

The differentially expressed genes between cluster 1 and cluster 2

| Gene | LogFC | AveExpr | <i>t</i> | P value | B |
|-------------------|----------|----------|----------|----------|----------|
| <i>ZDHHC12</i> | -0.84827 | 3.019799 | -11.2897 | 2.28E-22 | 39.48363 |
| <i>SLC10A3</i> | -0.62084 | 3.163489 | -8.57772 | 6.08E-15 | 22.47211 |
| <i>CLASP2</i> | 0.809836 | 3.314392 | 8.467748 | 1.18E-14 | 21.81398 |
| <i>GBA</i> | -0.63125 | 4.119738 | -8.40811 | 1.69E-14 | 21.45853 |
| <i>NFKB2</i> | -0.59669 | 2.39537 | -7.96188 | 2.39E-13 | 18.83265 |
| <i>AC011477.2</i> | 0.614911 | 2.192955 | 7.715314 | 1.01E-12 | 17.40947 |
| <i>GALNT5</i> | -0.68409 | 0.568083 | -7.67626 | 1.26E-12 | 17.18601 |
| <i>TOR4A</i> | -0.63925 | 1.752542 | -7.65581 | 1.42E-12 | 17.06916 |
| <i>PDIA5</i> | -0.74496 | 2.192556 | -7.55382 | 2.56E-12 | 16.48889 |
| <i>GRIA2</i> | 1.205276 | 2.693957 | 7.487275 | 3.74E-12 | 16.11235 |
| <i>SDC1</i> | -1.22179 | 2.720138 | -7.47377 | 4.04E-12 | 16.03614 |
| <i>LBX2-AS1</i> | -0.58537 | 1.212611 | -7.42528 | 5.33E-12 | 15.76307 |
| <i>LMNA</i> | -0.7139 | 4.435809 | -7.33546 | 8.88E-12 | 15.25962 |
| <i>B4GALT1</i> | -0.93275 | 3.038719 | -7.32971 | 9.17E-12 | 15.22746 |
| <i>CACNG7</i> | 1.224798 | 4.635344 | 7.267738 | 1.30E-11 | 14.88211 |
| <i>GCNT1</i> | -0.64595 | 0.79179 | -7.25941 | 1.36E-11 | 14.83579 |
| <i>FOSL1</i> | -1.09624 | 2.388749 | -7.24561 | 1.47E-11 | 14.75919 |
| <i>DCBLD2</i> | -0.90239 | 2.427364 | -7.22918 | 1.62E-11 | 14.668 |
| <i>AL441992.1</i> | -0.6292 | 1.860474 | -7.22439 | 1.66E-11 | 14.64143 |
| <i>KCNN4</i> | -0.90037 | 1.170248 | -7.20464 | 1.86E-11 | 14.53205 |
| <i>CADM2</i> | 1.162081 | 2.803253 | 7.170416 | 2.25E-11 | 14.34284 |
| <i>RFTN2</i> | 0.718425 | 3.413149 | 7.003632 | 5.68E-11 | 13.42774 |
| <i>MTX1P1</i> | -0.69548 | 2.913064 | -6.96162 | 7.17E-11 | 13.19908 |
| <i>ELF4</i> | -0.64765 | 1.80267 | -6.93382 | 8.35E-11 | 13.0482 |
| <i>NCALD</i> | 0.815298 | 3.176169 | 6.877178 | 1.14E-10 | 12.74182 |
| <i>MYOF</i> | -0.8096 | 2.722732 | -6.84854 | 1.33E-10 | 12.58743 |
| <i>FXVD6</i> | 1.100717 | 4.584097 | 6.819449 | 1.56E-10 | 12.431 |
| <i>SEZ6L</i> | 1.492479 | 3.328879 | 6.781703 | 1.92E-10 | 12.22859 |
| <i>ARHGEF7</i> | 0.613495 | 3.319474 | 6.777366 | 1.97E-10 | 12.20537 |
| <i>HAS3</i> | -0.62833 | 0.99652 | -6.74911 | 2.29E-10 | 12.05434 |
| <i>MAP2</i> | 1.038542 | 4.748398 | 6.741552 | 2.39E-10 | 12.01398 |
| <i>PLOD3</i> | -0.60839 | 4.591569 | -6.71444 | 2.76E-10 | 11.86949 |
| <i>ALDH3B1</i> | -0.62381 | 1.893054 | -6.70915 | 2.84E-10 | 11.84134 |
| <i>NIBAN2</i> | -0.81154 | 4.775965 | -6.7057 | 2.90E-10 | 11.82298 |
| <i>BCL3</i> | -0.89678 | 3.06558 | -6.70166 | 2.96E-10 | 11.80145 |
| <i>SOX8</i> | 1.51431 | 4.974109 | 6.695007 | 3.07E-10 | 11.7661 |
| <i>TCIRG1</i> | -0.75691 | 3.099698 | -6.66997 | 3.52E-10 | 11.63316 |
| <i>ITGB5</i> | -0.77315 | 3.938385 | -6.64768 | 3.96E-10 | 11.51511 |
| <i>AGPAT2</i> | -0.75872 | 3.276073 | -6.60586 | 4.96E-10 | 11.29417 |
| <i>CLDN23</i> | -0.65607 | 1.001792 | -6.5934 | 5.30E-10 | 11.22847 |
| <i>CLCF1</i> | -0.99032 | 2.342635 | -6.50898 | 8.32E-10 | 10.78549 |
| <i>TMEM132B</i> | 1.026622 | 1.73416 | 6.485726 | 9.42E-10 | 10.66407 |
| <i>KIF21A</i> | 0.650188 | 3.0858 | 6.474319 | 1.00E-09 | 10.6046 |
| <i>PLP2</i> | -1.0192 | 5.197917 | -6.46331 | 1.06E-09 | 10.54725 |
| <i>POGLUT3</i> | -0.61431 | 3.384861 | -6.44057 | 1.20E-09 | 10.42901 |

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|------------------|----------|----------|----------|----------|----------|
| <i>SIRT2</i> | 0.774018 | 5.100381 | 6.436533 | 1.22E-09 | 10.40806 |
| <i>SHC1</i> | -0.81788 | 4.060346 | -6.40251 | 1.46E-09 | 10.23169 |
| <i>GPM6A</i> | 0.946407 | 6.647076 | 6.396668 | 1.51E-09 | 10.20145 |
| <i>PLAUR</i> | -0.89236 | 2.981287 | -6.38719 | 1.58E-09 | 10.15245 |
| <i>SDK1</i> | -0.70127 | 1.132184 | -6.3646 | 1.78E-09 | 10.03583 |
| <i>FZD1</i> | -0.81558 | 2.660682 | -6.31454 | 2.32E-09 | 9.778284 |
| <i>RAB27A</i> | -0.61803 | 1.737871 | -6.29994 | 2.50E-09 | 9.703437 |
| <i>TSC22D1</i> | 0.651435 | 5.557655 | 6.261623 | 3.06E-09 | 9.507445 |
| <i>ANXA2</i> | -0.97131 | 5.143252 | -6.25391 | 3.18E-09 | 9.4681 |
| <i>P4HA2</i> | -0.68321 | 1.719648 | -6.24896 | 3.27E-09 | 9.442838 |
| <i>NXPPI</i> | 1.236227 | 2.427637 | 6.241204 | 3.40E-09 | 9.403309 |
| <i>ZDHHC22</i> | 1.16248 | 2.669361 | 6.223577 | 3.73E-09 | 9.313581 |
| <i>CDCP1</i> | -0.74469 | 1.438349 | -6.21155 | 3.96E-09 | 9.252454 |
| <i>ZNF738</i> | 0.591809 | 2.113707 | 6.204177 | 4.12E-09 | 9.21501 |
| <i>NOVA1</i> | 0.769883 | 3.77684 | 6.192349 | 4.38E-09 | 9.155011 |
| <i>NKAIN4</i> | 1.600999 | 4.711322 | 6.191058 | 4.41E-09 | 9.148467 |
| <i>METTL27</i> | -0.58879 | 1.123536 | -6.18467 | 4.56E-09 | 9.116074 |
| <i>ITGA3</i> | -1.12983 | 3.258385 | -6.17233 | 4.86E-09 | 9.053632 |
| <i>GRIA4</i> | 1.095694 | 2.414176 | 6.167253 | 4.98E-09 | 9.027939 |
| <i>HSPB1</i> | -0.69267 | 7.544671 | -6.16441 | 5.06E-09 | 9.01359 |
| <i>ZNF711</i> | 0.673318 | 2.85789 | 6.154921 | 5.31E-09 | 8.965621 |
| <i>CEROX1</i> | 1.370347 | 3.780297 | 6.118695 | 6.40E-09 | 8.783004 |
| <i>PODNL1</i> | -0.82312 | 1.072053 | -6.08574 | 7.58E-09 | 8.617485 |
| <i>TRAF1</i> | -0.65906 | 2.165503 | -6.08142 | 7.74E-09 | 8.595822 |
| <i>EMP2</i> | -0.75659 | 1.979532 | -6.03486 | 9.82E-09 | 8.363012 |
| <i>P3H2</i> | -0.62999 | 2.035144 | -5.98682 | 1.25E-08 | 8.124032 |
| <i>SCG3</i> | 1.224435 | 5.049371 | 5.977668 | 1.31E-08 | 8.07867 |
| <i>EHBP1L1</i> | -0.59409 | 2.492598 | -5.97579 | 1.33E-08 | 8.069358 |
| <i>NRP1</i> | -0.73085 | 2.936434 | -5.95791 | 1.45E-08 | 7.980836 |
| <i>FBLN1</i> | -1.17433 | 3.238038 | -5.94876 | 1.52E-08 | 7.935608 |
| <i>H2BC12</i> | -0.84994 | 4.353565 | -5.89034 | 2.04E-08 | 7.647894 |
| <i>CLIC1</i> | -0.64059 | 6.946333 | -5.88496 | 2.09E-08 | 7.621451 |
| <i>ATAT1</i> | 0.636038 | 4.060049 | 5.86692 | 2.29E-08 | 7.533051 |
| <i>LTBP1</i> | -0.86681 | 3.051098 | -5.85921 | 2.38E-08 | 7.495341 |
| <i>OLIG1</i> | 1.392238 | 6.251063 | 5.81296 | 3.00E-08 | 7.269652 |
| <i>C3orf70</i> | 0.747128 | 3.136554 | 5.809079 | 3.06E-08 | 7.250771 |
| <i>DPYD</i> | -0.85401 | 2.862531 | -5.76552 | 3.80E-08 | 7.039423 |
| <i>NUAK2</i> | -0.61613 | 1.742901 | -5.75568 | 3.99E-08 | 6.991838 |
| <i>CTSZ</i> | -0.87362 | 6.066886 | -5.75108 | 4.08E-08 | 6.969574 |
| <i>LTBP2</i> | -0.80615 | 1.826391 | -5.74954 | 4.11E-08 | 6.962162 |
| <i>DLL3</i> | 1.604262 | 3.935781 | 5.738136 | 4.35E-08 | 6.907093 |
| <i>DGKB</i> | 0.630567 | 1.300089 | 5.721005 | 4.73E-08 | 6.824531 |
| <i>CAVIN1</i> | -0.84897 | 5.651402 | -5.71385 | 4.90E-08 | 6.790078 |
| <i>DIRAS3</i> | -1.03657 | 3.664733 | -5.71301 | 4.92E-08 | 6.786073 |
| <i>LINC00641</i> | 0.591325 | 2.206746 | 5.710116 | 4.99E-08 | 6.772133 |
| <i>TNFSF4</i> | -0.58511 | 1.009161 | -5.6969 | 5.33E-08 | 6.70864 |
| <i>LINC01503</i> | -0.6224 | 1.510892 | -5.6949 | 5.38E-08 | 6.699055 |

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|-------------------|----------|----------|----------|----------|----------|
| <i>TMEM145</i> | 0.850065 | 2.747406 | 5.689392 | 5.53E-08 | 6.672607 |
| <i>KDELR3</i> | -0.95597 | 2.409725 | -5.68712 | 5.59E-08 | 6.661729 |
| <i>GPC4</i> | -0.67371 | 3.203362 | -5.66208 | 6.32E-08 | 6.541833 |
| <i>ANXA2P2</i> | -0.8141 | 3.342836 | -5.64792 | 6.77E-08 | 6.474149 |
| <i>OLIG2</i> | 1.28647 | 5.079018 | 5.638889 | 7.08E-08 | 6.431087 |
| <i>SEL1L3</i> | -0.80218 | 2.564499 | -5.63801 | 7.11E-08 | 6.426884 |
| <i>MYBPH</i> | -1.10614 | 1.664657 | -5.63518 | 7.21E-08 | 6.413429 |
| <i>Z97989.1</i> | 0.638755 | 2.188251 | 5.62422 | 7.60E-08 | 6.361213 |
| <i>COL8A1</i> | -1.14445 | 1.8854 | -5.61157 | 8.09E-08 | 6.301044 |
| <i>TTYH2</i> | 0.662098 | 3.965607 | 5.610982 | 8.11E-08 | 6.298259 |
| <i>RGCC</i> | 0.660135 | 6.10127 | 5.598714 | 8.61E-08 | 6.240009 |
| <i>IGFBP6</i> | -1.11061 | 2.969529 | -5.59741 | 8.67E-08 | 6.233804 |
| <i>AL049838.1</i> | 0.646777 | 2.745278 | 5.588827 | 9.03E-08 | 6.19313 |
| <i>COL22A1</i> | -0.87435 | 1.823127 | -5.56949 | 9.92E-08 | 6.10161 |
| <i>COL8A2</i> | -0.84372 | 2.266986 | -5.55148 | 1.08E-07 | 6.016583 |
| <i>AC013391.3</i> | 0.6918 | 1.497862 | 5.548644 | 1.10E-07 | 6.003188 |
| <i>BCAN</i> | 1.524754 | 7.808048 | 5.543814 | 1.12E-07 | 5.980416 |
| <i>FCGR2B</i> | -0.79134 | 1.319083 | -5.51842 | 1.27E-07 | 5.860948 |
| <i>ADAM8</i> | -0.78929 | 1.740127 | -5.49567 | 1.42E-07 | 5.754208 |
| <i>CD109</i> | -0.6832 | 1.596671 | -5.47249 | 1.58E-07 | 5.645808 |
| <i>VASN</i> | -0.84948 | 3.234421 | -5.46794 | 1.62E-07 | 5.624567 |
| <i>CCND2</i> | 0.918542 | 4.922112 | 5.467806 | 1.62E-07 | 5.623943 |
| <i>NDRG2</i> | 0.956638 | 5.948245 | 5.464523 | 1.65E-07 | 5.608623 |
| <i>AC002401.4</i> | -0.63228 | 0.528294 | -5.46271 | 1.66E-07 | 5.600159 |
| <i>BEX1</i> | 1.094788 | 6.605739 | 5.462131 | 1.66E-07 | 5.597467 |
| <i>RUNDC3A</i> | 0.922863 | 2.724763 | 5.453127 | 1.74E-07 | 5.555495 |
| <i>S100A11</i> | -0.7584 | 7.768038 | -5.45255 | 1.74E-07 | 5.552788 |
| <i>GNG2</i> | 0.65065 | 3.717543 | 5.452304 | 1.74E-07 | 5.551661 |
| <i>SFN</i> | -0.65034 | 0.884312 | -5.44961 | 1.77E-07 | 5.539107 |
| <i>MET</i> | -0.99655 | 1.525626 | -5.44815 | 1.78E-07 | 5.53232 |
| <i>BCL7A</i> | 0.646796 | 2.314843 | 5.445346 | 1.80E-07 | 5.519267 |
| <i>BRSK1</i> | 0.595546 | 3.530365 | 5.440246 | 1.85E-07 | 5.49554 |
| <i>ALDOC</i> | 1.108927 | 6.22573 | 5.43591 | 1.89E-07 | 5.475376 |
| <i>S100A4</i> | -1.00306 | 4.886479 | -5.42368 | 2.00E-07 | 5.418578 |
| <i>RRAS</i> | -0.63289 | 4.815951 | -5.41762 | 2.06E-07 | 5.390481 |
| <i>TIMP1</i> | -1.08893 | 7.966053 | -5.41244 | 2.11E-07 | 5.366464 |
| <i>CCER2</i> | 0.97329 | 2.109083 | 5.408389 | 2.15E-07 | 5.347678 |
| <i>APCDD1L</i> | -0.73916 | 0.589253 | -5.40211 | 2.22E-07 | 5.318586 |
| <i>ATPIA2</i> | 1.349256 | 5.940712 | 5.399324 | 2.24E-07 | 5.305714 |
| <i>FHL2</i> | -0.71565 | 1.473729 | -5.39376 | 2.30E-07 | 5.279987 |
| <i>CHPF</i> | -0.65496 | 5.855627 | -5.38498 | 2.40E-07 | 5.239437 |
| <i>PHYHIPL</i> | 0.885103 | 4.190198 | 5.374083 | 2.53E-07 | 5.189136 |
| <i>RAPGEF4</i> | 0.66377 | 2.051213 | 5.367571 | 2.61E-07 | 5.159119 |
| <i>COL5A1</i> | -1.17241 | 2.581033 | -5.36376 | 2.66E-07 | 5.141567 |
| <i>RNU6-1028P</i> | 0.588856 | 0.776982 | 5.359494 | 2.71E-07 | 5.121929 |
| <i>NTM</i> | 0.61994 | 2.888264 | 5.356457 | 2.75E-07 | 5.107957 |

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| <i>BHLHE40</i> | -0.78251 | 4.68733 | -5.35188 | 2.81E-07 | 5.086894 |
| <i>CRYAB</i> | 1.016779 | 7.741798 | 5.349372 | 2.84E-07 | 5.075379 |
| <i>PDLIM4</i> | -1.23198 | 3.685494 | -5.34892 | 2.85E-07 | 5.073315 |
| <i>MVP</i> | -0.67362 | 3.848824 | -5.33648 | 3.02E-07 | 5.016158 |
| <i>CAVI</i> | -1.05714 | 4.517858 | -5.33317 | 3.07E-07 | 5.001007 |
| <i>MRC2</i> | -0.8548 | 4.782906 | -5.33297 | 3.07E-07 | 5.000067 |
| <i>FBLN7</i> | -0.71386 | 1.675472 | -5.32888 | 3.13E-07 | 4.981311 |
| <i>ASIC1</i> | 0.782323 | 3.507699 | 5.327685 | 3.15E-07 | 4.975847 |
| <i>TCEA3</i> | -0.74583 | 2.139588 | -5.31701 | 3.31E-07 | 4.926958 |
| <i>FAM20C</i> | -0.86647 | 5.23326 | -5.31451 | 3.35E-07 | 4.915534 |
| <i>BCHE</i> | 0.855683 | 4.341486 | 5.313944 | 3.36E-07 | 4.912932 |
| <i>ROBO2</i> | 0.631089 | 1.846049 | 5.30496 | 3.51E-07 | 4.871865 |
| <i>NCAN</i> | 1.367543 | 5.551699 | 5.294743 | 3.68E-07 | 4.825214 |
| <i>SLC16A3</i> | -0.73376 | 2.689628 | -5.28459 | 3.86E-07 | 4.778901 |
| <i>CTSC</i> | -0.6508 | 2.211644 | -5.27755 | 3.99E-07 | 4.74685 |
| <i>UPP1</i> | -0.70946 | 3.504754 | -5.27187 | 4.09E-07 | 4.721029 |
| <i>TNR</i> | 1.239823 | 2.649354 | 5.266348 | 4.20E-07 | 4.695909 |
| <i>GRIA3</i> | 0.710689 | 3.322825 | 5.261497 | 4.30E-07 | 4.673868 |
| <i>CSPG5</i> | 1.155015 | 5.164585 | 5.250563 | 4.52E-07 | 4.624245 |
| <i>APCDD1</i> | 0.604022 | 4.011144 | 5.249295 | 4.55E-07 | 4.618495 |
| <i>SCN3A</i> | 0.680745 | 1.626211 | 5.235995 | 4.84E-07 | 4.558241 |
| <i>RAB33A</i> | 1.035275 | 3.31264 | 5.23443 | 4.87E-07 | 4.551158 |
| <i>SECTM1</i> | -0.77472 | 2.356275 | -5.22873 | 5.01E-07 | 4.52536 |
| <i>CEBPB</i> | -0.66754 | 4.28645 | -5.20725 | 5.53E-07 | 4.428375 |
| <i>METRNL</i> | -0.65924 | 3.465681 | -5.20435 | 5.61E-07 | 4.415305 |
| <i>SLAIN1</i> | 0.696131 | 4.494177 | 5.201752 | 5.67E-07 | 4.403618 |
| <i>RGS5</i> | 0.644101 | 3.207732 | 5.199661 | 5.73E-07 | 4.394197 |
| <i>RIPOR3</i> | -0.60269 | 1.36705 | -5.17267 | 6.49E-07 | 4.272888 |
| <i>PIANP</i> | 0.807975 | 3.747843 | 5.171297 | 6.53E-07 | 4.266713 |
| <i>SERPINE1</i> | -1.29314 | 5.578909 | -5.16798 | 6.63E-07 | 4.251855 |
| <i>PYGL</i> | -0.61093 | 3.971081 | -5.16452 | 6.74E-07 | 4.236315 |
| <i>CA12</i> | -1.08041 | 3.504529 | -5.15552 | 7.03E-07 | 4.196039 |
| <i>EFEMP2</i> | -0.66714 | 4.418245 | -5.1545 | 7.06E-07 | 4.191467 |
| <i>MMD2</i> | 0.849034 | 1.839238 | 5.150515 | 7.19E-07 | 4.173626 |
| <i>SRPX2</i> | -0.91417 | 2.511003 | -5.14911 | 7.24E-07 | 4.167354 |
| <i>MARCO</i> | -1.16444 | 1.4693 | -5.13844 | 7.60E-07 | 4.119667 |
| <i>ETV1</i> | 0.714832 | 4.365659 | 5.129758 | 7.91E-07 | 4.080928 |
| <i>TRIM56</i> | -0.59498 | 2.737542 | -5.12728 | 8.00E-07 | 4.069889 |
| <i>BTBD17</i> | 1.096338 | 2.816687 | 5.124979 | 8.09E-07 | 4.059624 |
| <i>LRRN1</i> | 0.739647 | 3.630292 | 5.114314 | 8.49E-07 | 4.012132 |
| <i>MMP11</i> | -0.64664 | 1.376208 | -5.11204 | 8.58E-07 | 4.001995 |
| <i>PCBP4</i> | 0.616886 | 4.672729 | 5.105998 | 8.82E-07 | 3.975151 |
| <i>PROS1</i> | -0.7411 | 3.678708 | -5.08072 | 9.90E-07 | 3.863031 |
| <i>IL17D</i> | 0.684762 | 3.325803 | 5.075852 | 1.01E-06 | 3.841462 |
| <i>DUSP26</i> | 0.889641 | 2.626522 | 5.066778 | 1.06E-06 | 3.801337 |
| <i>STMN4</i> | 1.053476 | 3.495524 | 5.061432 | 1.08E-06 | 3.77772 |
| <i>ITGA2</i> | -0.60291 | 1.954358 | -5.06078 | 1.08E-06 | 3.774826 |

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|-----------------|----------|----------|----------|----------|----------|
| <i>CD70</i> | -0.85708 | 0.821244 | -5.05609 | 1.11E-06 | 3.754132 |
| <i>SCRG1</i> | 0.690837 | 4.647078 | 5.052275 | 1.13E-06 | 3.73731 |
| <i>DLGAP1</i> | 0.625842 | 1.609899 | 5.039475 | 1.19E-06 | 3.680915 |
| <i>EDNRB</i> | 0.851295 | 4.931055 | 5.03544 | 1.22E-06 | 3.66316 |
| <i>TNC</i> | -0.86255 | 5.940643 | -5.03293 | 1.23E-06 | 3.652123 |
| <i>CHI3L1</i> | -1.72903 | 9.184153 | -5.02717 | 1.26E-06 | 3.626798 |
| <i>AMER2</i> | 0.754844 | 2.309246 | 5.027041 | 1.26E-06 | 3.626236 |
| <i>SCNN1B</i> | -0.80946 | 0.957933 | -5.02605 | 1.27E-06 | 3.621882 |
| <i>NUDT11</i> | 0.633339 | 3.53914 | 5.023355 | 1.29E-06 | 3.610043 |
| <i>LILRB2</i> | -0.63825 | 1.4818 | -5.01358 | 1.34E-06 | 3.567143 |
| <i>MMP14</i> | -0.81824 | 5.665206 | -5.0127 | 1.35E-06 | 3.563273 |
| <i>FZD7</i> | -0.79375 | 3.667029 | -5.01019 | 1.36E-06 | 3.552285 |
| <i>LINGO1</i> | 0.907105 | 3.539663 | 5.006588 | 1.39E-06 | 3.536504 |
| <i>INKA2</i> | 0.605086 | 3.3915 | 5.006203 | 1.39E-06 | 3.534821 |
| <i>ANPEP</i> | -0.80153 | 1.730049 | -4.99765 | 1.44E-06 | 3.497382 |
| <i>H2BC5</i> | -0.72918 | 3.020782 | -4.99486 | 1.46E-06 | 3.485195 |
| <i>NKAIN3</i> | 0.613962 | 1.359804 | 4.986219 | 1.52E-06 | 3.447414 |
| <i>CD44</i> | -0.83238 | 5.735529 | -4.98169 | 1.55E-06 | 3.427626 |
| <i>HSPB1P1</i> | -0.65249 | 3.219381 | -4.96759 | 1.65E-06 | 3.366178 |
| <i>NLGN3</i> | 0.855516 | 5.004191 | 4.961068 | 1.70E-06 | 3.337779 |
| <i>LHFPL3</i> | 1.429222 | 4.002023 | 4.960023 | 1.71E-06 | 3.333236 |
| <i>OPCML</i> | 0.895006 | 1.789442 | 4.959229 | 1.72E-06 | 3.329781 |
| <i>MARCKSL1</i> | 0.767384 | 8.219191 | 4.95404 | 1.76E-06 | 3.30722 |
| <i>HTRA3</i> | -0.63105 | 1.822326 | -4.94767 | 1.81E-06 | 3.279567 |
| <i>EPHB4</i> | -0.63858 | 2.768598 | -4.93681 | 1.90E-06 | 3.232449 |
| <i>HK3</i> | -0.6965 | 1.661819 | -4.93017 | 1.95E-06 | 3.203665 |
| <i>TMEM59L</i> | 0.61518 | 5.396604 | 4.916535 | 2.08E-06 | 3.144675 |
| <i>TRAF4</i> | 0.680285 | 4.376676 | 4.91479 | 2.09E-06 | 3.137133 |
| <i>CRISPLD1</i> | 0.725783 | 4.590696 | 4.900717 | 2.23E-06 | 3.076396 |
| <i>MIR9-1HG</i> | 1.041565 | 5.743116 | 4.886527 | 2.37E-06 | 3.01529 |
| <i>LOXL1</i> | -0.87645 | 2.207016 | -4.88435 | 2.40E-06 | 3.005934 |
| <i>EMILIN1</i> | -0.81398 | 4.350015 | -4.88142 | 2.43E-06 | 2.993312 |
| <i>ELAVL3</i> | 0.887432 | 3.272519 | 4.881029 | 2.43E-06 | 2.991648 |
| <i>GDAP1L1</i> | 0.89678 | 2.325216 | 4.874979 | 2.50E-06 | 2.965656 |
| <i>ICAM1</i> | -0.86137 | 3.070454 | -4.87191 | 2.53E-06 | 2.952485 |
| <i>RARRES2</i> | -1.21048 | 4.378502 | -4.86954 | 2.56E-06 | 2.942299 |
| <i>DSCAM</i> | 0.696742 | 1.892835 | 4.86825 | 2.58E-06 | 2.936776 |
| <i>LSAMP</i> | 0.624703 | 3.756697 | 4.867289 | 2.59E-06 | 2.932654 |
| <i>NKAIN1</i> | 0.944457 | 1.818412 | 4.866187 | 2.60E-06 | 2.927927 |
| <i>PLAU</i> | -0.92941 | 3.486022 | -4.86597 | 2.60E-06 | 2.926979 |
| <i>OMG</i> | 0.803972 | 3.055387 | 4.864343 | 2.62E-06 | 2.92002 |
| <i>AQP1</i> | 1.297212 | 7.531372 | 4.863527 | 2.63E-06 | 2.916521 |
| <i>SHD</i> | 1.196687 | 3.32113 | 4.857132 | 2.71E-06 | 2.889121 |
| <i>MYT1</i> | 0.886106 | 1.44377 | 4.850604 | 2.78E-06 | 2.861181 |
| <i>SPOCD1</i> | -1.04868 | 3.168961 | -4.84714 | 2.83E-06 | 2.846359 |
| <i>CDK5R1</i> | 0.788013 | 3.181335 | 4.844763 | 2.86E-06 | 2.836204 |
| <i>JPH4</i> | 0.892764 | 2.565148 | 4.821966 | 3.16E-06 | 2.738944 |

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|-------------------|----------|----------|----------|----------|----------|
| <i>FAM181B</i> | 0.820304 | 4.677128 | 4.803337 | 3.43E-06 | 2.65972 |
| <i>ANXA1</i> | -0.8997 | 6.020549 | -4.78941 | 3.65E-06 | 2.60066 |
| <i>LGALS1</i> | -0.63284 | 8.597638 | -4.78672 | 3.69E-06 | 2.589236 |
| <i>ADGRB1</i> | 1.120854 | 2.935971 | 4.78146 | 3.77E-06 | 2.566981 |
| <i>DOK2</i> | -0.58799 | 1.348405 | -4.78017 | 3.80E-06 | 2.561532 |
| <i>SLC6A1</i> | 0.618044 | 2.308464 | 4.773726 | 3.90E-06 | 2.534273 |
| <i>DKK1</i> | -1.09617 | 1.148208 | -4.77252 | 3.93E-06 | 2.529169 |
| <i>ASIC4</i> | 1.067271 | 2.511484 | 4.770097 | 3.97E-06 | 2.518942 |
| <i>COLEC12</i> | -0.78535 | 2.304717 | -4.76084 | 4.13E-06 | 2.479847 |
| <i>RAC2</i> | -0.61488 | 2.952794 | -4.75701 | 4.20E-06 | 2.463716 |
| <i>SLIT1</i> | 0.910569 | 2.902515 | 4.747617 | 4.38E-06 | 2.424156 |
| <i>HES6</i> | 1.021226 | 5.548864 | 4.74629 | 4.40E-06 | 2.418569 |
| <i>AL359091.1</i> | 0.802474 | 1.163099 | 4.738534 | 4.55E-06 | 2.385955 |
| <i>MAPT</i> | 0.726613 | 3.637668 | 4.737804 | 4.57E-06 | 2.382886 |
| <i>ADAMTS14</i> | -0.65626 | 1.263143 | -4.72486 | 4.83E-06 | 2.328538 |
| <i>MMP16</i> | 0.65945 | 2.255523 | 4.723594 | 4.86E-06 | 2.323243 |
| <i>RIMS4</i> | 0.850554 | 2.376008 | 4.718379 | 4.97E-06 | 2.301387 |
| <i>BRSK2</i> | 0.673278 | 1.996968 | 4.714342 | 5.06E-06 | 2.284483 |
| <i>BEX2</i> | 0.835239 | 4.663598 | 4.700119 | 5.38E-06 | 2.22501 |
| <i>AL031430.1</i> | 0.866023 | 1.942417 | 4.699535 | 5.39E-06 | 2.222569 |
| <i>FSD1</i> | 0.587543 | 3.185278 | 4.684882 | 5.75E-06 | 2.161452 |
| <i>C1RL</i> | -0.65829 | 3.050364 | -4.68108 | 5.84E-06 | 2.1456 |
| <i>TAF5</i> | 0.717248 | 3.603699 | 4.680834 | 5.85E-06 | 2.144591 |
| <i>SCD5</i> | 0.754015 | 7.110758 | 4.67727 | 5.94E-06 | 2.129759 |
| <i>ATCAY</i> | 1.283861 | 3.154568 | 4.660894 | 6.37E-06 | 2.061709 |
| <i>EMP3</i> | -0.78658 | 5.932505 | -4.65834 | 6.44E-06 | 2.051097 |
| <i>COL1A2</i> | -1.2034 | 4.816631 | -4.65827 | 6.44E-06 | 2.050807 |
| <i>SI00A10</i> | -0.92329 | 7.429554 | -4.65289 | 6.59E-06 | 2.028517 |
| <i>CSF1</i> | -0.58857 | 4.309074 | -4.64949 | 6.69E-06 | 2.014439 |
| <i>ITM2A</i> | 0.739531 | 5.385921 | 4.639202 | 6.99E-06 | 1.971855 |
| <i>ABCG2</i> | 0.624176 | 2.953744 | 4.63703 | 7.06E-06 | 1.962879 |
| <i>CLEC5A</i> | -0.69509 | 2.019622 | -4.63592 | 7.09E-06 | 1.958276 |
| <i>LRRTM2</i> | 0.596684 | 2.062283 | 4.631422 | 7.23E-06 | 1.93971 |
| <i>CA9</i> | -1.16593 | 2.87393 | -4.62893 | 7.31E-06 | 1.929436 |
| <i>CA14</i> | 0.755047 | 2.385627 | 4.624323 | 7.45E-06 | 1.910412 |
| <i>ITGB4</i> | -0.87466 | 4.148943 | -4.62328 | 7.49E-06 | 1.906105 |
| <i>PTGES</i> | -0.77574 | 1.665909 | -4.61973 | 7.60E-06 | 1.891487 |
| <i>C1R</i> | -0.87077 | 5.307033 | -4.61088 | 7.89E-06 | 1.855032 |
| <i>C5AR1</i> | -0.79274 | 3.38792 | -4.61053 | 7.91E-06 | 1.853573 |
| <i>LOX</i> | -0.95826 | 2.886777 | -4.6093 | 7.95E-06 | 1.848507 |
| <i>ARSI</i> | -0.826 | 1.521464 | -4.60902 | 7.96E-06 | 1.847374 |
| <i>IFITM3</i> | -0.67611 | 8.09468 | -4.60538 | 8.08E-06 | 1.832386 |
| <i>NEU4</i> | 0.903807 | 2.268473 | 4.600119 | 8.26E-06 | 1.810784 |
| <i>TNFRSF12A</i> | -0.7698 | 5.269531 | -4.59831 | 8.33E-06 | 1.803357 |
| <i>SOD3</i> | -0.73876 | 3.144414 | -4.59773 | 8.35E-06 | 1.800955 |
| <i>CAPG</i> | -0.59926 | 5.764844 | -4.59596 | 8.41E-06 | 1.793711 |
| <i>PLOD2</i> | -0.61896 | 3.826354 | -4.58725 | 8.73E-06 | 1.757996 |

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|------------------|----------|----------|----------|----------|----------|
| <i>WASF1</i> | 0.648865 | 3.656465 | 4.578739 | 9.05E-06 | 1.723119 |
| <i>SERPINH1</i> | -0.5902 | 4.819815 | -4.57746 | 9.10E-06 | 1.717894 |
| <i>TPM2</i> | -0.75659 | 4.444106 | -4.57332 | 9.26E-06 | 1.700964 |
| <i>ABAT</i> | 0.672711 | 4.589875 | 4.565719 | 9.57E-06 | 1.669889 |
| <i>PCOLCE</i> | -0.93612 | 3.729996 | -4.56529 | 9.58E-06 | 1.668157 |
| <i>MIR210HG</i> | -0.63749 | 2.089964 | -4.5614 | 9.74E-06 | 1.652244 |
| <i>FOSL2</i> | -0.63855 | 3.721536 | -4.5565 | 9.95E-06 | 1.632267 |
| <i>COL1A1</i> | -1.37044 | 4.696717 | -4.55395 | 1.01E-05 | 1.621856 |
| <i>CRMP1</i> | 0.673361 | 5.071928 | 4.553142 | 1.01E-05 | 1.618581 |
| <i>TYMP</i> | -0.65104 | 3.261014 | -4.54627 | 1.04E-05 | 1.590583 |
| <i>LRRC4</i> | 0.619817 | 2.707337 | 4.544129 | 1.05E-05 | 1.581884 |
| <i>ASCL1</i> | 1.002268 | 3.930614 | 4.543855 | 1.05E-05 | 1.580769 |
| <i>APC2</i> | 0.709049 | 3.970752 | 4.536422 | 1.08E-05 | 1.550546 |
| <i>APOBEC3C</i> | -0.61434 | 3.892984 | -4.51827 | 1.17E-05 | 1.476921 |
| <i>MANIA1</i> | -0.60981 | 2.299562 | -4.51812 | 1.17E-05 | 1.476299 |
| <i>PLBD1</i> | -0.58892 | 2.220652 | -4.51764 | 1.17E-05 | 1.474363 |
| <i>MDK</i> | -0.63718 | 6.170908 | -4.5085 | 1.22E-05 | 1.437365 |
| <i>GRIK3</i> | 0.848609 | 3.467985 | 4.507115 | 1.23E-05 | 1.431761 |
| <i>MDFIC</i> | -0.66605 | 2.6537 | -4.50656 | 1.23E-05 | 1.429505 |
| <i>GSDMD</i> | -0.6001 | 3.057321 | -4.50116 | 1.26E-05 | 1.407686 |
| <i>GABBR1</i> | 0.652047 | 3.793464 | 4.49353 | 1.30E-05 | 1.376905 |
| <i>SNX22</i> | 0.89659 | 1.923728 | 4.487802 | 1.33E-05 | 1.353815 |
| <i>CNTN1</i> | 0.957371 | 3.688292 | 4.487359 | 1.33E-05 | 1.352032 |
| <i>DCLK2</i> | 0.717744 | 5.649272 | 4.476706 | 1.39E-05 | 1.309151 |
| <i>COL6A3</i> | -1.107 | 1.699573 | -4.47459 | 1.40E-05 | 1.300647 |
| <i>TTYHI</i> | 0.821307 | 5.43296 | 4.47376 | 1.41E-05 | 1.297308 |
| <i>FBLL1</i> | 0.821011 | 2.248745 | 4.468924 | 1.44E-05 | 1.277877 |
| <i>EPHB1</i> | 0.936759 | 2.344771 | 4.467721 | 1.45E-05 | 1.273047 |
| <i>LINC00844</i> | 0.624499 | 1.358497 | 4.465734 | 1.46E-05 | 1.265071 |
| <i>DSCAML1</i> | 0.662311 | 1.259736 | 4.460416 | 1.49E-05 | 1.243739 |
| <i>GLCCII</i> | 0.650583 | 2.693565 | 4.457668 | 1.51E-05 | 1.232721 |
| <i>SLC4A11</i> | -0.62385 | 1.30075 | -4.45353 | 1.53E-05 | 1.216137 |
| <i>MEX3A</i> | 0.735317 | 2.684779 | 4.450208 | 1.55E-05 | 1.202845 |
| <i>FLJ16779</i> | 0.933646 | 2.071143 | 4.447794 | 1.57E-05 | 1.193181 |
| <i>SOCS3</i> | -0.96599 | 4.863788 | -4.44713 | 1.57E-05 | 1.190532 |
| <i>GNG4</i> | 0.765146 | 3.380649 | 4.443166 | 1.60E-05 | 1.174676 |
| <i>TREMI</i> | -0.8188 | 1.807915 | -4.43902 | 1.63E-05 | 1.158109 |
| <i>RHOD</i> | -0.80046 | 1.445031 | -4.43239 | 1.67E-05 | 1.131648 |
| <i>GEM</i> | -0.63573 | 3.772226 | -4.43055 | 1.69E-05 | 1.124311 |
| <i>MXRA8</i> | -0.64776 | 4.082275 | -4.4272 | 1.71E-05 | 1.110935 |
| <i>CKB</i> | 0.862711 | 8.148321 | 4.427018 | 1.71E-05 | 1.110215 |
| <i>KCNIP2</i> | 0.612472 | 1.6063 | 4.414737 | 1.80E-05 | 1.061317 |
| <i>B3GAT1</i> | 0.612158 | 3.385486 | 4.41116 | 1.83E-05 | 1.047094 |
| <i>MASP1</i> | 0.711092 | 2.660171 | 4.407172 | 1.86E-05 | 1.03125 |
| <i>PLP1</i> | 1.243004 | 6.181318 | 4.406737 | 1.86E-05 | 1.029522 |
| <i>PTPRU</i> | -0.64534 | 1.676867 | -4.39528 | 1.95E-05 | 0.984069 |
| <i>PLPPR1</i> | 1.140914 | 2.694788 | 4.393373 | 1.97E-05 | 0.976508 |

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| <i>OSMR</i> | -0.72284 | 3.409467 | -4.38205 | 2.06E-05 | 0.931706 |
| <i>NMB</i> | 0.82636 | 6.122734 | 4.371872 | 2.15E-05 | 0.891488 |
| <i>LIF</i> | -0.93548 | 2.336405 | -4.35781 | 2.28E-05 | 0.83605 |
| <i>GPX8</i> | -0.68579 | 2.469638 | -4.35295 | 2.32E-05 | 0.816931 |
| <i>SMIM18</i> | 0.706179 | 1.092315 | 4.351896 | 2.33E-05 | 0.812794 |
| <i>HES5</i> | 0.821145 | 1.693814 | 4.346009 | 2.39E-05 | 0.789658 |
| <i>SDC4</i> | -0.83312 | 4.931847 | -4.3384 | 2.47E-05 | 0.759785 |
| <i>KIF21B</i> | 0.680162 | 2.010149 | 4.336853 | 2.48E-05 | 0.753725 |
| <i>GPR17</i> | 1.410636 | 2.49346 | 4.336517 | 2.49E-05 | 0.752404 |
| <i>ADAM12</i> | -0.6363 | 2.066579 | -4.336 | 2.49E-05 | 0.750372 |
| <i>MT1A</i> | -0.69529 | 1.691019 | -4.33436 | 2.51E-05 | 0.743956 |
| <i>NCAM1</i> | 0.626235 | 4.699683 | 4.323102 | 2.63E-05 | 0.699871 |
| <i>COL6A2</i> | -1.17714 | 5.119348 | -4.32309 | 2.63E-05 | 0.699813 |
| <i>DNER</i> | 0.814208 | 5.971809 | 4.320873 | 2.65E-05 | 0.691154 |
| <i>CRB2</i> | -0.83967 | 2.97999 | -4.31955 | 2.66E-05 | 0.685995 |
| <i>TSPAN7</i> | 0.654702 | 5.729943 | 4.303968 | 2.84E-05 | 0.62516 |
| <i>GNG7</i> | 0.679855 | 4.264357 | 4.303872 | 2.84E-05 | 0.624788 |
| <i>CEMIP</i> | -0.63257 | 1.678361 | -4.29794 | 2.91E-05 | 0.601673 |
| <i>AGAP2</i> | 1.091854 | 2.782241 | 4.297726 | 2.91E-05 | 0.600846 |
| <i>IFITM2</i> | -0.63811 | 5.167662 | -4.2806 | 3.12E-05 | 0.5343 |
| <i>LGALS3</i> | -0.92506 | 6.210459 | -4.2762 | 3.18E-05 | 0.517227 |
| <i>NDRG4</i> | 0.623517 | 4.453653 | 4.275538 | 3.19E-05 | 0.514648 |
| <i>BAALC</i> | 0.609776 | 6.371513 | 4.275536 | 3.19E-05 | 0.514639 |
| <i>DCX</i> | 0.982124 | 1.921651 | 4.273136 | 3.22E-05 | 0.505338 |
| <i>NFKBIZ</i> | -0.60903 | 1.822791 | -4.26152 | 3.37E-05 | 0.460372 |
| <i>LOXL2</i> | -0.76443 | 3.172153 | -4.26118 | 3.38E-05 | 0.45907 |
| <i>CSTA</i> | -0.60662 | 1.81609 | -4.25807 | 3.42E-05 | 0.447043 |
| <i>ATP6V1G2</i> | 0.645904 | 3.263642 | 4.253161 | 3.49E-05 | 0.428077 |
| <i>MAST1</i> | 0.595644 | 1.952023 | 4.24894 | 3.55E-05 | 0.411792 |
| <i>PAMR1</i> | -0.67898 | 3.535479 | -4.24615 | 3.59E-05 | 0.401025 |
| <i>COL14A1</i> | -0.72109 | 1.368913 | -4.23944 | 3.68E-05 | 0.375177 |
| <i>PMP2</i> | 0.849765 | 7.675888 | 4.237397 | 3.72E-05 | 0.367314 |
| <i>ARC</i> | 0.974483 | 4.595939 | 4.225669 | 3.89E-05 | 0.322224 |
| <i>TFPI2</i> | -0.71607 | 1.025579 | -4.22019 | 3.98E-05 | 0.301183 |
| <i>RDH10</i> | -0.71695 | 3.636994 | -4.21796 | 4.02E-05 | 0.292631 |
| <i>OLFML2B</i> | -0.72036 | 3.443063 | -4.19991 | 4.32E-05 | 0.22355 |
| <i>TIMP4</i> | 0.8678 | 5.78118 | 4.199774 | 4.32E-05 | 0.223022 |
| <i>CA10</i> | 0.95733 | 1.515626 | 4.193514 | 4.43E-05 | 0.199114 |
| <i>SPON2</i> | -0.63453 | 1.91975 | -4.18448 | 4.59E-05 | 0.164659 |
| <i>GSX1</i> | 0.824772 | 1.625464 | 4.177451 | 4.72E-05 | 0.137904 |
| <i>IL1R1</i> | -0.66424 | 1.66093 | -4.16882 | 4.89E-05 | 0.105103 |
| <i>SPOCK2</i> | -0.71799 | 5.096945 | -4.1645 | 4.97E-05 | 0.088683 |
| <i>PODXL2</i> | 0.69518 | 5.05413 | 4.156931 | 5.12E-05 | 0.059984 |
| <i>SLC35F1</i> | 0.658967 | 3.690972 | 4.149801 | 5.27E-05 | 0.032984 |
| <i>SHISA7</i> | 0.691616 | 1.291392 | 4.148665 | 5.29E-05 | 0.028687 |
| <i>FCGBP</i> | -0.89638 | 4.840942 | -4.143 | 5.41E-05 | 0.007262 |
| <i>ABCC3</i> | -0.86554 | 2.681836 | -4.13215 | 5.65E-05 | -0.03369 |

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|------------------|----------|----------|----------|----------|----------|
| <i>STEAP3</i> | -0.69575 | 4.173167 | -4.12473 | 5.82E-05 | -0.06166 |
| <i>FAM222A</i> | 0.640025 | 2.394578 | 4.122943 | 5.86E-05 | -0.06839 |
| <i>TPBG</i> | -0.75488 | 1.529491 | -4.12174 | 5.89E-05 | -0.07292 |
| <i>ERBB3</i> | 0.719113 | 1.668958 | 4.11593 | 6.02E-05 | -0.09477 |
| <i>SERPINA1</i> | -0.77436 | 3.907248 | -4.11125 | 6.14E-05 | -0.11234 |
| <i>UBE2QL1</i> | 0.586135 | 1.510513 | 4.104014 | 6.31E-05 | -0.13951 |
| <i>LIMS2</i> | 0.823741 | 2.109578 | 4.08543 | 6.79E-05 | -0.20907 |
| <i>PHACTR3</i> | 0.708054 | 1.91504 | 4.08252 | 6.87E-05 | -0.21994 |
| <i>VSTM2B</i> | 0.814537 | 1.63363 | 4.075338 | 7.06E-05 | -0.24674 |
| <i>RASSF2</i> | 0.59093 | 5.507226 | 4.06455 | 7.37E-05 | -0.28692 |
| <i>FAM20A</i> | -0.60954 | 1.679937 | -4.06454 | 7.37E-05 | -0.28696 |
| <i>MANIC1</i> | -0.6515 | 3.395009 | -4.05222 | 7.73E-05 | -0.33272 |
| <i>MRC1</i> | -0.79944 | 1.555917 | -4.041 | 8.08E-05 | -0.37433 |
| <i>HTATIP2</i> | -0.60764 | 2.681559 | -4.037 | 8.20E-05 | -0.38914 |
| <i>TUBA1A</i> | 0.58543 | 9.895871 | 4.032788 | 8.34E-05 | -0.40472 |
| <i>PRF1</i> | -0.63188 | 1.579795 | -4.01651 | 8.88E-05 | -0.4648 |
| <i>CELF3</i> | 0.698882 | 1.58032 | 4.012692 | 9.01E-05 | -0.47885 |
| <i>SAPCD2</i> | 0.645142 | 2.309332 | 4.010473 | 9.09E-05 | -0.48702 |
| <i>PLLP</i> | 0.623631 | 2.588618 | 4.008101 | 9.17E-05 | -0.49575 |
| <i>F13A1</i> | -1.2889 | 3.574026 | -4.0071 | 9.21E-05 | -0.49941 |
| <i>TUBB4A</i> | 1.071388 | 4.192262 | 4.003693 | 9.33E-05 | -0.51195 |
| <i>TMEM35A</i> | 0.610409 | 2.803396 | 4.000578 | 9.45E-05 | -0.52339 |
| <i>STEAP1</i> | -0.71168 | 1.964963 | -3.99933 | 9.49E-05 | -0.52798 |
| <i>CDI63</i> | -0.99169 | 4.342337 | -3.99693 | 9.58E-05 | -0.53678 |
| <i>LINC02283</i> | 1.14593 | 1.987815 | 3.996754 | 9.59E-05 | -0.53743 |
| <i>ENPP6</i> | 0.604402 | 1.73293 | 3.992171 | 9.76E-05 | -0.55424 |
| <i>MIR9-3HG</i> | 0.633899 | 1.697579 | 3.990791 | 9.81E-05 | -0.5593 |
| <i>RGS2</i> | -0.74058 | 4.776719 | -3.99061 | 9.82E-05 | -0.55998 |
| <i>MT1E</i> | -0.73477 | 5.908061 | -3.98209 | 0.000101 | -0.59114 |
| <i>ERRF11</i> | -0.59718 | 3.592703 | -3.9728 | 0.000105 | -0.62511 |
| <i>SYP</i> | 0.66912 | 3.466461 | 3.96903 | 0.000107 | -0.63887 |
| <i>CENPV</i> | 0.807928 | 2.690478 | 3.968222 | 0.000107 | -0.64182 |
| <i>SLC24A3</i> | 0.630215 | 2.799223 | 3.961005 | 0.00011 | -0.66812 |
| <i>LAMB1</i> | -0.62778 | 2.555816 | -3.95849 | 0.000111 | -0.67729 |
| <i>MTIL</i> | -0.75464 | 3.517378 | -3.95196 | 0.000114 | -0.70102 |
| <i>SOX11</i> | 0.747057 | 2.789624 | 3.951738 | 0.000114 | -0.70184 |
| <i>ZNF488</i> | 0.905177 | 1.747232 | 3.950588 | 0.000114 | -0.70602 |
| <i>CXCL14</i> | -1.17911 | 4.766537 | -3.94649 | 0.000116 | -0.72092 |
| <i>CEBPD</i> | -0.60529 | 5.933825 | -3.93988 | 0.000119 | -0.7449 |
| <i>PRR36</i> | 0.596414 | 2.215809 | 3.928206 | 0.000125 | -0.78717 |
| <i>TTC9B</i> | 0.732547 | 1.912962 | 3.924846 | 0.000126 | -0.79932 |
| <i>ETNPPL</i> | 0.918759 | 2.326917 | 3.916176 | 0.00013 | -0.83063 |
| <i>RCOR2</i> | 0.749866 | 2.804517 | 3.908669 | 0.000134 | -0.85769 |
| <i>GADD45G</i> | 0.807765 | 3.971873 | 3.898888 | 0.000139 | -0.89289 |
| <i>STC1</i> | -0.68911 | 2.050744 | -3.88991 | 0.000144 | -0.92511 |
| <i>LY96</i> | -0.69518 | 4.196811 | -3.88241 | 0.000148 | -0.95203 |
| <i>HSPA7</i> | -0.60216 | 1.997718 | -3.87482 | 0.000153 | -0.97919 |

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| <i>CYP11B1</i> | -0.76139 | 1.812639 | -3.87443 | 0.000153 | -0.98058 |
| <i>KIF5A</i> | 0.821942 | 3.152399 | 3.86878 | 0.000156 | -1.00077 |
| <i>RARRES1</i> | -0.76179 | 1.840152 | -3.85838 | 0.000162 | -1.03788 |
| <i>CAMKV</i> | 0.753658 | 1.924541 | 3.850415 | 0.000167 | -1.06623 |
| <i>ARHGDI3</i> | 0.666685 | 1.630968 | 3.840728 | 0.000173 | -1.10065 |
| <i>MYL9</i> | -0.62914 | 4.502647 | -3.83977 | 0.000174 | -1.10403 |
| <i>RAB3A</i> | 0.673761 | 3.330448 | 3.835978 | 0.000177 | -1.1175 |
| <i>LINC01896</i> | 0.634412 | 3.610188 | 3.820123 | 0.000187 | -1.17363 |
| <i>CNN2</i> | -0.644 | 3.151234 | -3.81922 | 0.000188 | -1.17682 |
| <i>MMP7</i> | -0.87881 | 1.466934 | -3.81769 | 0.000189 | -1.18223 |
| <i>ZMYND10</i> | -0.74508 | 1.995259 | -3.81514 | 0.000191 | -1.19123 |
| <i>GFPT2</i> | -0.63717 | 3.562412 | -3.80514 | 0.000198 | -1.22647 |
| <i>WSCD1</i> | 0.718337 | 4.228371 | 3.801854 | 0.0002 | -1.23805 |
| <i>CIS</i> | -0.76071 | 4.796793 | -3.79992 | 0.000202 | -1.24486 |
| <i>IL6</i> | -0.65957 | 1.15641 | -3.79926 | 0.000202 | -1.24716 |
| <i>KCND2</i> | 0.732044 | 2.304953 | 3.790674 | 0.000209 | -1.27735 |
| <i>FGFRL1</i> | -0.5911 | 3.85398 | -3.78309 | 0.000215 | -1.30394 |
| <i>STAB1</i> | -0.61966 | 3.724748 | -3.77541 | 0.000221 | -1.33086 |
| <i>PSD2</i> | 0.789796 | 3.833918 | 3.771942 | 0.000224 | -1.34298 |
| <i>LUZP2</i> | 0.777197 | 1.567526 | 3.769344 | 0.000226 | -1.35206 |
| <i>TRAC</i> | -0.60802 | 2.340307 | -3.76763 | 0.000228 | -1.35803 |
| <i>UGT8</i> | 0.945002 | 2.779645 | 3.766791 | 0.000228 | -1.36098 |
| <i>COL20A1</i> | 1.021599 | 2.118891 | 3.765235 | 0.00023 | -1.36641 |
| <i>AQP9</i> | -0.66744 | 1.441701 | -3.75375 | 0.00024 | -1.40646 |
| <i>SOX4</i> | 0.751652 | 4.776216 | 3.749559 | 0.000243 | -1.42104 |
| <i>MEDAG</i> | -0.61924 | 0.984893 | -3.74119 | 0.000251 | -1.45012 |
| <i>RPH3A</i> | 0.807882 | 1.814133 | 3.739321 | 0.000253 | -1.45661 |
| <i>LYVE1</i> | -0.82552 | 1.731062 | -3.7354 | 0.000256 | -1.47022 |
| <i>NSG2</i> | 1.037582 | 2.765123 | 3.731157 | 0.00026 | -1.48492 |
| <i>CELF5</i> | 0.626715 | 1.402923 | 3.726128 | 0.000265 | -1.50233 |
| <i>SLC2A3</i> | -0.60171 | 3.531446 | -3.70422 | 0.000287 | -1.57796 |
| <i>VIPR2</i> | 0.757772 | 1.201283 | 3.700846 | 0.000291 | -1.58956 |
| <i>SYNPO</i> | -0.60306 | 3.623287 | -3.69696 | 0.000295 | -1.60292 |
| <i>IL2RA</i> | -0.62876 | 0.961141 | -3.69086 | 0.000301 | -1.62388 |
| <i>CXCL3</i> | -0.63845 | 1.256375 | -3.67015 | 0.000325 | -1.69477 |
| <i>DTX3</i> | 0.66539 | 5.015032 | 3.66258 | 0.000334 | -1.72062 |
| <i>HI-2</i> | -0.71156 | 4.689415 | -3.65768 | 0.00034 | -1.73733 |
| <i>B3GAT2</i> | 0.628964 | 1.642154 | 3.654931 | 0.000343 | -1.74668 |
| <i>MT1G</i> | -0.65232 | 3.651187 | -3.64326 | 0.000358 | -1.78634 |
| <i>MXRA5</i> | -0.71444 | 1.882025 | -3.63482 | 0.000369 | -1.81497 |
| <i>COL3A1</i> | -1.04414 | 5.079559 | -3.6234 | 0.000385 | -1.85362 |
| <i>SEPTIN3</i> | 0.609432 | 3.995076 | 3.608931 | 0.000405 | -1.90242 |
| <i>TGFBI</i> | -0.74841 | 4.688723 | -3.60796 | 0.000406 | -1.90567 |
| <i>CXCL5</i> | -0.73321 | 1.154958 | -3.59631 | 0.000424 | -1.94486 |
| <i>CPNE5</i> | 0.607371 | 2.792427 | 3.592245 | 0.00043 | -1.95849 |
| <i>SERPING1</i> | -0.62547 | 4.845555 | -3.58854 | 0.000436 | -1.9709 |
| <i>IER3</i> | -0.60469 | 2.381499 | -3.5772 | 0.000454 | -2.00886 |

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| <i>CD14</i> | -0.64701 | 6.564173 | -3.54751 | 0.000504 | -2.10773 |
| <i>PPP1R16B</i> | 0.608558 | 1.867052 | 3.52889 | 0.000538 | -2.16936 |
| <i>DLL1</i> | 0.684147 | 2.643691 | 3.528578 | 0.000539 | -2.17039 |
| <i>AKAP12</i> | -0.66133 | 3.942252 | -3.52816 | 0.000539 | -2.17179 |
| <i>PTPRZ1</i> | 0.679901 | 7.227877 | 3.527112 | 0.000541 | -2.17524 |
| <i>FA2H</i> | 0.689825 | 1.672912 | 3.526789 | 0.000542 | -2.1763 |
| <i>SBK1</i> | 0.598742 | 2.761293 | 3.525669 | 0.000544 | -2.18 |
| <i>SOX10</i> | 1.141532 | 2.963814 | 3.520845 | 0.000553 | -2.19591 |
| <i>EMP1</i> | -0.59492 | 5.142453 | -3.52037 | 0.000554 | -2.19746 |
| <i>PTX3</i> | -0.87197 | 3.721298 | -3.50806 | 0.000579 | -2.23801 |
| <i>SLC6A11</i> | 0.726317 | 2.609758 | 3.503151 | 0.000589 | -2.25411 |
| <i>KCNJ10</i> | 0.639275 | 4.325842 | 3.47325 | 0.000654 | -2.35189 |
| <i>SNAP91</i> | 0.618038 | 1.501498 | 3.455527 | 0.000695 | -2.4095 |
| <i>MDFI</i> | 0.700609 | 4.045127 | 3.434404 | 0.000748 | -2.47783 |
| <i>COL6A1</i> | -0.69968 | 6.252294 | -3.42862 | 0.000763 | -2.49647 |
| <i>NPPA</i> | 0.75854 | 1.701809 | 3.427209 | 0.000766 | -2.50102 |
| <i>COL5A2</i> | -0.6018 | 3.98446 | -3.41614 | 0.000796 | -2.53662 |
| <i>MT2A</i> | -0.61085 | 9.163445 | -3.39957 | 0.000843 | -2.58972 |
| <i>ADCYAP1R1</i> | 0.704108 | 5.115591 | 3.380856 | 0.000898 | -2.64942 |
| <i>AC008080.4</i> | 0.650432 | 0.710793 | 3.378254 | 0.000906 | -2.6577 |
| <i>WDR38</i> | -0.67048 | 1.162644 | -3.37281 | 0.000923 | -2.67501 |
| <i>CCL2</i> | -0.87517 | 4.784592 | -3.36874 | 0.000936 | -2.68793 |
| <i>RNASE2</i> | -0.70039 | 3.548286 | -3.36034 | 0.000963 | -2.71455 |
| <i>GPD1</i> | 0.782297 | 2.809475 | 3.351652 | 0.000992 | -2.74201 |
| <i>KCNQ2</i> | 0.69067 | 2.699973 | 3.350939 | 0.000994 | -2.74426 |
| <i>LANCL2</i> | 0.885712 | 4.612268 | 3.347399 | 0.001006 | -2.75543 |
| <i>DDIT4L</i> | -0.73039 | 2.472592 | -3.32576 | 0.001082 | -2.82352 |
| <i>TAGLN3</i> | 0.800701 | 4.134975 | 3.315647 | 0.00112 | -2.85519 |
| <i>LGI3</i> | 0.674029 | 2.100614 | 3.309973 | 0.001141 | -2.87292 |
| <i>CACNG4</i> | 0.789928 | 4.320523 | 3.306755 | 0.001154 | -2.88297 |
| <i>C7orf57</i> | -0.62372 | 1.189593 | -3.2847 | 0.001242 | -2.95161 |
| <i>LUM</i> | -0.83152 | 3.197927 | -3.2842 | 0.001244 | -2.95315 |
| <i>ADM</i> | -0.76159 | 4.355626 | -3.2835 | 0.001247 | -2.95533 |
| <i>IGLON5</i> | 0.726217 | 2.747876 | 3.280447 | 0.00126 | -2.9648 |
| <i>GPC2</i> | 0.59367 | 2.253934 | 3.279051 | 0.001265 | -2.96913 |
| <i>OPALIN</i> | 0.668475 | 0.958945 | 3.274954 | 0.001283 | -2.98182 |
| <i>GDF15</i> | -0.65654 | 2.716954 | -3.26905 | 0.001308 | -3.00006 |
| <i>IBSP</i> | -0.88774 | 2.836026 | -3.26222 | 0.001338 | -3.02115 |
| <i>SYN2</i> | 0.61891 | 1.963071 | 3.254417 | 0.001373 | -3.0452 |
| <i>FERMT1</i> | 0.652926 | 1.976767 | 3.243377 | 0.001424 | -3.07913 |
| <i>MSTN</i> | 0.728212 | 1.970579 | 3.234012 | 0.001469 | -3.10782 |
| <i>S100A9</i> | -0.84507 | 5.709062 | -3.2262 | 0.001507 | -3.1317 |
| <i>TNFAIP2</i> | -0.58627 | 3.170278 | -3.22553 | 0.001511 | -3.13375 |
| <i>CSDC2</i> | 0.605415 | 2.231791 | 3.222114 | 0.001528 | -3.14418 |
| <i>MOXD1</i> | -0.8086 | 3.375167 | -3.21505 | 0.001563 | -3.16571 |
| <i>THBS1</i> | -0.75807 | 2.729365 | -3.20147 | 0.001635 | -3.20699 |
| <i>HOXC10</i> | 0.655519 | 1.797497 | 3.200888 | 0.001638 | -3.20875 |

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| <i>CRABP2</i> | -0.65296 | 3.116998 | -3.19851 | 0.00165 | -3.21597 |
| <i>C9orf24</i> | -0.63847 | 1.438334 | -3.18511 | 0.001724 | -3.25649 |
| <i>PLA2G5</i> | -0.74398 | 2.859484 | -3.15613 | 0.001894 | -3.34366 |
| <i>AQP4</i> | 0.648378 | 7.520795 | 3.122113 | 0.002114 | -3.44506 |
| <i>AC141557.1</i> | 0.632608 | 1.896605 | 3.119341 | 0.002133 | -3.45328 |
| <i>INSM1</i> | 0.697187 | 2.610401 | 3.112588 | 0.002179 | -3.47328 |
| <i>S100A8</i> | -0.81395 | 3.942256 | -3.10581 | 0.002227 | -3.49331 |
| <i>LMO1</i> | 0.655708 | 2.312964 | 3.102075 | 0.002254 | -3.50434 |
| <i>RPRM</i> | 0.72672 | 2.211673 | 3.094132 | 0.002312 | -3.52774 |
| <i>ANGPTL4</i> | -0.78527 | 4.20871 | -3.09069 | 0.002337 | -3.53785 |
| <i>SMOC1</i> | 1.024098 | 3.399261 | 3.068106 | 0.002511 | -3.60404 |
| <i>PI16</i> | 0.776101 | 3.084287 | 3.057178 | 0.002599 | -3.63591 |
| <i>SLC14A1</i> | 0.695543 | 1.665681 | 2.996147 | 0.003147 | -3.81201 |
| <i>NAMPT</i> | -0.63002 | 5.256972 | -2.98475 | 0.003261 | -3.84453 |
| <i>FBXL16</i> | 0.619804 | 3.379282 | 2.979869 | 0.00331 | -3.85844 |
| <i>HPCAL4</i> | 0.607973 | 2.287656 | 2.974919 | 0.003361 | -3.87251 |
| <i>MFAP4</i> | -0.61823 | 4.292138 | -2.96695 | 0.003445 | -3.89512 |
| <i>MARCHF9</i> | 0.780745 | 3.819998 | 2.93901 | 0.003755 | -3.97398 |
| <i>KCNJ16</i> | 0.609016 | 2.26351 | 2.935052 | 0.0038 | -3.98509 |
| <i>TSPAN31</i> | 0.73412 | 4.24293 | 2.931958 | 0.003837 | -3.99377 |
| <i>FAM107A</i> | 0.602255 | 6.528065 | 2.907325 | 0.004136 | -4.06258 |
| <i>BCAS1</i> | 0.760627 | 2.655303 | 2.8918 | 0.004336 | -4.10568 |
| <i>NIPSNAP2</i> | 0.598622 | 5.270526 | 2.888791 | 0.004376 | -4.11401 |
| <i>HOXD13</i> | 0.588805 | 1.466423 | 2.86786 | 0.004661 | -4.17173 |
| <i>CCK</i> | 0.652594 | 1.690394 | 2.866888 | 0.004675 | -4.1744 |
| <i>COL9A3</i> | 0.667806 | 2.973101 | 2.843639 | 0.005012 | -4.23804 |
| <i>STMN2</i> | 0.902051 | 3.76966 | 2.834824 | 0.005146 | -4.26205 |
| <i>G0S2</i> | -0.59397 | 3.268179 | -2.82992 | 0.005222 | -4.27537 |
| <i>CCN1</i> | -0.61113 | 4.668827 | -2.81764 | 0.005417 | -4.30867 |
| <i>MOG</i> | 0.835184 | 3.028099 | 2.794379 | 0.005803 | -4.37134 |
| <i>SLC17A7</i> | 0.784951 | 2.156097 | 2.791682 | 0.005849 | -4.37858 |
| <i>CTHRC1</i> | -0.65763 | 2.800352 | -2.78378 | 0.005987 | -4.39973 |
| <i>HSPB8</i> | 0.707148 | 4.843307 | 2.782838 | 0.006004 | -4.40226 |
| <i>MOBP</i> | 0.652514 | 1.726796 | 2.701282 | 0.007613 | -4.61745 |
| <i>PDGFRA</i> | 0.771206 | 3.493521 | 2.697835 | 0.007689 | -4.62641 |
| <i>IGHM</i> | -0.63013 | 1.489931 | -2.63439 | 0.009214 | -4.78956 |
| <i>KCNIP1</i> | 0.604968 | 3.865291 | 2.594368 | 0.010311 | -4.89063 |
| <i>NNMT</i> | -0.7572 | 4.681137 | -2.58539 | 0.010573 | -4.9131 |
| <i>SYT1</i> | 0.612504 | 2.308088 | 2.534601 | 0.012169 | -5.03891 |
| <i>CPLX2</i> | 0.636339 | 2.084908 | 2.530966 | 0.012291 | -5.04782 |
| <i>CDK4</i> | 0.687212 | 5.55403 | 2.490573 | 0.013722 | -5.14609 |
| <i>SNCB</i> | 0.62523 | 2.911599 | 2.435242 | 0.015924 | -5.27831 |
| <i>FOXJ1</i> | -0.5904 | 3.38909 | -2.39657 | 0.017644 | -5.36908 |
| <i>CCL18</i> | -0.66335 | 1.099655 | -2.37264 | 0.018789 | -5.42455 |
| <i>SFRP2</i> | -0.63264 | 1.975212 | -2.36625 | 0.019106 | -5.4393 |
| <i>ERMN</i> | 0.590864 | 2.811222 | 2.34731 | 0.020071 | -5.48272 |
| <i>EGFR</i> | 0.808219 | 5.817501 | 2.328481 | 0.021074 | -5.52558 |

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| <i>RPS4Y1</i> | 0.991764 | 4.635949 | 2.252996 | 0.025549 | -5.69415 |
| <i>PI3</i> | -0.87022 | 3.115018 | -2.2421 | 0.02626 | -5.71805 |
| <i>SNAP25</i> | 0.602625 | 4.228252 | 2.219896 | 0.02776 | -5.76641 |
| <i>MBP</i> | 0.695173 | 3.995928 | 2.217261 | 0.027943 | -5.77212 |
| <i>GSTM1</i> | -0.65505 | 1.919099 | -2.19785 | 0.029323 | -5.81398 |
| <i>CDKN2A</i> | -0.70754 | 2.009132 | -2.14939 | 0.03303 | -5.91697 |
| <i>MAG</i> | 0.664643 | 3.353576 | 2.083034 | 0.038758 | -6.05447 |
| <i>IGHG1</i> | -0.67716 | 2.187585 | -2.03532 | 0.043385 | -6.1508 |
| <i>TMSB15A</i> | 0.661158 | 3.295828 | 2.034447 | 0.043474 | -6.15255 |