 |
| ENSG00000185900 | POMK | 14.87090096 | 6.009753188 | 1.311258174 | 0.002355 |
| ENSG00000042445 | RETSAT | 56.20430043 | 22.73363048 | 1.310358182 | 0.001742 |
| ENSG00000158526 | TSR2 | 22.2819418 | 9.016821829 | 1.309404308 | 0.002184 |
| ENSG00000086598 | TMED2 | 193.3586276 | 78.36468218 | 1.30754506 | 0.001731 |
| ENSG00000223482 | NUTM2A-AS1 | 2.079818816 | 0.842861295 | 1.306842311 | 0.003117 |
| ENSG00000147400 | CETN2 | 30.68889952 | 12.44451938 | 1.306569492 | 0.002035 |
| ENSG00000181894 | ZNF329 | 3.714046795 | 1.506301389 | 1.305822315 | 0.003023 |
| ENSG00000164118 | CEP44 | 2.829833527 | 1.148577022 | 1.3048593 | 0.002683 |
| ENSG00000070081 | NUCB2 | 9.014545443 | 3.6604082 | 1.304666474 | 0.001981 |
| ENSG00000197182 | MIRLET7BHG | 1.962340477 | 0.797108666 | 1.303267271 | 0.004033 |
| ENSG00000127720 | METTL25 | 3.209013375 | 1.304372018 | 1.302362524 | 0.003807 |
| ENSG00000163697 | APBB2 | 2.615622149 | 1.064143375 | 1.301682 | 0.002328 |
| ENSG00000084676 | NCOA1 | 6.021209399 | 2.452560719 | 1.300102383 | 0.002181 |
| ENSG00000139726 | DENR | 81.85321101 | 33.3845767 | 1.298375387 | 0.001896 |
| ENSG00000069974 | RAB27A | 6.217496152 | 2.53963832 | 1.295942523 | 0.002475 |
| ENSG00000101868 | POLA1 | 8.922934797 | 3.645481523 | 1.295765515 | 0.002211 |
| ENSG00000188706 | ZDHHC9 | 19.89252052 | 8.136420986 | 1.294208397 | 0.002069 |
| ENSG00000110442 | COMMID9 | 12.88046662 | 5.269445182 | 1.293885726 | 0.002124 |
| ENSG00000184182 | UBE2F | 3.79598833 | 1.55266138 | 1.29358694 | 0.003264 |

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| ENSG00000139668 | WDFY2 | 1.640769691 | 0.671571194 | 1.292892661 | 0.00266 |
| ENSG00000242193 | CRYZL2P | 4.946777313 | 2.026917143 | 1.291344551 | 0.002673 |
| ENSG00000170779 | CDCA4 | 33.05589976 | 13.55540621 | 1.290460878 | 0.002207 |
| ENSG00000170684 | ZNF296 | 3.258498454 | 1.334680242 | 1.290288699 | 0.007315 |
| ENSG00000111581 | NUP107 | 18.14051059 | 7.440792989 | 1.290169161 | 0.00208 |
| ENSG00000172671 | ZFAND4 | 2.749042813 | 1.127697392 | 1.289450025 | 0.00321 |
| ENSG00000079308 | TNS1 | 0.857216421 | 0.351924305 | 1.28814682 | 0.003621 |
| ENSG00000168393 | DTYMK | 47.88875201 | 19.68773785 | 1.286850933 | 0.002169 |
| ENSG00000023697 | DERA | 19.02677874 | 7.822528697 | 1.286674234 | 0.002415 |
| ENSG00000117525 | F3 | 3.938732924 | 1.619257281 | 1.285967311 | 0.004458 |
| ENSG00000175567 | UCP2 | 13.07650961 | 5.379318642 | 1.285774635 | 0.002528 |
| ENSG00000106546 | AHR | 1.292706681 | 0.531773259 | 1.284997888 | 0.004372 |
| ENSG00000259959 | AC107068.1 | 1.495875549 | 0.615519458 | 1.283899616 | 0.006883 |
| ENSG00000185201 | IFITM2 | 20.98750767 | 8.645113639 | 1.283786087 | 0.002727 |
| ENSG00000140455 | USP3 | 11.89410693 | 4.923712797 | 1.27686542 | 0.002414 |
| ENSG00000145386 | CCNA2 | 59.54202722 | 24.65331342 | 1.276617248 | 0.002297 |
| ENSG00000147383 | NSDHL | 18.33870484 | 7.602554281 | 1.274590759 | 0.002789 |
| ENSG00000223459 | TCAF1P1 | 3.143732972 | 1.303001759 | 1.273623979 | 0.00623 |
| ENSG00000101888 | NXT2 | 15.61499384 | 6.48656206 | 1.271732869 | 0.002743 |
| ENSG00000168769 | TET2 | 3.439424015 | 1.429246215 | 1.271275241 | 0.002692 |
| ENSG00000106588 | PSMA2 | 1.393892473 | 0.578833474 | 1.270976381 | 0.006171 |
| ENSG00000102241 | HTATSF1 | 36.69551384 | 15.25885758 | 1.270418156 | 0.002464 |
| ENSG00000169446 | MMGT1 | 19.89783369 | 8.274830732 | 1.270218839 | 0.002577 |
| ENSG00000009950 | MLXIPL | 1.744314767 | 0.725134686 | 1.269588411 | 0.005892 |
| ENSG00000135597 | REPS1 | 5.557177736 | 2.312279576 | 1.269387712 | 0.002747 |
| ENSG00000197256 | KANK2 | 14.50291044 | 6.036399008 | 1.269040232 | 0.002498 |
| ENSG00000134690 | CDCA8 | 36.84363155 | 15.33803207 | 1.26873821 | 0.002549 |
| ENSG00000175906 | ARL4D | 25.14385064 | 10.46879465 | 1.268396627 | 0.002914 |
| ENSG00000070423 | RNF126 | 35.31922397 | 14.71190707 | 1.26793754 | 0.002499 |
| ENSG00000145365 | TIFA | 8.366922022 | 3.486257263 | 1.267266892 | 0.002979 |
| ENSG00000109685 | NSD2 | 17.22466599 | 7.182108919 | 1.266521379 | 0.002418 |
| ENSG00000170085 | SIMC1 | 2.966344319 | 1.23713108 | 1.265578957 | 0.003954 |
| ENSG00000133302 | SLF1 | 4.105849441 | 1.713271891 | 1.265113226 | 0.003189 |
| ENSG00000172943 | PHF8 | 5.603839153 | 2.33870554 | 1.265046035 | 0.00286 |
| ENSG00000120832 | MTERF2 | 5.73887327 | 2.39493813 | 1.264811244 | 0.003684 |
| ENSG00000215146 | BX322639.1 | 3.913038188 | 1.633282613 | 1.264684551 | 0.00329 |
| ENSG00000166816 | LDHD | 7.138421643 | 2.979148007 | 1.264613842 | 0.00387 |
| ENSG00000171295 | ZNF440 | 3.634365485 | 1.518338352 | 1.263300419 | 0.003438 |
| ENSG00000188566 | NDOR1 | 6.497667061 | 2.714829682 | 1.263025653 | 0.003853 |
| ENSG00000119446 | RBM18 | 11.85248777 | 4.956440425 | 1.262193678 | 0.002795 |
| ENSG00000145996 | CDKAL1 | 4.303846949 | 1.799473612 | 1.262059164 | 0.003674 |
| ENSG00000175087 | PDIK1L | 7.758180714 | 3.247423842 | 1.260670764 | 0.003152 |
| ENSG00000110092 | CCND1 | 148.6541202 | 62.30692939 | 1.259036751 | 0.002528 |

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| ENSG00000115902 | SLC1A4 | 9.97214389 | 4.180213724 | 1.258727256 | 0.002854 |
| ENSG00000134470 | IL15RA | 9.049298224 | 3.793902467 | 1.258350724 | 0.003217 |
| ENSG00000130741 | EIF2S3 | 187.7577239 | 78.73513416 | 1.258333104 | 0.002545 |
| ENSG00000182704 | TSKU | 12.0673064 | 5.060367455 | 1.258129238 | 0.003012 |
| ENSG00000109805 | NCAPG | 28.18246516 | 11.82525067 | 1.257405932 | 0.002688 |
| ENSG00000176055 | MBLAC2 | 5.094350233 | 2.137210368 | 1.257351826 | 0.003379 |
| ENSG00000203760 | CENPW | 50.30022186 | 21.11468017 | 1.256604874 | 0.003208 |
| ENSG00000163808 | KIF15 | 17.56016767 | 7.377233534 | 1.255595362 | 0.002824 |
| ENSG00000154839 | SKA1 | 18.34310465 | 7.708361341 | 1.255099186 | 0.003034 |
| ENSG00000138658 | ZGRF1 | 2.598106682 | 1.091663526 | 1.255032936 | 0.003757 |
| ENSG00000243317 | STMP1 | 15.14616643 | 6.373978016 | 1.253099457 | 0.002972 |
| ENSG00000179163 | FUCA1 | 18.18800031 | 7.653684752 | 1.253028258 | 0.003336 |
| ENSG00000158769 | F11R | 16.50467567 | 6.953923605 | 1.251404069 | 0.002922 |
| ENSG00000276180 | HIST1H4I | 6.490630296 | 2.732833566 | 1.251238144 | 0.006577 |
| ENSG00000152990 | ADGRA3 | 10.32213567 | 4.350491529 | 1.250935625 | 0.002899 |
| ENSG00000215386 | MIR99AHG | 1.450142482 | 0.611141012 | 1.250522207 | 0.004358 |
| ENSG00000176593 | AC008969.1 | 0.68952889 | 0.290371908 | 1.250493297 | 0.008841 |
| ENSG00000126822 | PLEKHG3 | 6.234487489 | 2.630913969 | 1.249119489 | 0.003053 |
| ENSG00000175137 | SH3BP5L | 14.81495957 | 6.253773636 | 1.248700476 | 0.002949 |
| ENSG00000262919 | CCNQ | 20.53042378 | 8.668003386 | 1.24824727 | 0.003411 |
| ENSG00000139428 | MMAB | 15.11317973 | 6.383548553 | 1.247821061 | 0.002969 |
| ENSG00000165195 | PIGA | 3.754807156 | 1.586290036 | 1.247188609 | 0.003949 |
| ENSG00000110536 | PTPMT1 | 2.97378208 | 1.257941749 | 1.244482211 | 0.007137 |
| ENSG00000165821 | SALL2 | 10.79962133 | 4.57445505 | 1.243682673 | 0.0033 |
| ENSG00000139579 | NABP2 | 116.2569958 | 49.28383401 | 1.242646824 | 0.002925 |
| ENSG00000179387 | ELMOD2 | 10.02548162 | 4.255434863 | 1.240690313 | 0.003262 |
| ENSG00000135093 | USP30 | 6.859812072 | 2.911564311 | 1.240630314 | 0.003625 |
| ENSG00000118997 | DNAH7 | 0.282175244 | 0.119653815 | 1.240518121 | 0.009442 |
| ENSG00000170581 | STAT2 | 11.04657112 | 4.689539705 | 1.240480148 | 0.0033 |
| ENSG00000183337 | BCOR | 8.636833572 | 3.66739061 | 1.240161804 | 0.003273 |
| ENSG00000072310 | SREBF1 | 27.49617955 | 11.67854801 | 1.239879189 | 0.003002 |
| ENSG00000123411 | IKZF4 | 2.074542062 | 0.881060274 | 1.239287133 | 0.005275 |
| ENSG00000185000 | DGAT1 | 11.18729328 | 4.756962126 | 1.238076655 | 0.00356 |
| ENSG00000139323 | POC1B | 6.449846618 | 2.743315044 | 1.237714064 | 0.00341 |
| ENSG00000165813 | CCDC186 | 7.328582333 | 3.117458344 | 1.237560596 | 0.003355 |
| ENSG00000144749 | LRIG1 | 4.563598718 | 1.941517662 | 1.237214793 | 0.003814 |
| ENSG00000119685 | TTLL5 | 3.522432422 | 1.499889379 | 1.236028667 | 0.003629 |
| ENSG00000105655 | ISYNA1 | 62.3346295 | 26.56617683 | 1.234948701 | 0.003125 |
| ENSG00000176225 | RTTN | 1.396957056 | 0.59535902 | 1.234622563 | 0.004157 |
| ENSG00000171469 | ZNF561 | 9.562775185 | 4.076925752 | 1.234334356 | 0.003486 |
| ENSG00000102100 | SLC35A2 | 10.9902988 | 4.685485663 | 1.234261248 | 0.003699 |
| ENSG00000198171 | DDRGK1 | 40.05199319 | 17.07937896 | 1.234032016 | 0.003386 |
| ENSG00000118707 | TGIF2 | 14.94072803 | 6.376142372 | 1.232865729 | 0.003551 |

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| ENSG00000151247 | EIF4E | 8.237083597 | 3.516261446 | 1.232557547 | 0.003279 |
| ENSG00000182628 | SKA2 | 49.70981991 | 21.24399753 | 1.230965533 | 0.003259 |
| ENSG00000141905 | NFIC | 7.908581895 | 3.379727604 | 1.230933705 | 0.00347 |
| ENSG00000185010 | F8 | 0.600955873 | 0.256697313 | 1.230160283 | 0.008737 |
| ENSG00000126106 | TMEM53 | 2.161118224 | 0.923585735 | 1.229683831 | 0.008186 |
| ENSG00000164040 | PGRMC2 | 23.32253218 | 9.976389698 | 1.229594609 | 0.003369 |
| ENSG00000114302 | PRKAR2A | 25.19453879 | 10.77980059 | 1.229274972 | 0.00329 |
| ENSG00000237765 | FAM200B | 4.406686524 | 1.886425941 | 1.228103398 | 0.00462 |
| ENSG00000040608 | RTN4R | 9.886345043 | 4.23634218 | 1.226858966 | 0.004121 |
| ENSG00000241343 | RPL36A | 2.424483773 | 1.038901922 | 1.226090057 | 0.006721 |
| ENSG00000178150 | ZNF114 | 2.3035748 | 0.987091898 | 1.225663188 | 0.008439 |
| ENSG00000107263 | RAPGEF1 | 11.45787853 | 4.916144071 | 1.22516799 | 0.003606 |
| ENSG00000213066 | FGFR1OP | 1.257529175 | 0.539415743 | 1.225162209 | 0.004867 |
| ENSG00000168743 | NPNT | 3.019318168 | 1.295254633 | 1.224980242 | 0.004951 |
| ENSG00000135916 | ITM2C | 75.10498675 | 32.24796339 | 1.224204546 | 0.003393 |
| ENSG00000176244 | ACBD7 | 15.73230589 | 6.753314795 | 1.224178014 | 0.004647 |
| ENSG00000179818 | PCBP1-AS1 | 1.524969812 | 0.654825221 | 1.223808335 | 0.004338 |
| ENSG00000103226 | NOMO3 | 2.833168706 | 1.217271264 | 1.222879731 | 0.004712 |
| ENSG00000161981 | SNRNP25 | 33.19621921 | 14.27738792 | 1.22174173 | 0.003588 |
| ENSG00000111684 | LPCAT3 | 7.746889918 | 3.334734165 | 1.220319599 | 0.004204 |
| ENSG00000171848 | RRM2 | 22.38029685 | 9.637147805 | 1.220021105 | 0.003593 |
| ENSG00000172270 | BSG | 415.2133414 | 178.8638626 | 1.219541233 | 0.003392 |
| ENSG00000125319 | C17orf53 | 4.324550811 | 1.862026704 | 1.219437566 | 0.005949 |
| ENSG00000145241 | CENPC | 3.701648546 | 1.59552751 | 1.21836744 | 0.004308 |
| ENSG00000185236 | RAB11B | 33.14076844 | 14.29882722 | 1.217141192 | 0.003779 |
| ENSG00000165240 | ATP7A | 1.729580929 | 0.746052033 | 1.217085288 | 0.005097 |
| ENSG00000144026 | ZNF514 | 1.889023754 | 0.814711159 | 1.2170359 | 0.006107 |
| ENSG00000120685 | PROSER1 | 8.277117997 | 3.573706524 | 1.216094197 | 0.004007 |
| ENSG00000177595 | PIDD1 | 4.221975175 | 1.822863546 | 1.21585292 | 0.004765 |
| ENSG00000119314 | PTBP3 | 33.58963956 | 14.522615 | 1.214234862 | 0.003613 |
| ENSG00000153140 | CETN3 | 12.99573259 | 5.620610935 | 1.21354168 | 0.004299 |
| ENSG00000154447 | SH3RF1 | 3.402869212 | 1.472471117 | 1.212533427 | 0.005303 |
| ENSG00000116704 | SLC35D1 | 9.364769149 | 4.053525163 | 1.212445585 | 0.004107 |
| ENSG00000106799 | TGFBR1 | 14.2622462 | 6.174223719 | 1.212323458 | 0.003858 |
| ENSG00000099821 | POLRMT | 36.66420504 | 15.8819976 | 1.211482296 | 0.003737 |
| ENSG00000139433 | GLTP | 44.26529947 | 19.17707933 | 1.211264309 | 0.003833 |
| ENSG00000100697 | DICER1 | 9.815876183 | 4.25275146 | 1.211192607 | 0.003832 |
| ENSG00000092847 | AGO1 | 6.608155687 | 2.865793996 | 1.209758332 | 0.003951 |
| ENSG00000122335 | SERAC1 | 1.537485923 | 0.66695303 | 1.208869756 | 0.005889 |
| ENSG00000138439 | FAM117B | 7.636699487 | 3.320218201 | 1.206005591 | 0.004452 |
| ENSG00000109133 | TMEM33 | 16.59247511 | 7.219683142 | 1.205004303 | 0.003981 |
| ENSG00000228589 | SPCS2P4 | 17.97817485 | 7.822043338 | 1.204356664 | 0.006768 |
| ENSG00000144579 | CTDSP1 | 26.75789284 | 11.65716165 | 1.203224733 | 0.004052 |

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| ENSG00000113838 | TBCCD1 | 17.04551868 | 7.427654599 | 1.202796214 | 0.004407 |
| ENSG00000164096 | C4orf3 | 32.06913883 | 13.97781096 | 1.202503771 | 0.004135 |
| ENSG00000145388 | METTL14 | 7.885770727 | 3.437797329 | 1.202137097 | 0.004496 |
| ENSG00000089220 | PEBP1 | 455.0858137 | 198.5420494 | 1.20123847 | 0.003907 |
| ENSG00000138030 | KHK | 3.086114991 | 1.345819353 | 1.200793294 | 0.008002 |
| ENSG00000175105 | ZNF654 | 4.624355072 | 2.018496216 | 1.200206337 | 0.004947 |
| ENSG00000187801 | ZFP69B | 3.87032046 | 1.688466461 | 1.200202312 | 0.008255 |
| ENSG00000185630 | PBX1 | 1.649865555 | 0.720456855 | 1.199633535 | 0.004972 |
| ENSG00000132646 | PCNA | 196.0308604 | 85.63115241 | 1.199395083 | 0.004029 |
| ENSG00000103657 | HERC1 | 4.092048482 | 1.787584944 | 1.199223799 | 0.004424 |
| ENSG00000130699 | TAF4 | 3.817267932 | 1.670401982 | 1.196633443 | 0.004908 |
| ENSG00000182809 | CRIP2 | 45.62103896 | 19.97081191 | 1.196317693 | 0.004155 |
| ENSG00000259781 | HMGB1P6 | 284.2186852 | 124.4497942 | 1.195939766 | 0.004196 |
| ENSG00000180182 | MED14 | 15.79503886 | 6.916588439 | 1.195830029 | 0.004234 |
| ENSG00000135482 | ZC3H10 | 2.305506321 | 1.010131887 | 1.194582774 | 0.006145 |
| ENSG00000111206 | FOXM1 | 37.30752431 | 16.35558039 | 1.194185748 | 0.004251 |
| ENSG00000151729 | SLC25A4 | 15.86363418 | 6.958429157 | 1.193316346 | 0.004531 |
| ENSG00000167232 | ZNF91 | 4.62987778 | 2.032143269 | 1.192321113 | 0.004879 |
| ENSG00000123737 | EXOSC9 | 15.64626091 | 6.869823218 | 1.191894341 | 0.004609 |
| ENSG00000189308 | LIN54 | 6.686412998 | 2.936587788 | 1.191427825 | 0.004964 |
| ENSG00000148730 | EIF4EBP2 | 36.03325766 | 15.84628088 | 1.189703609 | 0.004339 |
| ENSG00000165912 | PACSIN3 | 16.53501304 | 7.270754185 | 1.189685069 | 0.005001 |
| ENSG00000196233 | LCOR | 4.541477892 | 1.99730917 | 1.189576755 | 0.004496 |
| ENSG00000196547 | MAN2A2 | 7.682807833 | 3.37893992 | 1.18949018 | 0.004654 |
| ENSG00000138663 | COPS4 | 22.48633763 | 9.891570417 | 1.189209878 | 0.004649 |
| ENSG00000197601 | FAR1 | 24.1042055 | 10.60446177 | 1.189115304 | 0.004414 |
| ENSG00000184983 | NDUFA6 | 74.0098238 | 32.56074549 | 1.189044916 | 0.00455 |
| ENSG00000149679 | CABLES2 | 6.98816125 | 3.074877598 | 1.188564382 | 0.005684 |
| ENSG00000168268 | NT5DC2 | 27.61788958 | 12.16069556 | 1.187857931 | 0.004526 |
| ENSG00000177485 | ZBTB33 | 10.97919994 | 4.836068512 | 1.187252854 | 0.004888 |
| ENSG00000245958 | AC093752.1 | 2.277707913 | 1.003297516 | 1.186608093 | 0.007499 |
| ENSG00000197943 | PLCG2 | 5.537755773 | 2.442352808 | 1.185453237 | 0.004856 |
| ENSG00000148468 | FAM171A1 | 6.159524094 | 2.716346213 | 1.185301337 | 0.005937 |
| ENSG00000168301 | KCTD6 | 4.930356315 | 2.173958661 | 1.185268657 | 0.007092 |
| ENSG00000138764 | CCNG2 | 7.617692937 | 3.361278466 | 1.184726872 | 0.005036 |
| ENSG00000167173 | C15orf39 | 3.681030762 | 1.625089252 | 1.183685133 | 0.00615 |
| ENSG00000167771 | RCOR2 | 3.296441696 | 1.455046696 | 1.183304672 | 0.009384 |
| ENSG00000142065 | ZFP14 | 2.710147567 | 1.196813674 | 1.183262808 | 0.006225 |
| ENSG00000229944 | EIF4EP2 | 25.87631125 | 11.43033848 | 1.182736559 | 0.006962 |
| ENSG00000164073 | MFSD8 | 3.226977028 | 1.426046948 | 1.182382367 | 0.005836 |
| ENSG00000156671 | SAMD8 | 5.550163302 | 2.455026967 | 1.181106371 | 0.005455 |
| ENSG00000102081 | FMR1 | 6.952529311 | 3.076554968 | 1.180620084 | 0.005151 |
| ENSG00000129534 | MIS18BP1 | 8.423946873 | 3.731453847 | 1.179128506 | 0.005345 |

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| ENSG00000170348 | TMED10 | 105.8329531 | 46.88698541 | 1.179067715 | 0.004623 |
| ENSG00000153443 | UBALD1 | 17.78104288 | 7.879002125 | 1.178659199 | 0.005141 |
| ENSG00000174197 | MGA | 6.294686622 | 2.789611589 | 1.178538716 | 0.00489 |
| ENSG00000117620 | SLC35A3 | 2.797457801 | 1.241920151 | 1.175908759 | 0.005406 |
| ENSG00000233426 | EIF3FP3 | 21.97006665 | 9.76874761 | 1.173441064 | 0.006428 |
| ENSG00000247556 | OIP5-AS1 | 22.75729355 | 10.1267159 | 1.172685689 | 0.0049 |
| ENSG00000152061 | RABGAP1L | 4.22248597 | 1.880101258 | 1.171695508 | 0.005403 |
| ENSG00000114423 | CBLB | 1.835712606 | 0.817258075 | 1.171600591 | 0.006744 |
| ENSG00000106144 | CASP2 | 12.88992583 | 5.75446119 | 1.167954258 | 0.005303 |
| ENSG00000116209 | TMEM59 | 19.54311332 | 8.738325043 | 1.16573444 | 0.005233 |
| ENSG00000188486 | H2AFX | 116.424518 | 52.05723663 | 1.1657297 | 0.005223 |
| ENSG00000253797 | UTP14C | 2.879409792 | 1.287273719 | 1.165403436 | 0.007623 |
| ENSG00000253276 | CCDC71L | 8.491372319 | 3.797249713 | 1.165330587 | 0.006207 |
| ENSG00000130119 | GNL3L | 17.72129198 | 7.935988019 | 1.163348644 | 0.005942 |
| ENSG00000197961 | ZNF121 | 12.59729628 | 5.642462208 | 1.163168686 | 0.005537 |
| ENSG00000095066 | HOOK2 | 7.254516073 | 3.250028351 | 1.162760615 | 0.006151 |
| ENSG00000169914 | OTUD3 | 8.533691879 | 3.830035114 | 1.160202892 | 0.005887 |
| ENSG00000090612 | ZNF268 | 3.480391571 | 1.562501313 | 1.159753337 | 0.006175 |
| ENSG00000092330 | TINF2 | 15.91606587 | 7.146914384 | 1.159425834 | 0.00629 |
| ENSG00000102225 | CDK16 | 47.22960054 | 21.22886256 | 1.158190076 | 0.005433 |
| ENSG00000245910 | SNHG6 | 72.91510894 | 32.77364102 | 1.158133329 | 0.005741 |
| ENSG00000078140 | UBE2K | 36.97355138 | 16.62508324 | 1.157639588 | 0.005529 |
| ENSG00000090615 | GOLGA3 | 17.98727196 | 8.100559278 | 1.155389556 | 0.005624 |
| ENSG00000169738 | DCXR | 62.65620692 | 28.21818256 | 1.155309137 | 0.005752 |
| ENSG00000166710 | B2M | 35.02856672 | 15.78012344 | 1.154935559 | 0.005619 |
| ENSG00000187678 | SPRY4 | 24.67664777 | 11.12089138 | 1.154372028 | 0.005701 |
| ENSG00000060762 | MPC1 | 16.51417232 | 7.441217558 | 1.154277291 | 0.007357 |
| ENSG00000203499 | IQANK1 | 2.331665056 | 1.051241523 | 1.153003182 | 0.00983 |
| ENSG00000188153 | COL4A5 | 1.739739796 | 0.784722239 | 1.152713172 | 0.007775 |
| ENSG0000006607 | FARP2 | 5.293848129 | 2.39142468 | 1.150878885 | 0.006185 |
| ENSG00000167460 | TPM4 | 96.94108398 | 43.84006407 | 1.149403907 | 0.005704 |
| ENSG00000112972 | HMGCS1 | 37.56424933 | 17.00275113 | 1.148095409 | 0.005941 |
| ENSG00000112200 | ZNF451 | 5.327543155 | 2.415943351 | 1.145332819 | 0.006305 |
| ENSG00000177600 | RPLP2 | 314.6839854 | 142.8756425 | 1.143685403 | 0.00596 |
| ENSG00000214113 | LYRM4 | 5.345422484 | 2.427059033 | 1.143465268 | 0.006791 |
| ENSG00000167182 | SP2 | 6.252902434 | 2.839176599 | 1.143197208 | 0.008016 |
| ENSG00000100154 | TTC28 | 4.596564809 | 2.088591693 | 1.142420833 | 0.006767 |
| ENSG00000135119 | RNFT2 | 3.310886649 | 1.504294834 | 1.142249659 | 0.008011 |
| ENSG00000027697 | IFNGR1 | 13.46519255 | 6.119584571 | 1.142073264 | 0.007005 |
| ENSG00000182287 | AP1S2 | 12.64999868 | 5.750615184 | 1.141767748 | 0.006618 |
| ENSG00000101997 | CCDC22 | 12.83789882 | 5.835573928 | 1.14172884 | 0.007444 |
| ENSG00000090975 | PITPNM2 | 1.806248062 | 0.820893406 | 1.141718612 | 0.009219 |
| ENSG00000185049 | NELFA | 11.96887385 | 5.445488468 | 1.140578977 | 0.006663 |

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| ENSG00000109323 | MANBA | 3.625936671 | 1.650551972 | 1.139742109 | 0.007253 |
| ENSG00000120675 | DNAJC15 | 3.481254913 | 1.586357841 | 1.138112254 | 0.007906 |
| ENSG00000141873 | SLC39A3 | 9.81297163 | 4.474345451 | 1.137361313 | 0.007157 |
| ENSG00000115825 | PRKD3 | 7.281045451 | 3.320965706 | 1.136974584 | 0.006875 |
| ENSG00000000003 | TSPAN6 | 15.0188059 | 6.850188895 | 1.13697433 | 0.006866 |
| ENSG00000064490 | RFXANK | 31.91920969 | 14.57528741 | 1.135340947 | 0.006833 |
| ENSG00000155959 | VBP1 | 52.94618315 | 24.1782968 | 1.135283828 | 0.006672 |
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| ENSG00000111077 | TNS2 | 3.800085476 | 1.736762671 | 1.133885859 | 0.008064 |
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| ENSG00000213722 | DDAH2 | 14.20837037 | 6.508113477 | 1.130729924 | 0.007782 |
| ENSG00000088808 | PPP1R13B | 8.393698181 | 3.846976689 | 1.130023478 | 0.007127 |
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| ENSG00000112039 | FANCE | 7.466122517 | 3.425409779 | 1.128180266 | 0.009124 |
| ENSG00000138621 | PPCDC | 6.476137039 | 2.971579903 | 1.128083358 | 0.008893 |
| ENSG00000250317 | SMIM20 | 27.99521515 | 12.85690166 | 1.126989971 | 0.007837 |
| ENSG00000145354 | CISD2 | 9.005711916 | 4.13664241 | 1.126775952 | 0.007549 |
| ENSG00000013375 | PGM3 | 12.24225408 | 5.626666455 | 1.125971305 | 0.007206 |
| ENSG00000186184 | POLR1D | 17.4261358 | 8.010242877 | 1.125844624 | 0.006929 |
| ENSG00000198668 | CALM1 | 67.63765631 | 31.10470538 | 1.125233115 | 0.00681 |
| ENSG00000124333 | VAMP7 | 26.16486793 | 12.03418014 | 1.124918336 | 0.007456 |
| ENSG00000120686 | UFM1 | 33.07935388 | 15.22068729 | 1.124391116 | 0.007084 |
| ENSG00000177732 | SOX12 | 9.052010175 | 4.166934247 | 1.123589865 | 0.008088 |
| ENSG00000137337 | MDC1 | 6.534158409 | 3.008632453 | 1.12327642 | 0.007777 |
| ENSG00000132912 | DCTN4 | 27.71371021 | 12.7655467 | 1.122849927 | 0.0071 |
| ENSG00000144746 | ARL6IP5 | 70.84638677 | 32.64051597 | 1.12253606 | 0.007114 |
| ENSG00000103978 | TMEM87A | 13.63113946 | 6.286422915 | 1.121033488 | 0.007628 |
| ENSG00000100129 | EIF3L | 83.48336216 | 38.52170901 | 1.120348447 | 0.00709 |
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| ENSG00000130021 | PUDP | 8.072189351 | 3.730260163 | 1.117884482 | 0.00928 |
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| ENSG00000153561 | RMND5A | 22.69212824 | 10.49999157 | 1.116301809 | 0.007475 |
| ENSG00000204519 | ZNF551 | 5.111153034 | 2.366960579 | 1.114793065 | 0.00931 |
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| ENSG00000163001 | CFAP36 | 21.72128139 | 10.08926287 | 1.110726829 | 0.008213 |
| ENSG00000114315 | HES1 | 56.47723146 | 26.24569081 | 1.110068298 | 0.007914 |
| ENSG00000147027 | TMEM47 | 18.51175865 | 8.612539499 | 1.108368399 | 0.008283 |
| ENSG00000131652 | THOC6 | 18.30921633 | 8.519432889 | 1.108033567 | 0.009226 |
| ENSG00000102158 | MAGT1 | 27.22671905 | 12.67766741 | 1.107222878 | 0.008017 |
| ENSG00000123131 | PRDX4 | 87.43342217 | 40.76641464 | 1.105306885 | 0.008044 |
| ENSG00000102786 | INTS6 | 3.362951523 | 1.568788703 | 1.104529497 | 0.008385 |
| ENSG00000169692 | AGPAT2 | 74.39111673 | 34.70511235 | 1.104472156 | 0.008167 |
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| ENSG00000148019 | CEP78 | 5.32688087 | 2.488399256 | 1.102513191 | 0.008643 |
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| ENSG00000162378 | ZYG11B | 10.21444783 | 4.783178194 | 1.09902055 | 0.008723 |
| ENSG00000100075 | SLC25A1 | 81.05898988 | 37.97177044 | 1.098549574 | 0.008422 |
| ENSG00000175115 | PACS1 | 4.142941671 | 1.941700101 | 1.097655035 | 0.009699 |
| ENSG00000242125 | SNHG3 | 24.51113281 | 11.5083271 | 1.095227684 | 0.008843 |
| ENSG00000110344 | UBE4A | 10.34469493 | 4.860229483 | 1.094221832 | 0.009193 |
| ENSG00000143772 | ITPKB | 7.399754355 | 3.480020994 | 1.09276895 | 0.009508 |
| ENSG00000111554 | MDM1 | 7.407681834 | 3.485905054 | 1.091864255 | 0.009668 |
| ENSG00000071994 | PDCD2 | 18.56987759 | 8.743877282 | 1.09110302 | 0.009001 |
| ENSG00000165480 | SKA3 | 21.0846533 | 9.927779018 | 1.091070429 | 0.009535 |
| ENSG00000121741 | ZMYM2 | 13.41196984 | 6.324294805 | 1.089053509 | 0.008967 |
| ENSG00000053900 | ANAPC4 | 6.507021755 | 3.070222136 | 1.088031567 | 0.009957 |
| ENSG00000122026 | RPL21 | 382.9249178 | 180.7641946 | 1.087499365 | 0.008819 |
| ENSG00000102317 | RBM3 | 60.65666076 | 28.65031767 | 1.086633224 | 0.009056 |
| ENSG00000086758 | HUWE1 | 19.14485296 | 9.055646537 | 1.084597741 | 0.009103 |
| ENSG00000215193 | PEX26 | 3.933606664 | 1.862431714 | 1.083111687 | 0.009817 |
| ENSG00000174032 | SLC25A30 | 10.99066831 | 5.205014182 | 1.082745506 | 0.009955 |
| ENSG00000187109 | NAP1L1 | 56.80943305 | 26.91203771 | 1.08242698 | 0.009124 |
| ENSG00000138160 | KIF11 | 34.97596989 | 16.56972354 | 1.082320298 | 0.009413 |
| ENSG00000144357 | UBR3 | 10.08614329 | 4.790806156 | 1.07850595 | 0.0099 |
| ENSG00000090889 | KIF4A | 28.5944117 | 13.58792319 | 1.077898477 | 0.009811 |
| ENSG00000253719 | ATXN7L3B | 27.79468831 | 13.22172172 | 1.076415247 | 0.00973 |
| ENSG00000164024 | METAP1 | 38.76090271 | 18.46193371 | 1.074551485 | 0.009948 |
| ENSG00000130513 | GDF15 | 38.54192272 | 81.54738366 | -1.076602238 | 0.009781 |
| ENSG00000187735 | TCEA1 | 46.98142187 | 99.48261669 | -1.077777404 | 0.009493 |
| ENSG00000163162 | RNF149 | 8.752824983 | 18.54022607 | -1.078184498 | 0.009989 |
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| ENSG00000101333 | PLCB4 | 3.79096988 | 8.07682418 | -1.086506794 | 0.009982 |
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| ENSG00000105429 | MEGF8 | 2.193625932 | 4.703827888 | -1.095794807 | 0.009388 |
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| ENSG00000126456 | IRF3 | 10.84835767 | 23.40802161 | -1.104868255 | 0.008335 |
| ENSG00000033170 | FUT8 | 2.145402248 | 4.629976645 | -1.104910138 | 0.009639 |
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| ENSG00000163029 | SMC6 | 4.92118959 | 10.64399968 | -1.10831813 | 0.008053 |
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| ENSG00000120306 | CYSTM1 | 14.90952819 | 32.28382056 | -1.109901637 | 0.008226 |
| ENSG00000159314 | ARHGAP27 | 6.196077774 | 13.43408868 | -1.11184964 | 0.007738 |
| ENSG00000163946 | FAM208A | 5.682549085 | 12.32079416 | -1.11185327 | 0.007793 |
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| ENSG00000269825 | AC022150.4 | 3.359855416 | 7.292868185 | -1.113092968 | 0.009875 |
| ENSG00000172292 | CERS6 | 7.680767154 | 16.68494216 | -1.114592127 | 0.007647 |
| ENSG00000145730 | PAM | 4.085961441 | 8.885828868 | -1.116157851 | 0.007849 |
| ENSG00000142546 | NOSIP | 20.49926539 | 44.59452263 | -1.116689222 | 0.007392 |
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| ENSG00000179456 | ZBTB18 | 2.20373857 | 4.813238921 | -1.122009364 | 0.009613 |
| ENSG00000181038 | METTL23 | 8.033984263 | 17.58718271 | -1.125505801 | 0.008212 |
| ENSG00000153113 | CAST | 3.282950742 | 7.188422301 | -1.126021948 | 0.007196 |
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| ENSG00000139190 | VAMP1 | 1.949209574 | 4.27625355 | -1.128296275 | 0.009861 |
| ENSG00000166128 | RAB8B | 3.712476587 | 8.14344488 | -1.128481627 | 0.007776 |
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| ENSG00000267321 | LINC02001 | 5.417661501 | 11.90508563 | -1.130760036 | 0.009598 |
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| ENSG00000082996 | RNF13 | 10.03540537 | 22.05522735 | -1.131348854 | 0.007043 |
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| ENSG00000128805 | ARHGAP22 | 1.330629126 | 2.930093786 | -1.13381213 | 0.008845 |
| ENSG00000137038 | DMAC1 | 22.52235796 | 49.58261809 | -1.13385695 | 0.006615 |
| ENSG00000070214 | SLC44A1 | 3.347092876 | 7.369807461 | -1.134057427 | 0.006802 |
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| ENSG00000158417 | EIF5B | 10.22505829 | 22.5661102 | -1.137439096 | 0.006402 |
| ENSG00000106351 | AGFG2 | 1.334876576 | 2.949888103 | -1.138816082 | 0.009082 |
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| ENSG00000070778 | PTPN21 | 1.768367508 | 3.909812978 | -1.139799562 | 0.007811 |
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| ENSG00000154079 | SDHAF4 | 5.89058785 | 13.05591057 | -1.14316062 | 0.00834 |
| ENSG00000158079 | PTPDC1 | 1.396328305 | 3.096512028 | -1.143972501 | 0.008252 |
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| ENSG00000105321 | CCDC9 | 4.053569085 | 8.999192009 | -1.145772172 | 0.007126 |
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| ENSG00000172037 | LAMB2 | 11.40654548 | 25.36468236 | -1.148347683 | 0.005929 |
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| ENSG00000105520 | PLPPR2 | 2.425675418 | 5.402209953 | -1.150067794 | 0.008411 |
| ENSG00000206195 | DUXAP8 | 3.187600662 | 7.103976073 | -1.151356823 | 0.006676 |
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| ENSG00000131759 | RARA | 1.66046602 | 3.718433086 | -1.158003035 | 0.007964 |
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| ENSG00000115170 | ACVR1 | 2.167816618 | 4.857752333 | -1.158992532 | 0.00756 |
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| ENSG00000080503 | SMARCA2 | 2.784198628 | 6.239634962 | -1.15955953 | 0.005583 |
| ENSG00000154743 | TSEN2 | 4.829622419 | 10.82940537 | -1.16025767 | 0.00591 |
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| ENSG00000182700 | IGIP | 1.450044561 | 3.26208986 | -1.164283018 | 0.0093 |
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| ENSG00000186866 | POFUT2 | 3.278967477 | 7.39179496 | -1.167901539 | 0.00588 |
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| ENSG00000106976 | DNM1 | 1.799392033 | 4.058800014 | -1.16876394 | 0.00587 |
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| ENSG00000103356 | EARS2 | 9.852032107 | 22.22531972 | -1.169077455 | 0.005187 |
| ENSG00000168237 | GLYCTK | 1.678074856 | 3.788448755 | -1.169388565 | 0.009007 |
| ENSG00000196455 | PIK3R4 | 4.640236998 | 10.47470376 | -1.169908802 | 0.005605 |
| ENSG00000065600 | TMEM206 | 5.291294211 | 11.95116983 | -1.170621866 | 0.005992 |
| ENSG00000153250 | RBMS1 | 2.532343935 | 5.726179222 | -1.172397217 | 0.005373 |
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| ENSG00000196116 | TDRD7 | 2.843732065 | 6.434698782 | -1.173177594 | 0.006081 |
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| ENSG00000107372 | ZFAND5 | 15.24964558 | 34.68459684 | -1.180922029 | 0.004633 |
| ENSG00000143653 | SCCPDH | 17.31183078 | 39.3801017 | -1.181051212 | 0.004836 |
| ENSG00000165060 | FXN | 0.839536956 | 1.910564231 | -1.181236699 | 0.006715 |
| ENSG00000122707 | RECK | 0.711977077 | 1.621691267 | -1.182028582 | 0.009354 |
| ENSG00000237036 | ZEB1-AS1 | 1.63607873 | 3.727339051 | -1.182652434 | 0.007404 |
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| ENSG00000183020 | AP2A2 | 5.185245809 | 11.81081336 | -1.182979964 | 0.004722 |
| ENSG00000109089 | CDR2L | 14.39329158 | 32.80012698 | -1.183662316 | 0.004694 |
| ENSG00000105254 | TBCB | 19.82484705 | 45.27454669 | -1.18676735 | 0.004523 |
| ENSG00000123213 | NLN | 5.102954664 | 11.65689265 | -1.187143478 | 0.00455 |
| ENSG00000278053 | DDX52 | 8.299310144 | 18.95844355 | -1.187165177 | 0.004474 |
| ENSG00000133265 | HSPBP1 | 18.98634886 | 43.39472638 | -1.18789378 | 0.00462 |
| ENSG00000112679 | DUSP22 | 1.749021681 | 3.999237769 | -1.188180875 | 0.005851 |
| ENSG00000008277 | ADAM22 | 1.140630798 | 2.608949891 | -1.188766483 | 0.005341 |
| ENSG00000234171 | RNASEH1-AS1 | 7.58176077 | 17.34662854 | -1.189020456 | 0.006048 |
| ENSG00000134686 | PHC2 | 14.3876336 | 32.9402592 | -1.190404567 | 0.004387 |
| ENSG00000183853 | KIRREL1 | 18.83317826 | 43.159565 | -1.191817391 | 0.004242 |
| ENSG00000243335 | KCTD7 | 2.214932684 | 5.076901341 | -1.191867305 | 0.005112 |
| ENSG00000100364 | KIAA0930 | 4.053843511 | 9.29307253 | -1.192200583 | 0.00448 |
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| ENSG00000134775 | FHOD3 | 0.66101278 | 1.517393965 | -1.193457077 | 0.007465 |
| ENSG00000090006 | LTBP4 | 2.62318629 | 6.039819367 | -1.198421749 | 0.004615 |
| ENSG00000159840 | ZYX | 9.3003229 | 21.41739264 | -1.198737593 | 0.004409 |
| ENSG00000138036 | DYNC2LI1 | 3.112645098 | 7.172955879 | -1.199564073 | 0.004961 |
| ENSG00000186792 | HYAL3 | 6.669204949 | 15.3694069 | -1.19959334 | 0.004965 |
| ENSG00000157557 | ETS2 | 5.901797071 | 13.59941638 | -1.199599562 | 0.00447 |
| ENSG00000197774 | EME2 | 0.870908222 | 2.008477031 | -1.20022209 | 0.006547 |
| ENSG00000058453 | CROCC | 1.234109807 | 2.845947558 | -1.20047987 | 0.005161 |
| ENSG00000177380 | PPFIA3 | 2.07923263 | 4.794809685 | -1.200537712 | 0.004912 |
| ENSG00000105948 | TTC26 | 3.109459428 | 7.172486635 | -1.200969781 | 0.004817 |

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| ENSG00000172123 | SLFN12 | 1.831047842 | 4.224833983 | -1.200993779 | 0.006413 |
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| ENSG00000084731 | KIF3C | 0.672169519 | 1.551993296 | -1.201646632 | 0.008254 |
| ENSG00000169604 | ANTXR1 | 3.389803214 | 7.826026576 | -1.202362956 | 0.004306 |
| ENSG00000160094 | ZNF362 | 3.123559663 | 7.216390421 | -1.203106314 | 0.00527 |
| ENSG00000157350 | ST3GAL2 | 2.294254532 | 5.310567425 | -1.206086402 | 0.004409 |
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| ENSG00000137124 | ALDH1B1 | 18.76703129 | 43.48620248 | -1.207725813 | 0.003897 |
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| ENSG00000263528 | IKBKE | 1.058138558 | 2.467816536 | -1.21604508 | 0.007553 |
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| ENSG00000176531 | PHLDB3 | 1.128840422 | 2.634859804 | -1.21746489 | 0.006363 |
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| ENSG00000198898 | CAPZA2 | 18.17729104 | 42.45722345 | -1.219286894 | 0.003455 |
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| ENSG00000171603 | CLSTN1 | 24.73451634 | 57.8699027 | -1.221698973 | 0.0034 |
| ENSG00000144366 | GULP1 | 0.90345035 | 2.115028552 | -1.222192151 | 0.004419 |
| ENSG00000172456 | FGGY | 0.384423401 | 0.900851395 | -1.223085729 | 0.006321 |
| ENSG00000165752 | STK32C | 3.774017568 | 8.843969905 | -1.223703258 | 0.004312 |
| ENSG00000105855 | ITGB8 | 2.249731316 | 5.274936383 | -1.224713471 | 0.003588 |
| ENSG00000197694 | SPTAN1 | 14.22702462 | 33.38210647 | -1.225864802 | 0.003265 |
| ENSG00000157388 | CACNA1D | 0.178604996 | 0.41962709 | -1.226566878 | 0.007444 |
| ENSG00000022567 | SLC45A4 | 1.072790964 | 2.522085752 | -1.228208441 | 0.004625 |
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| ENSG00000117305 | HMGCL | 5.021934697 | 11.90676892 | -1.240751872 | 0.00327 |
| ENSG00000068885 | IFT80 | 1.851954473 | 4.3920889 | -1.24096383 | 0.003807 |
| ENSG00000090013 | BLVRB | 35.45207279 | 84.0666802 | -1.241032207 | 0.003035 |
| ENSG00000151746 | BICD1 | 1.305389432 | 3.095988386 | -1.241095575 | 0.003534 |
| ENSG00000125826 | RBCK1 | 23.0318414 | 54.6190181 | -1.24116824 | 0.002972 |
| ENSG00000187098 | MITF | 2.461390568 | 5.840836273 | -1.241890291 | 0.003471 |
| ENSG00000073008 | PVR | 19.31938857 | 45.84435679 | -1.242071712 | 0.002991 |
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| ENSG00000226137 | BAIAP2-DT | 2.214900281 | 5.270663009 | -1.245760088 | 0.003868 |
| ENSG00000105865 | DUS4L | 1.551877377 | 3.695282545 | -1.246579818 | 0.004042 |
| ENSG00000161647 | MPP3 | 1.702680358 | 4.056689076 | -1.247349218 | 0.004325 |
| ENSG00000196924 | FLNA | 58.47199779 | 139.2794919 | -1.247600848 | 0.002743 |
| ENSG00000146232 | NFKBIE | 2.07227342 | 4.94284764 | -1.248728601 | 0.005177 |
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| ENSG00000176912 | TYMSOS | 2.954094367 | 7.063033588 | -1.251450396 | 0.007889 |
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| ENSG00000197860 | SGTB | 1.214017098 | 2.904774616 | -1.253433209 | 0.004161 |
| ENSG00000184428 | TOP1MT | 5.300219418 | 12.68323204 | -1.254109121 | 0.002867 |
| ENSG00000104983 | CCDC61 | 1.501563725 | 3.597654315 | -1.254870865 | 0.005878 |
| ENSG00000225138 | SLC9A3-AS1 | 0.942163813 | 2.257925957 | -1.255276065 | 0.005843 |
| ENSG00000164741 | DLC1 | 0.578085414 | 1.385508543 | -1.255892566 | 0.004042 |
| ENSG00000170502 | NUDT9 | 11.3518891 | 27.21777767 | -1.256934725 | 0.002822 |
| ENSG00000173531 | MST1 | 0.682177894 | 1.637675194 | -1.257567517 | 0.006131 |
| ENSG00000114841 | DNAH1 | 0.626540784 | 1.503720793 | -1.257978507 | 0.003765 |
| ENSG00000147065 | MSN | 24.682178 | 59.26184544 | -1.259046174 | 0.002557 |
| ENSG0000015532 | XYLT2 | 4.742098853 | 11.38710997 | -1.259072463 | 0.002893 |
| ENSG00000104635 | SLC39A14 | 12.67046584 | 30.4611046 | -1.260890203 | 0.002561 |
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| ENSG00000152492 | CCDC50 | 8.514205626 | 20.48927078 | -1.262309947 | 0.002546 |
| ENSG00000168734 | PKIG | 6.428530886 | 15.47699289 | -1.262724408 | 0.002991 |
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| ENSG00000143079 | CTTNBP2NL | 2.720230587 | 6.553649947 | -1.263787255 | 0.002869 |
| ENSG00000173992 | CCS | 3.580644932 | 8.63056151 | -1.264165338 | 0.003548 |
| ENSG00000141198 | TOM1L1 | 9.098028041 | 21.92931501 | -1.264609389 | 0.002522 |
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| ENSG00000167964 | RAB26 | 1.32678883 | 3.202506314 | -1.265329495 | 0.005865 |
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| ENSG00000112981 | NME5 | 1.100536538 | 2.657342524 | -1.26549456 | 0.007425 |
| ENSG00000095539 | SEMA4G | 1.111364232 | 2.692774898 | -1.268472816 | 0.004102 |
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| ENSG00000137841 | PLCB2 | 0.301310053 | 0.730826481 | -1.271665909 | 0.008154 |
| ENSG00000048471 | SNX29 | 1.483091322 | 3.593569802 | -1.271981227 | 0.002823 |
| ENSG00000197249 | SERPINA1 | 1.389438693 | 3.369561812 | -1.272832252 | 0.003848 |
| ENSG00000132182 | NUP210 | 16.76116468 | 40.66539789 | -1.274089115 | 0.002281 |
| ENSG00000198691 | ABCA4 | 0.274324178 | 0.666461488 | -1.274133318 | 0.007851 |
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| ENSG00000103047 | TANGO6 | 2.217885455 | 5.393304942 | -1.277126463 | 0.002766 |
| ENSG00000186814 | ZSCAN30 | 1.833891745 | 4.45953482 | -1.277126463 | 0.002766 |
| ENSG00000077150 | NFKB2 | 5.964025086 | 14.50508836 | -1.277472961 | 0.002489 |
| ENSG00000120889 | TNFRSF10B | 21.83245246 | 53.09437382 | -1.277487263 | 0.002234 |
| ENSG00000215158 | AC138409.2 | 0.324312584 | 0.79021795 | -1.278164016 | 0.007961 |
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| ENSG00000271122 | AC018647.2 | 3.133908807 | 7.641704392 | -1.28102639 | 0.002802 |
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| ENSG00000251474 | RPL32P3 | 1.994642965 | 4.869877833 | -1.282687979 | 0.003123 |
| ENSG00000072954 | TMEM38A | 1.835500666 | 4.483760303 | -1.283147583 | 0.003964 |
| ENSG00000155903 | RASA2 | 2.809867621 | 6.864226445 | -1.283765729 | 0.002567 |
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| ENSG00000198853 | RUSC2 | 1.463446797 | 3.576638045 | -1.284125364 | 0.003084 |
| ENSG00000285796 | AL162458.1 | 0.27406714 | 0.671079833 | -1.285437912 | 0.007315 |
| ENSG00000214293 | APTR | 1.981439117 | 4.851744832 | -1.286650616 | 0.003531 |
| ENSG00000169220 | RGS14 | 3.587584131 | 8.794650772 | -1.288719254 | 0.002563 |
| ENSG00000147592 | LACTB2 | 5.950802154 | 14.60422933 | -1.290272928 | 0.002692 |
| ENSG00000236859 | NIFK-AS1 | 1.113841886 | 2.737376333 | -1.291073559 | 0.006153 |
| ENSG00000161970 | RPL26 | 10.50871663 | 25.81049094 | -1.291639848 | 0.002224 |
| ENSG00000131650 | KREMEN2 | 1.90224508 | 4.674954971 | -1.291766822 | 0.003839 |
| ENSG00000041353 | RAB27B | 0.376698762 | 0.927545853 | -1.293805237 | 0.006075 |
| ENSG00000075651 | PLD1 | 0.458180928 | 1.127867759 | -1.294269539 | 0.003323 |
| ENSG00000109861 | CTSC | 7.599017706 | 18.71890995 | -1.296001497 | 0.001952 |
| ENSG00000113758 | DBN1 | 18.43979943 | 45.44519336 | -1.296698931 | 0.001935 |
| ENSG00000110455 | ACCS | 0.494884329 | 1.221650599 | -1.297511223 | 0.005873 |
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| ENSG00000223705 | NSUN5P1 | 1.854435185 | 4.576569707 | -1.298213528 | 0.002789 |
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| ENSG00000259291 | ZNF710-AS1 | 0.97912152 | 2.421712663 | -1.300284973 | 0.005797 |
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| ENSG00000171174 | RBKS | 1.072318402 | 2.659566242 | -1.30469621 | 0.004216 |
| ENSG00000133059 | DSTYK | 2.264902715 | 5.614848971 | -1.304995928 | 0.002115 |
| ENSG00000181619 | GPR135 | 0.39459839 | 0.980345649 | -1.305990295 | 0.007547 |
| ENSG00000112837 | TBX18 | 0.902909138 | 2.241063137 | -1.306367511 | 0.002779 |
| ENSG00000107614 | TRDMT1 | 0.511658581 | 1.270448359 | -1.306667537 | 0.003359 |
| ENSG00000272645 | GTF2IP20 | 0.91736454 | 2.278653494 | -1.306838636 | 0.00416 |
| ENSG00000164050 | PLXNB1 | 5.551072417 | 13.78812695 | -1.307945273 | 0.001822 |
| ENSG00000118960 | HS1BP3 | 2.749103505 | 6.833800383 | -1.308983583 | 0.001988 |
| ENSG00000122783 | CYREN | 4.162053919 | 10.34742342 | -1.309137492 | 0.002018 |
| ENSG00000121964 | GTDC1 | 0.731732226 | 1.820615609 | -1.310033657 | 0.002418 |
| ENSG00000050820 | BCAR1 | 5.381390586 | 13.38796794 | -1.310235114 | 0.0018 |
| ENSG00000143702 | CEP170 | 4.369920072 | 10.88489847 | -1.311994991 | 0.00178 |
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| ENSG00000163472 | TMEM79 | 1.226178862 | 3.064967594 | -1.315907733 | 0.003916 |
| ENSG00000187118 | CMC1 | 1.594773683 | 3.986310491 | -1.316868135 | 0.002005 |
| ENSG00000141101 | NOB1 | 31.82714371 | 79.5765363 | -1.31745939 | 0.001668 |
| ENSG00000198793 | MTOR | 4.527130691 | 11.32467464 | -1.318158849 | 0.001679 |
| ENSG00000116266 | STXBP3 | 5.720247457 | 14.31356826 | -1.318538719 | 0.001763 |
| ENSG00000221990 | EXOC3-AS1 | 1.33170709 | 3.337719256 | -1.318924784 | 0.006064 |
| ENSG00000168994 | PXDC1 | 0.844491729 | 2.116930182 | -1.319031199 | 0.006226 |
| ENSG00000143862 | ARL8A | 9.224534952 | 23.09550444 | -1.319251066 | 0.001933 |
| ENSG00000227232 | WASH7P | 1.79389796 | 4.506132189 | -1.322309029 | 0.005698 |
| ENSG00000114735 | HEMK1 | 0.860446862 | 2.15923013 | -1.322522644 | 0.001917 |
| ENSG00000180340 | FZD2 | 5.737585568 | 14.41236881 | -1.323849228 | 0.002002 |
| ENSG00000169258 | GPRIN1 | 1.835741722 | 4.613439784 | -1.324318187 | 0.002447 |
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| ENSG00000113851 | CRBN | 2.444562811 | 6.158535619 | -1.328216509 | 0.001782 |
| ENSG00000100644 | HIF1A | 35.59591495 | 89.73480826 | -1.329373548 | 0.001466 |
| ENSG00000152056 | AP1S3 | 4.477012581 | 11.29526957 | -1.330309103 | 0.001745 |
| ENSG00000168502 | MTCL1 | 1.121757067 | 2.831050982 | -1.33069055 | 0.001862 |
| ENSG00000155254 | MARVELD1 | 5.070149397 | 12.79703339 | -1.330878641 | 0.001802 |
| ENSG00000124275 | MTRR | 6.73917396 | 17.02211055 | -1.332102194 | 0.001528 |
| ENSG00000204406 | MBD5 | 0.494410635 | 1.249366489 | -1.332466904 | 0.001974 |
| ENSG00000114988 | LMAN2L | 9.455327174 | 23.89349367 | -1.332678407 | 0.001632 |
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| ENSG00000167216 | KATNAL2 | 0.934778012 | 2.367775425 | -1.335229181 | 0.002935 |
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| ENSG00000130590 | SAMD10 | 2.452957566 | 6.222676147 | -1.337674484 | 0.002446 |
| ENSG00000198938 | MT-CO3 | 5553.361023 | 14083.36886 | -1.338001377 | 0.001342 |
| ENSG00000166503 | HDGFL3 | 1.419157621 | 3.602421924 | -1.339171357 | 0.001582 |
| ENSG00000182263 | FIGN | 1.34913797 | 3.42634639 | -1.339725241 | 0.001741 |
| ENSG00000251136 | AF117829.1 | 0.223421739 | 0.568439592 | -1.339866423 | 0.00822 |
| ENSG00000103152 | MPG | 16.20098151 | 41.15188876 | -1.340145527 | 0.001524 |
| ENSG00000175265 | GOLGA8A | 1.888083331 | 4.801259304 | -1.341563824 | 0.001765 |
| ENSG00000213699 | SLC35F6 | 10.90148357 | 27.76185421 | -1.343911636 | 0.001394 |
| ENSG00000198468 | FLVCR1-DT | 0.958877506 | 2.445044477 | -1.344296078 | 0.004269 |
| ENSG00000102781 | KATNAL1 | 0.824882433 | 2.104225721 | -1.345766202 | 0.002215 |
| ENSG00000105854 | PON2 | 15.16802077 | 38.68288525 | -1.346024639 | 0.001339 |
| ENSG00000258056 | AC009779.2 | 2.316587707 | 5.924987037 | -1.348840319 | 0.003341 |
| ENSG00000142627 | EPHA2 | 20.01361335 | 51.16707906 | -1.349620475 | 0.001276 |
| ENSG00000234072 | AC074117.1 | 0.404138299 | 1.036426329 | -1.350712647 | 0.008986 |
| ENSG00000221926 | TRIM16 | 2.259674199 | 5.785871615 | -1.351491289 | 0.001638 |
| ENSG00000125247 | TMTCA4 | 2.764821758 | 7.079881535 | -1.351708886 | 0.001489 |
| ENSG00000197959 | DNM3 | 0.224990069 | 0.576874906 | -1.351984231 | 0.004297 |
| ENSG00000259877 | AC009113.1 | 1.077561767 | 2.766775037 | -1.354079031 | 0.004183 |
| ENSG00000110841 | PPFIBP1 | 6.684242337 | 17.15090019 | -1.354830768 | 0.001227 |
| ENSG00000238072 | AC009244.1 | 6.478364459 | 16.65604538 | -1.354954215 | 0.0075 |
| ENSG00000111647 | UHRF1BP1L | 3.252646182 | 8.349107089 | -1.355230805 | 0.001398 |
| ENSG00000137094 | DNAJB5 | 0.907916771 | 2.332758181 | -1.3559615 | 0.002363 |
| ENSG00000119185 | ITGB1BP1 | 4.486398352 | 11.53598875 | -1.357796698 | 0.001317 |
| ENSG00000276256 | AC011043.1 | 5.368335815 | 13.80621119 | -1.357810977 | 0.00162 |
| ENSG00000214106 | PAXIP1-AS2 | 0.315341016 | 0.811935351 | -1.357903686 | 0.004553 |
| ENSG00000104059 | FAM189A1 | 2.343602378 | 6.030306962 | -1.358581392 | 0.001542 |
| ENSG00000196372 | ASB13 | 10.56115788 | 27.17388323 | -1.358746097 | 0.001279 |
| ENSG00000006125 | AP2B1 | 38.88850241 | 100.1580016 | -1.360289067 | 0.001134 |
| ENSG00000101187 | SLCO4A1 | 12.31592896 | 31.73529654 | -1.360910687 | 0.0012 |
| ENSG00000177640 | CASC2 | 0.274904281 | 0.709463356 | -1.361519096 | 0.003908 |
| ENSG00000106348 | IMPDH1 | 16.21439801 | 41.80499102 | -1.361762731 | 0.001178 |
| ENSG00000135519 | KCNH3 | 2.185552378 | 5.64180362 | -1.363100111 | 0.00169 |
| ENSG00000124496 | TRERF1 | 1.145695235 | 2.95834911 | -1.363475039 | 0.001683 |
| ENSG00000184557 | SOCS3 | 1.558930496 | 4.027698611 | -1.36372614 | 0.002649 |
| ENSG00000227372 | TP73-AS1 | 1.554947709 | 4.023651412 | -1.36676648 | 0.001374 |
| ENSG00000107560 | RAB11FIP2 | 2.492631849 | 6.450707639 | -1.366920821 | 0.001385 |
| ENSG00000130529 | TRPM4 | 2.492953907 | 6.452830422 | -1.367229519 | 0.001338 |
| ENSG00000267221 | C17orf113 | 0.423878038 | 1.099361244 | -1.367388878 | 0.007242 |
| ENSG00000038382 | TRIO | 1.960334576 | 5.074859084 | -1.367571991 | 0.001183 |
| ENSG00000102038 | SMARCA1 | 8.073604169 | 20.92981178 | -1.369582215 | 0.001171 |
| ENSG00000017260 | ATP2C1 | 11.14539856 | 28.89957095 | -1.369992763 | 0.001076 |
| ENSG00000167772 | ANGPTL4 | 0.993288314 | 2.579019517 | -1.370047056 | 0.003863 |
| ENSG00000160691 | SHC1 | 20.31531243 | 52.70130803 | -1.370660178 | 0.001073 |

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| ENSG00000165512 | ZNF22 | 4.373467406 | 11.35309287 | -1.371251132 | 0.001455 |
| ENSG00000171224 | FAM241B | 3.717015635 | 9.656092284 | -1.371785719 | 0.0021 |
| ENSG00000101871 | MID1 | 1.658830697 | 4.310166128 | -1.37271009 | 0.00131 |
| ENSG00000182197 | EXT1 | 4.316575093 | 11.21632101 | -1.372950673 | 0.001133 |
| ENSG00000144199 | FAHD2B | 2.825462486 | 7.34841634 | -1.373754083 | 0.001688 |
| ENSG00000239382 | ALKBH6 | 0.292001752 | 0.761171186 | -1.373879051 | 0.009559 |
| ENSG00000165424 | ZCCHC24 | 1.79517775 | 4.670395025 | -1.374333803 | 0.001562 |
| ENSG00000183741 | CBX6 | 9.902579426 | 25.78757188 | -1.376182566 | 0.001031 |
| ENSG00000160172 | FAM86C2P | 2.21087041 | 5.763153268 | -1.377050762 | 0.001646 |
| ENSG0000023909 | GCLM | 7.26234218 | 18.92934973 | -1.377439495 | 0.00107 |
| ENSG00000142102 | PGGHG | 1.382256356 | 3.608282074 | -1.379071247 | 0.001608 |
| ENSG00000245694 | CRNDE | 3.245055533 | 8.468698749 | -1.379087707 | 0.001181 |
| ENSG00000090857 | PDPR | 5.576758281 | 14.56902766 | -1.380766244 | 0.00101 |
| ENSG00000188157 | AGRN | 15.30734908 | 39.99471354 | -1.380998815 | 0.000967 |
| ENSG00000160049 | DFFA | 11.97025069 | 31.28416316 | -1.381361722 | 0.000988 |
| ENSG00000102362 | SYTL4 | 0.545663533 | 1.42822562 | -1.38240029 | 0.002332 |
| ENSG00000132676 | DAP3 | 21.9036637 | 57.32957817 | -1.383502772 | 0.000961 |
| ENSG00000278619 | MRM1 | 3.082717692 | 8.075199708 | -1.383899888 | 0.001731 |
| ENSG00000239213 | NCK1-DT | 1.432811118 | 3.758974552 | -1.384590365 | 0.004126 |
| ENSG00000104728 | ARHGEF10 | 0.154875651 | 0.406484984 | -1.384664526 | 0.006244 |
| ENSG00000235609 | AF127577.4 | 0.627239858 | 1.645869554 | -1.385912524 | 0.002407 |
| ENSG00000197548 | ATG7 | 3.060702665 | 8.027259729 | -1.386310008 | 0.001052 |
| ENSG00000114779 | ABHD14B | 9.041837494 | 23.71978149 | -1.386677742 | 0.001045 |
| ENSG00000102908 | NFAT5 | 5.49801858 | 14.42430947 | -1.386908332 | 0.000938 |
| ENSG00000118162 | KPTN | 1.514820955 | 3.983159158 | -1.388714566 | 0.002551 |
| ENSG00000075420 | FNDC3B | 5.094865059 | 13.39520402 | -1.389972595 | 0.000928 |
| ENSG00000176485 | PLA2G16 | 5.980844364 | 15.7303012 | -1.390310006 | 0.001082 |
| ENSG00000158163 | DZIP1L | 0.414127361 | 1.091350644 | -1.391108339 | 0.00391 |
| ENSG00000142669 | SH3BGRL3 | 34.3922803 | 90.52877745 | -1.391656356 | 0.00092 |
| ENSG00000223768 | LINC00205 | 2.91220296 | 7.667131403 | -1.391801995 | 0.001052 |
| ENSG00000166886 | NAB2 | 6.038761156 | 15.91247193 | -1.393011406 | 0.001074 |
| ENSG00000147082 | CCNB3 | 0.61812797 | 1.630609287 | -1.393435516 | 0.002447 |
| ENSG00000167202 | TBC1D2B | 1.741952111 | 4.594146083 | -1.394251337 | 0.001091 |
| ENSG00000270441 | AC135506.1 | 0.743265383 | 1.965695739 | -1.394931085 | 0.007107 |
| ENSG00000104756 | KCTD9 | 9.123585758 | 24.07179522 | -1.394993345 | 0.000925 |
| ENSG00000178921 | PFAS | 6.857695674 | 18.10308919 | -1.395774463 | 0.000911 |
| ENSG00000171621 | SPSB1 | 3.831049261 | 10.11543955 | -1.395820539 | 0.00116 |
| ENSG00000055483 | USP36 | 3.855030216 | 10.1789449 | -1.396081482 | 0.000933 |
| ENSG00000101384 | JAG1 | 7.114042649 | 18.80455521 | -1.397710722 | 0.000872 |
| ENSG00000166548 | TK2 | 2.92014379 | 7.723808323 | -1.398485294 | 0.001006 |
| ENSG00000106701 | FSD1L | 0.778426945 | 2.062085703 | -1.400285183 | 0.001355 |
| ENSG00000198624 | CCDC69 | 0.209220162 | 0.55584089 | -1.400472487 | 0.009889 |
| ENSG00000260261 | AC124944.3 | 0.335197782 | 0.889549735 | -1.400878095 | 0.004295 |

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| ENSG00000184922 | FMNL1 | 0.584643318 | 1.553946816 | -1.404658525 | 0.00171 |
| ENSG00000251381 | LINC00958 | 15.03985039 | 39.95927473 | -1.405071034 | 0.000846 |
| ENSG00000167397 | VKORC1 | 1.258712802 | 3.35059425 | -1.406154726 | 0.002881 |
| ENSG00000144504 | ANKMY1 | 0.648062232 | 1.723908679 | -1.406270707 | 0.001284 |
| ENSG00000258839 | MC1R | 0.292783431 | 0.780097526 | -1.406292719 | 0.005571 |
| ENSG00000250420 | AACSP1 | 0.531590054 | 1.417057411 | -1.407259343 | 0.004183 |
| ENSG00000177570 | SAMD12 | 0.782560139 | 2.08417189 | -1.408240805 | 0.001074 |
| ENSG00000142733 | MAP3K6 | 2.726055463 | 7.26010643 | -1.408259513 | 0.001002 |
| ENSG00000076928 | ARHGEF1 | 5.491719154 | 14.64286933 | -1.410209247 | 0.000804 |
| ENSG00000154814 | OXNAD1 | 2.913669659 | 7.777546539 | -1.411647379 | 0.000925 |
| ENSG00000171004 | HS6ST2 | 5.688902832 | 15.19547803 | -1.412692023 | 0.000848 |
| ENSG00000255284 | AP006621.3 | 1.262638739 | 3.381538958 | -1.413050876 | 0.006373 |
| ENSG00000175793 | SFN | 28.71166957 | 76.77553645 | -1.41432423 | 0.000808 |
| ENSG00000107331 | ABCA2 | 2.689162673 | 7.2039313 | -1.416913252 | 0.000804 |
| ENSG00000113070 | HBEGF | 1.121478301 | 3.010905818 | -1.41880025 | 0.001934 |
| ENSG00000216895 | AC009403.1 | 1.090413043 | 2.93131227 | -1.419915816 | 0.003123 |
| ENSG00000239697 | TNFSF12 | 0.911763428 | 2.453752827 | -1.420858217 | 0.004867 |
| ENSG00000113522 | RAD50 | 0.436200591 | 1.172792879 | -1.421183952 | 0.00175 |
| ENSG00000279069 | AC015813.5 | 0.965978056 | 2.601819506 | -1.421570451 | 0.005571 |
| ENSG00000250571 | GLI4 | 1.763272211 | 4.744275929 | -1.422470873 | 0.001401 |
| ENSG00000145014 | TMEM44 | 2.455273143 | 6.605038606 | -1.422690854 | 0.000962 |
| ENSG00000077348 | EXOSC5 | 22.10023504 | 59.44350067 | -1.422752055 | 0.000754 |
| ENSG00000143387 | CTSK | 1.638645128 | 4.412263214 | -1.422881106 | 0.002021 |
| ENSG00000205220 | PSMB10 | 0.518653733 | 1.40111229 | -1.42410065 | 0.009486 |
| ENSG00000206503 | HLA-A | 1.495641595 | 4.030332752 | -1.424373276 | 0.001721 |
| ENSG00000105552 | BCAT2 | 15.38159795 | 41.44005251 | -1.425193765 | 0.000691 |
| ENSG00000186472 | PCLO | 0.279507453 | 0.755413154 | -1.429057161 | 0.00118 |
| ENSG00000173451 | THAP2 | 0.793840339 | 2.146599843 | -1.429631413 | 0.001371 |
| ENSG00000176155 | CCDC57 | 2.035848371 | 5.502863424 | -1.429801582 | 0.000738 |
| ENSG00000251209 | LINC00923 | 0.189047706 | 0.512627298 | -1.430945908 | 0.005716 |
| ENSG00000104881 | PPP1R13L | 2.731997874 | 7.392320022 | -1.431157778 | 0.000832 |
| ENSG00000173821 | RNF213 | 2.694042713 | 7.291829528 | -1.431887543 | 0.00065 |
| ENSG00000132589 | FLOT2 | 29.34751533 | 79.4491742 | -1.432186895 | 0.000641 |
| ENSG00000174151 | CYB561D1 | 1.637637174 | 4.444844272 | -1.435433867 | 0.000946 |
| ENSG00000073711 | PPP2R3A | 1.519567879 | 4.129607908 | -1.437374595 | 0.000851 |
| ENSG00000210077 | MT-TV | 21.1955185 | 57.73793992 | -1.437850024 | 0.005033 |
| ENSG00000107186 | MPDZ | 1.419660041 | 3.859642912 | -1.438058154 | 0.000756 |
| ENSG00000142192 | APP | 111.4036107 | 302.9164971 | -1.438560248 | 0.000587 |
| ENSG00000135503 | ACVR1B | 7.63006737 | 20.75309591 | -1.438888803 | 0.000637 |
| ENSG00000126368 | NR1D1 | 1.552633993 | 4.230857848 | -1.440533879 | 0.001454 |
| ENSG00000158966 | CACHD1 | 0.663678334 | 1.809108719 | -1.441001654 | 0.001513 |
| ENSG00000082212 | ME2 | 3.107604785 | 8.468698749 | -1.441682922 | 0.000614 |
| ENSG00000112367 | FIG4 | 3.071091036 | 8.374392527 | -1.442230514 | 0.00082 |

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| ENSG00000160207 | HSF2BP | 1.116906703 | 3.049898247 | -1.442389068 | 0.002739 |
| ENSG00000111674 | ENO2 | 6.237071487 | 17.01228672 | -1.442895191 | 0.00066 |
| ENSG00000108786 | HSD17B1 | 0.509578668 | 1.392419488 | -1.443954006 | 0.002045 |
| ENSG00000172830 | SSH3 | 8.951565941 | 24.44083671 | -1.44437372 | 0.000639 |
| ENSG00000242294 | STAG3L5P | 1.102754407 | 3.017200446 | -1.445949845 | 0.001712 |
| ENSG00000137449 | CPEB2 | 1.542865327 | 4.222465315 | -1.447471429 | 0.000788 |
| ENSG00000174282 | ZBTB4 | 5.866060668 | 16.06094386 | -1.448398641 | 0.000606 |
| ENSG00000113552 | GNPDA1 | 23.98892073 | 65.70380992 | -1.448999943 | 0.000557 |
| ENSG00000253683 | AC027309.2 | 12.40505569 | 34.03862399 | -1.449617749 | 0.002282 |
| ENSG00000128283 | CDC42EP1 | 10.05254334 | 27.55724259 | -1.450123291 | 0.000627 |
| ENSG00000245573 | BDNF-AS | 0.314007681 | 0.864987864 | -1.453106796 | 0.00643 |
| ENSG00000049883 | PTCD2 | 1.679695792 | 4.622258817 | -1.455598151 | 0.000621 |
| ENSG00000114021 | NIT2 | 4.068488405 | 11.20527632 | -1.456925244 | 0.000564 |
| ENSG00000141441 | GAREM1 | 0.999361336 | 2.756291601 | -1.458438849 | 0.000861 |
| ENSG00000235919 | ASH1L-AS1 | 0.829487856 | 2.295544716 | -1.459057376 | 0.007402 |
| ENSG00000185875 | THNSL1 | 4.213844295 | 11.62801267 | -1.459528449 | 0.000628 |
| ENSG00000111897 | SERINC1 | 23.39026188 | 64.58332483 | -1.460629242 | 0.00051 |
| ENSG00000164171 | ITGA2 | 3.042783772 | 8.420673259 | -1.463780725 | 0.000564 |
| ENSG00000265660 | MIR4664 | 22.95257154 | 63.67711716 | -1.464520234 | 0.003838 |
| ENSG00000135686 | KLHL36 | 4.749201807 | 13.15350567 | -1.465028897 | 0.000506 |
| ENSG00000116096 | SPR | 17.19414832 | 47.63643047 | -1.465395655 | 0.000552 |
| ENSG00000152518 | ZFP36L2 | 11.58822701 | 32.11899336 | -1.466093961 | 0.000506 |
| ENSG00000165915 | SLC39A13 | 3.956126882 | 10.97594875 | -1.467354186 | 0.000586 |
| ENSG00000133943 | DGLUCY | 2.613039142 | 7.255697389 | -1.468564889 | 0.000565 |
| ENSG00000085831 | TTC39A | 0.772151568 | 2.146832062 | -1.470008615 | 0.000778 |
| ENSG00000088854 | C20orf194 | 1.364962037 | 3.799703012 | -1.472042026 | 0.00064 |
| ENSG00000271601 | LIX1L | 7.232299402 | 20.13495901 | -1.472446146 | 0.000515 |
| ENSG00000080947 | CROCCP3 | 0.202395402 | 0.56504161 | -1.473017212 | 0.004269 |
| ENSG00000127415 | IDUA | 0.97151173 | 2.708168879 | -1.473176636 | 0.001206 |
| ENSG00000001617 | SEMA3F | 7.273058151 | 20.26676782 | -1.473783183 | 0.000492 |
| ENSG00000280187 | AC022107.1 | 1.161457261 | 3.240769011 | -1.474457482 | 0.001271 |
| ENSG00000206573 | THUMPD3-AS1 | 1.997710793 | 5.571314462 | -1.474715664 | 0.000601 |
| ENSG00000159131 | GART | 18.45330899 | 51.45073585 | -1.474720408 | 0.00044 |
| ENSG00000170293 | CMTM8 | 4.235492879 | 11.81990444 | -1.475057864 | 0.00097 |
| ENSG00000148175 | STOM | 3.854505308 | 10.76386516 | -1.476617226 | 0.000596 |
| ENSG00000273702 | AC091271.1 | 0.755158749 | 2.11873641 | -1.478120839 | 0.007788 |
| ENSG00000112305 | SMAP1 | 0.522192607 | 1.46305806 | -1.479480639 | 0.002094 |
| ENSG00000260630 | SNAI3-AS1 | 0.431376502 | 1.20861318 | -1.479480639 | 0.002094 |
| ENSG00000145911 | N4BP3 | 1.896839541 | 5.308258377 | -1.479651227 | 0.000599 |
| ENSG00000168615 | ADAM9 | 29.95641458 | 83.82158452 | -1.479875796 | 0.000417 |
| ENSG00000164889 | SLC4A2 | 13.64771178 | 38.20494125 | -1.48049502 | 0.000423 |
| ENSG00000163702 | IL17RC | 3.626314449 | 10.16536977 | -1.482226336 | 0.000524 |
| ENSG00000138246 | DNAJC13 | 7.699380371 | 21.58937581 | -1.482882773 | 0.000421 |

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| ENSG00000167700 | MFSD3 | 6.555479384 | 18.3914308 | -1.48328535 | 0.000581 |
| ENSG00000136717 | BIN1 | 6.223493315 | 17.58482003 | -1.493860732 | 0.000398 |
| ENSG00000179588 | ZFPM1 | 0.629175363 | 1.780268189 | -1.494698054 | 0.001027 |
| ENSG00000259456 | ADNP-AS1 | 0.901519973 | 2.559272345 | -1.494749617 | 0.007535 |
| ENSG00000147437 | GNRH1 | 0.474295695 | 1.34645032 | -1.494749617 | 0.007535 |
| ENSG00000173905 | GOLIM4 | 15.69989176 | 44.40671234 | -1.495397384 | 0.000378 |
| ENSG00000177788 | AL162595.1 | 1.447115178 | 4.108130673 | -1.497740974 | 0.00301 |
| ENSG00000175155 | YPEL2 | 0.573724315 | 1.626904744 | -1.498132549 | 0.000811 |
| ENSG00000275964 | AL355001.2 | 1.999807467 | 5.675257276 | -1.498158405 | 0.001619 |
| ENSG00000243701 | DUBR | 0.596083463 | 1.692186494 | -1.49874099 | 0.001568 |
| ENSG00000136059 | VILL | 0.187118294 | 0.532236008 | -1.49941356 | 0.00465 |
| ENSG00000126254 | RBM42 | 18.12723317 | 51.43903634 | -1.500022138 | 0.00038 |
| ENSG00000007384 | RHBDF1 | 2.984675054 | 8.480762423 | -1.501719951 | 0.000451 |
| ENSG00000059122 | FLYWCH1 | 5.975731407 | 16.98223204 | -1.502181868 | 0.000366 |
| ENSG00000161513 | FDXR | 2.925794274 | 8.320791495 | -1.502857272 | 0.000518 |
| ENSG00000280385 | AP000648.3 | 1.131090524 | 3.217939098 | -1.502878032 | 0.000755 |
| ENSG00000273230 | AC102953.2 | 0.289984952 | 0.82839882 | -1.504059541 | 0.006717 |
| ENSG00000135740 | SLC9A5 | 0.185061971 | 0.52866577 | -1.504773323 | 0.005655 |
| ENSG00000144730 | IL17RD | 0.909044426 | 2.589060396 | -1.504869162 | 0.000543 |
| ENSG00000162496 | DHRS3 | 4.445553556 | 12.66519162 | -1.505503498 | 0.000452 |
| ENSG00000143067 | ZNF697 | 0.613394834 | 1.74932256 | -1.505721787 | 0.001102 |
| ENSG00000121858 | TNFSF10 | 0.397039987 | 1.134222497 | -1.506138047 | 0.003455 |
| ENSG00000069869 | NEDD4 | 1.62157965 | 4.622545592 | -1.506389821 | 0.000435 |
| ENSG00000248508 | SRP14-AS1 | 0.544663295 | 1.555937394 | -1.506698714 | 0.002905 |
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| ENSG00000255624 | AC073585.1 | 1.076440183 | 3.08205102 | -1.510869165 | 0.001508 |
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| ENSG00000171522 | PTGER4 | 0.200435134 | 0.57634921 | -1.512896917 | 0.007267 |
| ENSG00000162849 | KIF26B | 0.710784936 | 2.03567624 | -1.512972418 | 0.000472 |
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| ENSG00000272758 | AC083798.2 | 0.419155334 | 1.207721727 | -1.518000243 | 0.004137 |
| ENSG00000168517 | HEXIM2 | 0.984151932 | 2.833387013 | -1.518494081 | 0.001677 |
| ENSG00000159842 | ABR | 4.300948939 | 12.3813657 | -1.520791745 | 0.000309 |
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| ENSG00000251003 | ZFPM2-AS1 | 2.162126811 | 6.243675054 | -1.524507116 | 0.000568 |
| ENSG00000112667 | DNPH1 | 24.93755701 | 71.97910011 | -1.524538116 | 0.000323 |
| ENSG00000167925 | GHDC | 3.784499646 | 10.92625595 | -1.524733897 | 0.00037 |
| ENSG00000146729 | NIPSNAP2 | 6.898925068 | 19.92200526 | -1.525232175 | 0.000306 |
| ENSG00000188002 | AC026412.1 | 1.478141689 | 4.27139184 | -1.525343673 | 0.000632 |
| ENSG00000272636 | DOC2B | 1.328476645 | 3.839020851 | -1.525815685 | 0.000456 |
| ENSG00000275074 | NUDT18 | 3.33141407 | 9.635797324 | -1.526843992 | 0.000559 |
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| ENSG00000164761 | TNFRSF11B | 3.000511675 | 8.692944449 | -1.529479888 | 0.000441 |
| ENSG00000258704 | SRP54-AS1 | 0.573151186 | 1.666556468 | -1.529540108 | 0.005794 |
| ENSG00000175274 | TP53I11 | 1.598599273 | 4.631718542 | -1.529749113 | 0.000394 |
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| ENSG00000105404 | RABAC1 | 1.295996972 | 3.761983236 | -1.530910947 | 0.001218 |
| ENSG00000178718 | RPP25 | 0.945620237 | 2.74539318 | -1.531358592 | 0.001081 |
| ENSG00000266094 | RASSF5 | 0.311474117 | 0.904759202 | -1.531523712 | 0.001344 |
| ENSG00000175920 | DOK7 | 1.212825041 | 3.520195897 | -1.531686387 | 0.000624 |
| ENSG00000104142 | VPS18 | 4.520135202 | 13.12270333 | -1.532791942 | 0.000336 |
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| ENSG00000106004 | HOXA5 | 7.441579983 | 21.63419778 | -1.534674669 | 0.000364 |
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| ENSG00000148672 | GLUD1 | 39.41060275 | 114.9161818 | -1.539332505 | 0.00025 |
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| ENSG00000115239 | ASB3 | 0.12603962 | 0.369532043 | -1.540845679 | 0.006203 |
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| ENSG00000168890 | TMEM150A | 1.539606137 | 4.499460546 | -1.541561597 | 0.000577 |
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| ENSG00000143515 | ATP8B2 | 0.126923583 | 0.37243485 | -1.543161389 | 0.00474 |
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| ENSG00000246334 | PRR7-AS1 | 1.645870194 | 4.842101376 | -1.550396126 | 0.000951 |
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| ENSG00000082438 | COBLL1 | 0.968134207 | 2.858606636 | -1.5571673 | 0.000276 |
| ENSG00000117115 | PADI2 | 0.209485883 | 0.620878864 | -1.558806507 | 0.002726 |
| ENSG00000160213 | CSTB | 18.86982109 | 55.78611184 | -1.559199083 | 0.000215 |
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| ENSG00000128266 | GNAZ | 1.08816278 | 3.229006454 | -1.563407167 | 0.000569 |
| ENSG00000103599 | IQCH | 0.364476357 | 1.083181905 | -1.564834152 | 0.000888 |
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| ENSG00000143499 | SMYD2 | 6.615246244 | 19.68515284 | -1.568524719 | 0.000217 |
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| ENSG00000186010 | NDUFA13 | 0.385759331 | 1.157096949 | -1.575238278 | 0.003479 |
| ENSG00000153558 | FBXL2 | 1.248547524 | 3.738047763 | -1.576936719 | 0.000275 |
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| ENSG00000229043 | AC091729.3 | 2.817700226 | 8.451778272 | -1.579262184 | 0.000364 |
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| ENSG00000124406 | ATP8A1 | 1.563363146 | 4.688556305 | -1.579638122 | 0.00022 |
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| ENSG00000179913 | B3GNT3 | 7.681549618 | 23.07216977 | -1.581834272 | 0.000217 |
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| ENSG00000155636 | RBM45 | 1.056864453 | 3.190682397 | -1.588490627 | 0.000381 |
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| ENSG00000073792 | IGF2BP2 | 11.92231129 | 36.02793195 | -1.590802871 | 0.000164 |
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| ENSG00000215440 | NPEPL1 | 0.601544246 | 1.821925262 | -1.593032554 | 0.000382 |
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| ENSG00000154803 | FLCN | 1.682349029 | 5.109381487 | -1.597798166 | 0.000191 |
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| ENSG00000155850 | SLC26A2 | 14.75066226 | 44.89315659 | -1.601117783 | 0.000143 |
| ENSG00000166313 | APBB1 | 0.262951921 | 0.802390058 | -1.601168936 | 0.001837 |
| ENSG00000169562 | GJB1 | 0.556240369 | 1.697351135 | -1.601168936 | 0.001837 |
| ENSG00000174804 | FZD4 | 2.161999484 | 6.584416965 | -1.601805686 | 0.000184 |
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| ENSG00000160209 | PDXK | 11.31981612 | 34.72599144 | -1.612569589 | 0.000129 |
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| ENSG00000261824 | LINC00662 | 1.071152545 | 3.290578832 | -1.614005886 | 0.000213 |
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| ENSG00000274964 | AC026356.1 | 0.523472854 | 1.616354441 | -1.614640289 | 0.004758 |
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| ENSG00000246985 | SOCS2-AS1 | 0.273751643 | 0.844587207 | -1.615811167 | 0.002684 |
| ENSG00000103811 | CTSH | 9.134361944 | 28.11750074 | -1.617438097 | 0.000129 |
| ENSG00000111885 | MAN1A1 | 1.500076014 | 4.624510805 | -1.619010506 | 0.000221 |
| ENSG00000167393 | PPP2R3B | 0.579387836 | 1.787545636 | -1.619816967 | 0.000284 |
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| ENSG00000229980 | TOB1-AS1 | 0.369438606 | 1.145635974 | -1.621583133 | 0.003863 |
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| ENSG00000250988 | SNHG21 | 0.793645788 | 2.465585065 | -1.624527078 | 0.003515 |
| ENSG00000250479 | CHCHD10 | 19.81736451 | 61.35180833 | -1.625588652 | 0.000133 |
| ENSG00000108819 | PPP1R9B | 8.827638271 | 27.33904029 | -1.62616758 | 0.000125 |
| ENSG00000117280 | RAB29 | 8.234381718 | 25.51797756 | -1.627060189 | 0.000127 |
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| ENSG00000166974 | MAPRE2 | 1.724156949 | 5.34549903 | -1.627382684 | 0.000177 |
| ENSG00000175309 | PHYKPL | 2.441877687 | 7.570625602 | -1.627608101 | 0.000139 |
| ENSG00000146856 | AGBL3 | 0.228742032 | 0.710622984 | -1.62765982 | 0.001116 |
| ENSG00000185686 | PRAME | 5.811221629 | 18.02382659 | -1.628195039 | 0.000136 |
| ENSG00000111816 | FRK | 0.587459852 | 1.823682747 | -1.629058207 | 0.000199 |
| ENSG00000120049 | KCNIP2 | 0.159908996 | 0.500735542 | -1.632566688 | 0.007946 |
| ENSG00000227533 | SLC2A1-AS1 | 0.161477663 | 0.505647632 | -1.632566688 | 0.007946 |
| ENSG00000253716 | MINCR | 2.26028061 | 7.041031995 | -1.63306841 | 0.000385 |
| ENSG00000271303 | SRXN1 | 1.672657036 | 5.209644291 | -1.633318069 | 0.000275 |
| ENSG00000154710 | RABGEF1 | 0.498795397 | 1.554443736 | -1.633410232 | 0.000507 |
| ENSG00000167880 | EVPL | 3.282745133 | 10.22220428 | -1.63396079 | 0.000126 |
| ENSG00000168487 | BMP1 | 2.533637959 | 7.902898925 | -1.636335764 | 0.000129 |
| ENSG00000105643 | ARRDC2 | 1.757205714 | 5.483168703 | -1.636522029 | 0.000185 |
| ENSG00000143248 | RGS5 | 0.226662026 | 0.7087549 | -1.63677603 | 0.001251 |
| ENSG00000248124 | RRN3P1 | 0.843186328 | 2.633124821 | -1.637103879 | 0.000267 |
| ENSG00000127528 | KLF2 | 1.014612035 | 3.172015084 | -1.637337546 | 0.00064 |
| ENSG00000144724 | PTPRG | 1.299636345 | 4.057413338 | -1.637617589 | 0.000128 |
| ENSG00000230615 | AL139220.2 | 0.078357515 | 0.246227949 | -1.63888865 | 0.006036 |
| ENSG00000234602 | MCIDAS | 1.039140813 | 3.253942869 | -1.639810427 | 0.000601 |
| ENSG00000168010 | ATG16L2 | 0.378236644 | 1.184401974 | -1.640619676 | 0.000359 |
| ENSG00000230337 | AL109811.2 | 1.247326888 | 3.9251245 | -1.64145378 | 0.005337 |
| ENSG00000237437 | ASS1P12 | 0.544879553 | 1.714642814 | -1.64145378 | 0.005337 |
| ENSG00000096092 | TMEM14A | 17.27019638 | 54.10381374 | -1.642580123 | 0.000128 |
| ENSG00000109944 | JHY | 0.38392615 | 1.205160976 | -1.642826733 | 0.00074 |
| ENSG00000147459 | DOCK5 | 1.115325941 | 3.500274198 | -1.645148224 | 0.000123 |
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| ENSG00000210140 | MT-TC | 1051.600511 | 3302.297588 | -1.646250149 | 9.72E-05 |
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| ENSG00000106733 | NMRK1 | 3.070392759 | 9.659105748 | -1.648462918 | 0.000137 |
| ENSG00000152527 | PLEKHH2 | 0.492843141 | 1.55203097 | -1.649306591 | 0.000231 |
| ENSG00000101104 | PABPC1L | 3.320031802 | 10.45430858 | -1.64995132 | 0.000119 |
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| ENSG00000116871 | MAP7D1 | 4.502776709 | 14.19069945 | -1.651278425 | 0.000106 |
| ENSG00000105722 | ERF | 8.788260205 | 27.71373863 | -1.652211678 | 0.000102 |
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| ENSG00000213742 | ZNF337-AS1 | 0.354247416 | 1.121607992 | -1.655360066 | 0.000647 |
| ENSG00000141510 | TP53 | 9.513389369 | 30.10178296 | -1.657162459 | 8.94E-05 |
| ENSG00000003249 | DBNDD1 | 5.18938493 | 16.42529084 | -1.657512735 | 0.000102 |
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| ENSG00000105355 | PLIN3 | 15.71596406 | 49.83935229 | -1.660377268 | 8.84E-05 |
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| ENSG00000099282 | TSPAN15 | 3.221554027 | 10.23495419 | -1.66249455 | 0.000137 |
| ENSG00000254615 | AC027031.2 | 2.00240356 | 6.37219918 | -1.66362839 | 0.00037 |
| ENSG00000262879 | AC068152.1 | 1.784742968 | 5.682295948 | -1.665309152 | 0.000167 |
| ENSG00000169087 | HSPBAP1 | 1.222651209 | 3.904622711 | -1.669810295 | 0.000154 |
| ENSG00000260793 | AC003102.1 | 0.269985517 | 0.867674829 | -1.669924072 | 0.006493 |
| ENSG00000249476 | AC008467.1 | 0.099289135 | 0.319093723 | -1.669924072 | 0.006493 |
| ENSG00000222019 | URAHP | 0.267855454 | 0.860829268 | -1.671222277 | 0.00502 |
| ENSG00000167100 | SAMD14 | 0.095291792 | 0.306247129 | -1.671750313 | 0.004472 |
| ENSG00000163898 | LIPH | 0.172332039 | 0.553837754 | -1.672216535 | 0.00339 |
| ENSG00000197948 | FCHSD1 | 1.520596841 | 4.872126398 | -1.674778232 | 0.000122 |
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| ENSG00000128591 | FLNC | 0.130579534 | 0.419654268 | -1.675310538 | 0.001299 |
| ENSG00000266472 | MRPS21 | 19.96331103 | 64.02135725 | -1.676482073 | 7.98E-05 |
| ENSG00000232859 | LYRM9 | 0.357273371 | 1.148199039 | -1.676935479 | 0.000539 |
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| ENSG00000137767 | SQOR | 2.273301725 | 7.305898144 | -1.67895331 | 0.00013 |
| ENSG00000173614 | NMNAT1 | 1.622471949 | 5.214272558 | -1.679000128 | 0.000128 |
| ENSG00000118200 | CAMSAP2 | 4.061952009 | 13.15208097 | -1.690319035 | 7.05E-05 |
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| ENSG00000251562 | MALAT1 | 5.125568374 | 16.5992141 | -1.69065541 | 6.62E-05 |
| ENSG00000126790 | L3HYPDH | 2.444639671 | 7.920415415 | -1.690770343 | 0.000107 |
| ENSG00000174353 | STAG3L3 | 0.355474471 | 1.154701829 | -1.691004072 | 0.001064 |
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| ENSG00000041880 | PARP3 | 5.608498001 | 18.22323818 | -1.695208507 | 7.80E-05 |
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| ENSG00000138623 | SEMA7A | 0.494827706 | 1.613828344 | -1.698071458 | 0.000467 |
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| ENSG00000280254 | AC233723.2 | 0.33729946 | 1.105262271 | -1.700165297 | 0.002863 |
| ENSG00000167106 | FAM102A | 4.212795445 | 13.73714169 | -1.700465494 | 6.72E-05 |
| ENSG00000064225 | ST3GAL6 | 1.01672614 | 3.317368771 | -1.700708718 | 0.00012 |
| ENSG00000169814 | BTD | 1.860311164 | 6.07061517 | -1.70124585 | 8.53E-05 |
| ENSG00000180530 | NRIP1 | 3.958725181 | 12.91740321 | -1.701491096 | 6.33E-05 |
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| ENSG00000245498 | AP000866.1 | 0.129126856 | 0.424207583 | -1.702847101 | 0.004177 |
| ENSG00000234665 | AL512625.3 | 0.137938295 | 0.453858582 | -1.70447029 | 0.004688 |
| ENSG00000235092 | ID2-AS1 | 0.649094381 | 2.129507744 | -1.705432727 | 0.000919 |
| ENSG00000265458 | AC132938.3 | 1.191251886 | 3.926589646 | -1.706338483 | 0.005308 |
| ENSG00000172508 | CARNS1 | 0.095804384 | 0.31578922 | -1.706338483 | 0.005308 |
| ENSG00000261238 | AC009166.1 | 1.029620963 | 3.400894276 | -1.708511682 | 0.009726 |
| ENSG00000251867 | AC009812.1 | 0.29989558 | 0.990571479 | -1.708511682 | 0.009726 |
| ENSG00000108187 | PBLD | 0.484750009 | 1.592500859 | -1.709271053 | 0.000294 |
| ENSG00000127561 | SYNGR3 | 0.525372626 | 1.727699444 | -1.709878067 | 0.000445 |
| ENSG00000111846 | GCNT2 | 0.783016604 | 2.575655827 | -1.712506972 | 9.68E-05 |
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| ENSG00000281376 | ABALON | 1.954232852 | 6.445136846 | -1.715596844 | 0.000168 |
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| ENSG00000113594 | LIFR | 0.496607262 | 1.641264165 | -1.719153806 | 0.000105 |
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| ENSG00000072778 | ACADVL | 19.01603042 | 63.21123286 | -1.728349171 | 4.38E-05 |
| ENSG00000134716 | CYP2J2 | 0.363351746 | 1.212646448 | -1.729169009 | 0.001044 |
| ENSG00000169410 | PTPN9 | 3.596685578 | 11.96863826 | -1.729787047 | 4.90E-05 |
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| ENSG00000263142 | LRRC37A17P | 0.749404024 | 2.496642396 | -1.730187489 | 0.000148 |
| ENSG00000108828 | VAT1 | 30.1246723 | 100.2663246 | -1.730211211 | 4.27E-05 |
| ENSG00000111275 | ALDH2 | 3.91631128 | 13.04209479 | -1.730908485 | 4.67E-05 |
| ENSG00000008311 | AASS | 0.97387132 | 3.246813246 | -1.731448423 | 0.000115 |
| ENSG00000203727 | SAMD5 | 0.94546194 | 3.151833746 | -1.731633207 | 9.11E-05 |
| ENSG00000179743 | FLJ37453 | 1.013799857 | 3.384837771 | -1.732588359 | 0.000244 |
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| ENSG00000124107 | SLPI | 106.9875803 | 356.8281752 | -1.733143936 | 4.28E-05 |
| ENSG00000186594 | MIR22HG | 0.825633488 | 2.758343751 | -1.733466098 | 0.000245 |
| ENSG00000143669 | LYST | 0.553901152 | 1.848584113 | -1.733662435 | 6.26E-05 |
| ENSG00000170442 | KRT86 | 0.261813601 | 0.878808159 | -1.733793532 | 0.003476 |
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| ENSG00000220412 | AL356234.1 | 0.328834351 | 1.107126119 | -1.737545223 | 0.00387 |
| ENSG00000160188 | RSPH1 | 0.195781898 | 0.659162439 | -1.737545223 | 0.00387 |
| ENSG00000253981 | ALG1L13P | 0.635300564 | 2.134523438 | -1.737929965 | 0.00146 |
| ENSG00000010379 | SLC6A13 | 0.295442735 | 0.991688302 | -1.738110355 | 0.000794 |
| ENSG00000197576 | HOXA4 | 0.90889933 | 3.049119355 | -1.738215038 | 0.000523 |
| ENSG00000087077 | TRIP6 | 26.55956024 | 88.91917803 | -1.738633183 | 4.01E-05 |
| ENSG00000142794 | NBPF3 | 1.061198324 | 3.555027742 | -1.738855721 | 7.50E-05 |
| ENSG00000152556 | PFKM | 9.792572841 | 32.79855971 | -1.739239601 | 4.00E-05 |
| ENSG00000166750 | SLFN5 | 2.16555469 | 7.264759172 | -1.741386229 | 4.64E-05 |
| ENSG00000107902 | LHPP | 1.531996103 | 5.143793788 | -1.741987181 | 8.34E-05 |
| ENSG00000205213 | LGR4 | 10.58476876 | 35.53514082 | -1.742618419 | 3.89E-05 |
| ENSG00000180861 | LINC01559 | 0.211411337 | 0.71340164 | -1.743587818 | 0.001652 |
| ENSG00000139687 | RB1 | 2.836644053 | 9.546505862 | -1.745932296 | 4.76E-05 |
| ENSG00000118257 | NRP2 | 0.099231425 | 0.33501473 | -1.746841608 | 0.000651 |
| ENSG00000196843 | ARID5A | 0.621214275 | 2.096897999 | -1.748070898 | 0.000252 |
| ENSG00000248527 | MTATP6P1 | 167.6326747 | 565.1590641 | -1.748748769 | 3.56E-05 |
| ENSG00000167550 | RHEBL1 | 1.036538313 | 3.504709549 | -1.748881566 | 0.00067 |
| ENSG00000217555 | CKLF | 0.647836446 | 2.197672654 | -1.750464081 | 0.001897 |
| ENSG00000259479 | SORD2P | 0.257141235 | 0.872306992 | -1.750464081 | 0.001897 |
| ENSG00000261270 | AC012181.2 | 0.764791944 | 2.606837385 | -1.75274534 | 0.00927 |
| ENSG00000142871 | CYR61 | 13.12284421 | 44.4896202 | -1.756661336 | 3.76E-05 |
| ENSG00000004660 | CAMKK1 | 0.3996184 | 1.356640954 | -1.756941128 | 0.000168 |
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| ENSG00000224086 | AC245452.1 | 0.04857233 | 0.165561584 | -1.761622816 | 0.00029 |
| ENSG00000106714 | CNTNAP3 | 0.618816149 | 2.106278609 | -1.761625506 | 6.97E-05 |
| ENSG00000125503 | PPP1R12C | 4.272651579 | 14.53671667 | -1.761774709 | 3.53E-05 |
| ENSG00000138772 | ANXA3 | 10.02426683 | 34.11189306 | -1.7621143 | 3.28E-05 |
| ENSG00000159216 | RUNX1 | 0.662707483 | 2.256263692 | -1.762402934 | 5.06E-05 |
| ENSG00000159714 | ZDHHC1 | 0.708227979 | 2.415185394 | -1.763103207 | 0.00019 |
| ENSG00000104714 | ERICH1 | 1.074065668 | 3.663525096 | -1.765067632 | 4.96E-05 |
| ENSG00000129667 | RHBDF2 | 1.635450196 | 5.585692862 | -1.767006218 | 4.55E-05 |
| ENSG00000167702 | KIFC2 | 1.390655883 | 4.751111663 | -1.767054251 | 6.48E-05 |
| ENSG00000256525 | POLG2 | 2.590007278 | 8.85221125 | -1.767898434 | 5.19E-05 |
| ENSG00000108602 | ALDH3A1 | 15.26160797 | 52.14366734 | -1.767936213 | 3.06E-05 |
| ENSG00000231925 | TAPBP | 3.933915063 | 13.44841421 | -1.768564998 | 3.68E-05 |
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| ENSG00000210144 | MT-TY | 54.44770856 | 186.5130082 | -1.770246036 | 0.000107 |
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| ENSG00000160781 | PAQR6 | 1.096461193 | 3.762378025 | -1.772176363 | 0.000158 |
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| ENSG00000172831 | CES2 | 6.279939539 | 21.56471569 | -1.775129019 | 3.11E-05 |
| ENSG00000188191 | PRKAR1B | 8.625052962 | 29.64273541 | -1.77637417 | 3.01E-05 |
| ENSG00000265683 | SYPL1P2 | 0.74719513 | 2.586040058 | -1.776520783 | 0.003553 |
| ENSG00000173548 | SNX33 | 1.513209381 | 5.204104214 | -1.777026508 | 3.96E-05 |
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| ENSG00000181458 | TMEM45A | 0.417506585 | 1.438681522 | -1.778121959 | 0.000167 |
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| ENSG00000137941 | TTLL7 | 0.471636976 | 1.626128778 | -1.78002684 | 6.93E-05 |
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| ENSG00000178700 | DHFR2 | 1.228720059 | 4.246683818 | -1.783659163 | 5.70E-05 |
| ENSG00000135736 | CCDC102A | 2.848272399 | 9.847193367 | -1.784317682 | 4.87E-05 |
| ENSG00000188177 | ZC3H6 | 0.623082211 | 2.154151764 | -1.784317682 | 4.87E-05 |
| ENSG00000104324 | CPQ | 0.785668007 | 2.719194565 | -1.784598406 | 0.000141 |
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| ENSG00000107796 | ACTA2 | 0.280816201 | 0.977689156 | -1.788590683 | 0.001225 |
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| ENSG00000169871 | TRIM56 | 1.009762079 | 3.50556983 | -1.790586285 | 3.65E-05 |
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| ENSG00000253854 | AC010834.3 | 0.667499213 | 2.335881764 | -1.793763436 | 0.002412 |
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| ENSG00000188707 | ZBED6CL | 1.65261244 | 5.753732349 | -1.79405055 | 6.34E-05 |
| ENSG00000157827 | FMNL2 | 5.755995518 | 20.02976327 | -1.794303461 | 2.54E-05 |
| ENSG00000145819 | ARHGAP26 | 0.496808017 | 1.729685853 | -1.794543063 | 4.02E-05 |
| ENSG00000188372 | ZP3 | 1.061559684 | 3.70828514 | -1.798087892 | 0.000121 |
| ENSG00000224934 | AL391684.1 | 0.157498075 | 0.551589644 | -1.798608759 | 0.000638 |
| ENSG00000172380 | GNG12 | 24.95274272 | 87.11942068 | -1.799191978 | 2.16E-05 |
| ENSG00000124228 | DDX27 | 5.314110835 | 18.56311985 | -1.799790762 | 2.49E-05 |
| ENSG00000273311 | DGCR11 | 0.547325236 | 1.920730165 | -1.80205405 | 0.000523 |
| ENSG00000139192 | TAPBPL | 0.720890775 | 2.527403373 | -1.802832552 | 0.000146 |
| ENSG00000225377 | NRSN2-AS1 | 1.193870022 | 4.194944001 | -1.803143214 | 0.000658 |
| ENSG00000277559 | AC018553.1 | 0.286594312 | 1.013157081 | -1.803988285 | 0.008765 |
| ENSG00000224183 | SDHDP6 | 0.870530224 | 3.077464635 | -1.803988285 | 0.008765 |
| ENSG00000196876 | SCN8A | 0.058754233 | 0.206806523 | -1.804643415 | 0.001005 |
| ENSG00000148057 | IDNK | 1.911903204 | 6.712000647 | -1.805575223 | 7.94E-05 |
| ENSG00000136048 | DRAM1 | 0.459839889 | 1.617041009 | -1.806707041 | 0.000178 |
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| ENSG00000005448 | WDR54 | 3.681794962 | 12.94374191 | -1.808688589 | 3.26E-05 |
| ENSG00000103034 | NDRG4 | 0.272881041 | 0.960502358 | -1.808848981 | 0.000117 |
| ENSG00000214176 | PLEKHM1P1 | 0.991719873 | 3.488447337 | -1.809361445 | 3.49E-05 |
| ENSG00000087086 | FTL | 1264.414414 | 4446.589075 | -1.809667759 | 1.87E-05 |
| ENSG00000145700 | ANKRD31 | 0.086595068 | 0.306841104 | -1.810371812 | 0.00291 |
| ENSG00000139194 | RBP5 | 0.396793908 | 1.406000178 | -1.810371812 | 0.00291 |
| ENSG00000197927 | C2orf27A | 0.553665365 | 1.95380735 | -1.810733799 | 0.000349 |
| ENSG00000139289 | PHLDA1 | 2.563365736 | 9.031399498 | -1.812084205 | 2.41E-05 |
| ENSG00000087253 | LPCAT2 | 1.881721468 | 6.631127894 | -1.812246635 | 2.70E-05 |
| ENSG00000132334 | PTPRE | 0.200837948 | 0.70919766 | -1.813133414 | 0.000136 |
| ENSG00000108797 | CNTNAP1 | 0.158985172 | 0.562778705 | -1.813336246 | 0.000803 |
| ENSG00000135362 | PRR5L | 0.751582322 | 2.652228508 | -1.813525649 | 5.13E-05 |
| ENSG00000118762 | PKD2 | 2.447238113 | 8.646496094 | -1.815990107 | 2.62E-05 |
| ENSG00000116141 | MARK1 | 0.146561485 | 0.520597505 | -1.817101476 | 0.00111 |
| ENSG00000204410 | MSH5 | 0.127353796 | 0.452370337 | -1.817101476 | 0.00111 |
| ENSG00000155367 | PPM1J | 0.276243411 | 0.981237538 | -1.817101476 | 0.00111 |
| ENSG00000113924 | HGD | 5.435050249 | 19.23778825 | -1.818676816 | 2.38E-05 |
| ENSG00000163082 | SGPP2 | 3.857889339 | 13.65972966 | -1.819055056 | 2.64E-05 |
| ENSG00000258534 | AL132712.1 | 0.861555686 | 3.076503228 | -1.820633971 | 0.005308 |
| ENSG00000162620 | LRRIQ3 | 0.14788777 | 0.526384469 | -1.822753815 | 0.000404 |
| ENSG00000234327 | AC012146.1 | 0.62490704 | 2.231461713 | -1.827266501 | 0.000411 |
| ENSG00000197872 | FAM49A | 0.253105704 | 0.903807529 | -1.827670229 | 0.000353 |
| ENSG00000153786 | ZDHHC7 | 14.58838387 | 51.96468833 | -1.828057508 | 1.69E-05 |
| ENSG00000118873 | RAB3GAP2 | 2.468185461 | 8.797701754 | -1.828899944 | 1.92E-05 |
| ENSG00000178209 | PLEC | 5.157088473 | 18.41529177 | -1.831654759 | 1.58E-05 |
| ENSG00000145002 | FAM86B2 | 1.254175316 | 4.489419992 | -1.831969952 | 0.000229 |
| ENSG00000238018 | AC093110.1 | 0.777560977 | 2.788641093 | -1.832165515 | 0.000703 |
| ENSG00000249637 | AC008438.1 | 0.837231254 | 3.016822427 | -1.832647221 | 0.006069 |
| ENSG00000188522 | FAM83G | 2.318466478 | 8.292203522 | -1.833721116 | 2.04E-05 |
| ENSG00000137819 | PAQR5 | 1.899948998 | 6.796457303 | -1.833791862 | 2.41E-05 |
| ENSG00000139625 | MAP3K12 | 0.718179244 | 2.572012277 | -1.83494661 | 3.57E-05 |
| ENSG00000170017 | ALCAM | 9.452510382 | 33.85137054 | -1.835805323 | 1.54E-05 |
| ENSG00000134504 | KCTD1 | 2.121733651 | 7.599953605 | -1.83589285 | 1.93E-05 |
| ENSG00000263412 | AC004477.1 | 0.313426497 | 1.129379824 | -1.838688366 | 0.000728 |
| ENSG00000271576 | AL359504.2 | 0.574191079 | 2.069001265 | -1.838688366 | 0.000728 |
| ENSG00000272899 | ATP6V1FNB | 0.257009436 | 0.929219087 | -1.844052322 | 0.000524 |
| ENSG00000143570 | SLC39A1 | 0.43166788 | 1.55904616 | -1.844278584 | 0.000258 |
| ENSG00000170917 | NUDT6 | 0.583259213 | 2.105381248 | -1.845854894 | 5.11E-05 |
| ENSG00000266338 | NBPF15 | 1.992408413 | 7.187745931 | -1.845937771 | 2.26E-05 |
| ENSG00000131187 | F12 | 2.671009312 | 9.650987292 | -1.847974813 | 2.64E-05 |
| ENSG00000166349 | RAG1 | 0.122977014 | 0.446772043 | -1.850752198 | 0.000615 |
| ENSG00000070159 | PTPN3 | 7.366279563 | 26.75934504 | -1.856401307 | 1.24E-05 |
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| ENSG00000103021 | CCDC113 | 1.12800272 | 4.100957521 | -1.856790862 | 2.72E-05 |
| ENSG00000181722 | ZBTB20 | 0.111438357 | 0.405890507 | -1.858701576 | 4.91E-05 |
| ENSG00000248932 | AC097103.2 | 0.630723785 | 2.301500139 | -1.858727809 | 0.000291 |
| ENSG00000020577 | SAMD4A | 0.288412314 | 1.051951757 | -1.860701025 | 4.84E-05 |
| ENSG00000123146 | ADGRE5 | 3.454947155 | 12.61717875 | -1.863793352 | 1.46E-05 |
| ENSG00000149289 | ZC3H12C | 0.649202908 | 2.37195265 | -1.863882586 | 2.60E-05 |
| ENSG00000236397 | DDX11L2 | 0.269005048 | 0.992601417 | -1.864091578 | 0.008204 |
| ENSG00000133863 | TEX15 | 0.031698336 | 0.116963653 | -1.864091578 | 0.008204 |
| ENSG00000227036 | LINC00511 | 0.37085439 | 1.355622893 | -1.86492281 | 1.87E-05 |
| ENSG00000183255 | PTTG1IP | 62.76677972 | 229.4726965 | -1.865667042 | 1.08E-05 |
| ENSG00000108679 | LGALS3BP | 7.041967706 | 25.76627249 | -1.866652601 | 1.31E-05 |
| ENSG00000140400 | MAN2C1 | 0.932425285 | 3.412808577 | -1.866680018 | 2.01E-05 |
| ENSG00000086300 | SNX10 | 1.460946687 | 5.356814766 | -1.868815692 | 2.99E-05 |
| ENSG00000187653 | TMSB4XP8 | 110.808825 | 406.1838845 | -1.869125485 | 1.49E-05 |
| ENSG00000113645 | WWC1 | 5.109138084 | 18.7253433 | -1.869173611 | 1.13E-05 |
| ENSG00000268996 | MAN1B1-DT | 0.669638634 | 2.462928185 | -1.869860098 | 0.000296 |
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| ENSG00000163755 | HPS3 | 2.457967692 | 9.523611786 | -1.949110923 | 6.66E-06 |
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| ENSG00000283378 | CNTNAP3C | 1.063981385 | 4.144733515 | -1.95411229 | 5.39E-05 |
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| ENSG00000007255 | TRAPP6A | 12.58489996 | 49.32099612 | -1.965458233 | 6.39E-06 |
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| ENSG00000224287 | MSL3P1 | 0.128401297 | 0.510904816 | -1.968164901 | 0.008985 |
| ENSG0000019144 | PHLDB1 | 1.142646062 | 4.486203688 | -1.968326189 | 4.73E-06 |
| ENSG00000258701 | LINC00638 | 0.165946985 | 0.657758345 | -1.968478114 | 0.003605 |
| ENSG00000180447 | GAS1 | 0.192150994 | 0.760038859 | -1.96864816 | 0.001083 |
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| ENSG00000105991 | HOXA1 | 0.674755211 | 2.662162826 | -1.972224671 | 6.56E-05 |
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| ENSG00000114738 | MAPKAPK3 | 22.82694097 | 90.21121901 | -1.977947517 | 3.47E-06 |
| ENSG00000002834 | LASP1 | 24.03802591 | 95.02891916 | -1.978457052 | 3.36E-06 |
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| ENSG00000237149 | ZNF503-AS2 | 0.312018001 | 1.243420054 | -1.984498784 | 0.000168 |
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| ENSG00000270392 | PFN1P2 | 0.361583133 | 1.452562097 | -1.992953314 | 0.000471 |
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| ENSG00000115306 | SPTBN1 | 13.6597596 | 54.89191528 | -2.002081551 | 2.58E-06 |
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| ENSG00000102024 | PLS3 | 24.8735057 | 99.99900166 | -2.00268962 | 2.65E-06 |
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| ENSG00000115310 | RTN4 | 13.95573679 | 56.65458949 | -2.016714415 | 2.29E-06 |
| ENSG00000118515 | SGK1 | 0.225822092 | 0.918378703 | -2.016751108 | 2.14E-05 |
| ENSG00000114541 | FRMD4B | 1.501148486 | 6.096528469 | -2.016973768 | 3.27E-06 |
| ENSG00000169855 | ROBO1 | 0.941373373 | 3.823902556 | -2.017077581 | 3.97E-06 |
| ENSG00000159166 | LAD1 | 14.76051247 | 60.04840399 | -2.01971208 | 2.32E-06 |
| ENSG00000150867 | PIP4K2A | 4.196612684 | 17.08529537 | -2.020626397 | 2.77E-06 |
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| ENSG00000187595 | ZNF385C | 0.104503821 | 0.430580242 | -2.027396859 | 0.000604 |
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| ENSG00000150403 | TMCO3 | 4.55717177 | 19.21799067 | -2.071564862 | 1.33E-06 |
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| ENSG00000228436 | AL139260.1 | 0.342503695 | 1.467643343 | -2.077097053 | 0.003603 |
| ENSG00000261572 | AC097639.1 | 0.198873113 | 0.852180006 | -2.079041657 | 0.002551 |
| ENSG00000226419 | SLC16A1-AS1 | 0.037094995 | 0.158953678 | -2.079041657 | 0.002551 |
| ENSG00000140280 | LYSMD2 | 1.652076645 | 7.01447186 | -2.079763864 | 5.74E-06 |
| ENSG00000269843 | AC008537.2 | 0.866918066 | 3.714781905 | -2.080600404 | 0.001866 |
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| ENSG00000144815 | NXPE3 | 0.866195215 | 3.685764877 | -2.083848129 | 2.45E-06 |
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| ENSG00000231764 | DLX6-AS1 | 0.256244573 | 1.092636777 | -2.086268248 | 4.50E-06 |
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| ENSG00000175938 | ORAI3 | 0.837922395 | 3.590534187 | -2.092065512 | 1.09E-05 |
| ENSG00000119242 | CCDC92 | 1.051877454 | 4.501897344 | -2.092320969 | 1.99E-06 |
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| ENSG00000173559 | NABP1 | 0.998783047 | 4.292798311 | -2.098685648 | 1.41E-06 |
| ENSG00000073670 | ADAM11 | 0.297841787 | 1.285649415 | -2.10112706 | 3.18E-05 |
| ENSG00000270194 | AC097359.2 | 0.542213886 | 2.342147445 | -2.101739859 | 3.76E-05 |
| ENSG00000133466 | C1QTNF6 | 0.590834457 | 2.550551678 | -2.104012062 | 3.79E-06 |
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| ENSG00000238278 | ALG1L6P | 2.811422149 | 12.16517563 | -2.106027172 | 9.95E-06 |
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| ENSG00000224358 | AL451074.2 | 0.17491584 | 0.770342099 | -2.11843951 | 0.002025 |
| ENSG00000175084 | DES | 0.152625429 | 0.672173503 | -2.11843951 | 0.002025 |
| ENSG00000134107 | BHLHE40 | 3.964009402 | 17.27760845 | -2.118920477 | 1.09E-06 |
| ENSG00000274512 | TBC1D3L | 0.427520181 | 1.871767555 | -2.119558755 | 6.76E-05 |
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| ENSG00000138674 | SEC31A | 2.714112384 | 11.84546256 | -2.120983784 | 9.12E-07 |
| ENSG00000229847 | EMX2OS | 1.131768215 | 4.940988303 | -2.12106414 | 1.33E-06 |
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| ENSG00000141068 | KSR1 | 0.236754484 | 1.036557759 | -2.123701442 | 5.52E-06 |
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| ENSG00000197956 | S100A6 | 79.61182688 | 350.7750721 | -2.134856869 | 6.32E-07 |
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| ENSG00000255471 | AP001528.2 | 0.171533049 | 0.771777965 | -2.136645554 | 0.009733 |
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| ENSG00000115423 | DNAH6 | 0.037104145 | 0.165617589 | -2.141692347 | 0.000339 |
| ENSG00000173156 | RHOD | 21.96626463 | 97.4172923 | -2.144114691 | 6.74E-07 |
| ENSG00000103355 | PRSS33 | 0.356126001 | 1.589599501 | -2.145659738 | 0.000114 |
| ENSG00000182957 | SPATA13 | 1.020694063 | 4.544707799 | -2.149486499 | 9.75E-07 |
| ENSG00000243926 | TIPARP-AS1 | 0.333217311 | 1.499243319 | -2.150782703 | 0.001209 |
| ENSG00000144455 | SUMF1 | 2.458321254 | 10.95898066 | -2.15145847 | 7.38E-07 |
| ENSG00000262001 | DLGAP1-AS2 | 1.423156317 | 6.366498898 | -2.155512264 | 1.79E-06 |
| ENSG00000238098 | ABCA17P | 0.057205515 | 0.25874637 | -2.156790005 | 0.001609 |
| ENSG00000198108 | CHSY3 | 0.732147309 | 3.285053897 | -2.159060797 | 3.90E-06 |
| ENSG00000241935 | HOGA1 | 0.634639199 | 2.848954725 | -2.159574314 | 4.23E-06 |
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| ENSG00000246089 | AC016065.1 | 0.783299179 | 3.524294878 | -2.162514694 | 5.32E-06 |
| ENSG00000230454 | U73166.1 | 0.127346136 | 0.579789008 | -2.164240447 | 0.002205 |
| ENSG00000178623 | GPR35 | 0.853937292 | 3.843875869 | -2.16441203 | 1.71E-06 |
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| ENSG00000158023 | WDR66 | 0.098532245 | 0.44443683 | -2.164950119 | 1.34E-05 |
| ENSG00000013588 | GPRC5A | 1.292180409 | 5.823448805 | -2.166954763 | 7.50E-07 |
| ENSG00000188643 | S100A16 | 55.09980367 | 248.2366428 | -2.166975531 | 4.35E-07 |
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| ENSG00000283959 | AP002851.1 | 0.137323078 | 0.630466506 | -2.173725198 | 0.003128 |
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| ENSG00000176472 | ZNF575 | 0.09078155 | 0.416788845 | -2.173725198 | 0.003128 |
| ENSG00000118557 | PMFBP1 | 0.080766115 | 0.369683137 | -2.176782655 | 0.000759 |
| ENSG00000114529 | C3orf52 | 0.63847558 | 2.899454836 | -2.176945431 | 1.89E-06 |
| ENSG00000169379 | ARL13B | 3.289321714 | 14.96773626 | -2.180993174 | 5.73E-07 |
| ENSG00000213204 | AL049697.1 | 0.118372382 | 0.545273157 | -2.184633733 | 0.000974 |
| ENSG00000155749 | ALS2CR12 | 0.158578561 | 0.730479789 | -2.184633733 | 0.000974 |
| ENSG00000121769 | FABP3 | 3.217398255 | 14.70289678 | -2.185738772 | 2.04E-06 |
| ENSG00000282034 | AC106886.5 | 0.021443098 | 0.099541667 | -2.186209504 | 0.004621 |
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| ENSG00000273143 | AL355512.1 | 0.399224052 | 1.853250272 | -2.186209504 | 0.004621 |
| ENSG00000146966 | DENND2A | 0.048700992 | 0.226076374 | -2.186209504 | 0.004621 |
| ENSG00000170190 | SLC16A5 | 4.842729483 | 22.14245722 | -2.187960048 | 5.07E-07 |
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| ENSG00000272240 | AC004908.1 | 0.695136889 | 3.226916371 | -2.194147388 | 0.00128 |
| ENSG00000138639 | ARHGAP24 | 0.285333124 | 1.313232713 | -2.195153042 | 3.72E-06 |
| ENSG00000104327 | CALB1 | 0.152202538 | 0.702363359 | -2.196078693 | 2.39E-05 |
| ENSG0000036672 | USP2 | 0.174950102 | 0.808853239 | -2.196733156 | 5.68E-05 |
| ENSG00000185033 | SEMA4B | 16.47918933 | 75.85323778 | -2.197955843 | 3.03E-07 |
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| ENSG00000161642 | ZNF385A | 0.722931674 | 3.337168891 | -2.199489796 | 3.49E-06 |
| ENSG00000243224 | AC006252.1 | 0.56928407 | 2.642691124 | -2.200547104 | 0.00012 |
| ENSG00000107679 | PLEKHA1 | 2.832616649 | 13.06353097 | -2.200691068 | 3.03E-07 |
| ENSG00000072657 | TRHDE | 1.877722766 | 8.66419256 | -2.201252904 | 3.75E-07 |
| ENSG00000225329 | LHFPL3-AS2 | 0.721348834 | 3.336030563 | -2.201255935 | 5.77E-06 |
| ENSG00000107338 | SHB | 2.94284885 | 13.59138989 | -2.202107137 | 6.05E-07 |
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| ENSG00000150281 | CTF1 | 0.853789258 | 3.954434452 | -2.202680789 | 1.17E-05 |
| ENSG00000279822 | AC016397.2 | 0.105253025 | 0.496115206 | -2.203384336 | 0.007168 |
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| ENSG00000182648 | LINC01006 | 0.274072079 | 1.276042579 | -2.208888966 | 2.13E-05 |
| ENSG00000174827 | PDZK1 | 1.280521878 | 5.956383164 | -2.211227503 | 1.62E-06 |
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| ENSG00000260563 | AC132872.1 | 0.454569757 | 2.13514473 | -2.216003261 | 0.00016 |
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| ENSG00000162989 | KCNJ3 | 0.082465859 | 0.388706802 | -2.217708666 | 0.000786 |
| ENSG00000163297 | ANTXR2 | 0.182154743 | 0.853149526 | -2.219679515 | 4.51E-06 |
| ENSG00000139174 | PRICKLE1 | 1.869629117 | 8.744196614 | -2.220620393 | 3.55E-07 |
| ENSG00000257176 | AC009318.1 | 0.103980859 | 0.49330138 | -2.220844108 | 0.00241 |
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| ENSG00000229320 | KRT8P12 | 1.020650971 | 4.789019887 | -2.22275977 | 3.32E-06 |
| ENSG00000242574 | HLA-DMB | 0.34110572 | 1.605895031 | -2.226680657 | 7.55E-06 |
| ENSG00000196196 | HRCT1 | 0.747739645 | 3.533930681 | -2.227517677 | 6.90E-05 |
| ENSG00000125753 | VASP | 12.62498484 | 59.39411184 | -2.22934665 | 2.28E-07 |
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| ENSG00000225434 | LINC01504 | 0.849988827 | 4.024674513 | -2.235868066 | 2.92E-06 |
| ENSG00000250510 | GPR162 | 0.29167386 | 1.385686932 | -2.237249895 | 2.50E-05 |
| ENSG00000271966 | AC021321.1 | 0.225258495 | 1.085897837 | -2.24040996 | 0.00349 |
| ENSG00000162148 | PPP1R32 | 0.104463627 | 0.503585122 | -2.24040996 | 0.00349 |
| ENSG00000039560 | RAI14 | 6.338211992 | 30.1410068 | -2.244896825 | 1.89E-07 |
| ENSG00000146250 | PRSS35 | 0.137001478 | 0.660439504 | -2.246418594 | 0.001356 |
| ENSG00000117318 | ID3 | 9.208146077 | 43.9660046 | -2.250477427 | 2.42E-07 |
| ENSG00000257702 | LBX2-AS1 | 0.461163804 | 2.212380788 | -2.251308498 | 2.22E-05 |
| ENSG00000011028 | MRC2 | 0.25582929 | 1.22674445 | -2.253524027 | 3.37E-06 |
| ENSG00000172602 | RND1 | 0.147131869 | 0.70927482 | -2.254200812 | 9.69E-05 |
| ENSG00000012171 | SEMA3B | 3.535246181 | 16.94138267 | -2.255810381 | 2.10E-07 |
| ENSG00000157429 | ZNF19 | 0.081532587 | 0.393042046 | -2.256519054 | 4.01E-05 |
| ENSG00000095397 | WHRN | 0.557943586 | 2.681587241 | -2.258349562 | 1.02E-06 |
| ENSG00000137393 | RNF144B | 2.7937712 | 13.41596177 | -2.25868201 | 2.41E-07 |
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| ENSG00000076067 | RBMS2 | 4.625433071 | 22.21893383 | -2.259421182 | 1.63E-07 |
| ENSG00000237489 | C10orf143 | 0.09225519 | 0.448026537 | -2.265523965 | 7.26E-05 |
| ENSG00000274419 | TBC1D3D | 0.296210662 | 1.438512426 | -2.265523965 | 7.26E-05 |
| ENSG00000262877 | AC110285.2 | 0.133499843 | 0.657860578 | -2.267171819 | 0.005286 |
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| ENSG00000100504 | PYGL | 12.87179996 | 62.25600518 | -2.269342389 | 1.39E-07 |
| ENSG00000107104 | KANK1 | 1.466771785 | 7.097142615 | -2.269683805 | 1.88E-07 |
| ENSG00000230487 | PSMG3-AS1 | 0.170955424 | 0.831164184 | -2.271287719 | 1.23E-05 |
| ENSG00000071282 | LMCD1 | 0.663624355 | 3.226082612 | -2.275768803 | 3.57E-07 |
| ENSG00000089723 | OTUB2 | 1.513395912 | 7.369281602 | -2.278217794 | 3.40E-07 |
| ENSG00000274712 | AC005332.4 | 0.4376531 | 2.143271675 | -2.280371589 | 2.18E-05 |

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| ENSG00000104901 | DKKL1 | 0.286005823 | 1.40937961 | -2.281667116 | 0.000513 |
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| ENSG00000248383 | PCDHAC1 | 0.114348778 | 0.560909061 | -2.282002579 | 2.80E-05 |
| ENSG00000223396 | RPS10P7 | 0.332289867 | 1.63152532 | -2.28499508 | 1.48E-05 |
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| ENSG00000162976 | PQLC3 | 1.744886955 | 8.559102441 | -2.288210649 | 5.65E-07 |
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| ENSG00000272031 | ANKRD34A | 0.159096087 | 0.791298049 | -2.299203677 | 6.83E-05 |
| ENSG00000172927 | MYEOV | 7.434698552 | 36.71528408 | -2.299255851 | 1.16E-07 |
| ENSG00000109099 | PMP22 | 0.62250206 | 3.084237454 | -2.301116703 | 1.61E-06 |
| ENSG00000275395 | FCGBP | 0.206331984 | 1.02228872 | -2.301888191 | 9.46E-07 |
| ENSG00000120896 | SORBS3 | 1.679093888 | 8.310948673 | -2.302167373 | 1.74E-07 |
| ENSG00000176927 | EFCAB5 | 0.102533583 | 0.510433983 | -2.30236217 | 3.74E-05 |
| ENSG00000171798 | KNDC1 | 0.088960885 | 0.442866203 | -2.30236217 | 3.74E-05 |
| ENSG00000143333 | RGS16 | 0.568158169 | 2.821902621 | -2.30325315 | 4.85E-06 |
| ENSG00000235052 | AL021154.1 | 0.366539042 | 1.865130082 | -2.306002759 | 0.008459 |
| ENSG00000227755 | AP000344.1 | 0.210241262 | 1.069810462 | -2.306002759 | 0.008459 |
| ENSG00000174483 | BBS1 | 0.027199642 | 0.138405096 | -2.306002759 | 0.008459 |
| ENSG00000122735 | DNAI1 | 0.04623563 | 0.235269521 | -2.306002759 | 0.008459 |
| ENSG00000249307 | LINC01088 | 0.041837748 | 0.212890943 | -2.306002759 | 0.008459 |
| ENSG00000213904 | LIPE-AS1 | 0.03972001 | 0.202114857 | -2.306002759 | 0.008459 |
| ENSG00000002079 | MYH16 | 0.026500999 | 0.134850058 | -2.306002759 | 0.008459 |
| ENSG00000285219 | AL591485.1 | 0.015542292 | 0.0776993 | -2.308909683 | 2.59E-05 |
| ENSG00000125257 | ABCC4 | 3.56640153 | 17.7549152 | -2.310918718 | 9.92E-08 |
| ENSG00000261068 | AL512274.1 | 0.206144306 | 1.037921427 | -2.312613547 | 0.000416 |
| ENSG00000111145 | ELK3 | 4.962471777 | 24.79884661 | -2.316315642 | 1.01E-07 |
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| ENSG00000188064 | WNT7B | 1.058906691 | 5.30847556 | -2.320001977 | 2.64E-07 |
| ENSG00000138119 | MYOF | 7.002872663 | 35.0846091 | -2.320157702 | 7.68E-08 |
| ENSG00000245937 | LINC01184 | 1.279938003 | 6.426388796 | -2.322624959 | 1.55E-07 |
| ENSG00000246465 | AC138904.1 | 0.134737447 | 0.68561009 | -2.324166941 | 0.000838 |
| ENSG00000135437 | RDH5 | 0.112062892 | 0.570230853 | -2.324166941 | 0.000838 |
| ENSG00000114626 | ABTB1 | 1.148437336 | 5.77283391 | -2.324168889 | 1.77E-07 |
| ENSG00000242950 | ERVW-1 | 0.034082749 | 0.17525529 | -2.328258009 | 0.003905 |
| ENSG00000226608 | FTLP3 | 0.395695556 | 2.034687362 | -2.328258009 | 0.003905 |
| ENSG00000196611 | MMP1 | 0.106054444 | 0.545337526 | -2.328258009 | 0.003905 |
| ENSG00000170214 | ADRA1B | 0.248815486 | 1.266095002 | -2.333379344 | 3.46E-05 |
| ENSG00000272092 | AC087623.2 | 0.342503695 | 1.753018437 | -2.334595129 | 0.000519 |
| ENSG0000006468 | ETV1 | 1.147187916 | 5.809523316 | -2.335195535 | 1.12E-07 |
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| ENSG00000170927 | PKHD1 | 0.045486626 | 0.233381695 | -2.34676572 | 1.61E-05 |
| ENSG00000148498 | PARD3 | 7.198414824 | 36.74933412 | -2.347276656 | 5.71E-08 |
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| ENSG00000189060 | H1F0 | 60.61029547 | 310.1144785 | -2.350565134 | 5.07E-08 |
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| ENSG00000246898 | LINC00920 | 0.155698 | 0.813116794 | -2.361524325 | 0.00066 |
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| ENSG00000250917 | AL035458.2 | 0.349669044 | 1.872933973 | -2.379547179 | 0.006073 |
| ENSG00000214146 | LINC02026 | 0.071581072 | 0.383410038 | -2.379547179 | 0.006073 |
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| ENSG00000088367 | EPB41L1 | 2.863733084 | 14.99661756 | -2.383884188 | 4.26E-08 |
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| ENSG00000227110 | LMCD1-AS1 | 0.032351696 | 0.173285545 | -2.386862431 | 0.00289 |
| ENSG00000156345 | CDK20 | 0.539920265 | 2.837264409 | -2.38709102 | 2.50E-07 |
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| ENSG00000186765 | FSCN2 | 0.227657235 | 1.219401539 | -2.403015019 | 0.000127 |
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| ENSG00000179715 | PCED1B | 0.255373267 | 1.384955263 | -2.425160387 | 1.59E-05 |
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| ENSG00000182013 | PNMA8A | 0.768779938 | 4.166264598 | -2.431325407 | 2.16E-07 |
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| ENSG00000283491 | AC017104.5 | 0.523135534 | 2.872125196 | -2.433456611 | 0.000412 |
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| ENSG00000139985 | ADAM21 | 0.062882544 | 0.353658977 | -2.449523664 | 0.004369 |
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| ENSG00000267519 | AC020916.1 | 0.144776091 | 0.803663589 | -2.465902011 | 1.54E-07 |
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| ENSG00000229155 | LINC02038 | 0.764368002 | 4.276151895 | -2.47096052 | 6.32E-06 |
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| ENSG00000109339 | MAPK10 | 0.018616601 | 0.104964409 | -2.482654988 | 4.79E-06 |
| ENSG00000134215 | VAV3 | 1.218335244 | 6.852063642 | -2.486348852 | 2.24E-08 |
| ENSG00000227097 | RPS28P7 | 326.7224293 | 1840.616943 | -2.489401852 | 9.84E-09 |
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| ENSG00000115525 | ST3GAL5 | 0.092185086 | 0.523946335 | -2.498005201 | 5.39E-07 |
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| ENSG00000122786 | CALD1 | 1.710813437 | 9.72300668 | -2.501782616 | 1.26E-08 |
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| ENSG0000002587 | HS3ST1 | 0.138159095 | 0.789357037 | -2.504119291 | 1.12E-06 |
| ENSG00000171729 | TMEM51 | 3.059291931 | 17.44562744 | -2.506103381 | 2.12E-08 |
| ENSG00000117519 | CNN3 | 9.864782244 | 56.27724424 | -2.50740656 | 9.60E-09 |
| ENSG00000153956 | CACNA2D1 | 0.593622386 | 3.403189627 | -2.513513412 | 2.81E-08 |
| ENSG00000275180 | AC048341.2 | 1.531849519 | 8.843223687 | -2.516227196 | 4.19E-06 |
| ENSG00000131969 | ABHD12B | 0.037610667 | 0.221599614 | -2.516262446 | 0.003149 |
| ENSG00000271870 | AC024060.1 | 0.338343731 | 1.993499359 | -2.516262446 | 0.003149 |
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| ENSG00000135862 | LAMC1 | 57.23006122 | 329.051015 | -2.518895932 | 6.36E-09 |
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| ENSG00000174600 | CMKLR1 | 0.073436645 | 0.432683956 | -2.538845912 | 6.54E-05 |
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| ENSG00000087903 | RFX2 | 0.192983168 | 1.137044334 | -2.55051162 | 1.51E-07 |
| ENSG00000237523 | LINC00857 | 0.885366529 | 5.216522274 | -2.55083049 | 1.20E-07 |
| ENSG00000231856 | AL162377.1 | 0.118468269 | 0.7070724 | -2.550899918 | 0.000315 |
| ENSG00000147234 | FRMPD3 | 0.031939087 | 0.190626966 | -2.550899918 | 0.000315 |
| ENSG00000239445 | ST3GAL6-AS1 | 0.346972901 | 2.070891763 | -2.550899918 | 0.000315 |
| ENSG00000130475 | FCHO1 | 1.005375264 | 5.919675244 | -2.552099715 | 1.50E-08 |
| ENSG00000173334 | TRIB1 | 2.241752071 | 13.22989322 | -2.555849709 | 9.50E-09 |
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| ENSG00000168071 | CCDC88B | 0.16551673 | 0.988646554 | -2.56923534 | 3.18E-07 |
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| ENSG00000146648 | EGFR | 1.962290955 | 11.71899319 | -2.573417304 | 4.47E-09 |
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| ENSG00000081052 | COL4A4 | 0.352497352 | 2.114653241 | -2.578356639 | 2.31E-08 |
| ENSG00000261118 | AC092123.1 | 0.159944309 | 0.985217038 | -2.580049929 | 0.002276 |
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| ENSG00000172086 | KRCC1 | 4.9818364 | 30.00380394 | -2.585096467 | 6.80E-09 |

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| ENSG00000123352 | SPATS2 | 3.842550954 | 23.23232207 | -2.591193179 | 3.44E-09 |
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| ENSG00000222020 | AC062017.1 | 0.340827494 | 2.117668086 | -2.60002925 | 0.000884 |
| ENSG00000280213 | UCKL1-AS1 | 0.058003124 | 0.360391598 | -2.60002925 | 0.000884 |
| ENSG00000162545 | CAMK2N1 | 3.946847548 | 24.03343145 | -2.601083364 | 4.94E-09 |
| ENSG00000180769 | WDFY3-AS2 | 0.357025454 | 2.17934271 | -2.602304733 | 4.83E-08 |
| ENSG00000163995 | ABLIM2 | 0.103617418 | 0.636407421 | -2.60378988 | 3.51E-06 |
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| ENSG00000230513 | THAP7-AS1 | 0.266865064 | 1.640060603 | -2.606839276 | 1.50E-06 |
| ENSG00000103723 | AP3B2 | 0.041289971 | 0.255564596 | -2.608069855 | 5.93E-05 |
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| ENSG00000256043 | CTSO | 0.579960556 | 3.561047279 | -2.60992427 | 7.76E-08 |
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| ENSG00000104998 | IL27RA | 0.648930025 | 4.004803281 | -2.617654262 | 5.44E-08 |
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| ENSG00000243232 | PCDHAC2 | 0.291003456 | 1.799593697 | -2.620465705 | 6.07E-08 |
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| ENSG00000273117 | AC144652.1 | 0.180109702 | 1.130103449 | -2.622832204 | 0.000193 |
| ENSG00000070087 | PFN2 | 14.42043057 | 89.16418039 | -2.623671189 | 1.88E-09 |
| ENSG00000166963 | MAP1A | 0.117938049 | 0.732786078 | -2.62561274 | 2.26E-07 |
| ENSG00000235162 | C12orf75 | 28.70519269 | 177.955434 | -2.627491028 | 1.73E-09 |
| ENSG00000233184 | AC093157.1 | 0.529674728 | 3.294187496 | -2.627856906 | 1.28E-07 |
| ENSG00000181513 | ACBD4 | 1.029143782 | 6.389651149 | -2.628057867 | 1.15E-08 |
| ENSG00000260498 | AC126696.3 | 0.156304679 | 1.004658598 | -2.62858614 | 0.004849 |
| ENSG00000204936 | CD177 | 0.050122492 | 0.322165612 | -2.62858614 | 0.004849 |
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| ENSG00000257108 | NHLRC4 | 0.059551711 | 0.382772539 | -2.62858614 | 0.004849 |
| ENSG00000264745 | TTC39C-AS1 | 0.153434948 | 0.986213213 | -2.62858614 | 0.004849 |
| ENSG00000261341 | AC010325.1 | 0.40178318 | 2.528685976 | -2.62995188 | 0.000103 |
| ENSG00000140297 | GCNT3 | 0.516268117 | 3.214648913 | -2.63196055 | 1.36E-08 |
| ENSG0000064393 | HIPK2 | 6.098798423 | 38.02046237 | -2.63555269 | 1.54E-09 |
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| ENSG00000261575 | AC005829.1 | 0.247984871 | 1.593939061 | -2.641136119 | 0.001649 |
| ENSG00000140416 | TPM1 | 3.560006173 | 22.30855496 | -2.642945891 | 1.50E-09 |
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| ENSG00000242808 | SOX2-OT | 0.00660556 | 0.04245767 | -2.648739189 | 0.000661 |
| ENSG00000204525 | HLA-C | 0.100005068 | 0.642789147 | -2.65383879 | 0.000301 |
| ENSG00000175573 | C11orf68 | 11.38956068 | 71.96161174 | -2.654632095 | 1.71E-09 |
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| ENSG00000170915 | PAQR8 | 1.041124539 | 6.629934417 | -2.665050392 | 4.59E-09 |
| ENSG00000108785 | HSD17B1P1 | 0.481298386 | 3.093577015 | -2.665521952 | 7.80E-06 |
| ENSG00000171877 | FRMD5 | 0.10645177 | 0.684225752 | -2.670509599 | 1.20E-06 |
| ENSG0000067057 | PFKP | 14.49875649 | 92.70113036 | -2.672007252 | 9.88E-10 |
| ENSG00000100994 | PYGB | 15.43838849 | 98.80103473 | -2.673352043 | 9.72E-10 |
| ENSG00000125037 | EMC3 | 2.828101937 | 18.11491212 | -2.674171439 | 1.72E-09 |
| ENSG00000089091 | DZANK1 | 0.498723464 | 3.198815031 | -2.674681598 | 8.36E-09 |
| ENSG00000151883 | PARP8 | 0.486167237 | 3.120420495 | -2.676316675 | 4.31E-09 |
| ENSG00000106804 | C5 | 0.754734913 | 4.844256425 | -2.676345481 | 4.29E-09 |
| ENSG00000153714 | LURAP1L | 1.195549951 | 7.705471745 | -2.681076955 | 1.47E-08 |
| ENSG00000078018 | MAP2 | 0.079529364 | 0.515052792 | -2.683473183 | 3.82E-07 |
| ENSG00000245248 | USP2-AS1 | 0.157945845 | 1.02460737 | -2.684300954 | 8.54E-07 |
| ENSG00000276529 | AP001505.1 | 1.414857249 | 9.195133405 | -2.685208484 | 1.66E-06 |
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| ENSG00000261079 | AC009053.2 | 0.088341334 | 0.586747053 | -2.6958581 | 0.000495 |
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| ENSG00000283674 | AC068587.4 | 0.012007313 | 0.080393538 | -2.699740541 | 0.001197 |
| ENSG00000156299 | TIAM1 | 0.17229244 | 1.126849424 | -2.700664926 | 5.12E-08 |
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| ENSG00000162006 | MSLNL | 0.05320728 | 0.360992919 | -2.706081974 | 0.003385 |
| ENSG00000148942 | SLC5A12 | 0.016616696 | 0.11273851 | -2.706081974 | 0.003385 |
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| ENSG00000251396 | LINC01301 | 0.09436642 | 0.62676458 | -2.711325209 | 1.66E-05 |
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| ENSG00000043143 | JADE2 | 3.270239287 | 21.63150563 | -2.720904657 | 6.35E-10 |
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| ENSG00000243024 | AC012158.1 | 0.097720886 | 0.669981245 | -2.741486638 | 0.000372 |
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| ENSG00000272711 | AC019069.1 | 1.347917766 | 9.13396037 | -2.752267149 | 1.37E-08 |
| ENSG00000172915 | NBEA | 0.276261663 | 1.873090717 | -2.754749602 | 3.14E-09 |
| ENSG00000137834 | SMAD6 | 1.146745408 | 7.768071848 | -2.754779489 | 7.29E-10 |
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| ENSG00000163637 | PRICKLE2 | 0.051002788 | 0.34907161 | -2.761523284 | 3.51E-07 |
| ENSG00000155970 | MICU3 | 0.517101757 | 3.527792721 | -2.762905194 | 6.30E-09 |
| ENSG00000091844 | RGS17 | 0.174568917 | 1.195723349 | -2.76665135 | 3.56E-08 |
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| ENSG00000140876 | NUDT7 | 0.204080346 | 1.421051491 | -2.775446791 | 2.74E-05 |
| ENSG00000224468 | LAMC1-AS1 | 1.74469523 | 12.05520404 | -2.776120716 | 2.07E-07 |
| ENSG00000142046 | TMEM91 | 0.149447249 | 1.040630518 | -2.77936712 | 9.41E-06 |
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| ENSG00000263105 | AC009171.2 | 0.394202366 | 2.815290689 | -2.779626394 | 0.00237 |
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| ENSG00000254554 | AC080023.1 | 0.156110028 | 1.114897185 | -2.779626394 | 0.00237 |
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| ENSG00000146049 | KAAG1 | 0.090706478 | 0.647802054 | -2.779626394 | 0.00237 |
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| ENSG00000177822 | AC098864.1 | 0.052692876 | 0.370942823 | -2.788381042 | 5.82E-05 |
| ENSG00000145777 | TSLP | 0.068308771 | 0.480874267 | -2.788381042 | 5.82E-05 |
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| ENSG00000267750 | RUNDC3A-AS1 | 0.177876248 | 1.242729649 | -2.793096598 | 9.57E-08 |
| ENSG00000240891 | PLCXD2 | 0.433033978 | 3.017794605 | -2.794672443 | 1.50E-09 |
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| ENSG00000227992 | AC108463.1 | 1.445029997 | 10.19102777 | -2.800338899 | 1.64E-06 |
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| ENSG00000256967 | AC018653.3 | 0.141765736 | 1.025109663 | -2.810257458 | 0.000637 |
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| ENSG0000027869 | SH2D2A | 0.066537342 | 0.481132282 | -2.810257458 | 0.000637 |
| ENSG00000132141 | CCT6B | 0.241032826 | 1.70417977 | -2.810844639 | 6.00E-08 |
| ENSG00000148814 | LRRC27 | 0.215041169 | 1.5177002 | -2.811516637 | 4.51E-09 |
| ENSG00000133315 | MACROD1 | 10.48136726 | 73.99093352 | -2.814659751 | 2.14E-10 |
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| ENSG00000172965 | MIR4435-2HG | 0.689297187 | 4.881757917 | -2.818905886 | 3.55E-10 |
| ENSG00000162746 | FCRLB | 0.112846511 | 0.81167698 | -2.819327473 | 4.60E-05 |
| ENSG00000115290 | GRB14 | 2.04830641 | 14.55785102 | -2.823634362 | 4.96E-10 |
| ENSG00000223891 | OSER1-DT | 1.051326529 | 7.494648965 | -2.826187107 | 3.18E-09 |
| ENSG00000285872 | AC007240.2 | 0.111166609 | 0.81343995 | -2.828630031 | 0.000211 |
| ENSG00000018408 | WWTR1 | 2.150612169 | 15.33960307 | -2.829515345 | 1.92E-10 |
| ENSG00000167377 | ZNF23 | 0.063094023 | 0.454697464 | -2.830295997 | 1.82E-06 |
| ENSG00000160460 | SPTBN4 | 0.06150772 | 0.441856083 | -2.830794476 | 2.18E-07 |
| ENSG00000120913 | PDLIM2 | 0.394647864 | 2.822085748 | -2.832199296 | 6.07E-10 |
| ENSG00000119681 | LTBP2 | 0.239010388 | 1.713515174 | -2.834180497 | 3.34E-09 |
| ENSG00000148516 | ZEB1 | 0.618328057 | 4.42973785 | -2.834969363 | 5.45E-10 |
| ENSG00000163362 | INAVA | 1.24283347 | 8.906314863 | -2.835644214 | 3.95E-10 |
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| ENSG00000196275 | GTF2IRD2 | 0.03321138 | 0.243116704 | -2.840876807 | 8.24E-05 |
| ENSG00000135424 | ITGA7 | 0.327831875 | 2.374067978 | -2.848571876 | 3.02E-09 |
| ENSG00000183098 | GPC6 | 0.019381007 | 0.145334812 | -2.849602879 | 0.001665 |
| ENSG00000223685 | LINC00571 | 0.105964795 | 0.794611632 | -2.849602879 | 0.001665 |
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| ENSG00000172901 | LVRN | 0.018890348 | 0.141655449 | -2.849602879 | 0.001665 |
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| ENSG00000103044 | HAS3 | 2.765155562 | 20.04142046 | -2.852536874 | 1.53E-10 |
| ENSG00000118263 | KLF7 | 0.054137919 | 0.396304902 | -2.854029503 | 8.41E-07 |
| ENSG00000181264 | TMEM136 | 0.439551519 | 3.205953229 | -2.858679746 | 3.18E-09 |
| ENSG00000106327 | TFR2 | 0.032999369 | 0.247456548 | -2.862495178 | 0.000466 |
| ENSG00000107281 | NPDC1 | 1.847292489 | 13.49272036 | -2.86281301 | 4.02E-10 |
| ENSG00000226711 | FAM66C | 0.044824556 | 0.336131574 | -2.87030415 | 0.00016 |
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| ENSG00000138079 | SLC3A1 | 0.038329415 | 0.287425642 | -2.875541232 | 6.40E-05 |
| ENSG00000254614 | AP003068.2 | 0.326631106 | 2.424356689 | -2.875864854 | 3.52E-07 |
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| ENSG00000171236 | LRG1 | 0.13337201 | 1.00013359 | -2.886091 | 3.73E-06 |
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| ENSG00000135046 | ANXA1 | 28.9685585 | 215.1201206 | -2.887974792 | 5.59E-11 |
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| ENSG00000228262 | LINC01320 | 0.089417425 | 0.670525778 | -2.889766579 | 4.23E-07 |
| ENSG00000132793 | LPIN3 | 2.067318711 | 15.4142712 | -2.893163991 | 1.22E-10 |
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| ENSG00000139508 | SLC46A3 | 0.652897668 | 4.931530386 | -2.909815464 | 9.58E-10 |
| ENSG00000140682 | TGFB1I1 | 0.409888745 | 3.098539258 | -2.91068331 | 1.24E-09 |
| ENSG00000213654 | GPSM3 | 0.112689997 | 0.869186834 | -2.910808178 | 0.000121 |
| ENSG00000171847 | FAM90A1 | 0.065855714 | 0.511477753 | -2.912907359 | 0.000342 |
| ENSG00000166415 | WDR72 | 0.175487194 | 1.331614104 | -2.914700747 | 4.93E-09 |
| ENSG00000006534 | ALDH3B1 | 1.412608055 | 10.69423816 | -2.915122562 | 9.89E-11 |
| ENSG00000283828 | AL137002.2 | 0.056012669 | 0.44003069 | -2.916341662 | 0.001174 |
| ENSG00000240889 | NDUFB2-AS1 | 0.076065748 | 0.597565949 | -2.916341662 | 0.001174 |
| ENSG00000084764 | MAPRE3 | 0.195689439 | 1.492104065 | -2.91667928 | 9.06E-08 |
| ENSG00000143786 | CNIH3 | 0.163582253 | 1.247703681 | -2.920178708 | 1.66E-08 |
| ENSG00000250770 | AC005865.2 | 0.013972731 | 0.112263305 | -2.922978807 | 0.007865 |
| ENSG00000269961 | AC010359.1 | 0.164834125 | 1.324352721 | -2.922978807 | 0.007865 |
| ENSG00000266983 | AC011444.1 | 0.130783883 | 1.050777511 | -2.922978807 | 0.007865 |
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| ENSG00000141012 | GALNS | 0.5420869 | 4.150258511 | -2.930564338 | 1.84E-10 |
| ENSG00000273032 | DGCR9 | 0.059559795 | 0.464858322 | -2.936873623 | 1.46E-05 |
| ENSG00000160867 | FGFR4 | 4.473613179 | 34.38111811 | -2.937233918 | 4.22E-11 |
| ENSG00000159433 | STARD9 | 0.106955901 | 0.825824041 | -2.941207915 | 8.58E-10 |
| ENSG00000151413 | NUBPL | 0.511995642 | 3.963217122 | -2.946169796 | 2.20E-10 |
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| ENSG0000021488 | SLC7A9 | 0.12871914 | 1.034188417 | -2.981451414 | 5.08E-06 |
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| ENSG00000162909 | CAPN2 | 5.565373389 | 44.46782384 | -2.993515407 | 1.45E-11 |
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| ENSG00000102265 | TIMP1 | 7.34838232 | 58.79335422 | -2.994996605 | 2.82E-11 |
| ENSG00000116183 | PAPPA2 | 0.064991095 | 0.524215884 | -2.997737289 | 3.87E-08 |
| ENSG00000166589 | CDH16 | 1.600099318 | 12.88041693 | -3.003224997 | 4.90E-11 |
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| ENSG00000112186 | CAP2 | 1.585480397 | 12.77539747 | -3.004638268 | 4.91E-11 |
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| ENSG00000152661 | GJA1 | 1.714023764 | 14.15159935 | -3.039781008 | 3.01E-11 |
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| ENSG00000231721 | LINC-PINT | 0.032391822 | 0.282557913 | -3.096979108 | 3.90E-06 |
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| ENSG00000166035 | LIPC | 0.040302325 | 0.354029321 | -3.097846196 | 3.15E-05 |
| ENSG00000266313 | AC026254.2 | 0.184076876 | 1.676152144 | -3.102193375 | 0.003515 |
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| ENSG00000183242 | WT1-AS | 0.015028035 | 0.136841049 | -3.102193375 | 0.003515 |
| ENSG00000236753 | MKLN1-AS | 0.370754903 | 3.221532603 | -3.108566833 | 1.37E-09 |
| ENSG00000178401 | DNAJC22 | 0.400760831 | 3.478363558 | -3.109681494 | 1.21E-10 |
| ENSG00000166033 | HTRA1 | 19.50843335 | 169.1531401 | -3.111448409 | 2.89E-12 |
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| ENSG00000135480 | KRT7 | 0.316479104 | 2.755999691 | -3.112532801 | 7.58E-10 |
| ENSG00000180801 | ARSJ | 0.170519717 | 1.496163423 | -3.120871839 | 3.70E-09 |
| ENSG00000170537 | TMC7 | 0.051879772 | 0.460493273 | -3.122017442 | 3.15E-06 |
| ENSG00000236144 | TMEM147-AS1 | 0.791163093 | 6.918523275 | -3.122069289 | 2.20E-11 |
| ENSG00000285517 | LINC00941 | 0.050812381 | 0.447299886 | -3.126280566 | 2.20E-09 |
| ENSG00000215039 | CD27-AS1 | 0.526758834 | 4.632477881 | -3.1281816 | 1.41E-10 |
| ENSG00000134070 | IRAK2 | 0.179954568 | 1.593633972 | -3.131100659 | 1.63E-08 |
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| ENSG00000143353 | LYPLAL1 | 0.676231165 | 5.976465373 | -3.135712389 | 9.12E-11 |
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| ENSG00000063180 | CA11 | 2.215132329 | 19.56633813 | -3.136852095 | 1.20E-11 |
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| ENSG00000244560 | AC004890.2 | 0.194894826 | 1.73290071 | -3.139631778 | 3.66E-09 |
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| ENSG00000253320 | AZIN1-AS1 | 0.062496935 | 0.562384422 | -3.148710784 | 2.75E-07 |
| ENSG00000167996 | FTH1 | 236.2627605 | 2102.543684 | -3.149100292 | 1.52E-12 |
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| ENSG00000067082 | KLF6 | 4.968786293 | 44.26729328 | -3.15049244 | 2.02E-12 |
| ENSG00000169252 | ADRB2 | 0.072818096 | 0.663061057 | -3.154918225 | 5.70E-06 |
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| ENSG00000111799 | COL12A1 | 0.227658894 | 2.072997716 | -3.179781126 | 2.21E-11 |
| ENSG00000223745 | CCDC18-AS1 | 0.384153747 | 3.50734867 | -3.182306323 | 6.47E-11 |
| ENSG00000213420 | GPC2 | 0.065494437 | 0.608067487 | -3.182866987 | 4.53E-06 |
| ENSG00000159403 | C1R | 0.028401326 | 0.266220776 | -3.18318226 | 5.70E-05 |
| ENSG00000240288 | GHRLLOS | 0.097629558 | 0.915133919 | -3.18318226 | 5.70E-05 |
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| ENSG00000177508 | IRX3 | 2.540716175 | 23.17348842 | -3.183675001 | 3.26E-12 |
| ENSG00000254208 | AC011773.1 | 0.178570302 | 1.721658537 | -3.184089459 | 0.002365 |
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| ENSG00000227071 | FOCAD-AS1 | 0.197567143 | 1.9048137 | -3.184089459 | 0.002365 |
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| ENSG00000233429 | HOTAIRM1 | 2.15072173 | 19.9279674 | -3.205189827 | 9.71E-12 |
| ENSG00000272079 | AC004233.3 | 0.395134286 | 3.703804418 | -3.210257705 | 2.42E-08 |
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| ENSG00000137709 | POU2F3 | 0.018864763 | 0.18188176 | -3.210336674 | 0.000215 |
| ENSG00000196754 | S100A2 | 1.333294536 | 12.45483164 | -3.215760814 | 2.92E-11 |
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| ENSG00000253549 | CA3-AS1 | 0.132968817 | 1.28199872 | -3.223686288 | 4.27E-05 |
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| ENSG00000251284 | AC111000.5 | 0.106414561 | 1.06397913 | -3.262574393 | 0.000155 |
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| ENSG00000173212 | MAB21L3 | 0.038500108 | 0.384940852 | -3.262574393 | 0.000155 |
| ENSG00000169184 | MN1 | 0.027158099 | 0.26765938 | -3.263395034 | 8.67E-06 |
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| ENSG00000144893 | MED12L | 0.072848872 | 0.709455931 | -3.271607949 | 4.82E-10 |
| ENSG00000196154 | S100A4 | 79.41273959 | 771.0611525 | -3.274760251 | 2.74E-13 |
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| ENSG00000141448 | GATA6 | 0.11651203 | 1.157373496 | -3.292621868 | 1.61E-08 |
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| ENSG00000196739 | COL27A1 | 0.185208604 | 1.836862454 | -3.302766459 | 5.22E-12 |
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| ENSG00000162511 | LAPTM5 | 0.102102506 | 1.039095073 | -3.321877444 | 2.29E-07 |
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| ENSG00000260442 | ATP2A1-AS1 | 0.645058417 | 6.603136344 | -3.332571292 | 8.34E-08 |
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| ENSG00000154310 | TNIK | 0.568709643 | 5.761485955 | -3.334674063 | 7.55E-13 |
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| ENSG00000236671 | PRKG1-AS1 | 0.025698309 | 0.275295953 | -3.335129713 | 0.00074 |
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| ENSG00000091136 | LAMB1 | 5.343815017 | 54.29315763 | -3.340110245 | 1.15E-13 |
| ENSG00000172594 | SMPDL3A | 0.2846178 | 2.915605645 | -3.341686067 | 1.02E-09 |
| ENSG00000124102 | PI3 | 0.65176613 | 6.749378875 | -3.349226754 | 7.06E-08 |
| ENSG00000188042 | ARL4C | 2.051266833 | 21.03744032 | -3.352962493 | 2.62E-13 |
| ENSG00000165996 | HACD1 | 0.357510987 | 3.679001727 | -3.353614914 | 2.82E-11 |
| ENSG00000073910 | FRY | 0.011084262 | 0.116366543 | -3.354311369 | 4.11E-06 |
| ENSG00000227218 | AL157935.1 | 0.165815281 | 1.723024933 | -3.356028297 | 3.44E-08 |
| ENSG00000130270 | ATP8B3 | 0.327658938 | 3.376060952 | -3.357464383 | 3.42E-12 |
| ENSG00000273002 | AL355388.2 | 0.154976173 | 1.618694257 | -3.359293397 | 1.59E-07 |
| ENSG00000229848 | AC139149.1 | 0.130988874 | 1.403232663 | -3.361696515 | 8.10E-05 |
| ENSG00000203952 | CCDC160 | 0.070031482 | 0.750219921 | -3.361696515 | 8.10E-05 |
| ENSG00000231210 | LINC01510 | 0.074131492 | 0.794141726 | -3.361696515 | 8.10E-05 |
| ENSG00000143867 | OSR1 | 0.023612046 | 0.25294663 | -3.361696515 | 8.10E-05 |
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| ENSG00000239552 | HOXB-AS2 | 0.346151663 | 3.655213509 | -3.372082414 | 3.30E-07 |
| ENSG00000238271 | IFNWP19 | 0.516781193 | 5.456988366 | -3.372082414 | 3.30E-07 |
| ENSG00000129991 | TNNI3 | 0.143804403 | 1.518512987 | -3.372082414 | 3.30E-07 |
| ENSG00000197385 | ZNF860 | 0.56345689 | 5.871472939 | -3.372968946 | 5.18E-12 |
| ENSG00000237357 | BX088651.4 | 0.064808764 | 0.694270988 | -3.375206431 | 1.38E-05 |
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| ENSG00000129295 | LRRC6 | 0.225623384 | 2.36867492 | -3.376356813 | 9.45E-10 |
| ENSG00000198216 | CACNA1E | 0.011434911 | 0.122497734 | -3.383386697 | 3.22E-06 |
| ENSG00000226328 | NUP50-DT | 0.443151046 | 4.668182405 | -3.385432544 | 7.21E-11 |
| ENSG00000283154 | IQCJ-SCHIP1 | 0.236932699 | 2.497556816 | -3.386689083 | 6.00E-11 |
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| ENSG00000154654 | NCAM2 | 0.024931653 | 0.272424728 | -3.411887614 | 2.52E-06 |
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| ENSG00000136327 | NKX2-8 | 0.165683786 | 1.845901937 | -3.439836376 | 1.56E-06 |
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| ENSG00000196155 | PLEKHG4 | 0.615833608 | 6.743789116 | -3.446824393 | 1.72E-13 |
| ENSG00000165730 | STOX1 | 0.171251847 | 1.891883997 | -3.450537594 | 2.86E-10 |
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| ENSG00000162039 | MEIOB | 0.290302741 | 3.304268664 | -3.493575248 | 1.71E-10 |
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| ENSG00000233818 | AP000695.2 | 0.106414561 | 1.253975403 | -3.498673527 | 3.15E-05 |
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| ENSG00000264107 | AC138207.2 | 0.169859556 | 2.09258497 | -3.535632464 | 0.000241 |
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| ENSG00000280374 | AC019080.5 | 0.220794984 | 2.660951768 | -3.54464832 | 3.58E-06 |
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| ENSG00000134531 | EMP1 | 2.665568433 | 31.31933667 | -3.549640941 | 8.01E-15 |
| ENSG00000188549 | CCDC9B | 0.650985052 | 7.659202626 | -3.550485621 | 3.49E-14 |
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| ENSG00000120075 | HOXB5 | 1.187435641 | 14.03645177 | -3.555764876 | 1.91E-13 |
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| ENSG00000260027 | HOXB7 | 3.473005397 | 41.39416972 | -3.569271682 | 2.43E-14 |
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| ENSG00000133519 | ZDHHC8P1 | 0.204517348 | 2.492165248 | -3.591911351 | 4.75E-11 |
| ENSG00000196975 | ANXA4 | 5.158884398 | 62.44066551 | -3.592672733 | 2.79E-15 |
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| ENSG00000131016 | AKAP12 | 2.012547165 | 24.47351102 | -3.599163809 | 4.15E-15 |
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| ENSG00000105339 | DENND3 | 0.287684426 | 3.530397553 | -3.611022489 | 1.79E-14 |
| ENSG00000184588 | PDE4B | 0.014502123 | 0.1864267 | -3.623765504 | 1.26E-05 |
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| ENSG00000188910 | GJB3 | 0.385119362 | 4.800737001 | -3.627561093 | 5.12E-12 |
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| ENSG00000259462 | CPEB1-AS1 | 0.008333756 | 0.116059151 | -3.633369841 | 0.005282 |
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| ENSG00000225950 | NTF4 | 0.028444827 | 0.396133823 | -3.633369841 | 0.005282 |
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| ENSG00000160323 | ADAMTS13 | 0.095166584 | 1.207694601 | -3.647975215 | 8.71E-11 |
| ENSG00000187498 | COL4A1 | 0.89025862 | 11.2014109 | -3.648209462 | 2.54E-15 |
| ENSG00000232295 | AL589935.1 | 0.016167712 | 0.216497978 | -3.655323076 | 0.000117 |
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| ENSG00000257642 | KCCAT198 | 0.380559661 | 4.973680218 | -3.669640181 | 2.00E-07 |
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| ENSG00000250564 | AC109454.3 | 0.437216974 | 5.687392177 | -3.67247383 | 1.41E-08 |
| ENSG00000154217 | PITPN1 | 1.298614213 | 16.61943254 | -3.672563179 | 2.18E-15 |
| ENSG00000226337 | AL353616.2 | 0.240284363 | 3.114627808 | -3.674622441 | 3.66E-10 |
| ENSG00000227403 | LINC01806 | 0.246106988 | 3.182569462 | -3.676066139 | 4.01E-11 |
| ENSG00000171889 | MIR31HG | 0.953493507 | 12.31736913 | -3.676705963 | 1.10E-11 |
| ENSG00000115363 | EVA1A | 1.020271575 | 13.22991688 | -3.689659715 | 1.97E-14 |
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| ENSG00000095303 | PTGS1 | 1.399823424 | 18.33502423 | -3.705842246 | 1.61E-15 |
| ENSG00000118523 | CTGF | 0.857503906 | 11.27211579 | -3.708335306 | 3.89E-14 |
| ENSG00000164418 | GRIK2 | 0.011017917 | 0.153439838 | -3.711639537 | 8.17E-05 |
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| ENSG00000260063 | AL512408.1 | 0.104463627 | 1.410038342 | -3.716092172 | 1.29E-07 |
| ENSG00000163536 | SERPINI1 | 0.552991904 | 7.349445583 | -3.722378683 | 2.22E-13 |
| ENSG00000273270 | AC090114.2 | 0.130320374 | 1.738743325 | -3.725548439 | 1.36E-12 |
| ENSG00000196668 | LINC00173 | 0.182115766 | 2.4495074 | -3.726001508 | 1.29E-09 |
| ENSG00000171227 | TMEM37 | 1.69548295 | 22.61592288 | -3.731162996 | 4.36E-15 |
| ENSG00000179761 | PIPOX | 0.030883556 | 0.430096516 | -3.738871235 | 5.19E-06 |
| ENSG00000271275 | AC007326.1 | 0.091234609 | 1.368305038 | -3.739335228 | 0.003346 |
| ENSG00000236234 | AC091132.2 | 0.054337387 | 0.8149333 | -3.739335228 | 0.003346 |
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| ENSG00000184530 | C6orf58 | 0.027310752 | 0.409597194 | -3.739335228 | 0.003346 |
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| ENSG00000257671 | KRT7-AS | 0.024681306 | 0.37016167 | -3.739335228 | 0.003346 |

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| ENSG00000242242 | NECTIN3-AS1 | 0.025096367 | 0.376386611 | -3.739335228 | 0.003346 |
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| ENSG00000143507 | DUSP10 | 0.086037304 | 1.198189263 | -3.766713593 | 2.01E-08 |
| ENSG00000167315 | ACAA2 | 1.845414229 | 25.24103486 | -3.76842726 | 5.96E-16 |
| ENSG00000166432 | ZMAT1 | 0.133464309 | 1.834847161 | -3.769403347 | 4.74E-13 |
| ENSG00000137251 | TINAG | 0.639870012 | 8.80722214 | -3.773057534 | 9.55E-14 |
| ENSG00000168497 | CAVIN2 | 1.087016991 | 14.97187108 | -3.777197053 | 2.65E-15 |
| ENSG00000188641 | DPYD | 0.164071325 | 2.291198922 | -3.792991798 | 1.56E-13 |
| ENSG00000092421 | SEMA6A | 1.02976193 | 14.41032595 | -3.80152307 | 2.88E-16 |
| ENSG00000105137 | SYDE1 | 0.790393142 | 11.14279984 | -3.810536029 | 2.03E-15 |
| ENSG00000166888 | STAT6 | 1.557364018 | 22.0196777 | -3.816422296 | 2.30E-16 |
| ENSG00000237651 | C2orf74 | 0.055162311 | 0.827305224 | -3.818077713 | 4.06E-05 |
| ENSG00000284308 | C2orf81 | 0.027903473 | 0.418486616 | -3.818077713 | 4.06E-05 |
| ENSG00000240875 | LINC00886 | 0.021865751 | 0.327934959 | -3.818077713 | 4.06E-05 |
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| ENSG00000255650 | FAM222A-AS1 | 0.234749723 | 3.394955879 | -3.821078683 | 1.15E-08 |
| ENSG00000175505 | CLCF1 | 1.184802654 | 16.86266468 | -3.823469146 | 4.70E-15 |
| ENSG00000168702 | LRP1B | 0.012260989 | 0.178632177 | -3.826071898 | 4.46E-08 |
| ENSG00000253552 | HOXA-AS2 | 0.316496503 | 4.517845864 | -3.826494936 | 1.35E-14 |
| ENSG00000196730 | DAPK1 | 0.638017436 | 9.12148494 | -3.831771231 | 4.17E-16 |
| ENSG00000074527 | NTN4 | 0.972920961 | 13.92534951 | -3.83290587 | 9.05E-16 |
| ENSG00000109846 | CRYAB | 0.055089586 | 0.811460682 | -3.833451939 | 2.27E-07 |
| ENSG00000173706 | HEG1 | 0.218926291 | 3.13905621 | -3.833929963 | 4.95E-15 |
| ENSG00000278834 | AC073508.3 | 0.029447111 | 0.473183107 | -3.838047221 | 0.002134 |
| ENSG00000232528 | AL109809.1 | 0.02671704 | 0.42931383 | -3.838047221 | 0.002134 |
| ENSG00000279170 | AL137784.3 | 0.018262872 | 0.293464523 | -3.838047221 | 0.002134 |
| ENSG00000205090 | TMEM240 | 0.030279312 | 0.486555673 | -3.838047221 | 0.002134 |
| ENSG00000259498 | TPM1-AS | 0.012458393 | 0.200192853 | -3.838047221 | 0.002134 |
| ENSG00000170703 | TTLL6 | 0.008198048 | 0.131733731 | -3.838047221 | 0.002134 |
| ENSG00000153162 | BMP6 | 0.315645491 | 4.572923251 | -3.843954521 | 3.64E-13 |
| ENSG00000157399 | ARSE | 0.537200027 | 7.776775879 | -3.846407536 | 2.12E-14 |
| ENSG00000213963 | AC019080.1 | 0.052443042 | 0.767795845 | -3.848211691 | 2.79E-10 |
| ENSG00000183696 | UPP1 | 4.345613843 | 62.96372715 | -3.851967978 | 8.86E-17 |
| ENSG00000047648 | ARHGAP6 | 0.068891675 | 1.01050548 | -3.85676951 | 6.16E-12 |

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| ENSG00000272398 | CD24 | 22.34314061 | 324.9915393 | -3.857836624 | 5.13E-17 |
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| ENSG00000162878 | PKDCC | 0.18098157 | 2.657275775 | -3.861309821 | 1.06E-12 |
| ENSG00000003436 | TFPI | 0.26040105 | 3.806049981 | -3.862556301 | 1.01E-15 |
| ENSG00000168676 | KCTD19 | 0.039617792 | 0.588110908 | -3.862742223 | 1.87E-09 |
| ENSG00000254027 | AC009902.2 | 0.119216693 | 1.851826729 | -3.868489894 | 2.88E-05 |
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| ENSG00000158089 | GALNT14 | 1.399862922 | 20.5731975 | -3.871717881 | 2.04E-16 |
| ENSG00000131094 | C1QL1 | 0.806668934 | 11.92531048 | -3.874423759 | 9.14E-14 |
| ENSG00000263961 | RHEX | 0.210747344 | 3.140191499 | -3.877014942 | 1.58E-11 |
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| ENSG00000167994 | RAB3IL1 | 1.056451849 | 15.6507123 | -3.882089747 | 6.91E-16 |
| ENSG00000117834 | SLC5A9 | 0.036855965 | 0.562623584 | -3.884871209 | 1.42E-07 |
| ENSG00000177469 | CAVIN1 | 7.924826868 | 117.4856547 | -3.885165285 | 4.49E-17 |
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| ENSG00000266074 | BAHCC1 | 0.040318478 | 0.604682565 | -3.888809198 | 4.13E-12 |
| ENSG00000157510 | AFAP1L1 | 0.628419192 | 9.434294927 | -3.901112956 | 6.06E-16 |
| ENSG00000135253 | KCP | 0.182137817 | 2.742479684 | -3.903001715 | 1.03E-14 |
| ENSG00000251664 | PCDHA12 | 0.068952889 | 1.050546317 | -3.905641847 | 1.44E-10 |
| ENSG00000101331 | CCM2L | 0.129216701 | 1.9725535 | -3.906075971 | 3.52E-10 |
| ENSG00000269113 | TRABD2B | 0.201976873 | 3.054634424 | -3.909076341 | 1.22E-14 |
| ENSG00000224081 | SLC44A3-AS1 | 0.016314476 | 0.253417382 | -3.909909543 | 1.12E-07 |
| ENSG00000258655 | ARHGAP5-AS1 | 0.067833524 | 1.065788618 | -3.912393908 | 1.26E-06 |
| ENSG00000173917 | HOXB2 | 1.609884661 | 24.3552774 | -3.912717434 | 3.17E-16 |
| ENSG00000165863 | C10orf82 | 0.03466234 | 0.556986171 | -3.917199834 | 2.06E-05 |
| ENSG00000125657 | TNFSF9 | 1.305011075 | 19.86783611 | -3.920402442 | 1.43E-15 |
| ENSG00000099204 | ABLIM1 | 1.681574072 | 25.70568763 | -3.929215737 | 3.14E-17 |
| ENSG00000234286 | AC006026.3 | 0.292205949 | 5.008461198 | -3.930435518 | 0.00137 |
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| ENSG00000272482 | AC254633.1 | 0.121117249 | 2.075970874 | -3.930435518 | 0.00137 |
| ENSG00000277128 | AL589743.4 | 0.00568974 | 0.097523142 | -3.930435518 | 0.00137 |
| ENSG00000154645 | CHODL | 0.013509683 | 0.231558342 | -3.930435518 | 0.00137 |
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| ENSG00000182557 | SPNS3 | 0.01556835 | 0.266844244 | -3.930435518 | 0.00137 |
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| ENSG00000183801 | OLFML1 | 0.048644297 | 0.768633351 | -3.934520733 | 8.90E-08 |
| ENSG00000154330 | PGM5 | 0.196941931 | 3.038057294 | -3.937784129 | 7.35E-15 |
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| ENSG00000214575 | CPEB1 | 0.086470196 | 1.340441631 | -3.939598643 | 3.53E-13 |
| ENSG00000166801 | FAM111A | 0.225679626 | 3.496247166 | -3.944443453 | 4.20E-15 |
| ENSG00000117114 | ADGRL2 | 3.766833903 | 58.23708723 | -3.945707798 | 1.82E-17 |
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| ENSG0000078487 | ZCWPW1 | 0.20149705 | 3.156892869 | -3.954268593 | 4.51E-13 |
| ENSG00000138152 | BTBD16 | 0.39944529 | 6.251209052 | -3.955952023 | 4.56E-14 |
| ENSG00000254109 | RBPMS-AS1 | 0.142734247 | 2.293584387 | -3.958719109 | 7.08E-08 |
| ENSG00000188015 | S100A3 | 0.175017595 | 2.812342741 | -3.958719109 | 7.08E-08 |
| ENSG00000145850 | TIMD4 | 0.10748669 | 1.727194417 | -3.958719109 | 7.08E-08 |
| ENSG00000144218 | AFF3 | 0.062332069 | 0.980522182 | -3.961802009 | 1.30E-13 |
| ENSG00000250548 | LINC01303 | 0.016233664 | 0.269552599 | -3.964318744 | 1.47E-05 |
| ENSG00000011590 | ZBTB32 | 0.030170001 | 0.500959127 | -3.964318744 | 1.47E-05 |
| ENSG00000146038 | DCDC2 | 1.154201802 | 18.12565967 | -3.967246337 | 5.39E-17 |
| ENSG00000128298 | BAIAP2L2 | 1.421406293 | 22.33984325 | -3.967284872 | 2.16E-16 |
| ENSG00000124920 | MYRF | 0.622086767 | 9.774119889 | -3.968125989 | 4.67E-17 |
| ENSG00000136883 | KIF12 | 0.756982804 | 11.91324194 | -3.968438127 | 5.83E-16 |
| ENSG00000174099 | MSRB3 | 0.648930025 | 10.2099815 | -3.969701139 | 7.55E-17 |
| ENSG00000235034 | C19orf81 | 0.282334127 | 4.536802901 | -3.972866752 | 1.92E-09 |
| ENSG00000204362 | AL590644.1 | 0.06255307 | 1.005159924 | -3.976938063 | 5.27E-10 |
| ENSG00000144824 | PHLDB2 | 0.614442001 | 9.731587811 | -3.979806045 | 3.11E-17 |
| ENSG00000148143 | ZNF462 | 0.098848036 | 1.584729173 | -3.9923167 | 8.07E-15 |
| ENSG00000135447 | PPP1R1A | 0.325301098 | 5.238476854 | -3.999121294 | 5.29E-15 |
| ENSG00000167972 | ABCA3 | 1.263629726 | 20.32810152 | -4.002533076 | 1.56E-17 |
| ENSG00000101076 | HNF4A | 0.062869643 | 1.022492322 | -4.003235896 | 3.34E-12 |
| ENSG00000163638 | ADAMTS9 | 0.794236564 | 12.79185845 | -4.004096278 | 1.80E-17 |
| ENSG00000185345 | PRKN | 0.044092984 | 0.724271407 | -4.004533538 | 1.36E-09 |
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| ENSG00000170477 | KRT4 | 0.02523276 | 0.432493932 | -4.009947283 | 1.06E-05 |
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| ENSG00000154734 | ADAMTS1 | 1.08856335 | 17.66948662 | -4.015256569 | 1.79E-17 |
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| ENSG00000230583 | GTF2IRD1P1 | 0.012797994 | 0.233069854 | -4.017261789 | 0.000885 |
| ENSG00000207425 | RF00019 | 0.417854508 | 7.609730733 | -4.017261789 | 0.000885 |
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| ENSG00000162366 | PDZK1IP1 | 1.481959658 | 24.28041386 | -4.026234117 | 3.14E-16 |
| ENSG00000095587 | TLL2 | 0.210183227 | 3.448808808 | -4.027563771 | 6.53E-16 |
| ENSG00000141837 | CACNA1A | 0.003872699 | 0.065341567 | -4.028970282 | 3.60E-08 |
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| ENSG00000126217 | MCF2L | 0.037908004 | 0.628478255 | -4.038425864 | 2.54E-14 |

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| ENSG00000106571 | GLI3 | 0.022896137 | 0.392443809 | -4.065855191 | 6.96E-10 |
| ENSG00000139549 | DHH | 0.026665891 | 0.466580084 | -4.067268694 | 3.28E-07 |
| ENSG00000279673 | AC092919.2 | 0.228613408 | 3.918473898 | -4.07541558 | 1.90E-11 |
| ENSG00000006210 | CX3CL1 | 0.125712538 | 2.147253218 | -4.080031884 | 3.66E-14 |
| ENSG00000111331 | OAS3 | 0.035450025 | 0.613044817 | -4.082754038 | 1.58E-10 |
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| ENSG00000140859 | KIFC3 | 0.50490753 | 8.635552278 | -4.090129824 | 1.21E-17 |
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| ENSG00000240476 | LINC00973 | 0.130308058 | 2.32656559 | -4.096344022 | 2.53E-07 |
| ENSG00000046889 | PREX2 | 0.298021958 | 5.122997869 | -4.096903059 | 2.17E-17 |
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| ENSG00000164308 | ERAP2 | 0.01125989 | 0.205058764 | -4.097090676 | 5.52E-06 |
| ENSG00000236908 | AC005865.1 | 0.013909937 | 0.268221104 | -4.099157873 | 0.000575 |
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| ENSG00000230306 | BANF1P2 | 0.158278223 | 3.052031043 | -4.099157873 | 0.000575 |
| ENSG00000283567 | C19orf85 | 0.03234168 | 0.623634826 | -4.099157873 | 0.000575 |
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| ENSG00000229950 | TFAP2A-AS1 | 0.024695893 | 0.476203425 | -4.099157873 | 0.000575 |
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| ENSG00000275410 | HNF1B | 1.009242689 | 17.39620154 | -4.101652763 | 6.70E-18 |
| ENSG00000105559 | PLEKHA4 | 0.358068002 | 6.207090919 | -4.105748296 | 8.48E-16 |
| ENSG00000204540 | PSORS1C1 | 0.050596463 | 0.890461689 | -4.108038311 | 1.02E-10 |
| ENSG00000150782 | IL18 | 0.731404389 | 12.70673097 | -4.110413289 | 1.27E-16 |
| ENSG00000116106 | EPHA4 | 0.094036625 | 1.641432987 | -4.110746992 | 3.40E-14 |
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| ENSG00000235961 | PNMA6A | 0.056748009 | 1.033462752 | -4.124844939 | 1.95E-07 |
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| ENSG00000205885 | C1RL-AS1 | 0.047997728 | 0.859416684 | -4.132887081 | 7.62E-11 |
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| ENSG00000225298 | LINC00113 | 0.136777253 | 2.564172289 | -4.138764795 | 4.01E-06 |
| ENSG00000213889 | PPM1N | 0.065010425 | 1.183933214 | -4.138950008 | 1.21E-08 |
| ENSG00000173557 | C2orf70 | 0.100005068 | 1.803380661 | -4.139014341 | 3.07E-10 |
| ENSG00000280071 | GATD3B | 0.134531393 | 2.406774426 | -4.139066789 | 1.20E-12 |
| ENSG00000091656 | ZFHX4 | 0.061265084 | 1.090043513 | -4.141000941 | 3.43E-15 |
| ENSG00000110328 | GALNT18 | 0.472347251 | 8.404655654 | -4.144432399 | 1.19E-16 |
| ENSG00000188766 | SPRED3 | 0.092634867 | 1.664113333 | -4.149040722 | 1.34E-13 |
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| ENSG00000123342 | MMP19 | 0.026831411 | 0.498219679 | -4.152793701 | 1.17E-07 |
| ENSG00000136531 | SCN2A | 0.005290414 | 0.09823517 | -4.152793701 | 1.17E-07 |
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| ENSG00000231789 | PIK3CD-AS2 | 0.311499633 | 5.672855712 | -4.157315096 | 5.73E-11 |
| ENSG00000135697 | BCO1 | 0.242441182 | 4.3846471 | -4.161889823 | 1.71E-14 |
| ENSG00000189410 | SH2D5 | 0.935283659 | 16.84056861 | -4.164060787 | 6.07E-18 |
| ENSG00000152953 | STK32B | 0.251152221 | 4.540211469 | -4.166082771 | 3.95E-16 |
| ENSG00000132837 | DMGDH | 0.047718444 | 0.877541218 | -4.167269893 | 2.23E-10 |
| ENSG00000163762 | TM4SF18 | 0.055937685 | 1.028692896 | -4.167269893 | 2.23E-10 |
| ENSG00000175592 | FOSL1 | 2.767981635 | 50.07681529 | -4.171272945 | 3.17E-18 |
| ENSG00000276115 | AC026356.2 | 0.023265841 | 0.473551958 | -4.176653707 | 0.000248 |
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| ENSG00000276952 | AL121772.3 | 0.061996218 | 1.261868423 | -4.176653707 | 0.000248 |
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| ENSG00000245571 | FAM111A-DT | 0.031595804 | 0.609252322 | -4.179268823 | 2.93E-06 |
| ENSG00000132031 | MATN3 | 0.455646352 | 8.312330858 | -4.179543167 | 2.45E-16 |
| ENSG00000183778 | B3GALT5 | 0.131318198 | 2.394619137 | -4.180195083 | 4.94E-17 |
| ENSG00000135709 | KIAA0513 | 0.288436403 | 5.257906597 | -4.18072428 | 1.84E-17 |
| ENSG00000106927 | AMBp | 0.348041481 | 6.382199163 | -4.181849889 | 1.30E-14 |
| ENSG00000196569 | LAMA2 | 0.064545975 | 1.192761311 | -4.192314958 | 1.65E-14 |
| ENSG00000006747 | SCIN | 0.039545725 | 0.73558946 | -4.196829286 | 2.57E-13 |
| ENSG00000108846 | ABCC3 | 0.647600599 | 11.9334181 | -4.19802082 | 1.48E-18 |
| ENSG00000198842 | DUSP27 | 0.077668124 | 1.456049506 | -4.202185109 | 1.08E-11 |
| ENSG00000120068 | HOXB8 | 2.220679733 | 41.09651811 | -4.203770848 | 2.33E-18 |
| ENSG00000092929 | UNC13D | 0.123976441 | 2.303984219 | -4.203797601 | 1.36E-15 |
| ENSG00000163453 | IGFBP7 | 1.515534483 | 28.08711953 | -4.204938823 | 8.71E-18 |
| ENSG00000107105 | ELAVL2 | 0.024388395 | 0.470274044 | -4.207117539 | 7.11E-08 |
| ENSG00000160469 | BRSK1 | 0.217575896 | 4.06725581 | -4.211124926 | 2.94E-15 |
| ENSG00000285906 | AC083855.2 | 0.713205485 | 13.34803938 | -4.211281563 | 8.16E-15 |
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| ENSG00000197408 | CYP2B6 | 1.542676668 | 28.81960362 | -4.217718539 | 1.16E-18 |
| ENSG00000226124 | FTCDNL1 | 0.030290287 | 0.600302832 | -4.218666676 | 2.15E-06 |
| ENSG00000105048 | TNNT1 | 4.330597154 | 81.4437272 | -4.227825363 | 4.99E-19 |
| ENSG00000153029 | MR1 | 0.151979603 | 2.868325851 | -4.228525766 | 1.18E-16 |
| ENSG00000241749 | RPSAP52 | 0.39013443 | 7.412860983 | -4.234177928 | 2.88E-15 |
| ENSG00000132109 | TRIM21 | 0.324925745 | 6.195828701 | -4.236847477 | 1.37E-14 |
| ENSG00000185551 | NR2F2 | 0.388160249 | 7.380821317 | -4.241562968 | 7.67E-18 |
| ENSG00000128394 | APOBEC3F | 0.103110304 | 1.988244776 | -4.242792516 | 6.57E-12 |
| ENSG00000107738 | VSIR | 0.13852431 | 2.653664016 | -4.244876439 | 5.16E-15 |
| ENSG00000253522 | MIR3142HG | 0.017579071 | 0.376635439 | -4.250198127 | 0.000164 |
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| ENSG00000250327 | RPSAP70 | 0.04836279 | 1.036183379 | -4.250198127 | 0.000164 |
| ENSG00000260075 | NSFP1 | 0.056812306 | 1.156355292 | -4.257017171 | 1.58E-06 |
| ENSG00000138496 | PARP9 | 0.014025101 | 0.280458137 | -4.259469857 | 4.35E-08 |
| ENSG00000276851 | AC002401.4 | 0.28669263 | 5.681768482 | -4.260732917 | 3.48E-09 |
| ENSG00000126895 | AVPR2 | 0.241212638 | 4.690984362 | -4.263438456 | 2.72E-14 |
| ENSG00000122861 | PLAU | 1.048177409 | 20.34825307 | -4.272008455 | 2.10E-18 |
| ENSG00000074416 | MGLL | 1.608082163 | 31.21216252 | -4.273751072 | 1.41E-19 |
| ENSG00000058085 | LAMC2 | 11.16322298 | 217.1863166 | -4.277449708 | 7.76E-20 |
| ENSG00000104833 | TUBB4A | 0.337562787 | 6.599525482 | -4.278282134 | 1.50E-16 |
| ENSG00000130208 | APOC1 | 1.357772567 | 26.58151272 | -4.282142191 | 1.66E-17 |
| ENSG00000228065 | LINC01515 | 0.037438433 | 0.744195258 | -4.289028185 | 1.20E-12 |
| ENSG00000157851 | DPYSL5 | 0.141665605 | 2.794928649 | -4.290347742 | 3.08E-16 |
| ENSG00000257135 | AC007249.2 | 0.047673076 | 0.995870939 | -4.294374554 | 1.16E-06 |
| ENSG00000285417 | BX571818.1 | 0.684347459 | 13.54106002 | -4.296720879 | 4.26E-17 |
| ENSG00000122870 | BICC1 | 1.138620138 | 22.4667397 | -4.29688816 | 2.39E-19 |
| ENSG00000124942 | AHNAK | 7.315942265 | 144.2791425 | -4.297066453 | 5.52E-20 |
| ENSG00000103187 | COTL1 | 3.479031171 | 68.71357675 | -4.298966754 | 8.65E-20 |
| ENSG00000248874 | C5orf17 | 0.168489721 | 3.384308616 | -4.301637796 | 2.82E-12 |
| ENSG00000170689 | HOXB9 | 1.214222707 | 24.12456515 | -4.30548514 | 1.21E-18 |
| ENSG00000183780 | SLC35F3 | 0.065391942 | 1.330984847 | -4.307736788 | 2.32E-10 |
| ENSG00000261087 | AP003469.4 | 0.04437393 | 0.919030469 | -4.309988758 | 2.69E-08 |
| ENSG00000160678 | S100A1 | 1.544544714 | 30.77279968 | -4.310266914 | 4.33E-19 |
| ENSG00000114251 | WNT5A | 0.039542809 | 0.804852673 | -4.317625633 | 8.49E-12 |
| ENSG00000267121 | AC008105.3 | 0.011235668 | 0.25276299 | -4.320174613 | 0.00011 |
| ENSG00000249328 | AC036214.1 | 0.01702055 | 0.382902469 | -4.320174613 | 0.00011 |
| ENSG00000184227 | ACOT1 | 0.024393141 | 0.548759814 | -4.320174613 | 0.00011 |
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| ENSG00000154975 | CA10 | 0.009389989 | 0.211241699 | -4.320174613 | 0.00011 |
| ENSG00000172318 | B3GALT1 | 0.065623009 | 1.335687974 | -4.320731331 | 2.22E-12 |
| ENSG00000125872 | LRRN4 | 0.682971706 | 13.76815193 | -4.324792092 | 6.09E-18 |
| ENSG00000198915 | RASGEF1A | 0.378429078 | 7.643562897 | -4.328379161 | 2.67E-18 |
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| ENSG00000172159 | FRMD3 | 0.24481146 | 4.982882216 | -4.338028911 | 1.38E-17 |
| ENSG00000117016 | RIMS3 | 0.127060113 | 2.592363248 | -4.338102581 | 2.50E-16 |
| ENSG00000124225 | PMEPA1 | 0.171038506 | 3.497243378 | -4.341589976 | 1.87E-16 |
| ENSG00000156510 | HKDC1 | 1.550152904 | 31.58327812 | -4.34300124 | 1.47E-19 |
| ENSG00000143850 | PLEKHA6 | 0.374757406 | 7.644072093 | -4.343364553 | 6.93E-19 |
| ENSG00000170439 | METTL7B | 1.304061212 | 26.66170013 | -4.345365308 | 3.45E-18 |
| ENSG00000180525 | PRR26 | 0.02711287 | 0.566376692 | -4.350931683 | 2.29E-11 |
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| ENSG0000013364 | MVP | 2.245432136 | 46.51982484 | -4.367686735 | 4.03E-20 |
| ENSG00000156113 | KCNMA1 | 0.164121959 | 3.403323435 | -4.368281717 | 1.12E-19 |
| ENSG00000057019 | DCBLD2 | 6.756685891 | 140.10611 | -4.369406122 | 1.82E-20 |
| ENSG00000251493 | FOXD1 | 0.14337364 | 3.020614787 | -4.372870478 | 3.73E-13 |
| ENSG00000101049 | SGK2 | 0.145088371 | 3.039471244 | -4.374444397 | 5.68E-16 |
| ENSG00000164749 | HNF4G | 0.252138592 | 5.281042479 | -4.377876147 | 2.83E-17 |
| ENSG00000275591 | XKR5 | 0.058139168 | 1.236746959 | -4.381227713 | 3.90E-12 |
| ENSG00000244503 | AC108751.5 | 0.031276535 | 0.737117278 | -4.386913395 | 7.35E-05 |
| ENSG00000121753 | ADGRB2 | 0.0053875 | 0.126971207 | -4.386913395 | 7.35E-05 |
| ENSG00000280303 | ERICD | 0.020861433 | 0.491656856 | -4.386913395 | 7.35E-05 |
| ENSG00000144481 | TRPM8 | 0.00528729 | 0.124609475 | -4.386913395 | 7.35E-05 |
| ENSG00000158125 | XDH | 0.006921559 | 0.163125507 | -4.386913395 | 7.35E-05 |
| ENSG00000197321 | SVIL | 0.639165595 | 13.50056119 | -4.394962228 | 6.78E-20 |
| ENSG00000241635 | UGT1A1 | 0.046771268 | 1.012105511 | -4.395983729 | 8.52E-11 |
| ENSG00000005884 | ITGA3 | 6.910244407 | 146.4460105 | -4.400821955 | 1.11E-20 |
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| ENSG00000141665 | FBXO15 | 0.033455125 | 0.731119046 | -4.410180678 | 7.24E-11 |
| ENSG00000167165 | UGT1A6 | 0.532401496 | 11.38089414 | -4.410711654 | 4.33E-19 |
| ENSG00000164794 | KCNV1 | 0.041911184 | 0.910784255 | -4.412007273 | 2.67E-12 |
| ENSG00000173193 | PARP14 | 0.091573641 | 1.974780893 | -4.41836064 | 5.98E-17 |
| ENSG00000150995 | ITPR1 | 0.056651255 | 1.224799787 | -4.425706769 | 1.31E-18 |
| ENSG00000151967 | SCHIP1 | 0.016397168 | 0.368878572 | -4.429049498 | 8.38E-09 |
| ENSG00000212993 | POU5F1B | 0.016835395 | 0.387754683 | -4.434822295 | 3.56E-07 |
| ENSG00000250799 | PRODH2 | 0.137703792 | 3.032287647 | -4.436603805 | 1.64E-13 |
| ENSG00000272384 | AC016405.3 | 0.048587733 | 1.197153262 | -4.450700878 | 4.96E-05 |
| ENSG00000251127 | AC091173.1 | 0.015194709 | 0.374382475 | -4.450700878 | 4.96E-05 |
| ENSG00000280157 | AL359510.2 | 0.018579569 | 0.457782039 | -4.450700878 | 4.96E-05 |
| ENSG00000273001 | AL731533.2 | 0.072293167 | 1.781231497 | -4.450700878 | 4.96E-05 |
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| ENSG00000230020 | NHS-AS1 | 0.114167898 | 2.812983074 | -4.450700878 | 4.96E-05 |
| ENSG00000133321 | RARRES3 | 0.032167399 | 0.792572598 | -4.450700878 | 4.96E-05 |

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| ENSG00000274718 | AL136964.1 | 0.041925201 | 0.958140403 | -4.451726398 | 6.68E-09 |
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| ENSG00000168077 | SCARA3 | 1.73112634 | 38.23354724 | -4.459434982 | 1.98E-20 |
| ENSG00000162004 | CCDC78 | 0.080608538 | 1.813408365 | -4.46501204 | 3.61E-13 |
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| ENSG00000173267 | SNCG | 0.435614162 | 9.763888672 | -4.468160479 | 1.58E-15 |
| ENSG00000273356 | LINC02019 | 0.304262991 | 6.844846319 | -4.475260063 | 4.86E-16 |
| ENSG00000212978 | AC016747.1 | 0.336003946 | 7.544508172 | -4.47722156 | 1.51E-17 |
| ENSG00000276547 | PCDHGB5 | 0.043068904 | 0.987353958 | -4.47914251 | 3.25E-11 |
| ENSG00000204442 | FAM155A | 0.186739636 | 4.195720123 | -4.480587069 | 1.61E-18 |
| ENSG00000213988 | ZNF90 | 0.033315089 | 0.776239109 | -4.493871385 | 2.34E-10 |
| ENSG00000104267 | CA2 | 1.574581282 | 35.67555457 | -4.495115535 | 5.56E-20 |
| ENSG00000122176 | FMOD | 0.45459032 | 10.31881435 | -4.495206757 | 1.44E-18 |
| ENSG00000124143 | ARHGAP40 | 0.039235165 | 0.92468421 | -4.496038087 | 4.26E-09 |
| ENSG00000099250 | NRP1 | 0.010879739 | 0.25641087 | -4.496038087 | 4.26E-09 |
| ENSG00000233817 | AL162727.1 | 0.027463326 | 0.661958754 | -4.500230855 | 2.01E-07 |
| ENSG00000282221 | AC119427.1 | 0.45092213 | 10.46619758 | -4.502785849 | 3.70E-12 |
| ENSG0000035862 | TIMP2 | 2.358915914 | 53.69508523 | -4.503477434 | 4.75E-21 |
| ENSG00000122863 | CHST3 | 0.53355884 | 12.1958635 | -4.508044377 | 3.63E-20 |
| ENSG00000128342 | LIF | 0.536925671 | 12.33833596 | -4.514236654 | 1.97E-19 |
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| ENSG00000184489 | PTP4A3 | 0.348575189 | 8.121776039 | -4.530290719 | 8.70E-18 |
| ENSG00000226833 | AC092164.1 | 0.058116065 | 1.431921843 | -4.531855678 | 1.52E-07 |
| ENSG00000128536 | CDHR3 | 0.047168563 | 1.111656479 | -4.532079078 | 1.37E-13 |
| ENSG00000022556 | NLRP2 | 0.403756138 | 9.458895089 | -4.542639222 | 7.11E-20 |
| ENSG00000198053 | SIRPA | 1.896340504 | 44.37449186 | -4.54310886 | 3.51E-21 |
| ENSG00000120093 | HOXB3 | 0.622074173 | 14.68489757 | -4.554940144 | 9.59E-21 |
| ENSG00000178445 | GLDC | 1.467796346 | 34.77291855 | -4.561115579 | 2.05E-21 |
| ENSG00000182795 | C1orf116 | 0.440486395 | 10.45449141 | -4.561252651 | 6.26E-20 |
| ENSG00000187800 | PEAR1 | 0.083117533 | 1.991270887 | -4.561710912 | 1.69E-15 |
| ENSG00000188000 | OR7D2 | 0.02415344 | 0.608053969 | -4.562802109 | 1.15E-07 |
| ENSG00000233101 | HOXB-AS3 | 0.698972517 | 16.70719764 | -4.56896874 | 9.75E-19 |
| ENSG00000262823 | AC127521.1 | 0.039457461 | 1.056730924 | -4.57039149 | 2.30E-05 |
| ENSG00000131400 | NAPSA | 0.011668654 | 0.312504342 | -4.57039149 | 2.30E-05 |
| ENSG00000249740 | OSMR-AS1 | 0.01971942 | 0.528116116 | -4.57039149 | 2.30E-05 |
| ENSG00000134121 | CHL1 | 0.021137569 | 0.517034627 | -4.578381628 | 1.46E-12 |
| ENSG00000180543 | TSPYL5 | 0.846688047 | 20.4429221 | -4.587109877 | 1.00E-20 |
| ENSG00000115641 | FHL2 | 0.769366887 | 18.6726938 | -4.595094807 | 4.43E-21 |
| ENSG00000251169 | LINC01843 | 0.18873284 | 4.731061671 | -4.607901072 | 6.09E-12 |
| ENSG00000261786 | AC006058.1 | 0.189671476 | 4.708652853 | -4.621434518 | 2.92E-18 |
| ENSG00000119673 | ACOT2 | 0.349230679 | 8.698224702 | -4.625003972 | 6.83E-18 |
| ENSG00000102524 | TNFSF13B | 0.01365984 | 0.380464587 | -4.626707951 | 1.58E-05 |

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| ENSG00000249835 | VCAN-AS1 | 0.047645896 | 1.327070891 | -4.626707951 | 1.58E-05 |
| ENSG0000026508 | CD44 | 2.20121277 | 54.79052663 | -4.632659891 | 4.51E-22 |
| ENSG00000276170 | AC244153.1 | 0.703120566 | 17.61113212 | -4.633527787 | 4.31E-18 |
| ENSG00000139117 | CPNE8 | 0.597165577 | 14.92968552 | -4.636938233 | 7.21E-21 |
| ENSG00000153822 | KCNJ16 | 0.243858309 | 6.107271372 | -4.637032406 | 1.67E-19 |
| ENSG00000144837 | PLA1A | 0.246689764 | 6.220488338 | -4.638014261 | 1.40E-16 |
| ENSG00000131080 | EDA2R | 0.070051049 | 1.788523733 | -4.640167511 | 6.75E-13 |
| ENSG00000265735 | RN7SL5P | 0.390518231 | 10.1797754 | -4.64121556 | 9.42E-10 |
| ENSG00000135596 | MICAL1 | 0.201347127 | 5.081527876 | -4.647698587 | 2.13E-19 |
| ENSG00000144619 | CNTN4 | 0.151197355 | 3.828424905 | -4.652279685 | 2.27E-19 |
| ENSG00000185567 | AHNAK2 | 1.484784809 | 37.60903502 | -4.657928441 | 2.64E-22 |
| ENSG00000167653 | PSCA | 0.071104 | 1.878883168 | -4.660812132 | 7.65E-10 |
| ENSG00000105976 | MET | 9.97888091 | 253.5644214 | -4.662667135 | 1.70E-22 |
| ENSG00000176165 | FOXG1 | 0.116980545 | 2.999246134 | -4.663824239 | 3.03E-17 |
| ENSG00000234745 | HLA-B | 0.150652232 | 3.887980111 | -4.668994145 | 3.85E-16 |
| ENSG00000102854 | MSLN | 0.473350809 | 12.22243057 | -4.679761788 | 2.99E-19 |
| ENSG00000261308 | FIGNL2 | 0.02520739 | 0.675092328 | -4.680146082 | 6.22E-10 |
| ENSG00000254290 | AC124067.4 | 0.035128584 | 0.959612955 | -4.680348258 | 3.88E-08 |
| ENSG00000279148 | AC126474.1 | 0.064633335 | 1.765598778 | -4.680348258 | 3.88E-08 |
| ENSG00000165887 | ANKRD2 | 0.057595384 | 1.573341985 | -4.680348258 | 3.88E-08 |
| ENSG00000184995 | IFNE | 0.028329119 | 0.819392741 | -4.680908407 | 1.09E-05 |
| ENSG00000173269 | MMRN2 | 0.007833793 | 0.226584982 | -4.680908407 | 1.09E-05 |
| ENSG00000164342 | TLR3 | 0.006214374 | 0.179744838 | -4.680908407 | 1.09E-05 |
| ENSG00000008513 | ST3GAL1 | 0.3823567 | 9.891173357 | -4.686385214 | 2.67E-21 |
| ENSG00000069424 | KCNAB2 | 0.070124524 | 1.826395473 | -4.687233342 | 1.31E-17 |
| ENSG00000169903 | TM4SF4 | 0.859140109 | 22.29789159 | -4.689249833 | 2.23E-20 |
| ENSG00000123700 | KCNJ2 | 0.284713489 | 7.408348856 | -4.692308123 | 6.25E-20 |
| ENSG00000067798 | NAV3 | 0.012600211 | 0.337452861 | -4.694523795 | 2.41E-11 |
| ENSG00000171992 | SYNPO | 0.0162938 | 0.436372801 | -4.694523795 | 2.41E-11 |
| ENSG00000163840 | DTX3L | 0.078329918 | 2.059652851 | -4.69594901 | 2.46E-16 |
| ENSG00000113249 | HAVCR1 | 1.398676176 | 36.48059172 | -4.697953219 | 2.94E-21 |
| ENSG00000089327 | FXYD5 | 0.879546742 | 22.95736459 | -4.698656238 | 5.59E-21 |
| ENSG00000142227 | EMP3 | 3.534342266 | 92.2651992 | -4.700446394 | 5.91E-22 |
| ENSG00000169908 | TM4SF1 | 15.57271297 | 407.993646 | -4.706766518 | 8.45E-23 |
| ENSG00000274922 | AL139384.1 | 0.027427273 | 0.763925941 | -4.708297021 | 2.30E-08 |
| ENSG00000254300 | LINC01111 | 0.050253098 | 1.39968872 | -4.708297021 | 2.30E-08 |
| ENSG00000163449 | TMEM169 | 0.115174892 | 3.059882648 | -4.709217895 | 4.85E-16 |
| ENSG00000198353 | HOXC4 | 0.107338773 | 2.874695906 | -4.713239824 | 4.63E-14 |
| ENSG00000100360 | IFT27 | 0.146084732 | 3.862069831 | -4.713555659 | 2.15E-19 |
| ENSG00000196581 | AJAP1 | 0.111158394 | 2.937297967 | -4.713825017 | 8.82E-20 |
| ENSG00000104783 | KCNN4 | 0.159392858 | 4.255648919 | -4.720444767 | 4.38E-17 |
| ENSG00000026025 | VIM | 9.761820117 | 259.466425 | -4.727548231 | 6.10E-23 |
| ENSG00000241158 | ADAMTS9-AS1 | 0.00601316 | 0.180366587 | -4.733146126 | 7.53E-06 |

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| ENSG00000248636 | AC002070.1 | 0.206246055 | 5.656149665 | -4.737408368 | 1.26E-12 |
| ENSG00000105255 | FSD1 | 0.188041244 | 5.07919706 | -4.738173407 | 1.83E-17 |
| ENSG00000182963 | GJC1 | 0.545237406 | 14.67982291 | -4.744663346 | 4.62E-22 |
| ENSG00000227906 | SNAP25-AS1 | 0.038405745 | 1.061478444 | -4.748625071 | 1.10E-12 |
| ENSG00000128335 | APOL2 | 0.239870555 | 6.526884603 | -4.752570011 | 9.78E-19 |
| ENSG00000244128 | LINC01322 | 0.359444738 | 9.843073593 | -4.759542112 | 4.62E-18 |
| ENSG00000105472 | CLEC11A | 0.36978275 | 10.14712023 | -4.759958588 | 2.35E-17 |
| ENSG00000171234 | UGT2B7 | 0.832379497 | 22.72833151 | -4.762568552 | 6.46E-21 |
| ENSG00000225953 | SATB2-AS1 | 0.018695951 | 0.540762547 | -4.762620859 | 1.37E-08 |
| ENSG00000161249 | DMKN | 1.257380571 | 34.44427225 | -4.770413072 | 1.04E-22 |
| ENSG00000147573 | TRIM55 | 0.135623014 | 3.777478647 | -4.777356953 | 1.89E-16 |
| ENSG00000267649 | AC010327.4 | 0.026496798 | 0.823164576 | -4.783558308 | 5.25E-06 |
| ENSG00000253616 | AC107959.3 | 0.04742957 | 1.473473935 | -4.783558308 | 5.25E-06 |
| ENSG00000186466 | AQP7P1 | 0.039986077 | 1.242230179 | -4.783558308 | 5.25E-06 |
| ENSG00000198520 | ARMH1 | 0.012700745 | 0.394568552 | -4.783558308 | 5.25E-06 |
| ENSG00000002746 | HECW1 | 0.002992155 | 0.092956 | -4.783558308 | 5.25E-06 |
| ENSG00000278709 | NKILA | 0.016083699 | 0.499665334 | -4.783558308 | 5.25E-06 |
| ENSG00000203706 | SERTAD4-AS1 | 0.08323795 | 2.452163056 | -4.789034474 | 1.06E-08 |
| ENSG00000108622 | ICAM2 | 0.193272205 | 5.493593136 | -4.812561234 | 3.40E-18 |
| ENSG00000160801 | PTH1R | 0.106054444 | 3.067523586 | -4.824197358 | 1.08E-14 |
| ENSG00000072840 | EVC | 0.379974021 | 10.83382778 | -4.826179708 | 6.83E-22 |
| ENSG00000184304 | PRKD1 | 0.10472544 | 3.020453574 | -4.831765901 | 8.43E-18 |
| ENSG00000054392 | HHAT | 0.100672672 | 2.911860968 | -4.838449883 | 1.40E-18 |
| ENSG00000157168 | NRG1 | 0.32460449 | 9.349359689 | -4.841514483 | 1.89E-22 |
| ENSG00000176697 | BDNF | 0.037790459 | 1.110403025 | -4.846903024 | 7.98E-15 |
| ENSG00000119946 | CNNM1 | 0.16289354 | 4.732480382 | -4.848864432 | 5.34E-20 |
| ENSG00000162105 | SHANK2 | 0.033383849 | 0.977516911 | -4.85540389 | 1.82E-18 |
| ENSG00000105974 | CAV1 | 4.483593197 | 130.275818 | -4.855802687 | 1.40E-23 |
| ENSG00000102452 | NALCN | 0.013715137 | 0.416287239 | -4.860445146 | 7.09E-11 |
| ENSG00000134954 | ETS1 | 0.549424027 | 16.06688641 | -4.863557509 | 1.17E-22 |
| ENSG00000136546 | SCN7A | 0.022989355 | 0.689572741 | -4.866574694 | 2.52E-13 |
| ENSG00000075223 | SEMA3C | 2.126604785 | 62.29558278 | -4.867385327 | 1.40E-23 |
| ENSG00000162572 | SCNN1D | 0.031144435 | 0.956429438 | -4.877295139 | 5.87E-11 |
| ENSG00000283033 | AC022596.2 | 0.01357552 | 0.450830663 | -4.879387158 | 2.59E-06 |
| ENSG00000108932 | SLC16A6 | 0.061736692 | 1.862833689 | -4.88098811 | 2.74E-14 |
| ENSG00000206190 | ATP10A | 0.044722209 | 1.346779624 | -4.887962663 | 3.26E-16 |
| ENSG00000184500 | PROS1 | 0.821279065 | 24.73318715 | -4.906193211 | 3.77E-23 |
| ENSG00000272702 | AC010913.1 | 0.028917267 | 0.929338172 | -4.914301643 | 3.10E-09 |
| ENSG00000167600 | CYP2S1 | 0.247165158 | 7.538396322 | -4.915598858 | 2.70E-19 |
| ENSG00000089250 | NOS1 | 0.143395507 | 4.369465119 | -4.920831172 | 5.36E-22 |
| ENSG00000284879 | AC133644.3 | 0.010856184 | 0.372153781 | -4.925015696 | 1.83E-06 |
| ENSG00000141433 | ADCYAP1 | 0.010981722 | 0.376457267 | -4.925015696 | 1.83E-06 |
| ENSG00000127325 | BEST3 | 0.006088511 | 0.208716291 | -4.925015696 | 1.83E-06 |

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| ENSG00000173482 | PTPRM | 0.09707731 | 2.979686603 | -4.927514896 | 2.64E-20 |
| ENSG00000261175 | LINC02188 | 0.042930258 | 1.341360675 | -4.931284426 | 1.27E-14 |
| ENSG00000178726 | THBD | 0.071184754 | 2.222359912 | -4.934312461 | 2.47E-15 |
| ENSG00000244422 | EHD2 | 0.564524316 | 17.36667643 | -4.935189806 | 2.33E-22 |
| ENSG00000230499 | AC108463.2 | 0.202841994 | 6.627549611 | -4.938100825 | 2.44E-09 |
| ENSG00000100292 | HMOX1 | 0.469109011 | 14.51776928 | -4.940537476 | 7.92E-21 |
| ENSG00000204876 | AC021218.1 | 0.18124604 | 5.648343465 | -4.940960614 | 7.28E-18 |
| ENSG00000261780 | LINC02582 | 1.285706177 | 39.90312586 | -4.948739592 | 7.80E-23 |
| ENSG00000166401 | SERPINB8 | 0.099692623 | 3.119992652 | -4.950538436 | 7.65E-19 |
| ENSG00000198467 | TPM2 | 2.032666632 | 63.23066612 | -4.953481615 | 8.99E-24 |
| ENSG00000142623 | PADI1 | 0.102269102 | 3.213668964 | -4.954279065 | 2.74E-18 |
| ENSG00000238266 | LINC00707 | 0.038245607 | 1.206369096 | -4.954786434 | 1.29E-16 |
| ENSG0000038427 | VCAN | 2.422998291 | 75.80242789 | -4.962612219 | 1.76E-24 |
| ENSG00000227051 | C14orf132 | 0.075240683 | 2.383528295 | -4.968063212 | 5.93E-19 |
| ENSG00000116299 | KIAA1324 | 0.004493059 | 0.158836884 | -4.96924526 | 1.30E-06 |
| ENSG00000226476 | LINC01748 | 0.023603154 | 0.758554129 | -4.971898744 | 7.43E-15 |
| ENSG00000101265 | RASSF2 | 0.15962492 | 5.067816551 | -4.975875578 | 1.72E-20 |
| ENSG00000086289 | EPDR1 | 0.948342982 | 30.29012932 | -4.989965421 | 5.00E-23 |
| ENSG00000106366 | SERPINE1 | 0.130988874 | 4.237762643 | -4.993300625 | 7.83E-18 |
| ENSG00000182132 | KCNIP1 | 1.359180583 | 43.5608895 | -4.99601315 | 8.64E-24 |
| ENSG00000164867 | NOS3 | 0.119326837 | 3.849944304 | -4.996715918 | 7.80E-20 |
| ENSG00000214820 | MPRIPP1 | 0.038370478 | 1.397563036 | -5.01215909 | 9.27E-07 |
| ENSG00000139973 | SYT16 | 0.002742907 | 0.099904565 | -5.01215909 | 9.27E-07 |
| ENSG00000280435 | AC006058.4 | 0.150127368 | 4.985593224 | -5.019173222 | 3.97E-15 |
| ENSG00000135100 | HNF1A | 0.058173857 | 1.940803617 | -5.030016568 | 6.15E-16 |
| ENSG00000135919 | SERPINE2 | 0.272585327 | 8.961686772 | -5.03132379 | 3.67E-23 |
| ENSG00000065675 | PRKCQ | 0.063407361 | 2.146456228 | -5.04093061 | 2.39E-14 |
| ENSG00000182742 | HOXB4 | 0.645077494 | 21.36286337 | -5.041821326 | 3.12E-23 |
| ENSG00000173210 | ABLIM3 | 0.063617987 | 2.131282208 | -5.045259261 | 1.53E-18 |
| ENSG00000280623 | PCAT14 | 0.017017084 | 0.601581358 | -5.051541406 | 7.62E-10 |
| ENSG0000039139 | DNAH5 | 0.081161422 | 2.711599133 | -5.052014977 | 5.26E-22 |
| ENSG00000235142 | LINC02532 | 0.006190437 | 0.232105077 | -5.053833208 | 6.64E-07 |
| ENSG00000225706 | PTPRD-AS1 | 0.016754391 | 0.628191367 | -5.053833208 | 6.64E-07 |
| ENSG00000164690 | SHH | 0.058058387 | 1.972491678 | -5.056233702 | 4.30E-16 |
| ENSG00000259120 | SMIM6 | 0.269335318 | 9.150472445 | -5.056233702 | 4.30E-16 |
| ENSG00000234155 | LINC02535 | 0.099766297 | 3.420023644 | -5.064947627 | 2.15E-15 |
| ENSG00000146678 | IGFBP1 | 0.202228437 | 6.905381791 | -5.066694057 | 8.67E-17 |
| ENSG00000153707 | PTPRD | 0.108533638 | 3.692506523 | -5.077610352 | 6.16E-22 |
| ENSG00000147642 | SYBU | 0.101132213 | 3.460474833 | -5.081504862 | 2.12E-20 |
| ENSG00000119771 | KLHL29 | 0.064163369 | 2.211672632 | -5.092091148 | 1.81E-20 |
| ENSG00000268279 | AC090004.1 | 0.031299963 | 1.207095424 | -5.094337237 | 4.78E-07 |
| ENSG00000135318 | NT5E | 6.895106368 | 236.9789104 | -5.09824341 | 2.05E-25 |
| ENSG00000138685 | FGF2 | 0.135687073 | 4.691043039 | -5.098800789 | 2.52E-21 |

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| ENSG00000198758 | EPS8L3 | 0.048070694 | 1.712250567 | -5.105517734 | 1.42E-13 |
| ENSG00000125798 | FOXA2 | 0.064211219 | 2.287166816 | -5.105517734 | 1.42E-13 |
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| ENSG00000249923 | AC007663.2 | 0 | 0.261185182 | -6.761948676 | 0.000858 |
| ENSG00000232324 | AC008440.3 | 0 | 1.048505559 | -6.761948676 | 0.000858 |
| ENSG00000257403 | AC008740.1 | 0 | 2.282041512 | -6.761948676 | 0.000858 |
| ENSG00000272264 | AC009686.2 | 0 | 1.008527878 | -6.761948676 | 0.000858 |
| ENSG00000258976 | AC013451.2 | 0 | 0.811604722 | -6.761948676 | 0.000858 |
| ENSG00000272043 | AC016405.2 | 0 | 1.865130082 | -6.761948676 | 0.000858 |
| ENSG00000259275 | AC087477.2 | 0 | 0.109734223 | -6.761948676 | 0.000858 |
| ENSG00000253483 | AC104561.2 | 0 | 1.121234269 | -6.761948676 | 0.000858 |
| ENSG00000238181 | AHCYP2 | 0 | 0.44763122 | -6.761948676 | 0.000858 |
| ENSG00000229109 | AL137847.1 | 0 | 1.310631949 | -6.761948676 | 0.000858 |
| ENSG00000258592 | AL391152.1 | 0 | 0.36900481 | -6.761948676 | 0.000858 |
| ENSG00000232692 | AP001596.1 | 0 | 0.258976674 | -6.761948676 | 0.000858 |
| ENSG00000157343 | ARMC12 | 0 | 0.410381231 | -6.761948676 | 0.000858 |
| ENSG00000232237 | ASCL5 | 0 | 0.28722635 | -6.761948676 | 0.000858 |

| | | | | | |
|-----------------|------------|-------------|-------------|--------------|----------|
| ENSG00000229140 | CCDC26 | 0 | 0.01922751 | -6.761948676 | 0.000858 |
| ENSG00000170165 | CR848007.1 | 0 | 0.342507702 | -6.761948676 | 0.000858 |
| ENSG00000131386 | GALNT15 | 0 | 0.096777081 | -6.761948676 | 0.000858 |
| ENSG00000243694 | LINC02027 | 0 | 0.976376821 | -6.761948676 | 0.000858 |
| ENSG00000188095 | MESP2 | 0 | 0.326371613 | -6.761948676 | 0.000858 |
| ENSG00000266634 | MIR3972 | 0 | 6.688742362 | -6.761948676 | 0.000858 |
| ENSG00000223750 | SIRPB3P | 0 | 0.478553113 | -6.761948676 | 0.000858 |
| ENSG00000250366 | TUNAR | 0 | 0.167314717 | -6.761948676 | 0.000858 |
| ENSG00000107165 | TYRP1 | 0 | 0.155552148 | -6.761948676 | 0.000858 |
| ENSG00000261889 | AC108134.2 | 0 | 0.837812443 | -6.867914063 | 0.000517 |
| ENSG00000159625 | DRC7 | 0 | 0.121662533 | -6.867914063 | 0.000517 |
| ENSG00000162981 | FAM84A | 0 | 0.07474758 | -6.867914063 | 0.000517 |
| ENSG00000229951 | FLJ31356 | 0 | 0.208824961 | -6.867914063 | 0.000517 |
| ENSG00000112964 | GHR | 0 | 0.094808428 | -6.867914063 | 0.000517 |
| ENSG00000253819 | LINC01151 | 0 | 1.097519628 | -6.867914063 | 0.000517 |
| ENSG00000285373 | LINC02478 | 0 | 1.020657504 | -6.867914063 | 0.000517 |
| ENSG00000202111 | VTRNA1-2 | 0 | 7.041389971 | -6.867914063 | 0.000517 |
| ENSG00000176678 | FOXL1 | 0.033499827 | 4.186823273 | -6.900713064 | 4.48E-23 |
| ENSG00000272944 | AC079834.2 | 0 | 0.344508378 | -6.966626055 | 0.000315 |
| ENSG00000255202 | AL049629.1 | 0 | 1.036183379 | -6.966626055 | 0.000315 |
| ENSG00000237945 | LINC00649 | 0 | 0.046836414 | -6.966626055 | 0.000315 |
| ENSG00000105088 | OLFM2 | 0 | 0.268578732 | -6.966626055 | 0.000315 |
| ENSG00000223784 | LINP1 | 0.020294051 | 2.771878606 | -6.999544286 | 5.86E-21 |
| ENSG00000285755 | AC132153.1 | 0 | 0.362271093 | -7.059014353 | 0.000194 |
| ENSG00000273027 | AL844908.2 | 0 | 1.556978155 | -7.059014353 | 0.000194 |
| ENSG00000269028 | MTRNR2L12 | 0 | 0.682754958 | -7.059014353 | 0.000194 |
| ENSG00000112530 | PACRG | 0 | 0.274199828 | -7.059014353 | 0.000194 |
| ENSG00000151812 | SLC35F4 | 0 | 0.168917441 | -7.059014353 | 0.000194 |
| ENSG00000172985 | SH3RF3 | 0.007200664 | 1.103071935 | -7.080665958 | 9.41E-17 |
| ENSG00000253858 | AC008619.1 | 0 | 1.342104186 | -7.145840624 | 0.00012 |
| ENSG00000257346 | AC011603.1 | 0 | 0.907000087 | -7.145840624 | 0.00012 |
| ENSG00000274307 | AC023449.2 | 0 | 0.317072114 | -7.145840624 | 0.00012 |
| ENSG00000267737 | AC087645.2 | 0 | 0.664605304 | -7.145840624 | 0.00012 |
| ENSG00000285108 | AC103718.1 | 0 | 0.070933359 | -7.145840624 | 0.00012 |
| ENSG00000273443 | AL645608.8 | 0 | 0.917940981 | -7.145840624 | 0.00012 |
| ENSG00000231701 | BMS1P13 | 0 | 0.85985658 | -7.145840624 | 0.00012 |
| ENSG00000171450 | CDK5R2 | 0 | 0.303418291 | -7.145840624 | 0.00012 |
| ENSG00000243710 | CFAP57 | 0 | 0.132021699 | -7.145840624 | 0.00012 |
| ENSG00000175229 | GAL3ST3 | 0 | 0.306720304 | -7.145840624 | 0.00012 |
| ENSG00000276404 | MIR6835 | 0 | 11.89020427 | -7.145840624 | 0.00012 |
| ENSG00000187642 | PERM1 | 0 | 0.222246809 | -7.145840624 | 0.00012 |
| ENSG00000118094 | TREH | 0 | 0.2391493 | -7.145840624 | 0.00012 |
| ENSG00000261220 | AC103706.1 | 0 | 1.186651245 | -7.227736708 | 7.55E-05 |

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|-----------------|--------------|-------------|-------------|--------------|----------|
| ENSG00000243885 | AC108751.4 | 0 | 0.804931264 | -7.227736708 | 7.55E-05 |
| ENSG00000225472 | AL136366.1 | 0 | 0.764455593 | -7.227736708 | 7.55E-05 |
| ENSG00000230021 | AL669831.3 | 0 | 0.146630791 | -7.227736708 | 7.55E-05 |
| ENSG00000258474 | LINC02313 | 0 | 1.464974901 | -7.227736708 | 7.55E-05 |
| ENSG00000065618 | COL17A1 | 0 | 0.120365032 | -7.305232542 | 3.05E-05 |
| ENSG00000124915 | DKFZP434K028 | 0 | 0.294392287 | -7.305232542 | 3.05E-05 |
| ENSG00000245888 | FLJ21408 | 0 | 0.260410079 | -7.305232542 | 3.05E-05 |
| ENSG00000167083 | GNGT2 | 0 | 0.503551994 | -7.305232542 | 3.05E-05 |
| ENSG00000091128 | LAMB4 | 0 | 0.121222822 | -7.305232542 | 3.05E-05 |
| ENSG00000197251 | LINC00336 | 0 | 0.403654161 | -7.305232542 | 3.05E-05 |
| ENSG00000168631 | MUCL3 | 0 | 0.14968309 | -7.305232542 | 3.05E-05 |
| ENSG00000169297 | NR0B1 | 0 | 0.386064148 | -7.305232542 | 3.05E-05 |
| ENSG00000279390 | AF127577.6 | 0 | 0.408609055 | -7.378776962 | 1.96E-05 |
| ENSG00000259030 | FPGT-TNNI3K | 0 | 0.090467102 | -7.378776962 | 1.96E-05 |
| ENSG00000204897 | KRT25 | 0 | 0.536085293 | -7.378776962 | 1.96E-05 |
| ENSG00000089012 | SIRPG | 0 | 0.399314201 | -7.378776962 | 1.96E-05 |
| ENSG00000162520 | SYNC | 0 | 0.256742885 | -7.378776962 | 1.96E-05 |
| ENSG00000253771 | TPTE2P1 | 0 | 0.236217002 | -7.378776962 | 1.96E-05 |
| ENSG00000160886 | LY6K | 0.020639887 | 3.692487709 | -7.388733428 | 1.50E-23 |
| ENSG00000263096 | AC007638.2 | 0 | 0.540244575 | -7.448753447 | 1.27E-05 |
| ENSG00000197550 | AL359955.1 | 0 | 0.287030706 | -7.448753447 | 1.27E-05 |
| ENSG00000107611 | CUBN | 0 | 0.070838399 | -7.448753447 | 1.27E-05 |
| ENSG00000186529 | CYP4F3 | 0 | 0.170387087 | -7.448753447 | 1.27E-05 |
| ENSG00000102359 | SRPX2 | 0 | 0.124539687 | -7.448753447 | 1.27E-05 |
| ENSG00000172137 | CALB2 | 0.024536377 | 5.07297859 | -7.512935906 | 1.98E-19 |
| ENSG00000236098 | AC097059.2 | 0 | 1.663494397 | -7.515492229 | 8.28E-06 |
| ENSG00000198074 | AKR1B10 | 0 | 0.56467241 | -7.515492229 | 8.28E-06 |
| ENSG00000231995 | AL590399.4 | 0 | 1.638583499 | -7.515492229 | 8.28E-06 |
| ENSG00000248409 | AP000344.2 | 0 | 0.81929175 | -7.515492229 | 8.28E-06 |
| ENSG00000245857 | GS1-24F4.2 | 0 | 0.687221691 | -7.515492229 | 8.28E-06 |
| ENSG00000254363 | AC011379.2 | 0 | 0.167679447 | -7.579279713 | 5.45E-06 |
| ENSG00000259347 | AC087482.1 | 0 | 0.291245207 | -7.579279713 | 5.45E-06 |
| ENSG00000140945 | CDH13 | 0 | 0.09203109 | -7.579279713 | 5.45E-06 |
| ENSG00000143226 | FCGR2A | 0 | 0.193743283 | -7.579279713 | 5.45E-06 |
| ENSG00000223764 | LINC02593 | 0 | 0.247965271 | -7.579279713 | 5.45E-06 |
| ENSG00000225383 | SFTA1P | 0 | 1.249456074 | -7.579279713 | 5.45E-06 |
| ENSG00000257178 | AC103702.1 | 0 | 0.408484763 | -7.640365902 | 3.61E-06 |
| ENSG00000168070 | MAJIN | 0 | 0.466890451 | -7.640365902 | 3.61E-06 |
| ENSG00000189068 | VSTM1 | 0 | 0.764636959 | -7.640365902 | 3.61E-06 |
| ENSG00000260834 | AC009055.2 | 0 | 0.764397574 | -7.698970325 | 2.40E-06 |
| ENSG00000271590 | AC108463.3 | 0 | 0.785317929 | -7.755286786 | 1.61E-06 |
| ENSG00000273102 | AP000569.1 | 0 | 1.969274401 | -7.755286786 | 1.61E-06 |
| ENSG00000196188 | CTSE | 0 | 0.435732374 | -7.755286786 | 1.61E-06 |

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|-----------------|------------|-------------|-------------|--------------|----------|
| ENSG00000229028 | KRT22P | 0 | 0.708858823 | -7.809487241 | 1.09E-06 |
| ENSG00000149256 | TENM4 | 0 | 0.074011286 | -7.809487241 | 1.09E-06 |
| ENSG00000257126 | FOXG1-AS1 | 0 | 1.434058827 | -7.861724961 | 7.40E-07 |
| ENSG00000231249 | ITPR1-DT | 0 | 1.460801183 | -7.861724961 | 7.40E-07 |
| ENSG00000169554 | ZEB2 | 0 | 0.050018653 | -7.861724961 | 7.40E-07 |
| ENSG00000231013 | AC013275.1 | 0 | 0.621412416 | -7.912137143 | 5.06E-07 |
| ENSG00000284648 | AC097493.4 | 0 | 5.927536698 | -7.912137143 | 5.06E-07 |
| ENSG00000197614 | MFAP5 | 0 | 0.358012585 | -8.007965993 | 2.40E-07 |
| ENSG00000141293 | SKAP1 | 0 | 0.52403957 | -8.007965993 | 2.40E-07 |
| ENSG00000283196 | AC006453.2 | 0 | 0.593380241 | -8.053594531 | 1.67E-07 |
| ENSG00000257849 | AC012038.2 | 0 | 5.77024619 | -8.097824095 | 1.17E-07 |
| ENSG00000159387 | IRX6 | 0 | 0.434593417 | -8.097824095 | 1.17E-07 |
| ENSG00000242759 | LINC00882 | 0 | 0.380521129 | -8.097824095 | 1.17E-07 |
| ENSG00000187783 | TMEM72 | 0 | 0.467907198 | -8.097824095 | 1.17E-07 |
| ENSG00000137968 | SLC44A5 | 0 | 0.241617105 | -8.140737924 | 8.20E-08 |
| ENSG00000149654 | CDH22 | 0 | 0.3178554 | -8.182412043 | 5.79E-08 |
| ENSG00000227764 | LINC01693 | 0 | 1.301253545 | -8.182412043 | 5.79E-08 |
| ENSG00000258947 | TUBB3 | 0 | 0.363763519 | -8.222916071 | 4.11E-08 |
| ENSG00000149596 | JPH2 | 0 | 0.293750927 | -8.338021803 | 1.51E-08 |
| ENSG00000092096 | SLC22A17 | 0 | 0.408078952 | -8.338021803 | 1.51E-08 |
| ENSG00000012124 | CD22 | 0.006784454 | 2.492896709 | -8.342148618 | 7.08E-25 |
| ENSG00000105695 | MAG | 0 | 0.605520757 | -8.374436214 | 1.09E-08 |
| ENSG00000247809 | NR2F2-AS1 | 0 | 0.302702952 | -8.409954089 | 7.89E-09 |
| ENSG00000162722 | TRIM58 | 0 | 0.610721664 | -8.511544476 | 3.09E-09 |
| ENSG00000167644 | C19orf33 | 0 | 3.264733368 | -8.543878103 | 2.27E-09 |
| ENSG00000212479 | RF00012 | 0 | 9.785426661 | -8.606449358 | 1.25E-09 |
| ENSG00000258586 | LINC02274 | 0 | 2.020822371 | -8.779361865 | 1.70E-10 |
| ENSG00000233559 | LINC00513 | 0 | 1.551197296 | -8.858620425 | 7.60E-11 |
| ENSG00000230699 | AL645608.2 | 0 | 0.853191283 | -8.909139326 | 4.50E-11 |
| ENSG00000230148 | HOXB-AS1 | 0 | 1.751475587 | -8.981748074 | 2.09E-11 |
| ENSG00000154319 | FAM167A | 0 | 0.582026408 | -9.095188655 | 6.14E-12 |
| ENSG00000080031 | PTPRH | 0 | 0.690407268 | -9.116844355 | 4.84E-12 |
| ENSG00000267365 | KCNJ2-AS1 | 0 | 1.246475141 | -9.138179791 | 3.82E-12 |
| ENSG00000139915 | MDGA2 | 0 | 0.536949612 | -9.589187316 | 1.63E-14 |
| ENSG00000107242 | PIP5K1B | 0 | 0.86468007 | -9.619844681 | 1.12E-14 |
| ENSG00000157005 | SST | 0 | 14.70374395 | -10.71434913 | 3.34E-21 |

Table S7: MeRIP-seq shows the changes of m6A peak in PEG10 mRNA after ALKBH5 knockdown

| MeRIP-seq | Value |
|---------------------------|-----------------|
| Overlap_Symbol | PEG10 |
| Overlap_Gene | ENSG00000242265 |
| Chromosome | 7 |
| Peak Start | 94668005 |
| Peak End | 94668181 |
| Summit Positon | 94668085 |
| RPM_ALKBH5_shRNA_NC_input | 2.24046 |
| RPM_ALKBH5_shRNA_NC_IP | 2.91276 |
| RPM_ALKBH5_shRNA_input | 8.2782 |
| RPM_ALKBH5_shRNA_IP | 15.709 |
| Fold Enrich shRNA NC | 1.300072307 |
| Fold Enrich shRNA | 1.897634752 |
| fold change(Log2) | -0.545610471 |
| Overlap Begin | UTR3 |
| Overlap Center | UTR3 |
| Overlap End | UTR3 |

Table S8: Data of Flag-IGF2BP1 CoIP-MS.

| Accession | Protein ID | Score |
|------------|------------|-------------|
| Q9NZI8 | IGF2BP1 | 266227343.7 |
| P68133 | ACTA1 | 211029463.4 |
| P08670 | VIM | 187443931.4 |
| Q5EBM2 | - | 142157104.2 |
| Q96A32 | MYLPF | 132470701.8 |
| P02533 | KRT14 | 119135780.8 |
| A0A0S2Z4G6 | TPM1 | 92864850.08 |
| P13647 | KRT5 | 79768120.41 |
| P05976 | MYL1 | 77303131.61 |
| B2R892 | - | 70799899.93 |
| P11940 | PABPC1 | 59442062.85 |
| S6B294 | - | 58672703.4 |
| J3KPS3 | ALDOA | 57793514 |
| P13929 | ENO3 | 50718530.12 |
| Q53G85 | - | 37755230.82 |
| Q549M8 | C14orf166 | 29071237.72 |
| B4DN72 | - | 26939263.03 |
| P04406 | GAPDH | 25613319.8 |

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|------------|-----------|-------------|
| B2R853 | - | 24152144.44 |
| Q04695 | KRT17 | 22415461.59 |
| P16402 | HIST1H1D | 21305724.07 |
| F5H5D3 | TUBA1C | 20493315.56 |
| A0A024R9D2 | MTDH | 20062772.39 |
| P12882 | MYH1 | 19989743.88 |
| C9JZN9 | TNNT3 | 19774522.96 |
| Q15323 | KRT31 | 18556285.34 |
| V9HW22 | HEL-S-72p | 18474943.52 |
| P04259 | KRT6B | 18437271.91 |
| A0A384N5Z8 | - | 18049642.17 |
| A0A024R5Z9 | PKM2 | 17174833.47 |
| Q09161 | NCBP1 | 16894500.9 |
| B4DPP6 | - | 16742896.2 |
| P60709 | ACTB | 16271137.88 |
| P42166 | TMPO | 15687785.8 |
| P07951 | TPM2 | 15385285.92 |
| J3KTL2 | SRSF1 | 14298171.06 |
| Q59F66 | - | 14064518.31 |
| P68371 | TUBB4B | 12912778.92 |
| A8K6N9 | - | 12856563.55 |
| P67809 | YBX1 | 12437537.6 |
| A0A0S2Z4Z0 | RBM14 | 11568074.17 |
| P00338 | LDHA | 11508668 |
| A0A075B6S5 | IGKV1-27 | 11321483.7 |
| P22626 | HNRNPA2B1 | 10907405.88 |
| Q6IQ30 | PABPC4 | 10644704.99 |
| P26368 | U2AF2 | 10140088.4 |
| A0A3B3ITK7 | PGM1 | 9923664.141 |
| A0A0S2Z4Z9 | NONO | 9693852.434 |
| Q9Y2W1 | THRAP3 | 9638929.275 |
| A0A024RD80 | HSP90AB1 | 9470380.404 |
| P60174 | TPI1 | 9153859.864 |
| A0A0M4FEM1 | PYGM | 8744292.26 |
| B2RDW1 | RPS27A | 8378415.171 |
| P15924 | DSP | 8318307.582 |
| V9HWB4 | HEL-S-89n | 8229882.382 |
| P27694 | RPA1 | 8217233.703 |
| Q5T9B7 | AK1 | 8187904.127 |
| P19474 | TRIM21 | 7928308.633 |
| D3GKD9 | HBG2 | 7756099.743 |
| P81605 | DCD | 7658490.769 |
| P04792 | HSPB1 | 7205952.241 |
| A0A024RDE5 | G3BP2 | 7041190.337 |

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|------------|-----------|-------------|
| B2R491 | RPS4X | 6970370.529 |
| B2R8Y4 | - | 6963600.217 |
| Q8WWM7 | ATXN2L | 6894786.825 |
| B4DUQ1 | - | 6693627.74 |
| J3QQ67 | RPL18 | 6561300.219 |
| A6XMV9 | PRSS2 | 6442642.161 |
| Q13344 | - | 6404849.481 |
| P02585 | TNNC2 | 6383729.849 |
| P23396 | RPS3 | 5950562.764 |
| P26373 | RPL13 | 5945875.001 |
| P15259 | PGAM2 | 5869078.251 |
| Q12906 | ILF3 | 5403550.144 |
| A0A0F7KYT8 | FXR1 | 5384325.722 |
| Q9HBB3 | - | 5191525.952 |
| B7Z2B0 | - | 5073516.183 |
| B2R6F3 | SFRS3 | 4839077.007 |
| F8W930 | IGF2BP2 | 4753011.841 |
| Q8WVJ2 | NUCD2 | 4735683.197 |
| A8MUS3 | RPL23A | 4728429.057 |
| A0A087X0X3 | HNRNPM | 4700735.256 |
| A0A2U3TZU2 | GPI | 4681294.858 |
| A0A024R6W2 | NUDT21 | 4495515.997 |
| Q02413 | DSG1 | 4273103.208 |
| Q9UKX2 | MYH2 | 4111078.03 |
| P07437 | TUBB | 4110505.245 |
| V9HW31 | HEL-S-271 | 3962163.448 |
| P12956 | XRCC6 | 3875685.349 |
| Q9HCE1 | MOV10 | 3873705.3 |
| Q8IVF2 | AHNAK2 | 3823075.892 |
| V9HWF4 | HEL-S-68p | 3822906.267 |
| Q9NYF8 | BCLAF1 | 3766240.203 |
| Q15717 | ELAVL1 | 3717293.412 |
| A0A024R825 | CA3 | 3658595.81 |
| A8MXP9 | MATR3 | 3655031.113 |
| Q6PKG0 | LARP1 | 3625335.919 |
| Q9Y3I0 | RTCB | 3586710.481 |
| Q7Z417 | NUFIP2 | 3577377.406 |
| A0A0U1RRH7 | - | 3516156.356 |
| H0Y8C2 | RPL22L1 | 3419346.965 |
| P50914 | RPL14 | 3408642.326 |
| C8C504 | HBB | 3329009.1 |
| Q5JR94 | RPS8 | 3292656.077 |
| Q16629 | SRSF7 | 3275236.01 |
| Q8N1C8 | HSPA9 | 3256014.028 |

| | | |
|------------|----------------|-------------|
| A0A1K0GXZ1 | GLNC1 | 3210026.097 |
| P62917 | RPL8 | 3205721.185 |
| P62891 | RPL39 | 3193124.215 |
| P46776 | RPL27A | 3180937.286 |
| P51991 | HNRNPA3 | 3161771.351 |
| B2R4P2 | - | 3076058.862 |
| A3RJH1 | DDX1 | 3061985.322 |
| F8W8D3 | SLBP | 3010291.412 |
| Q8N1N4 | KRT78 | 2973646.6 |
| P62263 | RPS14 | 2967480.481 |
| Q6NVC0 | SLC25A5 | 2962614.163 |
| A0A024RAZ7 | HNRPA1 | 2925236.844 |
| P62424 | RPL7A | 2918015.084 |
| O00425 | IGF2BP3 | 2912089.876 |
| A8K4W0 | RPS3A | 2860216.736 |
| P62280 | RPS11 | 2797227.404 |
| B2R4R0 | HIST1H4L | 2795149.322 |
| A2A3R6 | RPS6 | 2784259.796 |
| A0A024R4A0 | NCL | 2723530.695 |
| Q14444 | CAPRIN1 | 2719497.083 |
| A0A0D9SF53 | DDX3X | 2653067.355 |
| Q5EB52 | MEST | 2621100.255 |
| P41219 | PRPH | 2620886.881 |
| A0A024R4M0 | RPS9 | 2605327.184 |
| P15880 | RPS2 | 2516321.427 |
| A0A2R8Y5Y7 | RPL9 | 2440208.032 |
| P50454 | SERPINH1 | 2413250.212 |
| A0A024R7L8 | UPF1 | 2412372.533 |
| A0A3B3ITT5 | RPL29 | 2391324.182 |
| A0A024QZE0 | TDRD3 | 2375337.433 |
| P39023 | RPL3 | 2360007.288 |
| G8JLB6 | HNRNPH1 | 2349594.916 |
| A0A0U1RRM4 | PTBP1 | 2338757.383 |
| Q59FI9 | - | 2314581.064 |
| P07355 | ANXA2 | 2269903.422 |
| B4E3P1 | - | 2253388.716 |
| A0A384N6B9 | - | 2245253.526 |
| B2R7W4 | - | 2195282.568 |
| Q17RB8 | LONRF1 | 2145836.727 |
| Q14525 | KRT33B | 2112265.36 |
| P62913 | RPL11 | 2077118.125 |
| A0A0A6YYL6 | RPL17-C18orf32 | 2062246.102 |
| P84098 | RPL19 | 2035692.714 |
| Q00325 | SLC25A3 | 2032788.564 |

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| A0A384MQX1 | - | 2027170.665 |
| A8K588 | - | 1992115.717 |
| A0A087X1N7 | NEB | 1980532.457 |
| P78385 | KRT83 | 1968077.288 |
| Q08554 | DSC1 | 1913876.805 |
| M0QYS1 | RPL13A | 1908277.678 |
| Q08211 | DHX9 | 1890553.053 |
| B5BUE6 | DDX5 | 1843580.488 |
| A0A024R1X8 | JUP | 1807076.761 |
| Q00839 | HNRNPU | 1799665.894 |
| Q12905 | ILF2 | 1793075.336 |
| A8K9U0 | - | 1789866.996 |
| P38159 | RBMX | 1769000.497 |
| Q01844 | EWSR1 | 1766183.31 |
| A0A384N6C7 | - | 1751123.754 |
| Q9NUD5 | ZCCHC3 | 1741898.9 |
| E9PB61 | ALYREF | 1738034.06 |
| P02511 | CRYAB | 1696019.809 |
| A0A384NPX1 | - | 1652722.821 |
| K7EL05 | HKR1 | 1587345.903 |
| A0A2R8Y6G6 | ENO1 | 1584422.691 |
| A8K7N0 | - | 1533225.133 |
| A0A1U9X972 | - | 1523286.318 |
| A0A024R2Q4 | RPL15 | 1518192.303 |
| Q5TEC6 | HIST2H3PS2 | 1458480.152 |
| Q59HH7 | - | 1452521.995 |
| A8K6U7 | - | 1439395.26 |
| B7Z3K9 | - | 1438590.296 |
| Q5T749 | KPRP | 1436808.367 |
| A8K4Z4 | - | 1436135.056 |
| Q0IIN1 | KRT77 | 1422864.944 |
| Q9UNX3 | RPL26L1 | 1404413.221 |
| A8K3B0 | - | 1381232.032 |
| Q8NCA5 | FAM98A | 1360074.571 |
| A0A161I202 | LTF | 1357402.555 |
| Q9NZB2 | FAM120A | 1338453.506 |
| P25705 | ATP5F1A | 1326072.534 |
| Q8N684 | CPSF7 | 1303508.038 |
| P62081 | RPS7 | 1290775.282 |
| P78386 | KRT85 | 1256959.2 |
| Q16630 | CPSF6 | 1251646.388 |
| K7ELG9 | LSM12 | 1242140.512 |
| P42766 | RPL35 | 1222519.566 |
| Q9NR12 | PDLIM7 | 1199068.124 |

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| A0A024R8A7 | hCG_31253 | 1166452.923 |
| P35609 | ACTN2 | 1148817.022 |
| Q59GY2 | - | 1139038.078 |
| Q5D862 | FLG2 | 1136327.536 |
| M0R0R2 | RPS5 | 1128752.376 |
| Q32P45 | G3BP1 | 1107033.414 |
| A8K9A4 | - | 1061526.651 |
| P62906 | RPL10A | 1052986.21 |
| Q96HU8 | DIRAS2 | 1037919.863 |
| K9JA46 | EL52 | 1009338.145 |
| B7Z4C8 | RPL31 | 1009126.095 |
| Q9Y5A9 | YTHDF2 | 991193.0854 |
| K7ELC7 | RPL27 | 990617.0469 |
| Q92522 | H1FX | 968838.9857 |
| A0A087WXS0 | TNNI2 | 946549.9415 |
| A0A1U9X8X6 | - | 943594.6581 |
| M1VPP4 | TPM3-ROS1 | 904211.9847 |
| Q01130 | SRSF2 | 897102.8224 |
| P60866 | RPS20 | 891192.8107 |
| A0A024R814 | RPL7 | 888404.4412 |
| A8K5C4 | - | 886716.6079 |
| H0YKD8 | RPL28 | 884847.3488 |
| Q14324 | MYBPC2 | 870329.4881 |
| Q5JSZ5 | PRRC2B | 848568.384 |
| Q5T9A4 | ATAD3B | 843802.6642 |
| P00441 | SOD1 | 837009.0861 |
| Q9UBB4 | ATXN10 | 826544.9665 |
| Q86YZ3 | HRNR | 824249.0624 |
| P62851 | RPS25 | 802049.5771 |
| A8K7H3 | - | 800527.9863 |
| P49916 | LIG3 | 780251.3667 |
| B2R7B5 | - | 779616.1956 |
| Q9Y4C2 | TCAF1 | 767631.7698 |
| Q86TD4 | SRL | 764950.2971 |
| Q9BRZ2 | TRIM56 | 748859.0723 |
| B3KTJ9 | - | 746117.0275 |
| Q5SSJ5 | HP1BP3 | 744884.024 |
| B2R8Z8 | - | 737468.6507 |
| Q53F64 | - | 737360.8436 |
| P35030 | PRSS3 | 737221.7402 |
| P23284 | PPIB | 718017.1236 |
| P13010 | XRCC5 | 712027.6962 |
| P10599 | TXN | 707474.0529 |
| Q86TJ2 | TADA2B | 688545.8099 |

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| Q6KB66 | KRT80 | 675960.2916 |
| P62277 | RPS13 | 664672.8484 |
| A0A024R3X4 | HSPD1 | 659031.5024 |
| A0A2R8Y891 | PFKM | 644191.6406 |
| Q9Y520 | PRRC2C | 642582.0546 |
| P05109 | S100A8 | 638691.5155 |
| Q96P63 | SERPINB12 | 636398.7746 |
| Q71RC2 | LARP4 | 634124.5223 |
| P63244 | RACK1 | 627804.8307 |
| B2R4C0 | - | 627467.0265 |
| A0A087WUZ3 | SPTBN1 | 623288.6553 |
| Q01469 | FABP5 | 620377.4244 |
| P13535 | MYH8 | 618266.006 |
| A0A024R3T8 | PARP1 | 611948.9999 |
| P50402 | EMD | 603695.0035 |
| A0A024RDB2 | G3BP2 | 603506.1151 |
| P13639 | EEF2 | 601660.1217 |
| V9HW01 | HEL-S-310 | 595390.7186 |
| G9K388 | YWHAE/FAM22 | 582553.6805 |
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| Q9BYJ9 | YTHDF1 | 577019.5284 |
| Q86TB9 | PATL1 | 566924.774 |
| O76009 | KRT33A | 561154.9633 |
| A0A0X9SZU9 | - | 559017.4388 |
| O94916 | NFAT5 | 557489.8572 |
| O75494 | SRSF10 | 544371.4361 |
| E5KSU5 | TFAM | 536902.34 |
| Q549N0 | CFL2 | 536882.9735 |
| B2R6C0 | - | 533012.5562 |
| A0A024R2Q5 | MYL3 | 526888.6475 |
| A0A024RDR0 | HMGB1 | 518835.3143 |
| E9PAV3 | NACA | 518270.5342 |
| Q1KMD3 | HNRNPU2 | 516732.5205 |
| A8K6H6 | - | 504749.2502 |
| Q7Z4S6 | KIF21A | 491593.0902 |
| Q59EJ3 | - | 490159.7075 |
| H3BNC9 | - | 489679.3396 |
| Q08188 | TGM3 | 486682.4956 |
| B2R7E8 | - | 481601.9145 |
| P52597 | HNRNPF | 470903.8857 |
| Q9BXP5 | SRRT | 466772.7172 |
| A0A140VK53 | - | 455027.4101 |
| A8KAN5 | - | 454429.4615 |
| A0A024QZ86 | TBX2 | 451761.3195 |

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| Q9Y3U8 | RPL36 | 449875.9474 |
| Q9BX40 | LSM14B | 431693.5746 |
| Q9Y623 | MYH4 | 420080.3344 |
| V9HVY3 | HEL-S-269 | 414816.9718 |
| Q13895 | BYSL | 408596.7985 |
| Q9NQ39 | RPS10P5 | 406289.4681 |
| Q9BUF5 | TUBB6 | 403951.2545 |
| Q969X5 | ERGIC1 | 391915.1781 |
| Q7Z6E5 | DKFZp779G2251 | 391823.2516 |
| A8K486 | - | 364293.8344 |
| B4DR52 | - | 360273.9203 |
| P29508 | SERPINB3 | 354106.3594 |
| A0A024R7X7 | STAU2 | 344728.2899 |
| A0A140VK00 | - | 343421.2675 |
| R4GMX3 | COMMD3-BMI1 | 338954.4122 |
| A0A0U1RQQ9 | SCYL2 | 338531.6276 |
| A0A024RAD5 | DDOST | 330651.9994 |
| Q96HS1 | PGAM5 | 326538.1834 |
| P61626 | LYZ | 326012.3945 |
| A0A024R4K3 | MDH2 | 314923.3164 |
| P01040 | CSTA | 308206.2492 |
| B2CIS9 | CASP14 | 307927.7066 |
| Q9NX05 | FAM120C | 301319.4212 |
| A8KAF9 | RP11-311P8.3 | 299002.0783 |
| P20930 | FLG | 290050.8604 |
| Q9C0J8 | WDR33 | 278998.4496 |
| Q15365 | PCBP1 | 274258.2678 |
| P51116 | FXR2 | 273548.174 |
| P26641 | EEF1G | 273303.0322 |
| Q9P0L0 | VAPA | 271234.7109 |
| Q13151 | HNRNPA0 | 265868.3182 |
| Q9UKV3 | ACIN1 | 252498.7905 |
| P07305 | H1F0 | 246412.5046 |
| P42677 | RPS27 | 240090.9022 |
| P62829 | RPL23 | 236837.6064 |
| Q9BYE4 | SPRR2G | 236675.4438 |
| A0A3F2YNY6 | PRPF40A | 236047.7353 |
| P62269 | RPS18 | 235165.7828 |
| O14893 | GEMIN2 | 226861.0976 |
| V9GYM8 | ARHGEF2 | 224731.5263 |
| Q86US8 | SMG6 | 219533.5387 |
| B4DWA6 | - | 217393.5417 |
| G3V1L9 | TJP1 | 215577.8376 |
| Q96GA3 | LTV1 | 207389.2485 |

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| Q13242 | SRSF9 | 204784.0412 |
| P04843 | RPN1 | 192853.6868 |
| Q59H77 | - | 189398.6561 |
| A5YM43 | PHC3 | 188805.1102 |
| D9HTE9 | SLC25A1 | 184631.3999 |
| Q562T9 | ACT | 182777.1821 |
| Q9UHX1 | PUF60 | 182776.9239 |
| Q9UPQ9 | TNRC6B | 180560.7066 |
| Q9HA47 | UCK1 | 179319.4272 |
| A0A024RDF3 | HNRPD | 177309.6186 |
| Q9Y3Z3 | SAMHD1 | 175975.3281 |
| Q9NP98 | MYOZ1 | 167722.2484 |
| P38919 | EIF4A3 | 167078.4785 |
| Q6UN15 | FIP1L1 | 167043.8899 |
| D3DTX6 | PPP1R9B | 166853.3618 |
| Q59F99 | - | 166237.6734 |
| E5KNY5 | LRPPRC | 165192.1123 |
| B2R8R5 | - | 158119.2945 |
| Q8WVX7 | - | 156200.5603 |
| A0A024R4E2 | TARDBP | 155239.8892 |
| A0A0A0MTI1 | DHCR24 | 149577.0722 |
| Q00688 | FKBP3 | 141014.4376 |
| A0A0J9YX62 | DNAJB6 | 137946.712 |
| Q00577 | PURA | 134776.3696 |
| Q8TB72 | PUM2 | 134265.351 |
| A8K9U6 | - | 132186.3522 |
| A0A024R572 | SF1 | 129026.4935 |
| Q13595 | TRA2A | 119607.9866 |
| B5BUB5 | SSB | 115079.1197 |
| Q53GL6 | RALY | 109504.33 |
| F6VRR5 | POLDIP3 | 107162.0301 |
| B5BU08 | U2AF1 | 102486.8457 |
| P35580 | MYH10 | 99851.772 |
| Q96QD9 | FYTTD1 | 98168.36074 |
| B2RNR6 | ZFR | 97754.83332 |
| O75533 | SF3B1 | 97278.16451 |
| Q96QR8 | PURB | 94598.40897 |
| Q14011 | CIRBP | 92811.08328 |
| B2RDP6 | - | 88403.36698 |
| Q5W009 | RBM17 | 83845.8698 |
| Q5VW26 | NFIB | 82321.67092 |
| Q06787 | FMR1 | 81402.88321 |
| B3KMV8 | - | 80633.27601 |
| D9IAI1 | HEL-S-34 | 80527.40555 |

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| Q96T37 | RBM15 | 77591.88249 |
| A8K4Z6 | - | 69558.68407 |
| B0AZQ4 | - | 58375.64593 |
| Q9P2N5 | RBM27 | 56815.15414 |
| P35998 | PSMC2 | 54813.48597 |
| Q53F19 | NCBP3 | 50890.36262 |
| A8K4B4 | - | 44204.53683 |
| B2RBA6 | MCM7 | 37622.72223 |
| A0A024R1C2 | TOP3B | 35669.61896 |
| Q8IUH3 | RBM45 | 14515.95952 |
| Q99700 | ATXN2 | 13829.56875 |
| Q6PJY4 | THRAP3 | 2494.25004 |

Table S9: CUT&Tag-seq detection of DNA sequences binding to PEG10 protein (cell cycle regulation related genes only)

| Chr | Start | End | Summit | Annotation | Fold enrichment | X.log10.qvalue. | SYMBOL |
|-------|-----------|-----------|-----------|------------------|-----------------|-----------------|------------|
| chr1 | 1721406 | 1721683 | 1721430 | Promoter (<=1kb) | 8.79979 | 38.51482 | CDK11A |
| chr17 | 39461727 | 39461961 | 39461902 | Promoter (<=1kb) | 7.66519 | 24.49354 | CDK12 |
| chr7 | 39949429 | 39950651 | 39949741 | Promoter (<=1kb) | 7.80525 | 45.04142 | CDK13 |
| chr7 | 90824279 | 90824500 | 90824312 | Promoter (<=1kb) | 5.05992 | 14.79867 | CDK14 |
| chrX | 47217901 | 47218779 | 47218401 | Promoter (<=1kb) | 7.36808 | 66.61408 | CDK16 |
| chr12 | 96400036 | 96400451 | 96400320 | Promoter (<=1kb) | 9.87958 | 37.26735 | CDK17 |
| chr1 | 205528697 | 205529090 | 205528918 | Promoter (<=1kb) | 5.6819 | 20.32988 | CDK18 |
| chr6 | 110815423 | 110816203 | 110815693 | Promoter (<=1kb) | 14.51497 | 138.57053 | CDK19 |
| chr12 | 55967861 | 55968128 | 55967924 | Promoter (<=1kb) | 4.44028 | 10.51722 | CDK2 |
| chr9 | 87973894 | 87974812 | 87974220 | Promoter (<=1kb) | 7.56146 | 35.6978 | CDK20 |
| chr12 | 123267294 | 123267607 | 123267436 | Promoter (<=1kb) | 4.70187 | 19.94539 | CDK2AP1 |
| chr11 | 67507798 | 67509150 | 67508440 | Promoter (<=1kb) | 7.8708 | 108.60513 | CDK2AP2 |
| chr17 | 76000610 | 76000875 | 76000835 | Promoter (<=1kb) | 5.00609 | 21.9453 | CDK3 |
| chr12 | 57751200 | 57752785 | 57752542 | Promoter (<=1kb) | 7.28541 | 34.6412 | CDK4 |
| chr7 | 151054878 | 151055366 | 151054960 | Promoter (<=1kb) | 3.85937 | 14.90605 | CDK5 |
| chr17 | 32486259 | 32486810 | 32486545 | Promoter (<=1kb) | 6.7271 | 21.52808 | CDK5R1 |
| chr20 | 33402016 | 33402414 | 33402066 | Promoter (<=1kb) | 4.76945 | 10.44488 | CDK5RAP1 |
| chr9 | 120448618 | 120448976 | 120448741 | Promoter (<=1kb) | 12.77532 | 56.04292 | CDK5RAP2 |
| chr17 | 47982055 | 47982595 | 47982323 | Promoter (<=1kb) | 10.6041 | 46.48113 | CDK5RAP3 |
| chr7 | 92834965 | 92835188 | 92834990 | Promoter (<=1kb) | 5.95184 | 25.94629 | CDK6 |
| chr5 | 69234513 | 69234943 | 69234903 | Promoter (<=1kb) | 5.06541 | 12.80028 | CDK7 |
| chr9 | 127788974 | 127789351 | 127789059 | Promoter (<=1kb) | 5.92928 | 25.45385 | CDK9 |
| chr14 | 50340878 | 50341115 | 50341054 | Promoter (<=1kb) | 5.60566 | 14.54599 | CDKL1 |
| chr4 | 75631022 | 75631259 | 75631065 | Promoter (<=1kb) | 3.23642 | 4.68413 | CDKL2 |
| chr5 | 134370827 | 134371418 | 134371212 | Promoter (<=1kb) | 11.05854 | 99.51375 | CDKL3 |
| chrX | 18441163 | 18441388 | 18441317 | Promoter (<=1kb) | 7.75811 | 26.67406 | CDKL5 |
| chr6 | 36679194 | 36679742 | 36679503 | Promoter (<=1kb) | 7.02786 | 35.44812 | CDKN1A |
| chr12 | 12717869 | 12718163 | 12718077 | Promoter (<=1kb) | 9.00577 | 39.73072 | CDKN1B |
| chr11 | 2885247 | 2885857 | 2885818 | Promoter (<=1kb) | 4.46234 | 18.53504 | CDKN1C |
| chr9 | 21995875 | 21996517 | 21996284 | Promoter (<=1kb) | 9.41684 | 42.18028 | CDKN2A |
| chr4 | 183444473 | 183445673 | 183444730 | Promoter (<=1kb) | 11.76198 | 53.11134 | CDKN2AIP |
| chr5 | 134411664 | 134412365 | 134412018 | Promoter (<=1kb) | 6.10236 | 33.81908 | CDKN2AIPNL |
| chr9 | 21994690 | 21995365 | 21995091 | Promoter (<=1kb) | 6.02115 | 21.8486 | CDKN2B-AS1 |
| chr1 | 50968225 | 50968671 | 50968299 | Promoter (<=1kb) | 9.19823 | 33.17646 | CDKN2C |
| chr19 | 10568614 | 10569361 | 10568971 | Promoter (<=1kb) | 7.406 | 54.2689 | CDKN2D |
| chr14 | 54396793 | 54397728 | 54396978 | Promoter (<=1kb) | 9.54305 | 52.89744 | CDKN3 |
| chr13 | 36431480 | 36432080 | 36431823 | Promoter (<=1kb) | 11.07195 | 44.73887 | CCNA1 |
| chr4 | 121823487 | 121824035 | 121823844 | Promoter (<=1kb) | 15.50072 | 75.45017 | CCNA2 |
| chr5 | 69173211 | 69173390 | 69173277 | Promoter (<=1kb) | 9.60764 | 40.50388 | CCNB1 |
| chr14 | 20332932 | 20333420 | 20333033 | Promoter (<=1kb) | 6.47283 | 18.29481 | CCNB1IP1 |
| chr15 | 59105053 | 59105661 | 59105495 | Promoter (<=1kb) | 9.96409 | 41.5736 | CCNB2 |
| chrX | 50204112 | 50204411 | 50204129 | Promoter (<=1kb) | 5.11013 | 11.90867 | CCNB3 |
| chr6 | 99568260 | 99568946 | 99568629 | Promoter (<=1kb) | 9.12877 | 34.09392 | CCNC |

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|-------|-----------|-----------|-----------|------------------|----------|----------|---------|
| chr11 | 69644362 | 69644753 | 69644508 | Promoter (<=1kb) | 8.9011 | 62.99952 | CCND1 |
| chr6 | 42050270 | 42050806 | 42050738 | Promoter (<=1kb) | 10.58614 | 74.83663 | CCND3 |
| chr15 | 43185934 | 43186263 | 43185933 | Promoter (<=1kb) | 6.30249 | 17.45304 | CCNDBP1 |
| chr19 | 29811677 | 29812277 | 29812196 | Promoter (<=1kb) | 8.43252 | 29.5218 | CCNE1 |
| chr8 | 94894930 | 94895832 | 94895225 | Promoter (<=1kb) | 9.30527 | 39.02406 | CCNE2 |
| chr16 | 2428358 | 2429490 | 2428761 | Promoter (<=1kb) | 6.72375 | 37.68261 | CCNF |
| chr5 | 163437322 | 163437815 | 163437612 | Promoter (<=1kb) | 9.22506 | 39.8853 | CCNG1 |
| chr4 | 77157556 | 77158311 | 77157641 | Promoter (<=1kb) | 7.34584 | 29.23553 | CCNG2 |
| chr5 | 87412225 | 87413238 | 87412899 | Promoter (<=1kb) | 10.56093 | 41.48962 | CCNH |
| chr4 | 77076007 | 77076313 | 77076194 | Promoter (<=1kb) | 8.51688 | 29.22655 | CCNI |
| chr10 | 96043377 | 96043975 | 96043599 | Promoter (<=1kb) | 13.95327 | 96.42113 | CCNJ |
| chr3 | 157160558 | 157160814 | 157160650 | Promoter (<=1kb) | 6.96434 | 21.28909 | CCNL1 |
| chr1 | 1399007 | 1399823 | 1399732 | Promoter (<=1kb) | 6.88977 | 39.36238 | CCNL2 |
| chr12 | 48716657 | 48717228 | 48716784 | Promoter (<=1kb) | 13.116 | 58.38448 | CCNT1 |
| chr10 | 35336393 | 35336726 | 35336689 | Promoter (<=1kb) | 8.14606 | 27.24198 | CCNY |
| chr2 | 207711835 | 207712612 | 207712085 | Promoter (<=1kb) | 9.06282 | 45.97808 | CCNYL1 |