

Supplement Table6. Down-regulated mRNAs

| mRNA | logFC | logCPM | PValue | FDR |
|----------|----------|----------|-----------|-----------|
| ENPP7 | -6.95069 | 2.617786 | 3.38E-131 | 6.31E-127 |
| ASAH2 | -4.51144 | 2.62444 | 8.10E-117 | 7.56E-113 |
| MS4A10 | -6.92116 | 2.152799 | 1.09E-102 | 6.75E-99 |
| S100G | -5.75685 | 0.379864 | 1.54E-93 | 7.19E-90 |
| SYNPO2L | -4.63625 | 0.527932 | 3.03E-90 | 1.13E-86 |
| FLG | -6.04187 | 3.039023 | 6.35E-90 | 1.97E-86 |
| MEP1B | -6.02034 | 3.328366 | 8.46E-83 | 2.26E-79 |
| ENPP3 | -4.46634 | 1.493058 | 2.24E-80 | 5.23E-77 |
| TREH | -4.0592 | 1.860882 | 2.85E-80 | 5.90E-77 |
| SLC28A1 | -5.00286 | 0.294198 | 2.48E-77 | 4.62E-74 |
| CA7 | -4.56141 | -0.45082 | 2.62E-75 | 4.44E-72 |
| KRT1 | -5.83784 | 1.554929 | 3.56E-75 | 5.54E-72 |
| ALOX12 | -3.7817 | 2.53634 | 5.09E-75 | 7.31E-72 |
| AQP10 | -5.89876 | 1.828176 | 8.76E-72 | 1.17E-68 |
| LCT | -5.94389 | 2.368347 | 1.99E-71 | 2.48E-68 |
| SLC2A5 | -3.42624 | 3.424698 | 3.37E-70 | 3.94E-67 |
| CLEC3B | -3.3577 | 2.773699 | 4.37E-70 | 4.80E-67 |
| ZG16 | -5.65783 | 2.454326 | 1.15E-69 | 1.19E-66 |
| RBP2 | -6.1384 | 5.543279 | 8.10E-69 | 7.96E-66 |
| SLC5A4 | -3.48958 | 0.132217 | 1.60E-68 | 1.49E-65 |
| CBR1 | -2.3359 | 5.707161 | 4.00E-65 | 3.55E-62 |
| GIP | -6.01944 | 1.04338 | 7.23E-63 | 6.13E-60 |
| DPT | -3.91997 | 4.175375 | 3.89E-62 | 3.16E-59 |
| BEST4 | -3.38893 | 0.471582 | 5.44E-60 | 4.23E-57 |
| SLC25A34 | -3.0206 | 1.61065 | 6.76E-60 | 5.05E-57 |
| SLC51A | -2.91844 | 2.341043 | 2.85E-59 | 2.05E-56 |
| G6PC | -5.59616 | 0.055494 | 3.05E-59 | 2.11E-56 |
| TTC36 | -2.99365 | -0.30864 | 4.45E-57 | 2.96E-54 |
| BTG2 | -2.3948 | 7.651598 | 1.70E-54 | 1.09E-51 |
| NAALADL1 | -3.11536 | 2.984498 | 3.97E-54 | 2.47E-51 |
| EMP1 | -3.09954 | 7.928353 | 3.08E-53 | 1.85E-50 |
| PCK2 | -2.34735 | 5.718867 | 1.01E-52 | 5.89E-50 |
| GAST | -7.42799 | 7.039435 | 1.13E-52 | 6.38E-50 |
| KHK | -2.71596 | 3.527144 | 1.78E-52 | 9.77E-50 |
| NNAT | -3.0348 | 2.120961 | 2.35E-52 | 1.25E-49 |
| MGAM | -3.86582 | 3.843879 | 6.12E-52 | 3.17E-49 |
| SLC2A7 | -4.29709 | -2.31364 | 7.56E-52 | 3.81E-49 |
| SLC6A4 | -3.82524 | 1.342042 | 1.69E-51 | 8.28E-49 |
| UNC45B | -3.8872 | -0.03591 | 9.56E-50 | 4.58E-47 |
| GPM6B | -2.74485 | 3.15661 | 1.47E-49 | 6.86E-47 |
| GADD45B | -2.3074 | 5.391164 | 3.09E-48 | 1.41E-45 |

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| APOA4 | -6.76 | 6.97615 | 2.44E-47 | 1.08E-44 |
| CSRNP1 | -1.92989 | 5.700252 | 4.91E-47 | 2.13E-44 |
| CYP3A4 | -4.98078 | 4.114512 | 7.11E-47 | 3.01E-44 |
| INAFM2 | -2.40912 | 3.306694 | 9.62E-47 | 3.99E-44 |
| ACER1 | -4.8436 | -0.03533 | 1.89E-46 | 7.68E-44 |
| ASPDH | -2.88723 | -0.89928 | 4.68E-46 | 1.86E-43 |
| MTPP | -4.7883 | 4.919716 | 7.23E-46 | 2.81E-43 |
| DEFB131A | -5.60024 | -3.32357 | 8.64E-46 | 3.29E-43 |
| JCHAIN | -3.88857 | 9.80066 | 2.23E-45 | 8.32E-43 |
| BNIP1 | -3.94013 | 1.723394 | 4.33E-45 | 1.58E-42 |
| LYVE1 | -2.85699 | 2.938888 | 9.68E-44 | 3.48E-41 |
| CFD | -2.91215 | 5.619755 | 1.71E-43 | 6.02E-41 |
| GYS2 | -4.61049 | -0.05521 | 2.51E-43 | 8.68E-41 |
| ACE | -2.23319 | 5.845988 | 2.74E-43 | 9.29E-41 |
| UGT1A4 | -4.2405 | -2.86873 | 7.71E-43 | 2.57E-40 |
| ZNF365 | -3.55262 | 1.544537 | 8.81E-43 | 2.89E-40 |
| OTOP3 | -5.10291 | 2.421565 | 9.10E-43 | 2.93E-40 |
| PPP1R1A | -4.02223 | 3.038459 | 1.07E-42 | 3.39E-40 |
| AQP11 | -2.07733 | 2.350752 | 3.12E-42 | 9.72E-40 |
| GUCA2B | -4.70054 | 0.574923 | 1.86E-41 | 5.68E-39 |
| CMTM5 | -3.68496 | -1.77459 | 4.61E-41 | 1.39E-38 |
| ABCG2 | -2.90853 | 3.401435 | 4.69E-41 | 1.39E-38 |
| PTGR1 | -2.00694 | 5.393552 | 6.22E-41 | 1.81E-38 |
| DAB1 | -3.3512 | 1.543531 | 7.11E-41 | 2.04E-38 |
| CIDEC | -3.80615 | 3.207185 | 9.29E-41 | 2.63E-38 |
| RAET1E | -3.58694 | 1.03662 | 1.47E-40 | 4.11E-38 |
| C16orf89 | -3.59586 | 3.14935 | 3.21E-40 | 8.82E-38 |
| ALDOB | -4.53042 | 7.763696 | 7.84E-40 | 2.12E-37 |
| ALPI | -4.67905 | 4.369643 | 8.78E-40 | 2.34E-37 |
| CYP2D6 | -2.73002 | 1.775022 | 8.91E-40 | 2.34E-37 |
| ACY3 | -2.8275 | 4.508902 | 1.18E-39 | 3.06E-37 |
| PPL | -3.29201 | 7.697668 | 1.33E-39 | 3.40E-37 |
| ERICH4 | -4.07167 | 0.202194 | 2.72E-39 | 6.86E-37 |
| LGI3 | -3.97426 | -0.10708 | 3.76E-39 | 9.36E-37 |
| ENDOU | -4.62796 | 2.059014 | 7.00E-39 | 1.71E-36 |
| PTGDR2 | -2.61097 | 1.477485 | 7.05E-39 | 1.71E-36 |
| FABP2 | -4.84557 | 4.315817 | 9.23E-39 | 2.21E-36 |
| MYOC | -4.75195 | 3.307726 | 2.22E-38 | 5.24E-36 |
| PLCD4 | -2.01386 | 2.558898 | 9.03E-38 | 2.11E-35 |
| KCNE2 | -4.29594 | 3.074219 | 1.70E-37 | 3.91E-35 |
| GSN | -1.85053 | 8.962995 | 2.08E-37 | 4.74E-35 |
| CITED2 | -1.59792 | 5.669941 | 6.03E-37 | 1.34E-34 |
| SLC46A1 | -2.18735 | 3.475597 | 9.26E-37 | 2.03E-34 |
| HPCAL4 | -3.12724 | -0.44665 | 1.18E-36 | 2.55E-34 |

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| GLTP | -1.70159 | 5.656645 | 1.48E-36 | 3.17E-34 |
| VSIG10L | -3.32238 | 4.32911 | 2.88E-36 | 6.10E-34 |
| ARC | -3.71095 | 2.07941 | 3.08E-36 | 6.45E-34 |
| SPINK5 | -4.33999 | 6.875047 | 3.43E-36 | 7.11E-34 |
| CYP4F2 | -4.06583 | 2.962892 | 4.19E-36 | 8.59E-34 |
| C11orf86 | -4.17855 | 3.203909 | 5.56E-36 | 1.13E-33 |
| AQP4 | -4.72935 | 0.782992 | 9.34E-36 | 1.88E-33 |
| KCNA5 | -3.1357 | 1.218546 | 2.19E-35 | 4.34E-33 |
| RXRG | -3.18462 | -0.74304 | 2.64E-35 | 5.18E-33 |
| UGT1A5 | -4.2461 | -2.93172 | 3.52E-35 | 6.85E-33 |
| SLC25A4 | -1.88752 | 5.150601 | 4.19E-35 | 8.07E-33 |
| TFAP2B | -4.72267 | -0.71898 | 5.71E-35 | 1.09E-32 |
| GPX3 | -2.42489 | 6.477148 | 6.24E-35 | 1.18E-32 |
| FXYD6 | -2.59979 | 4.699986 | 7.42E-35 | 1.39E-32 |
| SLC35G1 | -2.00608 | 3.75932 | 7.83E-35 | 1.45E-32 |
| C3orf85 | -4.43928 | 1.398507 | 8.34E-35 | 1.53E-32 |
| ECM1 | -2.87763 | 6.686193 | 1.02E-34 | 1.83E-32 |
| APOB | -4.9226 | 7.188738 | 1.32E-34 | 2.34E-32 |
| TM6SF2 | -3.43414 | 3.042899 | 1.69E-34 | 2.98E-32 |
| CREB3L3 | -3.92101 | 4.652637 | 2.98E-34 | 5.15E-32 |
| SLC23A1 | -2.78197 | 1.421438 | 3.43E-34 | 5.88E-32 |
| TMEM253 | -2.97155 | 0.719916 | 3.79E-34 | 6.44E-32 |
| ACE2 | -3.56835 | 4.978713 | 4.21E-34 | 7.08E-32 |
| LGI4 | -2.28253 | 2.160466 | 6.88E-34 | 1.15E-31 |
| CSTA | -4.33992 | 6.643106 | 7.25E-34 | 1.20E-31 |
| NR4A3 | -2.57866 | 4.515539 | 1.39E-33 | 2.26E-31 |
| SH3BGR | -2.34625 | 1.807642 | 1.97E-33 | 3.18E-31 |
| SCARA5 | -3.20718 | 3.32291 | 2.50E-33 | 4.00E-31 |
| FAM180B | -3.45073 | -1.9494 | 3.58E-33 | 5.66E-31 |
| NAT8 | -3.98605 | -0.13402 | 4.19E-33 | 6.56E-31 |
| FOSB | -2.98174 | 6.73145 | 4.22E-33 | 6.56E-31 |
| SPINK2 | -3.37568 | -1.46462 | 6.08E-33 | 9.39E-31 |
| APOC3 | -5.52659 | 4.586351 | 6.72E-33 | 1.03E-30 |
| CSTB | -2.60171 | 8.586628 | 9.53E-33 | 1.45E-30 |
| DHDH | -2.58276 | 1.141917 | 1.15E-32 | 1.73E-30 |
| SLC51B | -3.00077 | 1.473222 | 1.16E-32 | 1.73E-30 |
| CKMT2 | -2.68589 | 1.417894 | 1.25E-32 | 1.85E-30 |
| GSTM5 | -2.59903 | 2.199667 | 1.29E-32 | 1.89E-30 |
| KAT2B | -1.56251 | 4.866927 | 1.63E-32 | 2.37E-30 |
| SIGLEC11 | -2.70491 | 0.079409 | 1.92E-32 | 2.78E-30 |
| MAL | -4.62082 | 6.247331 | 2.42E-32 | 3.47E-30 |
| SULT1A1 | -2.07773 | 4.281959 | 2.58E-32 | 3.68E-30 |
| PSD | -3.07115 | 4.401369 | 2.74E-32 | 3.87E-30 |
| LEXM | -3.09629 | -0.38129 | 3.04E-32 | 4.26E-30 |

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| OTOP2 | -3.917 | -1.60482 | 3.47E-32 | 4.83E-30 |
| MAF | -1.72996 | 5.803171 | 5.76E-32 | 7.96E-30 |
| USP2 | -2.39287 | 2.514757 | 8.50E-32 | 1.16E-29 |
| IGFBP6 | -2.22274 | 4.442806 | 1.12E-31 | 1.51E-29 |
| HSPA2 | -2.28869 | 4.383933 | 1.22E-31 | 1.64E-29 |
| GLRA4 | -3.76482 | -1.60365 | 1.28E-31 | 1.71E-29 |
| ASB11 | -3.76802 | -1.20473 | 1.38E-31 | 1.83E-29 |
| TXNDC5 | -1.75453 | 4.547212 | 1.52E-31 | 2.00E-29 |
| PLP1 | -3.68225 | 2.21941 | 1.88E-31 | 2.46E-29 |
| RNF222 | -4.01364 | -0.1055 | 1.93E-31 | 2.50E-29 |
| KRTAP3-2 | -6.40552 | -0.89854 | 1.96E-31 | 2.52E-29 |
| TBX10 | -3.5536 | 1.145693 | 2.64E-31 | 3.34E-29 |
| MYOT | -2.58271 | 0.03928 | 2.65E-31 | 3.34E-29 |
| GCNT4 | -2.61858 | 3.532878 | 3.22E-31 | 4.03E-29 |
| TAFA4 | -4.41367 | 1.115427 | 3.54E-31 | 4.41E-29 |
| ANKRD35 | -2.51206 | 2.018633 | 4.04E-31 | 4.99E-29 |
| LEAP2 | -2.21869 | 1.136387 | 4.60E-31 | 5.65E-29 |
| FXD1 | -2.66576 | 0.308401 | 6.06E-31 | 7.39E-29 |
| TKFC | -1.50248 | 5.644971 | 6.32E-31 | 7.66E-29 |
| GNG7 | -2.25826 | 3.272429 | 1.44E-30 | 1.72E-28 |
| CAB39L | -2.01181 | 4.269396 | 1.65E-30 | 1.96E-28 |
| CEACAM20 | -4.15249 | 1.046095 | 1.70E-30 | 2.01E-28 |
| CCN5 | -3.00283 | 1.542288 | 2.01E-30 | 2.36E-28 |
| UGT1A7 | -4.05691 | 0.177247 | 2.29E-30 | 2.68E-28 |
| RNASE1 | -2.29543 | 8.010542 | 2.40E-30 | 2.78E-28 |
| S100B | -2.37091 | 2.085093 | 2.43E-30 | 2.80E-28 |
| HLF | -2.78642 | 3.387857 | 2.45E-30 | 2.81E-28 |
| TMEM100 | -3.05052 | 2.373701 | 3.14E-30 | 3.55E-28 |
| SULT1A2 | -2.8727 | 1.941529 | 4.00E-30 | 4.50E-28 |
| DHRS11 | -2.09743 | 5.242533 | 6.56E-30 | 7.28E-28 |
| GFRA2 | -2.50168 | 0.656649 | 6.66E-30 | 7.36E-28 |
| VSTM2A | -3.72533 | -0.51925 | 7.28E-30 | 7.99E-28 |
| LAMB4 | -2.77253 | -0.76963 | 9.10E-30 | 9.94E-28 |
| RNASE7 | -4.87614 | 1.613183 | 9.58E-30 | 1.04E-27 |
| ESRRG | -3.33517 | 2.683534 | 9.74E-30 | 1.05E-27 |
| PTGS1 | -1.89226 | 5.064304 | 1.34E-29 | 1.43E-27 |
| LGALS9C | -3.11926 | 2.808841 | 1.39E-29 | 1.48E-27 |
| CA1 | -3.97706 | 3.045931 | 1.98E-29 | 2.06E-27 |
| ANKRD31 | -2.34764 | -0.71461 | 2.45E-29 | 2.54E-27 |
| ADCYAP1R1 | -3.2109 | 0.647754 | 3.19E-29 | 3.29E-27 |
| ABCG5 | -2.96519 | 1.502229 | 3.74E-29 | 3.83E-27 |
| PTN | -2.33405 | 3.456618 | 4.28E-29 | 4.37E-27 |
| AMPD1 | -3.02912 | 0.341876 | 4.62E-29 | 4.69E-27 |
| MYZAP | -2.02117 | 1.832608 | 4.65E-29 | 4.70E-27 |

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| GDPD2 | -2.90741 | 1.971926 | 4.95E-29 | 4.97E-27 |
| XPNPEP2 | -3.5131 | 4.598003 | 5.41E-29 | 5.40E-27 |
| TNFRSF17 | -2.83527 | 1.73391 | 6.90E-29 | 6.85E-27 |
| PYGM | -2.8584 | 2.485425 | 8.72E-29 | 8.52E-27 |
| DERL3 | -2.4859 | 5.032563 | 1.02E-28 | 9.91E-27 |
| ITLN2 | -4.13055 | 0.798325 | 1.22E-28 | 1.18E-26 |
| COX7A1 | -1.93185 | 2.847693 | 1.50E-28 | 1.43E-26 |
| C2orf40 | -3.74604 | 4.289068 | 1.54E-28 | 1.47E-26 |
| ZFP36 | -1.74955 | 8.600823 | 2.27E-28 | 2.12E-26 |
| NEFM | -2.93873 | -0.4452 | 2.34E-28 | 2.17E-26 |
| VIT | -2.75877 | 0.555159 | 2.53E-28 | 2.34E-26 |
| HPGD | -2.58989 | 6.405221 | 2.65E-28 | 2.44E-26 |
| FLRT1 | -2.47025 | 0.489703 | 2.97E-28 | 2.72E-26 |
| ADAMTS1 | -2.03404 | 5.981862 | 3.58E-28 | 3.26E-26 |
| TSPYL2 | -1.658 | 4.299758 | 4.04E-28 | 3.64E-26 |
| BCO1 | -2.5862 | 2.876538 | 4.77E-28 | 4.28E-26 |
| MTUS2 | -2.98448 | 0.595739 | 6.77E-28 | 6.05E-26 |
| CKB | -2.52609 | 7.187966 | 7.71E-28 | 6.82E-26 |
| LRRC3 | -1.86779 | 3.642733 | 1.72E-27 | 1.51E-25 |
| CBLIF | -4.81585 | 6.554127 | 1.79E-27 | 1.56E-25 |
| TGM3 | -4.81131 | 6.592041 | 2.16E-27 | 1.88E-25 |
| ADHFE1 | -2.32967 | 1.266112 | 2.91E-27 | 2.49E-25 |
| GPAT3 | -2.08976 | 3.385791 | 3.21E-27 | 2.72E-25 |
| KLF9 | -1.82227 | 6.219807 | 3.68E-27 | 3.11E-25 |
| C11orf96 | -2.12276 | 6.310161 | 3.71E-27 | 3.12E-25 |
| RHOB | -1.81978 | 8.520936 | 3.90E-27 | 3.27E-25 |
| UPK1A | -3.84273 | 0.938665 | 4.23E-27 | 3.52E-25 |
| CBX7 | -1.71742 | 4.994433 | 4.91E-27 | 4.07E-25 |
| PDK4 | -2.72051 | 6.908509 | 5.22E-27 | 4.28E-25 |
| MAMDC2 | -3.01972 | 3.245165 | 5.23E-27 | 4.28E-25 |
| NCAM1 | -2.82524 | 4.026337 | 6.15E-27 | 5.01E-25 |
| TMEM236 | -3.11998 | 2.032639 | 6.34E-27 | 5.15E-25 |
| NPAS4 | -2.91885 | -1.07098 | 7.53E-27 | 6.09E-25 |
| SLC15A1 | -3.54673 | 3.871392 | 7.67E-27 | 6.17E-25 |
| ATP4B | -5.12524 | 6.039459 | 8.64E-27 | 6.92E-25 |
| PLAC9 | -1.99904 | 2.388546 | 8.70E-27 | 6.94E-25 |
| DPP6 | -3.56416 | 2.10836 | 8.83E-27 | 7.02E-25 |
| OSGIN1 | -1.86308 | 3.142752 | 8.88E-27 | 7.03E-25 |
| SASH1 | -1.55079 | 5.427797 | 9.28E-27 | 7.31E-25 |
| AC129492.1 | -1.81384 | 6.15788 | 1.11E-26 | 8.69E-25 |
| FOXI2 | -2.98024 | -1.64136 | 1.17E-26 | 9.11E-25 |
| FAM25A | -5.8052 | 1.25353 | 1.18E-26 | 9.12E-25 |
| PI16 | -3.32098 | 3.494536 | 1.21E-26 | 9.32E-25 |
| TPM1 | -2.04515 | 8.610804 | 1.23E-26 | 9.48E-25 |

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| TCEAL6 | -3.32824 | -2.31912 | 1.36E-26 | 1.04E-24 |
| ANXA1 | -2.74708 | 8.482526 | 1.56E-26 | 1.18E-24 |
| KRT3 | -3.7523 | -2.13745 | 1.65E-26 | 1.24E-24 |
| RDH12 | -2.98296 | 1.672866 | 1.75E-26 | 1.31E-24 |
| CCDC69 | -2.08197 | 5.78219 | 4.03E-26 | 2.98E-24 |
| CPO | -2.73881 | -1.81494 | 4.20E-26 | 3.09E-24 |
| PRSS27 | -3.50888 | 3.490898 | 5.38E-26 | 3.94E-24 |
| SCNN1B | -3.5197 | 3.362307 | 6.07E-26 | 4.41E-24 |
| DUSP5 | -1.95028 | 4.876841 | 6.44E-26 | 4.66E-24 |
| ARHGAP10 | -1.71294 | 4.373913 | 6.78E-26 | 4.89E-24 |
| GSTA3 | -3.82183 | -2.61144 | 7.13E-26 | 5.12E-24 |
| FAM107A | -2.2844 | 3.374954 | 7.47E-26 | 5.34E-24 |
| P2RY14 | -2.22108 | 2.826354 | 7.95E-26 | 5.66E-24 |
| SLC7A3 | -3.2746 | -1.27064 | 8.24E-26 | 5.85E-24 |
| PDZRN4 | -3.33755 | 2.605138 | 8.48E-26 | 6.00E-24 |
| AKR1B15 | -3.44349 | 1.04086 | 1.15E-25 | 7.99E-24 |
| LY6G6C | -3.52449 | 1.784591 | 1.22E-25 | 8.47E-24 |
| PEBP4 | -3.02944 | -0.98352 | 1.37E-25 | 9.44E-24 |
| FBP2 | -2.95225 | 1.372123 | 1.48E-25 | 1.02E-23 |
| GFRA4 | -3.93893 | -3.05009 | 1.72E-25 | 1.17E-23 |
| DUSP1 | -1.83325 | 7.866004 | 1.73E-25 | 1.18E-23 |
| TMEM79 | -2.01576 | 3.526098 | 1.92E-25 | 1.30E-23 |
| AIF1L | -2.36608 | 4.062041 | 1.97E-25 | 1.33E-23 |
| TMPRSS15 | -4.77473 | 4.302343 | 2.30E-25 | 1.54E-23 |
| ELOVL4 | -2.39826 | 1.214505 | 2.61E-25 | 1.73E-23 |
| MALL | -2.35778 | 3.995901 | 2.63E-25 | 1.74E-23 |
| GSTM2 | -1.79193 | 3.178888 | 3.01E-25 | 1.99E-23 |
| CRYAB | -2.48739 | 5.009325 | 3.72E-25 | 2.44E-23 |
| IGLL5 | -2.86646 | 7.107962 | 4.06E-25 | 2.66E-23 |
| PRIMA1 | -3.17148 | 3.806542 | 6.24E-25 | 4.07E-23 |
| PNLIPRP3 | -4.73268 | -1.58323 | 7.12E-25 | 4.60E-23 |
| TMEM35A | -3.02508 | 1.693163 | 7.44E-25 | 4.79E-23 |
| RGS2 | -1.85619 | 5.673391 | 8.19E-25 | 5.25E-23 |
| GRIA4 | -2.58723 | -0.56892 | 1.27E-24 | 8.07E-23 |
| DEFA5 | -5.72151 | 5.156769 | 1.51E-24 | 9.58E-23 |
| UGT1A1 | -3.58226 | 2.786888 | 1.63E-24 | 1.02E-22 |
| GKN2 | -4.82483 | 7.919818 | 1.67E-24 | 1.04E-22 |
| DENND2C | -2.42025 | 2.64006 | 1.87E-24 | 1.16E-22 |
| CD36 | -2.1663 | 4.467485 | 2.54E-24 | 1.56E-22 |
| ASPA | -2.26985 | 1.352752 | 2.65E-24 | 1.63E-22 |
| CYSRT1 | -3.20258 | 3.147332 | 2.69E-24 | 1.65E-22 |
| IL20RB | -2.86791 | 2.358528 | 2.80E-24 | 1.71E-22 |
| ABI3BP | -2.58782 | 5.910834 | 3.87E-24 | 2.34E-22 |
| ADGRG4 | -3.5459 | -1.50555 | 3.96E-24 | 2.39E-22 |

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|------------|----------|----------|----------|----------|
| SI | -3.94742 | 6.500591 | 4.81E-24 | 2.89E-22 |
| C1QTNF2 | -1.97108 | 1.056796 | 5.79E-24 | 3.46E-22 |
| ALDH3A1 | -2.88199 | 6.238971 | 6.69E-24 | 3.96E-22 |
| KRT78 | -5.18105 | 4.969701 | 7.35E-24 | 4.33E-22 |
| FAT3 | -3.01458 | 2.412789 | 7.58E-24 | 4.45E-22 |
| ADAMTSL1 | -1.88012 | 3.032301 | 7.98E-24 | 4.67E-22 |
| NPPC | -3.07506 | -0.49879 | 8.12E-24 | 4.74E-22 |
| PRKN | -1.90393 | 1.610389 | 9.22E-24 | 5.35E-22 |
| MYL9 | -2.61637 | 9.57271 | 9.55E-24 | 5.50E-22 |
| CDHR5 | -2.47375 | 7.108764 | 1.03E-23 | 5.91E-22 |
| C17orf78 | -3.55543 | 2.369271 | 1.10E-23 | 6.27E-22 |
| CRYL1 | -1.54243 | 5.339834 | 1.56E-23 | 8.84E-22 |
| ADRB2 | -2.1786 | 1.463989 | 1.61E-23 | 9.12E-22 |
| EPM2A | -1.64934 | 2.672065 | 1.76E-23 | 9.92E-22 |
| MT1M | -2.70521 | 2.2008 | 2.25E-23 | 1.26E-21 |
| FOXF1 | -1.98182 | 5.301606 | 2.34E-23 | 1.30E-21 |
| ATP4A | -4.78185 | 6.486951 | 2.57E-23 | 1.43E-21 |
| CADM3 | -2.96662 | 2.314594 | 2.74E-23 | 1.52E-21 |
| CHODL | -2.84355 | 0.183318 | 2.81E-23 | 1.55E-21 |
| SLC5A11 | -2.64047 | -0.49975 | 2.81E-23 | 1.55E-21 |
| KLF4 | -1.68233 | 6.826417 | 2.82E-23 | 1.55E-21 |
| TP53AIP1 | -3.20859 | -0.821 | 3.20E-23 | 1.74E-21 |
| HRH2 | -1.91957 | 1.364405 | 3.48E-23 | 1.87E-21 |
| LY6H | -2.34108 | -0.23813 | 3.79E-23 | 2.03E-21 |
| CYP4F22 | -3.17303 | 1.279434 | 4.70E-23 | 2.51E-21 |
| NAP1L5 | -1.6355 | 2.126017 | 5.14E-23 | 2.73E-21 |
| ANKRD63 | -3.25062 | -2.61679 | 5.18E-23 | 2.75E-21 |
| PMP2 | -3.11918 | -0.98695 | 5.73E-23 | 3.01E-21 |
| C14orf39 | -2.74621 | -2.22998 | 6.12E-23 | 3.20E-21 |
| NT5C1A | -2.78932 | -2.89427 | 6.32E-23 | 3.30E-21 |
| LRRC4 | -1.86569 | 1.726213 | 6.64E-23 | 3.44E-21 |
| IGSF11 | -2.61592 | 0.437755 | 6.90E-23 | 3.57E-21 |
| SLC5A1 | -2.55554 | 6.168497 | 9.01E-23 | 4.61E-21 |
| GKN1 | -4.88784 | 10.0425 | 9.50E-23 | 4.84E-21 |
| LRRC3B | -2.6367 | -2.65001 | 9.81E-23 | 4.99E-21 |
| EHD3 | -1.88621 | 4.21456 | 1.00E-22 | 5.08E-21 |
| IL1RN | -2.64025 | 7.047462 | 1.07E-22 | 5.41E-21 |
| TMEM154 | -2.06291 | 4.339358 | 1.12E-22 | 5.64E-21 |
| NECAB1 | -2.49562 | 2.046589 | 1.16E-22 | 5.84E-21 |
| AC136428.1 | -3.35689 | 0.669813 | 1.17E-22 | 5.89E-21 |
| CAMK2A | -2.41344 | 0.135762 | 1.19E-22 | 5.92E-21 |
| MZB1 | -2.53436 | 4.858351 | 1.19E-22 | 5.93E-21 |
| EFS | -1.98928 | 2.983011 | 1.20E-22 | 5.93E-21 |
| MAB21L3 | -3.44306 | 0.694562 | 1.24E-22 | 6.15E-21 |

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| ATP6V1G2 | -2.00998 | -0.39691 | 1.33E-22 | 6.57E-21 |
| GSTA1 | -3.22774 | 5.462261 | 1.43E-22 | 7.06E-21 |
| NRXN1 | -2.92209 | 1.514242 | 1.57E-22 | 7.68E-21 |
| KLF8 | -1.98995 | 2.502254 | 1.63E-22 | 7.96E-21 |
| APOBEC1 | -3.06503 | 2.349581 | 1.80E-22 | 8.76E-21 |
| MPP1 | -1.65579 | 4.511522 | 1.87E-22 | 9.08E-21 |
| SMTN | -2.07724 | 7.722835 | 1.88E-22 | 9.13E-21 |
| RERG | -2.30443 | 3.743211 | 2.09E-22 | 1.01E-20 |
| RPRM | -3.04908 | 0.122651 | 2.14E-22 | 1.03E-20 |
| GBP6 | -4.18932 | 4.984011 | 2.32E-22 | 1.11E-20 |
| HSPB8 | -2.62057 | 5.671354 | 2.42E-22 | 1.15E-20 |
| TSLP | -2.17648 | 0.127672 | 2.61E-22 | 1.23E-20 |
| SHBG | -2.46199 | -0.3796 | 2.93E-22 | 1.38E-20 |
| IMPG2 | -1.95717 | -0.77292 | 3.12E-22 | 1.46E-20 |
| NCCRP1 | -3.78229 | 4.701573 | 3.20E-22 | 1.49E-20 |
| PAX9 | -3.08847 | 3.467641 | 3.26E-22 | 1.52E-20 |
| C3orf18 | -1.6287 | 1.923596 | 3.70E-22 | 1.72E-20 |
| MOGAT2 | -3.19084 | 4.593079 | 4.05E-22 | 1.87E-20 |
| NEGR1 | -2.33029 | 4.192775 | 4.26E-22 | 1.95E-20 |
| MEI1 | -1.9282 | 2.250281 | 4.51E-22 | 2.07E-20 |
| KCNJ13 | -2.40628 | 0.15796 | 4.54E-22 | 2.07E-20 |
| LMO3 | -2.41385 | 2.810165 | 4.72E-22 | 2.15E-20 |
| SCEL | -4.00819 | 5.239473 | 5.25E-22 | 2.37E-20 |
| LIMS2 | -2.21034 | 5.500416 | 5.66E-22 | 2.55E-20 |
| PPP1R3C | -2.49946 | 3.415045 | 5.85E-22 | 2.63E-20 |
| CADM2 | -2.95839 | 0.795493 | 6.19E-22 | 2.76E-20 |
| ATP1B2 | -2.07885 | 2.328468 | 7.15E-22 | 3.17E-20 |
| NKX6-2 | -4.03029 | 2.249693 | 7.20E-22 | 3.19E-20 |
| TSC22D3 | -1.6614 | 6.614546 | 7.39E-22 | 3.26E-20 |
| C1QL1 | -2.30866 | 1.774029 | 7.44E-22 | 3.27E-20 |
| SEMA6D | -2.06459 | 3.43606 | 7.45E-22 | 3.27E-20 |
| ZBTB16 | -2.6976 | 2.86114 | 7.49E-22 | 3.28E-20 |
| RBPMS2 | -2.61016 | 4.625136 | 8.17E-22 | 3.55E-20 |
| ANKRD53 | -1.70975 | 0.114491 | 9.10E-22 | 3.93E-20 |
| JAM2 | -1.93032 | 4.185083 | 9.11E-22 | 3.93E-20 |
| ABCG8 | -3.22914 | 1.611716 | 9.24E-22 | 3.97E-20 |
| SPINK7 | -4.67049 | 3.188181 | 9.69E-22 | 4.16E-20 |
| SLC22A17 | -1.98541 | 3.706545 | 1.03E-21 | 4.40E-20 |
| FHL1 | -2.61102 | 7.428014 | 1.03E-21 | 4.40E-20 |
| MT1X | -1.86181 | 4.73929 | 1.05E-21 | 4.49E-20 |
| KLK13 | -4.02294 | 4.893997 | 1.07E-21 | 4.54E-20 |
| SUSD2 | -1.97485 | 4.56927 | 1.24E-21 | 5.19E-20 |
| PTCHD1 | -3.04574 | 2.539983 | 1.31E-21 | 5.47E-20 |
| ZNF331 | -1.81541 | 4.247946 | 1.33E-21 | 5.56E-20 |

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|---------|----------|----------|----------|----------|
| SLC52A1 | -2.40157 | 1.241359 | 1.35E-21 | 5.62E-20 |
| FGL2 | -2.10971 | 6.193416 | 1.55E-21 | 6.42E-20 |
| APOA1 | -4.08909 | 6.996937 | 1.61E-21 | 6.63E-20 |
| SCUBE1 | -2.1978 | 3.369667 | 1.79E-21 | 7.31E-20 |
| ACACB | -1.6215 | 5.129486 | 1.81E-21 | 7.37E-20 |
| SGCA | -2.57603 | 2.862294 | 1.83E-21 | 7.45E-20 |
| GGN | -1.58232 | 0.436224 | 1.87E-21 | 7.59E-20 |
| SLC5A7 | -3.33508 | -0.28671 | 2.04E-21 | 8.26E-20 |
| EMILIN3 | -2.24206 | 0.459078 | 2.14E-21 | 8.66E-20 |
| METTL7A | -1.57594 | 6.17347 | 2.23E-21 | 8.98E-20 |
| KLF2 | -1.74724 | 6.701137 | 2.32E-21 | 9.30E-20 |
| PCK1 | -3.21753 | 5.338036 | 2.38E-21 | 9.49E-20 |
| ADA | -1.76021 | 4.187404 | 2.81E-21 | 1.11E-19 |
| KRT15 | -3.33161 | 5.67581 | 3.01E-21 | 1.19E-19 |
| A2ML1 | -4.43119 | 6.725619 | 3.14E-21 | 1.24E-19 |
| CKM | -2.81251 | 0.180102 | 3.15E-21 | 1.24E-19 |
| ANGPTL7 | -2.64407 | 0.286667 | 3.21E-21 | 1.25E-19 |
| CCDC146 | -1.64152 | 2.941571 | 3.40E-21 | 1.33E-19 |
| GFOD1 | -1.7171 | 4.418251 | 3.57E-21 | 1.39E-19 |
| STON1 | -2.12781 | 4.300486 | 3.58E-21 | 1.39E-19 |
| CYBRD1 | -1.84688 | 6.894335 | 3.60E-21 | 1.39E-19 |
| SLC5A5 | -3.49067 | 4.437237 | 3.60E-21 | 1.39E-19 |
| TAC3 | -2.61204 | 1.24642 | 4.15E-21 | 1.60E-19 |
| GHR | -2.15057 | 2.563394 | 4.40E-21 | 1.69E-19 |
| PNCK | -3.01864 | 2.935909 | 4.42E-21 | 1.69E-19 |
| CASTOR1 | -1.60107 | 0.322815 | 4.46E-21 | 1.70E-19 |
| SOX17 | -1.59343 | 2.199005 | 4.74E-21 | 1.81E-19 |
| SLC7A9 | -3.02001 | 2.913695 | 4.84E-21 | 1.84E-19 |
| TFF1 | -3.20273 | 9.470401 | 5.57E-21 | 2.10E-19 |
| TUBAL3 | -3.01816 | 1.288458 | 6.67E-21 | 2.51E-19 |
| DNAJB5 | -2.20078 | 4.574192 | 8.27E-21 | 3.08E-19 |
| PLA2G2C | -2.5036 | -2.35064 | 8.67E-21 | 3.21E-19 |
| BMPER | -2.34957 | 1.233445 | 9.26E-21 | 3.42E-19 |
| ZNF185 | -2.36827 | 5.917773 | 9.30E-21 | 3.42E-19 |
| NOS1 | -2.89117 | 1.197803 | 1.03E-20 | 3.78E-19 |
| MLNR | -3.27925 | -0.39531 | 1.13E-20 | 4.14E-19 |
| FAXDC2 | -1.95901 | 4.433171 | 1.18E-20 | 4.30E-19 |
| GSTA2 | -3.48426 | 2.853056 | 1.20E-20 | 4.35E-19 |
| PRRT4 | -2.77609 | -0.47525 | 1.25E-20 | 4.55E-19 |
| CACNB2 | -2.02719 | 2.706773 | 1.27E-20 | 4.61E-19 |
| CAPN14 | -3.96388 | 3.818009 | 1.43E-20 | 5.14E-19 |
| PSCA | -3.48276 | 8.674442 | 1.59E-20 | 5.70E-19 |
| PLN | -2.77071 | 5.091428 | 1.66E-20 | 5.95E-19 |
| CSRP1 | -1.94252 | 8.906019 | 1.70E-20 | 6.07E-19 |

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| COL4A6 | -2.65336 | 3.452387 | 2.06E-20 | 7.33E-19 |
| SCN7A | -2.86925 | 2.575113 | 2.21E-20 | 7.84E-19 |
| PLCL1 | -1.60101 | 2.594411 | 2.42E-20 | 8.53E-19 |
| DNASE1L3 | -2.31512 | 2.077145 | 2.45E-20 | 8.64E-19 |
| BTC | -1.69531 | 3.147399 | 2.58E-20 | 9.06E-19 |
| XKR4 | -2.57814 | 0.763181 | 2.70E-20 | 9.44E-19 |
| PSAPL1 | -3.48059 | 4.006919 | 2.79E-20 | 9.65E-19 |
| FOXF2 | -1.92152 | 4.524936 | 3.34E-20 | 1.15E-18 |
| NKAPL | -2.02833 | -1.07496 | 4.77E-20 | 1.63E-18 |
| INSYN1 | -2.17166 | 1.697648 | 4.88E-20 | 1.67E-18 |
| SLC2A2 | -3.75608 | 1.181449 | 4.93E-20 | 1.68E-18 |
| SLC2A4 | -2.53661 | 3.416662 | 5.00E-20 | 1.70E-18 |
| FNDC5 | -2.20578 | 1.383158 | 5.53E-20 | 1.88E-18 |
| TPRG1 | -2.23858 | 2.456257 | 6.09E-20 | 2.06E-18 |
| PITX1 | -1.85684 | 6.638565 | 6.65E-20 | 2.25E-18 |
| TMEM25 | -1.67358 | 3.74204 | 7.03E-20 | 2.37E-18 |
| DGKB | -2.64317 | 0.346975 | 7.26E-20 | 2.42E-18 |
| CES2 | -1.93377 | 7.834678 | 7.46E-20 | 2.48E-18 |
| SLC7A8 | -1.67196 | 5.912029 | 8.13E-20 | 2.70E-18 |
| CIDEA | -3.58408 | -0.74132 | 8.63E-20 | 2.85E-18 |
| EGR1 | -1.80415 | 8.007054 | 8.67E-20 | 2.86E-18 |
| COL21A1 | -2.15946 | 1.707152 | 9.23E-20 | 3.03E-18 |
| SMIM5 | -1.93824 | 2.138275 | 9.97E-20 | 3.27E-18 |
| NEFL | -3.18414 | 0.861436 | 1.07E-19 | 3.46E-18 |
| FBP1 | -1.84996 | 6.321137 | 1.07E-19 | 3.48E-18 |
| ITGB1BP2 | -1.84164 | 0.502766 | 1.09E-19 | 3.51E-18 |
| PDE2A | -1.76016 | 3.408334 | 1.19E-19 | 3.82E-18 |
| VWC2 | -2.8465 | -0.23817 | 1.23E-19 | 3.92E-18 |
| CNFN | -3.58473 | 6.022868 | 1.25E-19 | 3.99E-18 |
| GPER1 | -2.2493 | 2.408839 | 1.44E-19 | 4.56E-18 |
| TRIM40 | -2.61818 | 1.492331 | 1.50E-19 | 4.76E-18 |
| FAM25C | -3.64945 | -4.25783 | 1.51E-19 | 4.77E-18 |
| VEGFD | -2.72995 | 1.072346 | 1.59E-19 | 5.02E-18 |
| PITPNM3 | -2.00095 | 4.643175 | 1.71E-19 | 5.37E-18 |
| CLIP3 | -1.92525 | 5.136052 | 1.79E-19 | 5.59E-18 |
| EPHA7 | -2.95927 | 3.736837 | 1.90E-19 | 5.92E-18 |
| FABP1 | -3.65636 | 6.558186 | 1.91E-19 | 5.94E-18 |
| NDRG4 | -1.87197 | 2.742406 | 2.24E-19 | 6.92E-18 |
| REP15 | -2.65207 | 0.457955 | 2.43E-19 | 7.47E-18 |
| MS4A8 | -2.70518 | 3.607961 | 2.48E-19 | 7.60E-18 |
| EPHA6 | -2.94795 | -0.49088 | 2.49E-19 | 7.62E-18 |
| SSBP2 | -1.65585 | 4.093563 | 2.73E-19 | 8.34E-18 |
| HPSE2 | -2.80593 | 0.943167 | 2.79E-19 | 8.52E-18 |
| CAP2 | -2.06339 | 4.138616 | 2.83E-19 | 8.60E-18 |

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| TENT5B | -2.54105 | 3.674904 | 2.88E-19 | 8.74E-18 |
| ATP1A2 | -3.00777 | 4.003224 | 2.92E-19 | 8.84E-18 |
| ARHGEF25 | -1.98995 | 3.668748 | 3.20E-19 | 9.63E-18 |
| JAKMIP2 | -1.96496 | 1.250266 | 3.47E-19 | 1.04E-17 |
| TGFB1I1 | -1.76723 | 6.20501 | 3.52E-19 | 1.05E-17 |
| ANGPTL1 | -2.73848 | 3.667545 | 4.23E-19 | 1.25E-17 |
| BDKRB1 | -1.71299 | 1.34459 | 4.39E-19 | 1.30E-17 |
| AKR1C1 | -2.29343 | 5.242805 | 4.42E-19 | 1.30E-17 |
| ETNPPL | -3.33319 | -0.56481 | 4.69E-19 | 1.38E-17 |
| NPR1 | -1.64266 | 3.208646 | 4.88E-19 | 1.43E-17 |
| MFSD4A | -2.40241 | 4.962196 | 5.13E-19 | 1.50E-17 |
| CGNL1 | -1.96827 | 4.155454 | 5.24E-19 | 1.53E-17 |
| PGM5 | -2.68387 | 5.720183 | 5.49E-19 | 1.59E-17 |
| TPM2 | -2.24648 | 8.455924 | 5.69E-19 | 1.65E-17 |
| MME | -2.6422 | 5.15825 | 6.49E-19 | 1.86E-17 |
| GCG | -4.36848 | 0.748432 | 6.50E-19 | 1.86E-17 |
| GPM6A | -2.39781 | 0.665942 | 6.78E-19 | 1.94E-17 |
| GPR155 | -1.8472 | 4.74477 | 6.88E-19 | 1.96E-17 |
| CRCT1 | -5.2122 | 4.533684 | 7.91E-19 | 2.24E-17 |
| MXD1 | -1.53656 | 6.68923 | 8.10E-19 | 2.29E-17 |
| DMPK | -1.76889 | 5.585385 | 8.54E-19 | 2.40E-17 |
| GRHL3 | -2.66032 | 3.324413 | 8.57E-19 | 2.40E-17 |
| GPT | -2.28334 | 3.511547 | 9.17E-19 | 2.56E-17 |
| MAP3K20 | -1.64204 | 7.182887 | 9.36E-19 | 2.60E-17 |
| PHGR1 | -3.09004 | 7.123779 | 9.92E-19 | 2.75E-17 |
| PIRT | -2.71535 | -0.58299 | 9.99E-19 | 2.77E-17 |
| ATF3 | -1.68202 | 5.723061 | 1.21E-18 | 3.33E-17 |
| TTC9 | -2.08106 | 4.45815 | 1.36E-18 | 3.69E-17 |
| BMP6 | -1.7307 | 1.928635 | 1.52E-18 | 4.09E-17 |
| SBSN | -4.5137 | 4.776431 | 1.52E-18 | 4.09E-17 |
| SOX15 | -2.38284 | 2.268966 | 2.24E-18 | 5.94E-17 |
| SMOC2 | -2.2387 | 6.700666 | 2.32E-18 | 6.15E-17 |
| ARHGEF26 | -2.12589 | 3.864487 | 2.38E-18 | 6.28E-17 |
| VSIG2 | -2.5385 | 6.198461 | 2.38E-18 | 6.28E-17 |
| SCUBE2 | -2.02624 | 2.798582 | 2.39E-18 | 6.28E-17 |
| CYSTM1 | -1.77841 | 8.589441 | 2.42E-18 | 6.35E-17 |
| FKBP5 | -1.51742 | 6.170639 | 2.51E-18 | 6.57E-17 |
| HOXA4 | -1.85493 | 1.929343 | 2.59E-18 | 6.74E-17 |
| P2RY1 | -1.89633 | 2.571516 | 2.78E-18 | 7.23E-17 |
| GHRL | -2.87698 | 3.227518 | 3.00E-18 | 7.75E-17 |
| TCEAL7 | -1.83539 | 1.068029 | 3.05E-18 | 7.87E-17 |
| DLG2 | -1.96458 | 1.753363 | 3.17E-18 | 8.15E-17 |
| PDZD4 | -2.28524 | 2.336793 | 3.18E-18 | 8.16E-17 |
| HBB | -2.42295 | 5.236386 | 3.23E-18 | 8.27E-17 |

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| KLK12 | -3.53664 | 2.280219 | 3.31E-18 | 8.46E-17 | |
| PM20D1 | -1.95264 | -0.32624 | 3.41E-18 | 8.69E-17 | |
| MEP1A | -3.23626 | 5.200442 | 3.61E-18 | 9.16E-17 | |
| SORCS3 | -2.79236 | -1.46051 | 4.38E-18 | 1.10E-16 | |
| FAM129A | -2.05245 | 6.75072 | 4.54E-18 | 1.14E-16 | |
| RNF225 | -3.37267 | -0.46312 | 5.46E-18 | 1.35E-16 | |
| SLC5A9 | -2.4027 | 2.237629 | 5.59E-18 | 1.38E-16 | |
| CTNNA3 | -2.96496 | 2.399476 | 5.71E-18 | 1.41E-16 | |
| SLC6A19 | -3.22979 | 5.679151 | 5.84E-18 | 1.44E-16 | |
| RSPO2 | -2.6109 | 1.472976 | 6.12E-18 | 1.50E-16 | |
| PLAAT2 | -2.4963 | 2.555493 | 7.09E-18 | 1.73E-16 | |
| METTL24 | -2.4563 | 1.400033 | 7.22E-18 | 1.76E-16 | |
| LRRC10B | -2.28156 | 1.38782 | 7.84E-18 | 1.91E-16 | |
| AKR7A3 | -2.07833 | 5.991344 | 7.99E-18 | 1.94E-16 | |
| ALKAL2 | -1.8728 | -0.7219 | 8.70E-18 | 2.10E-16 | |
| RCAN2 | -1.86503 | 4.94482 | 8.72E-18 | 2.10E-16 | |
| SORCS1 | -2.53885 | 0.858023 | 9.14E-18 | 2.19E-16 | |
| PCOLCE2 | -2.32812 | 1.370256 | 9.82E-18 | 2.35E-16 | |
| HDC | -1.96158 | 1.064741 | 1.01E-17 | 2.41E-16 | |
| PDZD2 | -1.58064 | 4.06597 | 1.06E-17 | 2.53E-16 | |
| KCNMB1 | -2.32209 | 5.006526 | 1.18E-17 | 2.80E-16 | |
| ANGPTL6 | -1.73998 | 0.182846 | 1.25E-17 | 2.94E-16 | |
| CWH43 | -4.11046 | 1.051994 | 1.29E-17 | 3.03E-16 | |
| SOSTDC1 | -2.90066 | 3.400182 | 1.33E-17 | 3.13E-16 | |
| CACNA2D3 | -1.81772 | 0.605377 | 1.40E-17 | 3.26E-16 | |
| C1orf115 | -1.64477 | 4.856643 | 1.46E-17 | 3.39E-16 | |
| BARX1 | -2.42396 | 5.393255 | 1.50E-17 | 3.49E-16 | |
| TMOD1 | -2.16938 | 3.176341 | 1.52E-17 | 3.52E-16 | |
| CFL2 | -1.89829 | 5.574817 | 1.59E-17 | 3.69E-16 | |
| KCNB1 | -2.80137 | 2.49332 | 1.67E-17 | 3.87E-16 | |
| TGFBR3 | -1.67492 | 5.522144 | 1.76E-17 | 4.06E-16 | |
| | 5-Sep | -1.6946 | 3.400938 | 1.81E-17 | 4.17E-16 |
| PKNOX2 | -1.89497 | 1.387259 | 1.82E-17 | 4.17E-16 | |
| RYR3 | -2.13311 | 2.049272 | 2.02E-17 | 4.64E-16 | |
| PCP4L1 | -2.87932 | 1.742032 | 2.17E-17 | 4.97E-16 | |
| TRIM73 | -1.58982 | -1.61605 | 2.28E-17 | 5.18E-16 | |
| NACAD | -1.89639 | 2.18196 | 2.34E-17 | 5.33E-16 | |
| BEX4 | -1.67045 | 3.729346 | 2.66E-17 | 6.01E-16 | |
| LDHD | -1.81969 | 3.746374 | 2.71E-17 | 6.13E-16 | |
| SNRPN | -1.58045 | 3.894733 | 2.87E-17 | 6.46E-16 | |
| C15orf62 | -1.67083 | 1.412745 | 2.92E-17 | 6.58E-16 | |
| MRO | -1.7839 | 0.507001 | 2.98E-17 | 6.68E-16 | |
| SFRP1 | -2.64537 | 4.805415 | 3.02E-17 | 6.76E-16 | |
| LGI1 | -2.61175 | -0.85385 | 3.11E-17 | 6.94E-16 | |

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|----------|----------|----------|----------|----------|
| MS4A18 | -3.71706 | -1.23676 | 3.13E-17 | 6.98E-16 |
| NR1I3 | -1.56166 | -0.67989 | 3.24E-17 | 7.23E-16 |
| HOPX | -2.08709 | 5.266501 | 3.43E-17 | 7.61E-16 |
| AQP7 | -1.96849 | 1.714272 | 3.54E-17 | 7.85E-16 |
| GSDMC | -2.65647 | 1.05622 | 3.60E-17 | 7.96E-16 |
| GYPC | -1.56891 | 4.678156 | 3.77E-17 | 8.32E-16 |
| MYO1A | -2.23651 | 5.749548 | 3.78E-17 | 8.32E-16 |
| USH1G | -3.28856 | -0.07994 | 3.95E-17 | 8.67E-16 |
| KCNJ16 | -2.98654 | 1.892423 | 4.26E-17 | 9.32E-16 |
| EDN3 | -2.57985 | 3.013909 | 4.33E-17 | 9.48E-16 |
| KLF15 | -2.22373 | 2.506949 | 4.38E-17 | 9.58E-16 |
| SELENOM | -1.55721 | 6.260557 | 4.45E-17 | 9.71E-16 |
| LGALS9B | -2.6683 | 2.451355 | 5.22E-17 | 1.13E-15 |
| CAPNS2 | -3.86106 | 0.512769 | 5.42E-17 | 1.18E-15 |
| PPP1R14A | -2.01685 | 4.175597 | 6.01E-17 | 1.30E-15 |
| SCIN | -2.02049 | 4.129931 | 6.29E-17 | 1.35E-15 |
| PNOC | -2.18 | 0.676369 | 6.41E-17 | 1.37E-15 |
| ACOX2 | -1.75314 | 2.920063 | 7.71E-17 | 1.65E-15 |
| GLOD5 | -1.86789 | 0.462433 | 8.12E-17 | 1.73E-15 |
| TIAM1 | -1.74773 | 3.534279 | 8.40E-17 | 1.79E-15 |
| EPB41L3 | -1.53231 | 4.449119 | 9.34E-17 | 1.97E-15 |
| FAM229B | -1.51461 | 2.069528 | 9.44E-17 | 1.99E-15 |
| KY | -2.04289 | 0.226846 | 9.89E-17 | 2.08E-15 |
| NTN1 | -2.01893 | 5.279403 | 1.00E-16 | 2.10E-15 |
| HMGCLL1 | -2.20383 | -1.57495 | 1.06E-16 | 2.22E-15 |
| LRAT | -2.66017 | 0.834505 | 1.08E-16 | 2.26E-15 |
| BHMT2 | -1.99488 | 1.618058 | 1.09E-16 | 2.28E-15 |
| KPRP | -5.09425 | 1.430954 | 1.19E-16 | 2.48E-15 |
| CRISP3 | -4.15819 | 4.518797 | 1.25E-16 | 2.59E-15 |
| AARD | -2.3914 | 0.144768 | 1.26E-16 | 2.62E-15 |
| SERTM1 | -3.39799 | -1.86905 | 1.26E-16 | 2.62E-15 |
| PHOX2A | -3.0951 | -1.61191 | 1.28E-16 | 2.66E-15 |
| TINCR | -2.6108 | 1.233745 | 1.32E-16 | 2.72E-15 |
| CDH19 | -2.7077 | 1.915135 | 1.44E-16 | 2.97E-15 |
| PRPH | -2.50479 | 0.048854 | 1.57E-16 | 3.22E-15 |
| C1QTNF4 | -1.97682 | -0.37927 | 1.86E-16 | 3.77E-15 |
| KANK2 | -1.53085 | 6.826535 | 1.88E-16 | 3.81E-15 |
| CYP4B1 | -2.66707 | 1.711665 | 1.94E-16 | 3.93E-15 |
| MUC21 | -4.75645 | 6.622944 | 1.96E-16 | 3.96E-15 |
| PRDM8 | -1.74652 | 2.626936 | 2.34E-16 | 4.71E-15 |
| DEFA6 | -4.61661 | 4.020448 | 2.37E-16 | 4.76E-15 |
| PTH1R | -1.76745 | 0.167782 | 2.41E-16 | 4.82E-15 |
| PLIN4 | -2.74337 | 5.202366 | 2.51E-16 | 5.01E-15 |
| ENPP6 | -1.9792 | -0.1902 | 2.66E-16 | 5.29E-15 |

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|-----------|----------|----------|----------|----------|
| MAPK10 | -1.79467 | 2.621462 | 2.74E-16 | 5.45E-15 |
| KRT2 | -2.79232 | -1.51793 | 2.84E-16 | 5.64E-15 |
| HBA1 | -2.40235 | 1.573888 | 3.07E-16 | 6.09E-15 |
| MPPED2 | -1.75933 | 0.834123 | 3.21E-16 | 6.34E-15 |
| FRZB | -1.92638 | 4.96499 | 3.29E-16 | 6.49E-15 |
| CRHBP | -1.76393 | -1.03391 | 3.36E-16 | 6.61E-15 |
| AKAP6 | -2.15984 | 3.651149 | 3.43E-16 | 6.74E-15 |
| TMEM108 | -1.54382 | 1.137945 | 3.69E-16 | 7.22E-15 |
| C2orf88 | -1.7228 | 3.516291 | 3.76E-16 | 7.35E-15 |
| LOR | -2.53622 | -3.21566 | 3.78E-16 | 7.39E-15 |
| TNFAIP8L3 | -1.75692 | 1.905831 | 3.88E-16 | 7.56E-15 |
| SMIM24 | -2.24967 | 6.691448 | 3.96E-16 | 7.68E-15 |
| SLC6A1 | -1.61579 | 0.936122 | 4.22E-16 | 8.18E-15 |
| FBXL22 | -2.00026 | 2.622784 | 4.36E-16 | 8.43E-15 |
| PHOX2B | -3.23094 | -1.93763 | 4.54E-16 | 8.79E-15 |
| ANGPT1 | -1.50314 | 2.597449 | 4.93E-16 | 9.50E-15 |
| ENHO | -2.15811 | -0.41111 | 5.02E-16 | 9.65E-15 |
| MSANTD1 | -1.57449 | -0.50013 | 5.15E-16 | 9.85E-15 |
| IGFL1 | -3.93695 | 1.576134 | 5.18E-16 | 9.90E-15 |
| LMOD1 | -2.47632 | 7.015531 | 5.19E-16 | 9.91E-15 |
| CPEB1 | -1.97098 | 0.533633 | 5.28E-16 | 1.01E-14 |
| FETUB | -3.88663 | -1.2988 | 5.36E-16 | 1.02E-14 |
| PGR | -2.01567 | 2.125603 | 5.72E-16 | 1.09E-14 |
| SVIL | -1.78882 | 7.568437 | 6.00E-16 | 1.13E-14 |
| ABCG4 | -1.64437 | -0.8473 | 6.05E-16 | 1.14E-14 |
| PDZRN3 | -1.8233 | 5.119363 | 6.12E-16 | 1.15E-14 |
| CD79A | -2.46772 | 5.816336 | 6.37E-16 | 1.20E-14 |
| HTR7 | -1.83498 | -0.75596 | 6.51E-16 | 1.22E-14 |
| ADH7 | -4.27895 | 3.126807 | 7.89E-16 | 1.47E-14 |
| PRICKLE2 | -1.8145 | 4.372589 | 8.18E-16 | 1.52E-14 |
| STMN4 | -2.59292 | -2.57645 | 8.34E-16 | 1.55E-14 |
| MYL4 | -1.72847 | -1.21921 | 8.70E-16 | 1.61E-14 |
| HSPB2 | -1.68592 | -0.74973 | 8.74E-16 | 1.61E-14 |
| CCR10 | -1.53797 | 0.992025 | 8.88E-16 | 1.63E-14 |
| TRIM50 | -3.11085 | 1.104032 | 9.15E-16 | 1.68E-14 |
| CLCNKA | -2.39733 | -0.85806 | 9.59E-16 | 1.75E-14 |
| COL4A5 | -1.96268 | 4.603971 | 9.68E-16 | 1.77E-14 |
| TGM1 | -3.27292 | 4.860946 | 9.78E-16 | 1.78E-14 |
| CDHR2 | -2.36221 | 6.083109 | 1.05E-15 | 1.91E-14 |
| PDLIM3 | -1.94945 | 6.760235 | 1.11E-15 | 2.01E-14 |
| OPCML | -2.06742 | -0.50567 | 1.12E-15 | 2.03E-14 |
| TRIM74 | -1.73203 | -2.36213 | 1.19E-15 | 2.14E-14 |
| MMRN1 | -1.98454 | 3.278181 | 1.24E-15 | 2.22E-14 |
| THSD4 | -1.70131 | 4.927385 | 1.27E-15 | 2.29E-14 |

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| C8orf88 | -2.3058 | 1.067711 | 1.30E-15 | 2.33E-14 |
| S100A9 | -3.02763 | 8.398399 | 1.30E-15 | 2.33E-14 |
| SLC13A2 | -3.23868 | 4.137867 | 1.39E-15 | 2.48E-14 |
| AC087651.1 | -2.87956 | 0.862903 | 1.39E-15 | 2.48E-14 |
| FERMT2 | -1.68483 | 6.124901 | 1.41E-15 | 2.52E-14 |
| NPTX1 | -2.83848 | 3.365951 | 1.47E-15 | 2.62E-14 |
| GABRA5 | -3.08476 | -0.86209 | 1.51E-15 | 2.68E-14 |
| NRG2 | -2.00615 | 0.566196 | 1.53E-15 | 2.72E-14 |
| TMEM82 | -2.41268 | 2.061772 | 1.56E-15 | 2.76E-14 |
| CORO6 | -1.78625 | 0.859943 | 1.57E-15 | 2.77E-14 |
| KLHDC8A | -1.52169 | 0.917965 | 1.60E-15 | 2.83E-14 |
| C1QTNF7 | -2.10675 | 2.45162 | 1.70E-15 | 3.00E-14 |
| ARL4D | -2.00667 | 2.255466 | 1.79E-15 | 3.15E-14 |
| PLIN5 | -1.8073 | 0.692046 | 1.90E-15 | 3.33E-14 |
| MYOM1 | -1.94752 | 3.228304 | 2.01E-15 | 3.52E-14 |
| DIXDC1 | -1.62796 | 5.07396 | 2.07E-15 | 3.63E-14 |
| MYMX | -1.90279 | -0.85391 | 2.11E-15 | 3.69E-14 |
| DMD | -1.9459 | 5.194284 | 2.13E-15 | 3.72E-14 |
| ENAM | -2.14163 | 0.43949 | 2.14E-15 | 3.72E-14 |
| RNF150 | -2.09543 | 4.48049 | 2.16E-15 | 3.76E-14 |
| NAP1L2 | -2.16207 | 0.6121 | 2.20E-15 | 3.81E-14 |
| MAP6 | -1.88905 | 2.652895 | 2.20E-15 | 3.82E-14 |
| UBE2QL1 | -2.04437 | 1.33084 | 2.23E-15 | 3.87E-14 |
| MAOA | -1.59676 | 6.341941 | 2.42E-15 | 4.17E-14 |
| ADRA1A | -1.8385 | -1.15753 | 2.47E-15 | 4.25E-14 |
| DGKG | -1.85178 | 2.760892 | 2.48E-15 | 4.25E-14 |
| HSPB6 | -2.73033 | 7.807874 | 2.63E-15 | 4.50E-14 |
| GJB2 | -1.95735 | 6.434911 | 2.73E-15 | 4.65E-14 |
| PADI1 | -3.35985 | 2.927476 | 2.84E-15 | 4.82E-14 |
| IRF4 | -1.89737 | 3.542274 | 2.84E-15 | 4.83E-14 |
| LRRN4CL | -1.69581 | 2.222065 | 2.85E-15 | 4.83E-14 |
| COL23A1 | -1.63504 | 1.45267 | 3.03E-15 | 5.12E-14 |
| IL36A | -4.9703 | 2.505467 | 3.10E-15 | 5.22E-14 |
| CDON | -1.76854 | 3.79702 | 3.13E-15 | 5.26E-14 |
| TFF2 | -3.08917 | 8.261119 | 3.15E-15 | 5.29E-14 |
| PENK | -3.04552 | 1.677029 | 3.24E-15 | 5.43E-14 |
| B3GNT8 | -1.75072 | 3.534507 | 3.24E-15 | 5.43E-14 |
| LTF | -2.87152 | 7.145775 | 3.43E-15 | 5.71E-14 |
| SV2C | -2.15499 | 0.217293 | 3.50E-15 | 5.83E-14 |
| TNXB | -2.01024 | 5.940056 | 3.53E-15 | 5.87E-14 |
| FGF2 | -1.85781 | 3.243195 | 3.65E-15 | 6.05E-14 |
| RBM20 | -2.27986 | 0.698483 | 4.05E-15 | 6.69E-14 |
| EML1 | -1.63073 | 4.752393 | 4.06E-15 | 6.69E-14 |
| RNF165 | -1.91928 | 0.406592 | 4.07E-15 | 6.69E-14 |

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|----------|----------|----------|----------|----------|
| GNAO1 | -2.20991 | 4.646566 | 4.13E-15 | 6.79E-14 |
| NDN | -1.54183 | 4.09152 | 4.14E-15 | 6.80E-14 |
| BEND5 | -1.87557 | 0.86274 | 4.26E-15 | 6.96E-14 |
| LYPD3 | -2.76762 | 5.375965 | 4.46E-15 | 7.28E-14 |
| CYP2C18 | -2.11275 | 4.28136 | 4.54E-15 | 7.39E-14 |
| VIP | -2.98797 | 2.68165 | 4.59E-15 | 7.45E-14 |
| TMEM238L | -2.18411 | 3.850396 | 4.80E-15 | 7.78E-14 |
| TMEM40 | -3.2513 | 2.33113 | 5.00E-15 | 8.09E-14 |
| DSC3 | -3.1559 | 4.583218 | 5.17E-15 | 8.35E-14 |
| S100A8 | -3.18616 | 7.536397 | 5.27E-15 | 8.50E-14 |
| CABCOCO1 | -1.88207 | -0.74902 | 6.17E-15 | 9.87E-14 |
| GFRA1 | -2.28321 | 4.346648 | 6.37E-15 | 1.02E-13 |
| CYP1A1 | -3.21046 | -0.07973 | 6.60E-15 | 1.05E-13 |
| NEXN | -1.96248 | 5.613505 | 6.73E-15 | 1.07E-13 |
| SORBS1 | -2.09053 | 7.644915 | 7.06E-15 | 1.12E-13 |
| REEP2 | -2.00447 | 2.450999 | 7.26E-15 | 1.15E-13 |
| DACT3 | -1.9669 | 4.201764 | 7.30E-15 | 1.16E-13 |
| TRPC4 | -1.82678 | 1.258054 | 8.06E-15 | 1.27E-13 |
| NR4A1 | -1.65377 | 7.14484 | 8.50E-15 | 1.33E-13 |
| SGCG | -2.31757 | -1.54747 | 8.58E-15 | 1.34E-13 |
| PRKAR2B | -1.6126 | 3.988838 | 8.81E-15 | 1.37E-13 |
| KRT4 | -4.61799 | 9.716093 | 8.96E-15 | 1.40E-13 |
| MYRIP | -1.86557 | 2.154843 | 9.26E-15 | 1.44E-13 |
| ID4 | -1.51137 | 3.915041 | 9.71E-15 | 1.51E-13 |
| ACTN2 | -2.76022 | 2.059052 | 9.83E-15 | 1.52E-13 |
| ASB2 | -2.07946 | 4.139741 | 9.94E-15 | 1.54E-13 |
| DOCK3 | -1.87286 | 2.002201 | 1.01E-14 | 1.56E-13 |
| LIX1 | -2.58629 | -0.48491 | 1.06E-14 | 1.64E-13 |
| TAGLN | -2.08762 | 9.092542 | 1.10E-14 | 1.69E-13 |
| MORN5 | -3.05565 | 0.336628 | 1.13E-14 | 1.73E-13 |
| ZNF536 | -2.02739 | 0.337742 | 1.13E-14 | 1.74E-13 |
| XDH | -2.04891 | 4.603391 | 1.17E-14 | 1.80E-13 |
| PAIP2B | -1.59206 | 2.899908 | 1.17E-14 | 1.80E-13 |
| MSRB3 | -1.85607 | 5.706764 | 1.28E-14 | 1.95E-13 |
| GRIK5 | -2.08238 | 2.37025 | 1.30E-14 | 1.98E-13 |
| ITIH5 | -1.71547 | 5.179111 | 1.36E-14 | 2.07E-13 |
| C22orf23 | -1.53957 | 0.055124 | 1.38E-14 | 2.10E-13 |
| ATCAY | -2.1565 | -1.03831 | 1.44E-14 | 2.18E-13 |
| CHAD | -1.98732 | 1.054006 | 1.53E-14 | 2.32E-13 |
| KLRB1 | -1.58825 | 2.28738 | 1.54E-14 | 2.34E-13 |
| TPSG1 | -2.32163 | 0.624308 | 1.55E-14 | 2.35E-13 |
| LCN6 | -2.04551 | -1.91561 | 1.57E-14 | 2.37E-13 |
| CLIC3 | -2.07479 | 4.455417 | 1.87E-14 | 2.81E-13 |
| PKHD1L1 | -1.89691 | 0.461368 | 1.88E-14 | 2.82E-13 |

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|------------|----------|----------|----------|----------|
| ANKS1B | -1.99524 | 0.7377 | 1.88E-14 | 2.82E-13 |
| SORBS2 | -1.66117 | 5.524817 | 1.91E-14 | 2.86E-13 |
| EPGN | -3.51767 | 0.144186 | 1.94E-14 | 2.91E-13 |
| GSG1L | -1.96101 | -2.46875 | 1.97E-14 | 2.95E-13 |
| SLC46A2 | -1.89091 | -1.72426 | 2.00E-14 | 2.99E-13 |
| PTPN13 | -1.73336 | 3.906654 | 2.04E-14 | 3.05E-13 |
| LDB3 | -2.47468 | 3.80709 | 2.05E-14 | 3.06E-13 |
| GRIK2 | -1.96379 | -0.59012 | 2.06E-14 | 3.07E-13 |
| WFDC12 | -2.77301 | -1.90718 | 2.20E-14 | 3.27E-13 |
| POPDC2 | -2.11055 | 3.005543 | 2.22E-14 | 3.30E-13 |
| CPA4 | -2.79872 | 0.871452 | 2.25E-14 | 3.33E-13 |
| RNF112 | -1.52216 | -0.69329 | 2.30E-14 | 3.39E-13 |
| UNC5D | -2.58617 | -0.42428 | 2.34E-14 | 3.45E-13 |
| EVPL | -1.74716 | 6.898826 | 2.44E-14 | 3.59E-13 |
| PCARE | -2.61693 | -2.85383 | 2.46E-14 | 3.62E-13 |
| TCEAL2 | -2.74979 | 2.410235 | 2.51E-14 | 3.69E-13 |
| CALD1 | -1.78768 | 9.531885 | 2.53E-14 | 3.71E-13 |
| MAB21L1 | -2.10025 | -1.32417 | 2.59E-14 | 3.79E-13 |
| PLA2G4D | -2.28604 | 0.044465 | 2.72E-14 | 3.97E-13 |
| TMPRSS11E | -4.05972 | 3.578961 | 2.78E-14 | 4.06E-13 |
| SLITRK3 | -2.64246 | -0.54795 | 2.86E-14 | 4.16E-13 |
| FOXN1 | -2.80438 | 0.683326 | 2.88E-14 | 4.18E-13 |
| NIPAL4 | -2.3629 | 1.645464 | 2.90E-14 | 4.21E-13 |
| TMPRSS11B | -4.89404 | 4.193059 | 2.98E-14 | 4.32E-13 |
| KCNA1 | -3.22383 | 1.095779 | 3.03E-14 | 4.39E-13 |
| CABP7 | -1.65204 | -0.95738 | 3.24E-14 | 4.68E-13 |
| AC093503.1 | -1.847 | -2.68742 | 3.37E-14 | 4.85E-13 |
| NLRP6 | -2.42987 | 2.90876 | 3.46E-14 | 4.97E-13 |
| HACD1 | -1.79605 | 2.181018 | 3.52E-14 | 5.04E-13 |
| CERS3 | -3.42903 | 1.927985 | 3.53E-14 | 5.06E-13 |
| OLFM3 | -2.9191 | -2.68827 | 3.71E-14 | 5.29E-13 |
| PRAP1 | -2.563 | 6.194966 | 4.65E-14 | 6.59E-13 |
| ZNF471 | -1.65596 | 1.580451 | 4.99E-14 | 7.03E-13 |
| PGLYRP3 | -3.38484 | 1.283798 | 5.22E-14 | 7.35E-13 |
| MRGPRF | -2.00509 | 4.939542 | 5.56E-14 | 7.80E-13 |
| FLNA | -1.85166 | 11.26532 | 6.16E-14 | 8.61E-13 |
| DCN | -1.50315 | 8.596051 | 6.48E-14 | 9.03E-13 |
| CASQ2 | -2.56088 | 3.256617 | 6.89E-14 | 9.56E-13 |
| APOBEC2 | -2.08951 | 0.97196 | 7.57E-14 | 1.05E-12 |
| DSG1 | -3.34162 | 2.599381 | 7.68E-14 | 1.06E-12 |
| FAT2 | -2.85847 | 3.395086 | 7.93E-14 | 1.09E-12 |
| ADGRB3 | -2.20352 | 0.306243 | 8.01E-14 | 1.10E-12 |
| DUSP26 | -1.99854 | 0.174444 | 8.50E-14 | 1.16E-12 |
| MYOZ1 | -1.66927 | -1.17249 | 9.00E-14 | 1.23E-12 |

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|---------|----------|----------|----------|----------|
| SPEG | -2.18896 | 5.120756 | 9.25E-14 | 1.26E-12 |
| ANK2 | -1.91057 | 4.364659 | 9.53E-14 | 1.30E-12 |
| GPRASP1 | -1.69977 | 3.021749 | 9.88E-14 | 1.34E-12 |
| ADH1B | -2.45243 | 5.046858 | 9.99E-14 | 1.35E-12 |
| HIPK4 | -1.61882 | -1.6931 | 1.11E-13 | 1.49E-12 |
| FRMD1 | -2.47074 | 0.946155 | 1.17E-13 | 1.57E-12 |
| AQP3 | -2.19173 | 6.137657 | 1.18E-13 | 1.58E-12 |
| CACNA1H | -1.82152 | 6.074044 | 1.24E-13 | 1.65E-12 |
| CLCA4 | -3.70044 | 5.195615 | 1.35E-13 | 1.78E-12 |
| HAND2 | -2.65744 | 4.430756 | 1.41E-13 | 1.86E-12 |
| GALR1 | -2.41146 | -2.05164 | 1.72E-13 | 2.24E-12 |
| CALY | -2.44777 | 0.019065 | 1.74E-13 | 2.27E-12 |
| BBOX1 | -2.30958 | 0.240127 | 1.76E-13 | 2.29E-12 |
| CHRM2 | -2.8675 | 3.368745 | 1.83E-13 | 2.38E-12 |
| ZSCAN18 | -1.5767 | 3.630507 | 1.88E-13 | 2.44E-12 |
| MYH11 | -2.65185 | 11.42337 | 2.01E-13 | 2.61E-12 |
| GRIK3 | -2.44818 | 1.521197 | 2.03E-13 | 2.62E-12 |
| ALOX15B | -2.03185 | 2.083267 | 2.05E-13 | 2.65E-12 |
| GRHL1 | -1.71348 | 4.115789 | 2.08E-13 | 2.68E-12 |
| AOC3 | -1.83092 | 6.072869 | 2.10E-13 | 2.72E-12 |
| CYP11A1 | -1.98841 | -0.39088 | 2.18E-13 | 2.81E-12 |
| HSD17B2 | -1.94802 | 5.720246 | 2.30E-13 | 2.96E-12 |
| BFSP2 | -1.81971 | -1.60784 | 2.36E-13 | 3.03E-12 |
| PPP1R3G | -1.56487 | 1.33663 | 2.39E-13 | 3.07E-12 |
| CXCR2 | -2.1121 | 2.226375 | 2.40E-13 | 3.08E-12 |
| VILL | -1.58157 | 6.172353 | 2.40E-13 | 3.08E-12 |
| ADH4 | -2.90007 | 3.465097 | 2.50E-13 | 3.20E-12 |
| KCNJ15 | -2.11626 | 3.717504 | 2.58E-13 | 3.29E-12 |
| BTNL3 | -2.56268 | 3.05846 | 2.79E-13 | 3.55E-12 |
| RAB9B | -1.77139 | 1.630764 | 3.01E-13 | 3.81E-12 |
| MYOZ2 | -2.18456 | -2.06354 | 3.09E-13 | 3.90E-12 |
| FILIP1 | -1.82912 | 4.189621 | 3.20E-13 | 4.03E-12 |
| ANPEP | -2.61055 | 9.623978 | 3.57E-13 | 4.47E-12 |
| HTR1E | -3.13951 | -2.76269 | 3.66E-13 | 4.58E-12 |
| BVES | -1.89821 | 3.514898 | 3.77E-13 | 4.71E-12 |
| NKX2-3 | -1.6784 | 0.787717 | 4.03E-13 | 5.02E-12 |
| CHP2 | -2.90782 | 3.835379 | 4.04E-13 | 5.03E-12 |
| ZNF750 | -2.86381 | 3.371401 | 4.33E-13 | 5.36E-12 |
| C8G | -2.39703 | 2.481443 | 4.42E-13 | 5.46E-12 |
| MFAP4 | -1.7488 | 7.331888 | 4.49E-13 | 5.54E-12 |
| FGFBP2 | -1.58971 | -0.87645 | 4.52E-13 | 5.57E-12 |
| SCGB2A1 | -2.88504 | 1.234113 | 4.68E-13 | 5.76E-12 |
| NCS1 | -1.62728 | 5.47044 | 5.62E-13 | 6.82E-12 |
| NMBR | -2.17846 | -3.33664 | 5.66E-13 | 6.86E-12 |

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|----------|----------|----------|----------|----------|
| GLP2R | -1.94793 | 1.268677 | 5.73E-13 | 6.93E-12 |
| FOXP2 | -2.02962 | 3.692166 | 5.92E-13 | 7.14E-12 |
| UGT2B17 | -3.39268 | 2.842278 | 6.07E-13 | 7.31E-12 |
| ART3 | -2.07197 | -0.0593 | 7.04E-13 | 8.42E-12 |
| DAAM2 | -1.55351 | 4.761015 | 7.12E-13 | 8.51E-12 |
| NGB | -3.2728 | -1.59094 | 7.26E-13 | 8.66E-12 |
| P2RX2 | -2.37127 | -0.60801 | 7.49E-13 | 8.93E-12 |
| NME5 | -1.65014 | -0.07617 | 7.67E-13 | 9.13E-12 |
| MICU3 | -1.50102 | 1.500917 | 7.68E-13 | 9.14E-12 |
| RBM24 | -1.95835 | 1.200255 | 7.84E-13 | 9.32E-12 |
| KIT | -1.60038 | 4.094832 | 7.87E-13 | 9.34E-12 |
| KCNN3 | -1.52384 | 3.999865 | 8.59E-13 | 1.01E-11 |
| PKP1 | -3.17334 | 5.788258 | 9.03E-13 | 1.06E-11 |
| SERPINB3 | -3.76794 | 4.603929 | 9.05E-13 | 1.07E-11 |
| RTL5 | -1.50822 | 2.656781 | 9.60E-13 | 1.13E-11 |
| SOBP | -1.53665 | 3.905665 | 9.65E-13 | 1.13E-11 |
| FBXO32 | -1.56068 | 6.50701 | 1.06E-12 | 1.24E-11 |
| FRRS1L | -2.48102 | 2.189298 | 1.07E-12 | 1.25E-11 |
| CYP2C9 | -2.07528 | 2.506984 | 1.07E-12 | 1.25E-11 |
| OTC | -2.82983 | 2.926806 | 1.27E-12 | 1.48E-11 |
| CSPG4 | -1.58204 | 6.140081 | 1.40E-12 | 1.61E-11 |
| LRRTM1 | -2.44262 | -0.53714 | 1.41E-12 | 1.62E-11 |
| SMPX | -3.02694 | 1.651644 | 1.60E-12 | 1.84E-11 |
| AKR1B10 | -2.41405 | 7.378454 | 1.65E-12 | 1.89E-11 |
| SLC9A4 | -2.62509 | 3.68551 | 1.68E-12 | 1.92E-11 |
| SYNM | -2.51065 | 8.016411 | 1.70E-12 | 1.94E-11 |
| CAPN9 | -2.35215 | 3.473873 | 1.71E-12 | 1.95E-11 |
| ATG9B | -1.70851 | 2.564967 | 1.75E-12 | 1.99E-11 |
| UGT2B7 | -2.29581 | 2.698897 | 1.80E-12 | 2.04E-11 |
| DYNC111 | -1.77372 | 2.074345 | 1.86E-12 | 2.11E-11 |
| PDILT | -3.26535 | -0.2997 | 1.88E-12 | 2.12E-11 |
| ACTA2 | -1.71706 | 8.920454 | 1.89E-12 | 2.13E-11 |
| TSPAN2 | -1.69871 | 4.184708 | 2.00E-12 | 2.26E-11 |
| KLHL41 | -1.80266 | -0.55503 | 2.17E-12 | 2.44E-11 |
| DYNAP | -4.10549 | 0.537665 | 2.21E-12 | 2.49E-11 |
| SLC18A3 | -3.01413 | -0.64887 | 2.32E-12 | 2.59E-11 |
| IP6K3 | -1.85817 | -0.93185 | 2.32E-12 | 2.59E-11 |
| CPED1 | -1.7581 | 5.149357 | 2.42E-12 | 2.70E-11 |
| ATOH8 | -1.61528 | 2.395454 | 2.43E-12 | 2.71E-11 |
| MAOB | -1.75267 | 5.12583 | 2.44E-12 | 2.72E-11 |
| SPRR3 | -4.20391 | 8.863652 | 2.52E-12 | 2.80E-11 |
| S100A14 | -1.84828 | 7.284253 | 2.67E-12 | 2.95E-11 |
| FOXD3 | -2.19467 | -0.50291 | 2.68E-12 | 2.96E-11 |
| ZP1 | -1.59651 | -2.2946 | 2.81E-12 | 3.10E-11 |

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|----------|----------|----------|----------|----------|
| TMED6 | -1.65339 | 1.075762 | 2.87E-12 | 3.16E-11 |
| STMN2 | -2.29519 | 1.68156 | 3.00E-12 | 3.30E-11 |
| TMEM132E | -1.71261 | 0.260678 | 3.03E-12 | 3.32E-11 |
| ADAMTSL3 | -1.69746 | 3.171241 | 3.43E-12 | 3.73E-11 |
| SSUH2 | -1.82758 | 1.314617 | 3.45E-12 | 3.75E-11 |
| ATP2B2 | -2.11939 | -0.68539 | 3.61E-12 | 3.92E-11 |
| CNTN2 | -1.97423 | 0.065663 | 3.78E-12 | 4.09E-11 |
| AADAC | -2.27393 | 3.914767 | 3.79E-12 | 4.10E-11 |
| F11 | -2.61352 | -0.79396 | 3.81E-12 | 4.12E-11 |
| GDPD3 | -1.53764 | 3.144436 | 3.85E-12 | 4.16E-11 |
| RANBP3L | -1.78254 | -0.91364 | 3.88E-12 | 4.18E-11 |
| ATP12A | -3.01755 | 0.349415 | 3.96E-12 | 4.27E-11 |
| ESRRB | -1.92547 | -0.51864 | 4.01E-12 | 4.32E-11 |
| AR | -1.73901 | 2.370096 | 4.23E-12 | 4.53E-11 |
| ZFPM2 | -1.50021 | 2.721687 | 4.26E-12 | 4.57E-11 |
| ROR2 | -1.6288 | 4.329426 | 4.27E-12 | 4.57E-11 |
| GRIA2 | -2.61306 | -0.88429 | 4.28E-12 | 4.58E-11 |
| SLC35F1 | -1.74365 | 0.905404 | 4.65E-12 | 4.96E-11 |
| ADCY5 | -1.97156 | 4.947488 | 4.96E-12 | 5.28E-11 |
| FABP5 | -1.62129 | 5.688365 | 5.00E-12 | 5.31E-11 |
| CCKBR | -2.80486 | 1.769478 | 5.03E-12 | 5.34E-11 |
| KCNK7 | -1.57125 | -0.13143 | 5.15E-12 | 5.46E-11 |
| LIPF | -3.7076 | 10.60542 | 5.15E-12 | 5.47E-11 |
| RADIL | -1.61379 | 0.875077 | 5.18E-12 | 5.49E-11 |
| MYLK | -1.98793 | 8.878083 | 5.27E-12 | 5.57E-11 |
| CLCA1 | -3.52182 | 5.176048 | 5.36E-12 | 5.67E-11 |
| TAGLN3 | -2.47923 | -1.00146 | 5.46E-12 | 5.77E-11 |
| SNX31 | -2.25787 | -0.76365 | 5.56E-12 | 5.86E-11 |
| SMIM6 | -1.6576 | 2.808642 | 5.95E-12 | 6.25E-11 |
| RHCG | -3.59351 | 7.579061 | 6.12E-12 | 6.41E-11 |
| PDE1C | -1.50527 | 2.492852 | 6.48E-12 | 6.76E-11 |
| MAPT | -1.93138 | 2.618856 | 6.99E-12 | 7.27E-11 |
| NUDT10 | -1.89159 | -0.67613 | 7.01E-12 | 7.29E-11 |
| TMEM252 | -2.36785 | 0.45243 | 7.22E-12 | 7.49E-11 |
| NEXMIF | -2.04994 | 0.679269 | 7.23E-12 | 7.50E-11 |
| ACER2 | -1.65502 | 3.997681 | 7.49E-12 | 7.75E-11 |
| RAET1L | -2.45635 | 1.156932 | 7.62E-12 | 7.87E-11 |
| GRPR | -2.24875 | 0.201464 | 8.14E-12 | 8.35E-11 |
| DUOX1 | -1.93249 | 4.831335 | 8.33E-12 | 8.53E-11 |
| PLSCR5 | -3.07897 | -3.64617 | 8.42E-12 | 8.60E-11 |
| CRNN | -5.1765 | 7.655164 | 8.82E-12 | 8.98E-11 |
| CPB1 | -2.70195 | 0.409918 | 8.91E-12 | 9.05E-11 |
| CNN1 | -2.42769 | 8.587257 | 1.16E-11 | 1.16E-10 |
| JPH2 | -2.07314 | 4.750069 | 1.18E-11 | 1.18E-10 |

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|---------|----------|----------|----------|----------|
| SLURP1 | -4.06461 | 3.284691 | 1.19E-11 | 1.19E-10 |
| PPY | -2.89621 | -2.25823 | 1.22E-11 | 1.21E-10 |
| EDN2 | -2.1768 | 0.673151 | 1.24E-11 | 1.23E-10 |
| SMYD1 | -3.10184 | 3.509476 | 1.24E-11 | 1.24E-10 |
| KRT32 | -3.36221 | -1.82353 | 1.28E-11 | 1.27E-10 |
| SH3GL2 | -2.44167 | -0.31055 | 1.31E-11 | 1.29E-10 |
| REEP1 | -1.78019 | 3.347107 | 1.36E-11 | 1.34E-10 |
| DSC2 | -1.65535 | 6.77596 | 1.42E-11 | 1.39E-10 |
| TP63 | -2.57322 | 3.274856 | 1.42E-11 | 1.39E-10 |
| KRT13 | -3.9677 | 9.541866 | 1.44E-11 | 1.42E-10 |
| PTX3 | -1.61708 | 0.39069 | 1.55E-11 | 1.51E-10 |
| TGM5 | -2.99046 | -0.35679 | 1.56E-11 | 1.52E-10 |
| MAPK4 | -2.40553 | 2.360681 | 1.57E-11 | 1.53E-10 |
| WFIKKN2 | -1.95569 | -2.04022 | 1.60E-11 | 1.55E-10 |
| LANCL3 | -1.50282 | 0.888914 | 1.67E-11 | 1.62E-10 |
| PLPPR5 | -2.39852 | -2.56782 | 1.79E-11 | 1.73E-10 |
| GALNT15 | -1.57443 | 2.440038 | 1.88E-11 | 1.82E-10 |
| LGALS7B | -2.87163 | 1.713266 | 1.92E-11 | 1.85E-10 |
| MYOCD | -2.0034 | 4.58377 | 2.00E-11 | 1.92E-10 |
| ABCA9 | -1.68125 | 2.153444 | 2.02E-11 | 1.94E-10 |
| FAM83C | -3.17548 | 1.201665 | 2.10E-11 | 2.01E-10 |
| SOX21 | -2.59955 | 3.562658 | 2.29E-11 | 2.18E-10 |
| ADAM33 | -1.84334 | 3.40518 | 2.32E-11 | 2.21E-10 |
| SPARCL1 | -1.61307 | 8.286993 | 2.33E-11 | 2.22E-10 |
| PIANP | -1.62183 | 0.574735 | 2.39E-11 | 2.28E-10 |
| GJB6 | -2.99281 | 3.104493 | 2.61E-11 | 2.48E-10 |
| SLC10A6 | -1.75629 | -0.24185 | 2.68E-11 | 2.53E-10 |
| ASPG | -2.05282 | 1.297144 | 2.85E-11 | 2.69E-10 |
| NPY2R | -2.93085 | -3.26209 | 2.87E-11 | 2.70E-10 |
| GPR15 | -2.20956 | 0.11957 | 2.91E-11 | 2.74E-10 |
| TXLNB | -1.50575 | 0.748448 | 2.95E-11 | 2.77E-10 |
| ADRB3 | -2.28612 | -0.60964 | 3.27E-11 | 3.05E-10 |
| GPR17 | -1.77546 | 0.058726 | 3.43E-11 | 3.19E-10 |
| ACTC1 | -1.90727 | 3.110653 | 3.45E-11 | 3.21E-10 |
| SULT1B1 | -1.90503 | 5.710755 | 3.45E-11 | 3.21E-10 |
| HSPB3 | -2.8119 | -1.84302 | 3.73E-11 | 3.47E-10 |
| ABCA8 | -1.8668 | 3.699097 | 4.28E-11 | 3.94E-10 |
| WSCD2 | -2.21585 | 2.409633 | 4.45E-11 | 4.09E-10 |
| GPR25 | -1.75966 | 0.834497 | 4.71E-11 | 4.32E-10 |
| MAB21L2 | -2.16164 | 0.454915 | 4.80E-11 | 4.39E-10 |
| ARHGEF4 | -1.80901 | 3.829095 | 4.97E-11 | 4.54E-10 |
| PGA3 | -3.92625 | 8.387876 | 5.09E-11 | 4.64E-10 |
| VXN | -1.95473 | -0.21783 | 5.15E-11 | 4.69E-10 |
| TNS1 | -1.65129 | 8.808932 | 5.16E-11 | 4.69E-10 |

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|-----------|----------|----------|----------|----------|
| SRPX | -1.57754 | 3.613315 | 5.21E-11 | 4.74E-10 |
| NOVA1 | -1.75371 | 2.341287 | 5.48E-11 | 4.97E-10 |
| SLC30A10 | -2.28664 | 0.609718 | 5.59E-11 | 5.06E-10 |
| BHLHA15 | -1.76144 | 1.885115 | 6.08E-11 | 5.48E-10 |
| AKR1C2 | -2.15568 | 4.829001 | 6.15E-11 | 5.53E-10 |
| LONRF2 | -1.91407 | 3.126067 | 6.29E-11 | 5.64E-10 |
| TMPRSS11D | -3.36571 | 2.669456 | 6.59E-11 | 5.90E-10 |
| MT1E | -1.56681 | 6.067601 | 6.81E-11 | 6.09E-10 |
| TNFRSF13B | -2.02852 | 1.019058 | 6.85E-11 | 6.11E-10 |
| DMRTA1 | -1.98207 | 0.956403 | 7.58E-11 | 6.71E-10 |
| WNT9A | -1.72459 | 2.651279 | 7.83E-11 | 6.90E-10 |
| CRABP2 | -2.12768 | 4.980531 | 8.10E-11 | 7.12E-10 |
| MMP27 | -2.00218 | -3.30553 | 8.31E-11 | 7.29E-10 |
| PHYHD1 | -1.52495 | 2.797616 | 8.43E-11 | 7.38E-10 |
| LVRN | -1.72021 | -0.84851 | 8.48E-11 | 7.42E-10 |
| CAND2 | -1.60266 | 2.536031 | 8.59E-11 | 7.51E-10 |
| ASIC5 | -2.703 | -3.26582 | 8.79E-11 | 7.66E-10 |
| BCHE | -2.12274 | 2.001661 | 8.98E-11 | 7.82E-10 |
| GRID2 | -2.15519 | -1.05891 | 9.48E-11 | 8.21E-10 |
| SH3GL3 | -2.46603 | -1.47693 | 1.03E-10 | 8.87E-10 |
| LMOD3 | -1.61075 | -0.44548 | 1.03E-10 | 8.89E-10 |
| SHISAL1 | -1.93432 | 3.480232 | 1.16E-10 | 9.96E-10 |
| DSG3 | -2.87267 | 5.997754 | 1.23E-10 | 1.05E-09 |
| CLMP | -1.50663 | 4.758684 | 1.34E-10 | 1.14E-09 |
| CAVIN2 | -1.50387 | 4.644256 | 1.34E-10 | 1.14E-09 |
| ICAM3 | -1.59067 | 1.810439 | 1.41E-10 | 1.19E-09 |
| ABCA4 | -1.57665 | -0.71353 | 1.42E-10 | 1.20E-09 |
| ZBTB7C | -1.77146 | 4.984848 | 1.49E-10 | 1.25E-09 |
| MUC22 | -3.4349 | 1.503161 | 1.70E-10 | 1.41E-09 |
| TACR2 | -2.29364 | 4.599369 | 1.75E-10 | 1.45E-09 |
| ZBED2 | -1.86633 | 1.102201 | 1.77E-10 | 1.47E-09 |
| CD207 | -1.76562 | 0.355344 | 1.77E-10 | 1.47E-09 |
| AKR1C3 | -1.50375 | 6.804709 | 1.80E-10 | 1.49E-09 |
| HRCT1 | -1.64152 | 0.783936 | 1.80E-10 | 1.50E-09 |
| DUOXA1 | -2.09764 | 2.707924 | 1.86E-10 | 1.54E-09 |
| SPINK8 | -3.01145 | -3.28165 | 1.91E-10 | 1.58E-09 |
| CHRD1 | -2.12715 | 4.017994 | 2.04E-10 | 1.68E-09 |
| AFF3 | -1.71813 | 2.86419 | 2.09E-10 | 1.72E-09 |
| RNF223 | -1.64667 | 2.448214 | 2.13E-10 | 1.75E-09 |
| RAET1G | -1.79946 | 0.13381 | 2.19E-10 | 1.79E-09 |
| SERPIN13 | -3.88759 | 3.160841 | 2.34E-10 | 1.90E-09 |
| SLC26A3 | -2.59228 | 3.985185 | 2.34E-10 | 1.91E-09 |
| SLC26A7 | -1.85404 | 0.005213 | 2.37E-10 | 1.93E-09 |
| SHISAL2B | -2.47071 | -1.88783 | 2.38E-10 | 1.94E-09 |

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|-----------|----------|----------|----------|----------|
| MLN | -3.16748 | -0.15867 | 2.65E-10 | 2.14E-09 |
| ELAVL3 | -1.8109 | -1.38129 | 2.67E-10 | 2.15E-09 |
| SBSPON | -1.70642 | 3.530981 | 2.88E-10 | 2.31E-09 |
| RYR2 | -1.77047 | 3.517614 | 2.99E-10 | 2.39E-09 |
| ADRA1D | -2.02149 | 1.9015 | 3.15E-10 | 2.50E-09 |
| CMA1 | -2.20896 | -0.88944 | 3.22E-10 | 2.55E-09 |
| RASGEF1C | -1.81583 | -0.82622 | 3.42E-10 | 2.70E-09 |
| CARTPT | -3.01595 | 1.720232 | 3.43E-10 | 2.70E-09 |
| CCL14 | -1.51226 | 0.585858 | 3.52E-10 | 2.77E-09 |
| AMTN | -2.93609 | -1.14634 | 3.55E-10 | 2.79E-09 |
| ZCCHC12 | -1.84508 | -0.55206 | 3.59E-10 | 2.82E-09 |
| C14orf132 | -1.5223 | 4.39818 | 4.26E-10 | 3.32E-09 |
| MT1A | -1.91604 | 1.040509 | 4.26E-10 | 3.32E-09 |
| B3GAT1 | -1.83582 | 1.619042 | 4.38E-10 | 3.40E-09 |
| CLDN17 | -4.22138 | -1.97097 | 4.49E-10 | 3.48E-09 |
| CRTAC1 | -2.01531 | 0.953972 | 4.63E-10 | 3.58E-09 |
| CNGA3 | -1.86959 | -0.62271 | 5.11E-10 | 3.93E-09 |
| KIAA0408 | -2.15817 | -1.83172 | 5.15E-10 | 3.96E-09 |
| SLC39A2 | -2.75045 | -0.40068 | 5.16E-10 | 3.96E-09 |
| FAXC | -1.82891 | 2.380063 | 5.30E-10 | 4.07E-09 |
| SALL2 | -1.55327 | 2.805517 | 5.39E-10 | 4.14E-09 |
| SLC16A9 | -1.79261 | 2.364293 | 5.43E-10 | 4.16E-09 |
| SERPINB12 | -3.51804 | -1.82314 | 5.62E-10 | 4.30E-09 |
| FABP12 | -2.93227 | -3.6361 | 5.70E-10 | 4.35E-09 |
| SCNN1G | -2.51582 | 1.40245 | 5.70E-10 | 4.35E-09 |
| HBA2 | -1.72282 | 3.99709 | 6.24E-10 | 4.74E-09 |
| KCNA3 | -1.58185 | 1.87739 | 6.50E-10 | 4.93E-09 |
| NROB2 | -1.86577 | 4.044581 | 7.04E-10 | 5.33E-09 |
| FCER1A | -1.88266 | 1.040546 | 7.26E-10 | 5.48E-09 |
| SPTSSB | -1.87511 | 4.112904 | 7.54E-10 | 5.68E-09 |
| KCNMB2 | -1.7226 | -1.19259 | 7.56E-10 | 5.69E-09 |
| NFASC | -1.59522 | 5.123563 | 7.78E-10 | 5.84E-09 |
| MAB21L4 | -1.9453 | 4.077622 | 7.97E-10 | 5.97E-09 |
| COL19A1 | -1.96 | 0.368029 | 8.32E-10 | 6.21E-09 |
| RBFOX3 | -2.22197 | 1.608494 | 8.84E-10 | 6.58E-09 |
| ACKR1 | -1.69725 | 4.459772 | 9.26E-10 | 6.87E-09 |
| PCSK2 | -2.42993 | 1.382305 | 1.01E-09 | 7.44E-09 |
| GAS1 | -1.6021 | 4.159033 | 1.02E-09 | 7.48E-09 |
| MT1G | -1.85388 | 5.699647 | 1.04E-09 | 7.63E-09 |
| AK5 | -1.53337 | 0.332963 | 1.08E-09 | 7.93E-09 |
| RGMA | -1.82779 | 5.892457 | 1.15E-09 | 8.40E-09 |
| KCTD8 | -2.39985 | -0.97675 | 1.18E-09 | 8.61E-09 |
| TCEAL5 | -1.98259 | -1.95999 | 1.19E-09 | 8.65E-09 |
| SLC10A4 | -1.79182 | -1.1089 | 1.20E-09 | 8.73E-09 |

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|---------------|----------|----------|----------|----------|
| ARSF | -2.35555 | -1.84614 | 1.22E-09 | 8.86E-09 |
| SPRR1A | -3.44923 | 5.409252 | 1.32E-09 | 9.55E-09 |
| LRP1B | -1.86781 | -0.52412 | 1.35E-09 | 9.72E-09 |
| SPON1 | -1.5821 | 6.563306 | 1.36E-09 | 9.79E-09 |
| SOWAHA | -1.57024 | 3.848629 | 1.38E-09 | 9.93E-09 |
| PGC | -2.75794 | 11.7217 | 1.50E-09 | 1.08E-08 |
| HAS1 | -1.81424 | 0.324866 | 1.65E-09 | 1.17E-08 |
| MUSTN1 | -1.59093 | -3.92213 | 1.73E-09 | 1.23E-08 |
| FMO2 | -1.76373 | 4.110975 | 1.73E-09 | 1.23E-08 |
| NRXN3 | -1.87 | 4.143396 | 1.83E-09 | 1.29E-08 |
| ACADL | -1.74743 | -0.74664 | 1.93E-09 | 1.36E-08 |
| KCNMA1 | -1.89474 | 6.1123 | 2.00E-09 | 1.41E-08 |
| NXP3 | -1.75713 | 2.364317 | 2.03E-09 | 1.43E-08 |
| PPP1R12B | -1.67032 | 8.127534 | 2.06E-09 | 1.45E-08 |
| MYRFL | -1.89649 | 1.65192 | 2.20E-09 | 1.54E-08 |
| CA2 | -1.79072 | 7.809378 | 2.39E-09 | 1.66E-08 |
| ACTG2 | -2.24702 | 10.11414 | 2.50E-09 | 1.73E-08 |
| PEG3 | -1.72496 | 2.492269 | 2.76E-09 | 1.89E-08 |
| SHISA9 | -2.06126 | -0.10745 | 2.77E-09 | 1.90E-08 |
| BTBD11 | -1.72398 | 2.973966 | 2.88E-09 | 1.97E-08 |
| BTNL8 | -1.83854 | 4.244568 | 2.90E-09 | 1.98E-08 |
| BARX2 | -1.60444 | 4.052112 | 2.92E-09 | 1.99E-08 |
| SLC17A8 | -2.6283 | -0.51542 | 3.09E-09 | 2.10E-08 |
| SPHKAP | -2.2908 | -2.23651 | 3.16E-09 | 2.15E-08 |
| LMAN1L | -2.16037 | -3.56129 | 3.27E-09 | 2.22E-08 |
| NBEA | -1.58005 | 3.678007 | 3.43E-09 | 2.31E-08 |
| RIC3 | -1.67863 | 1.435448 | 3.55E-09 | 2.39E-08 |
| IL36RN | -3.12075 | 0.711211 | 3.56E-09 | 2.39E-08 |
| NSG1 | -1.53839 | 2.566306 | 3.67E-09 | 2.47E-08 |
| LYNX1 | -2.00434 | 5.262597 | 3.68E-09 | 2.47E-08 |
| FAM3B | -1.8093 | 5.19844 | 3.78E-09 | 2.53E-08 |
| PLA2G12B | -2.48303 | 0.973614 | 4.16E-09 | 2.76E-08 |
| CLDN15 | -1.62699 | 5.427699 | 4.58E-09 | 3.03E-08 |
| LEP | -1.9715 | -0.61886 | 4.60E-09 | 3.03E-08 |
| PLCXD3 | -1.96083 | 1.661686 | 4.62E-09 | 3.05E-08 |
| NLGN1 | -1.73036 | 1.048543 | 4.93E-09 | 3.24E-08 |
| CLCA2 | -3.00185 | 4.150545 | 5.00E-09 | 3.28E-08 |
| HSPB7 | -1.99382 | 5.485486 | 5.66E-09 | 3.68E-08 |
| UGT1A3 | -2.11417 | -2.66416 | 5.75E-09 | 3.73E-08 |
| STON1-GTF2A1L | -1.7237 | -1.99979 | 5.94E-09 | 3.86E-08 |
| CNKS2 | -1.90567 | 1.264947 | 6.18E-09 | 4.00E-08 |
| BNC1 | -2.38193 | 0.690423 | 6.25E-09 | 4.04E-08 |
| PRUNE2 | -1.89628 | 6.794909 | 6.42E-09 | 4.15E-08 |
| INMT-MINDY4 | -2.01519 | -2.97457 | 6.54E-09 | 4.22E-08 |

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|----------|----------|----------|----------|----------|
| PCDH9 | -1.74367 | 2.476712 | 6.64E-09 | 4.28E-08 |
| SMLR1 | -2.3567 | 0.418349 | 6.90E-09 | 4.43E-08 |
| CPXM2 | -1.60567 | 5.171457 | 7.15E-09 | 4.57E-08 |
| PPP1R14D | -1.67704 | 3.401417 | 7.18E-09 | 4.58E-08 |
| SIX2 | -1.92445 | 3.668764 | 7.21E-09 | 4.60E-08 |
| KCNQ5 | -1.56949 | 0.270658 | 7.85E-09 | 4.99E-08 |
| CALML3 | -3.3351 | 3.840201 | 7.96E-09 | 5.05E-08 |
| SPATA4 | -1.87019 | -2.84573 | 8.06E-09 | 5.11E-08 |
| CHRM4 | -1.61843 | -0.4371 | 8.26E-09 | 5.23E-08 |
| LPAR3 | -1.84037 | 0.322636 | 8.27E-09 | 5.23E-08 |
| TMEM74 | -1.55216 | -1.62411 | 8.73E-09 | 5.51E-08 |
| TMEFF2 | -1.75793 | -1.16767 | 9.10E-09 | 5.72E-08 |
| CNTNAP3 | -1.51645 | 0.836756 | 9.34E-09 | 5.86E-08 |
| GUCA1C | -2.90391 | -3.26108 | 9.99E-09 | 6.23E-08 |
| SLC27A6 | -1.92293 | -0.66162 | 1.00E-08 | 6.25E-08 |
| KRT20 | -2.44611 | 7.06624 | 1.03E-08 | 6.40E-08 |
| AGTR1 | -2.03535 | 1.586306 | 1.03E-08 | 6.41E-08 |
| NRSN1 | -2.28805 | -1.45479 | 1.07E-08 | 6.63E-08 |
| SLC26A10 | -1.51271 | -1.61185 | 1.12E-08 | 6.90E-08 |
| ASB5 | -2.54295 | 1.8959 | 1.13E-08 | 7.00E-08 |
| C6orf58 | -2.48603 | 4.048767 | 1.16E-08 | 7.17E-08 |
| GPR52 | -1.50957 | -3.23894 | 1.40E-08 | 8.56E-08 |
| CES3 | -1.53697 | 4.461315 | 1.41E-08 | 8.60E-08 |
| PGA5 | -3.48128 | 6.698886 | 1.44E-08 | 8.76E-08 |
| NAT2 | -2.09242 | 1.434814 | 1.46E-08 | 8.85E-08 |
| IL36B | -2.58816 | -1.96727 | 1.47E-08 | 8.92E-08 |
| IVL | -3.77385 | 3.819246 | 1.54E-08 | 9.32E-08 |
| PRKAA2 | -1.80423 | 3.391417 | 1.57E-08 | 9.49E-08 |
| SYT10 | -2.08647 | -2.14389 | 1.78E-08 | 1.06E-07 |
| DAPL1 | -2.33292 | 2.083303 | 1.85E-08 | 1.11E-07 |
| FABP4 | -1.97769 | 2.928806 | 1.91E-08 | 1.14E-07 |
| MT1B | -2.33108 | -4.2901 | 1.92E-08 | 1.14E-07 |
| CCKAR | -2.53244 | 0.459841 | 2.08E-08 | 1.23E-07 |
| ADTRP | -1.67677 | 4.380215 | 2.10E-08 | 1.24E-07 |
| TUBB4A | -1.71487 | 1.356403 | 2.29E-08 | 1.35E-07 |
| KCNH2 | -1.58827 | 4.791116 | 2.43E-08 | 1.43E-07 |
| GPR1 | -1.50448 | -0.06297 | 2.62E-08 | 1.53E-07 |
| BMP3 | -2.20604 | 2.703217 | 2.65E-08 | 1.55E-07 |
| SDR9C7 | -2.86628 | -0.91396 | 2.75E-08 | 1.60E-07 |
| TMEM211 | -1.91867 | -1.26269 | 2.98E-08 | 1.73E-07 |
| DCT | -1.58004 | -1.99371 | 3.05E-08 | 1.76E-07 |
| KRT73 | -2.26382 | -3.64762 | 3.14E-08 | 1.81E-07 |
| IL1A | -1.76042 | 1.594154 | 3.27E-08 | 1.88E-07 |
| GPD1 | -1.62325 | 4.583823 | 3.56E-08 | 2.04E-07 |

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|----------|----------|----------|----------|----------|
| SLC8A2 | -1.94222 | 1.851701 | 3.83E-08 | 2.18E-07 |
| SPAG17 | -1.89841 | 0.979813 | 3.90E-08 | 2.22E-07 |
| C12orf54 | -1.60791 | -2.47643 | 4.15E-08 | 2.35E-07 |
| SULT2B1 | -1.68326 | 4.288114 | 4.35E-08 | 2.45E-07 |
| SLC6A11 | -2.29152 | 0.043766 | 4.39E-08 | 2.47E-07 |
| KRT5 | -2.98894 | 7.806577 | 4.62E-08 | 2.59E-07 |
| EVPLL | -1.87613 | -2.41904 | 4.66E-08 | 2.61E-07 |
| CLEC3A | -2.19411 | -2.10231 | 4.94E-08 | 2.76E-07 |
| ADAMTS8 | -1.65081 | 2.994377 | 5.16E-08 | 2.87E-07 |
| MYH7 | -1.65492 | -1.86666 | 5.44E-08 | 3.02E-07 |
| TPSD1 | -1.8445 | 1.663872 | 5.49E-08 | 3.04E-07 |
| PGA4 | -4.15966 | 2.63325 | 5.64E-08 | 3.12E-07 |
| SFRP5 | -1.97198 | 2.44978 | 6.08E-08 | 3.34E-07 |
| ATP2B3 | -1.89104 | -2.04488 | 6.08E-08 | 3.34E-07 |
| ZNF385B | -1.61026 | 1.672004 | 6.34E-08 | 3.47E-07 |
| SCN2B | -1.62657 | -0.15722 | 6.58E-08 | 3.59E-07 |
| LRRC66 | -1.50408 | 3.073766 | 6.85E-08 | 3.73E-07 |
| SSTR1 | -1.52477 | 4.535344 | 7.96E-08 | 4.31E-07 |
| VIPR2 | -1.61309 | 1.541003 | 8.96E-08 | 4.81E-07 |
| NPY | -2.14673 | -0.15229 | 9.34E-08 | 5.00E-07 |
| FAM181B | -1.64905 | -0.69396 | 9.39E-08 | 5.02E-07 |
| HCAR2 | -1.74702 | 1.398571 | 9.53E-08 | 5.09E-07 |
| IRX4 | -2.58117 | -0.3149 | 9.56E-08 | 5.11E-07 |
| VPREB1 | -2.263 | -4.06267 | 9.80E-08 | 5.23E-07 |
| GRIA1 | -1.61924 | -0.91018 | 9.96E-08 | 5.31E-07 |
| POU2AF1 | -1.51802 | 5.117406 | 1.01E-07 | 5.40E-07 |
| MLIP | -1.53965 | -1.08985 | 1.08E-07 | 5.73E-07 |
| LRRC19 | -1.70658 | 2.407194 | 1.36E-07 | 7.05E-07 |
| FRMPD4 | -1.67623 | -2.9162 | 1.38E-07 | 7.15E-07 |
| SERPINB2 | -2.33729 | 3.936641 | 1.42E-07 | 7.35E-07 |
| ADH1C | -1.84564 | 6.415631 | 1.43E-07 | 7.43E-07 |
| PLIN1 | -1.92169 | 1.953182 | 1.47E-07 | 7.61E-07 |
| KCNA2 | -1.62629 | -0.25843 | 1.51E-07 | 7.78E-07 |
| NPC1L1 | -1.82313 | 4.964885 | 1.57E-07 | 8.09E-07 |
| ST6GAL2 | -1.51344 | 1.150072 | 1.57E-07 | 8.10E-07 |
| FOXE1 | -2.53767 | 0.332744 | 1.58E-07 | 8.12E-07 |
| ELAVL4 | -1.53041 | 0.280367 | 1.58E-07 | 8.14E-07 |
| TRIM29 | -1.87437 | 7.229435 | 1.60E-07 | 8.23E-07 |
| TMEM132C | -1.87549 | 0.472029 | 1.63E-07 | 8.36E-07 |
| NPR3 | -1.52097 | 2.48075 | 1.64E-07 | 8.43E-07 |
| RERGL | -1.63662 | 0.597779 | 1.71E-07 | 8.72E-07 |
| ANXA8L1 | -1.96671 | 1.954949 | 1.71E-07 | 8.74E-07 |
| CCL21 | -1.6017 | 5.607737 | 1.72E-07 | 8.77E-07 |
| NRG4 | -1.51993 | 1.259884 | 1.76E-07 | 8.95E-07 |

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|------------|----------|----------|----------|----------|
| NEU4 | -1.81973 | 1.520688 | 1.81E-07 | 9.17E-07 |
| GPA33 | -1.84809 | 5.723696 | 1.85E-07 | 9.36E-07 |
| GUCA2A | -2.31094 | 0.898105 | 2.09E-07 | 1.05E-06 |
| HTR4 | -1.92477 | -1.02754 | 2.18E-07 | 1.09E-06 |
| DUSP21 | -2.22986 | -4.09115 | 2.36E-07 | 1.18E-06 |
| CAPN13 | -1.557 | 3.147222 | 2.59E-07 | 1.28E-06 |
| HIF3A | -1.67727 | 4.40733 | 2.70E-07 | 1.33E-06 |
| DES | -2.11904 | 10.18509 | 2.71E-07 | 1.34E-06 |
| TMPRSS11F | -3.01825 | -0.42855 | 2.75E-07 | 1.36E-06 |
| B3GNT6 | -2.03935 | 3.363119 | 2.84E-07 | 1.40E-06 |
| AMER2 | -1.77057 | -2.44082 | 2.99E-07 | 1.47E-06 |
| B4GALNT2 | -2.09605 | 1.291233 | 3.11E-07 | 1.52E-06 |
| NRG3 | -1.68182 | -0.65217 | 3.26E-07 | 1.58E-06 |
| SNAP91 | -1.75612 | -0.09616 | 3.30E-07 | 1.61E-06 |
| FLNC | -1.80971 | 8.288474 | 3.34E-07 | 1.62E-06 |
| CPNE6 | -1.7176 | 0.294907 | 3.62E-07 | 1.75E-06 |
| LMO1 | -2.18873 | -0.12203 | 3.71E-07 | 1.79E-06 |
| AGMO | -1.68764 | 1.935727 | 3.72E-07 | 1.79E-06 |
| UGT2B15 | -1.88028 | 3.00938 | 3.77E-07 | 1.81E-06 |
| SLC28A2 | -2.11365 | 4.727404 | 3.89E-07 | 1.87E-06 |
| SLC7A14 | -1.94719 | -0.3243 | 4.09E-07 | 1.95E-06 |
| CHST5 | -1.87054 | 2.614342 | 4.48E-07 | 2.13E-06 |
| MUC15 | -2.63694 | 1.523076 | 4.57E-07 | 2.17E-06 |
| AC011530.1 | -1.70672 | -3.86195 | 4.88E-07 | 2.30E-06 |
| GRP | -2.0561 | 0.275183 | 5.18E-07 | 2.43E-06 |
| DCAF12L2 | -1.69929 | -2.15482 | 5.58E-07 | 2.61E-06 |
| SYNPO2 | -1.81748 | 8.775158 | 5.70E-07 | 2.66E-06 |
| SLITRK5 | -1.62577 | 1.30636 | 5.72E-07 | 2.67E-06 |
| GAP43 | -1.51695 | 0.418549 | 5.99E-07 | 2.79E-06 |
| FAM3D | -1.5512 | 6.045857 | 6.70E-07 | 3.10E-06 |
| CD300LG | -1.71209 | -1.15437 | 6.70E-07 | 3.10E-06 |
| C7 | -1.77047 | 6.149382 | 6.99E-07 | 3.23E-06 |
| SULT2A1 | -2.38626 | 2.34306 | 7.34E-07 | 3.38E-06 |
| KCNK3 | -1.64743 | 3.341294 | 7.50E-07 | 3.44E-06 |
| ACOT12 | -1.60681 | -3.35728 | 7.54E-07 | 3.46E-06 |
| LRRC52 | -2.30852 | -4.34206 | 8.15E-07 | 3.71E-06 |
| ALDH3B2 | -1.86535 | 3.651922 | 8.21E-07 | 3.74E-06 |
| TRIM55 | -1.58784 | -1.79824 | 9.55E-07 | 4.30E-06 |
| FFAR1 | -1.80493 | -3.41229 | 1.01E-06 | 4.50E-06 |
| FUT9 | -1.95927 | 3.456503 | 1.21E-06 | 5.35E-06 |
| TAC1 | -2.2597 | 0.597738 | 1.26E-06 | 5.55E-06 |
| FMN2 | -1.55447 | 0.699127 | 1.28E-06 | 5.64E-06 |
| SUSD4 | -1.50265 | 3.234497 | 1.32E-06 | 5.80E-06 |
| NR1H4 | -1.84068 | 1.394413 | 1.47E-06 | 6.40E-06 |

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|-----------|----------|----------|----------|----------|
| SST | -2.42406 | 4.465292 | 1.75E-06 | 7.53E-06 |
| TMPRSS11A | -2.96059 | 2.946989 | 1.79E-06 | 7.70E-06 |
| CNTN1 | -1.68025 | 3.511461 | 1.79E-06 | 7.72E-06 |
| SERPINB4 | -2.58154 | 2.154351 | 1.89E-06 | 8.10E-06 |
| SULT1C3 | -1.93617 | -0.89501 | 2.06E-06 | 8.77E-06 |
| CYP2C19 | -1.52064 | -1.06823 | 2.07E-06 | 8.81E-06 |
| NXPE4 | -1.81669 | -2.20017 | 2.30E-06 | 9.73E-06 |
| ANGPTL5 | -1.60455 | -2.41284 | 2.78E-06 | 1.15E-05 |
| CASQ1 | -1.54562 | -0.39264 | 2.88E-06 | 1.19E-05 |
| BTNL2 | -1.63901 | -3.33467 | 2.90E-06 | 1.20E-05 |
| CXCL17 | -1.85938 | 6.792981 | 3.13E-06 | 1.29E-05 |
| KLK11 | -1.71438 | 4.990109 | 3.19E-06 | 1.31E-05 |
| KCNK16 | -2.50204 | -1.56843 | 3.20E-06 | 1.31E-05 |
| KRT33A | -2.50178 | -3.33427 | 3.32E-06 | 1.36E-05 |
| CNTFR | -1.73459 | 2.569901 | 3.38E-06 | 1.38E-05 |
| GFRA3 | -1.5562 | 2.25422 | 3.38E-06 | 1.38E-05 |
| HTR3B | -2.05991 | -2.85525 | 3.41E-06 | 1.39E-05 |
| ADAD2 | -1.66094 | -1.752 | 3.58E-06 | 1.45E-05 |
| KRT6A | -2.61758 | 8.249518 | 4.37E-06 | 1.75E-05 |
| INA | -1.62207 | 0.931031 | 5.21E-06 | 2.06E-05 |
| DCAF12L1 | -2.18796 | -2.53531 | 5.78E-06 | 2.27E-05 |
| CST11 | -1.76306 | -3.801 | 5.83E-06 | 2.28E-05 |
| BMP5 | -1.56674 | 0.672185 | 5.85E-06 | 2.29E-05 |
| NCR2 | -1.6441 | -3.25292 | 5.91E-06 | 2.32E-05 |
| ATP13A5 | -1.6666 | -1.95776 | 6.59E-06 | 2.56E-05 |
| TRARG1 | -2.05045 | 0.203328 | 6.81E-06 | 2.64E-05 |
| LCE3E | -3.22954 | -1.09477 | 7.39E-06 | 2.83E-05 |
| SRY | -2.60105 | -3.93048 | 8.19E-06 | 3.12E-05 |
| HS3ST6 | -2.16078 | 0.561008 | 8.52E-06 | 3.24E-05 |
| PIGR | -1.58155 | 10.77624 | 8.87E-06 | 3.35E-05 |
| GPR87 | -2.1066 | 1.238111 | 9.40E-06 | 3.54E-05 |
| LGALS7 | -2.446 | 0.981529 | 9.79E-06 | 3.67E-05 |
| UGT1A10 | -1.6529 | 3.471488 | 1.13E-05 | 4.18E-05 |
| CLVS2 | -2.00502 | -0.54043 | 1.30E-05 | 4.76E-05 |
| ARHGDIG | -1.54673 | 1.343518 | 1.42E-05 | 5.15E-05 |
| ANXA8 | -2.02096 | 2.283216 | 1.63E-05 | 5.85E-05 |
| PCDH11Y | -1.69966 | -2.66463 | 1.72E-05 | 6.14E-05 |
| TM4SF20 | -1.75421 | 5.39537 | 2.21E-05 | 7.72E-05 |
| S100A12 | -1.53771 | 1.35888 | 2.52E-05 | 8.71E-05 |
| CHAT | -1.78078 | -2.92526 | 2.59E-05 | 8.93E-05 |
| GSTM1 | -1.71199 | 3.890192 | 2.69E-05 | 9.24E-05 |
| IGLL1 | -1.69616 | 1.367643 | 2.94E-05 | 0.0001 |
| ANXA10 | -1.58768 | 6.564056 | 3.29E-05 | 0.000111 |
| NMRK2 | -1.62405 | -2.34788 | 3.37E-05 | 0.000113 |

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|-----------|----------|----------|----------|----------|
| IRX1 | -1.52315 | -2.64618 | 3.45E-05 | 0.000116 |
| TUNAR | -1.61935 | -2.55607 | 3.54E-05 | 0.000119 |
| PDIA2 | -1.60702 | 3.74169 | 3.59E-05 | 0.00012 |
| KRT31 | -2.54185 | -1.94509 | 3.71E-05 | 0.000124 |
| TSHB | -1.52103 | -3.81706 | 4.00E-05 | 0.000132 |
| CTXND1 | -1.54207 | 0.893335 | 4.44E-05 | 0.000146 |
| MALRD1 | -1.73974 | 3.276332 | 4.66E-05 | 0.000152 |
| ZMAT4 | -1.64545 | -2.33888 | 4.84E-05 | 0.000158 |
| NKX6-1 | -1.72153 | 0.462606 | 4.87E-05 | 0.000158 |
| UGT2A3 | -1.70499 | 4.425235 | 5.21E-05 | 0.000168 |
| GLYAT | -1.61327 | -3.43845 | 6.91E-05 | 0.000217 |
| SPRR2A | -2.72129 | 5.783715 | 7.15E-05 | 0.000225 |
| PKLR | -1.62961 | 0.294829 | 7.30E-05 | 0.000229 |
| PCP4 | -1.72142 | 1.523864 | 7.36E-05 | 0.00023 |
| KRT6B | -1.95446 | 5.904423 | 7.57E-05 | 0.000237 |
| PLD5 | -1.5441 | -0.68221 | 7.80E-05 | 0.000243 |
| URAD | -2.0883 | -1.09852 | 8.30E-05 | 0.000257 |
| LY6D | -2.01578 | 5.082376 | 9.68E-05 | 0.000295 |
| ARPP21 | -1.67361 | -2.64443 | 0.000106 | 0.000322 |
| SPANXN3 | -2.17174 | -4.39482 | 0.000109 | 0.000329 |
| SERTM2 | -1.53849 | 0.247554 | 0.00011 | 0.000331 |
| CCL25 | -1.95167 | 5.465983 | 0.000115 | 0.000346 |
| FGFBP1 | -1.63577 | 3.726815 | 0.000123 | 0.000367 |
| GIMD1 | -2.55285 | -3.65731 | 0.000124 | 0.000371 |
| ZDHHC22 | -1.61401 | -2.37804 | 0.000151 | 0.000444 |
| GABRA1 | -1.67937 | -3.07446 | 0.00018 | 0.00052 |
| RTP1 | -1.60801 | -3.82347 | 0.000188 | 0.000541 |
| C10orf99 | -2.22793 | 2.3717 | 0.000191 | 0.000549 |
| SPRR1B | -2.21829 | 6.329897 | 0.000207 | 0.000591 |
| DPP10 | -1.60848 | -0.11911 | 0.00022 | 0.000625 |
| KRT24 | -2.13255 | 0.702453 | 0.000233 | 0.000659 |
| SPRR2D | -2.37886 | 4.176991 | 0.000234 | 0.00066 |
| RPTN | -2.32929 | -0.45511 | 0.000254 | 0.000713 |
| LCE3D | -2.68495 | 0.401651 | 0.000285 | 0.000791 |
| AVP | -1.65542 | -3.84627 | 0.000357 | 0.000968 |
| HBM | -1.59782 | -4.11715 | 0.000366 | 0.000991 |
| REG3A | -1.9339 | 8.374481 | 0.000373 | 0.001009 |
| TMEM196 | -1.64801 | -2.89699 | 0.000387 | 0.001042 |
| SLC6A15 | -1.5834 | -0.05164 | 0.000395 | 0.00106 |
| CLEC20A | -1.53542 | -4.07899 | 0.0004 | 0.001073 |
| S100A2 | -1.57016 | 5.507942 | 0.000463 | 0.001224 |
| FLG2 | -1.56129 | -2.35583 | 0.000611 | 0.00157 |
| CHGA | -1.6769 | 6.506449 | 0.000763 | 0.001917 |
| C14orf180 | -1.59118 | -2.44125 | 0.000956 | 0.002356 |

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|--------|----------|----------|----------|----------|
| TBL1Y | -1.5165 | -2.65616 | 0.001252 | 0.002984 |
| ADIPOQ | -1.74366 | 1.346155 | 0.001694 | 0.003924 |
| PNMA6F | -1.57259 | -4.36853 | 0.001849 | 0.004244 |
| KRT6C | -2.08706 | 5.55506 | 0.00255 | 0.005652 |
| KRT35 | -1.5855 | -3.36321 | 0.005403 | 0.011042 |
| PRAC1 | -1.86792 | -1.92821 | 0.007109 | 0.014101 |
| PTF1A | -1.54534 | -1.15003 | 0.007229 | 0.014306 |
| SPRR2E | -1.85829 | 4.074936 | 0.020841 | 0.036587 |
