**Supplementary Table 5: DEGs during adipogenesis from GEO100748. (Adjust p-value <=0.05, |logFC|>1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GENE | logFC | | AveExpr | | t | | P.Value | | | adj.P.Val | | | B | | |
| AXUD1 | -4.33069 | | 10.52634 | | -56.1431 | | 1.86E-27 | | | 3.20E-23 | | | 49.87099 | | |
| ANGPTL4 | -4.6687 | | 8.143143 | | -36.1398 | | 8.18E-23 | | | 7.05E-19 | | | 41.37265 | | |
| TRIB1 | -2.93443 | | 10.16353 | | -33.7781 | | 4.17E-22 | | | 2.39E-18 | | | 39.94232 | | |
| BHLHB2 | -2.5658 | | 12.23128 | | -31.2581 | | 2.68E-21 | | | 1.16E-17 | | | 38.27212 | | |
| ID3 | -3.79137 | | 10.57164 | | -29.292 | | 1.27E-20 | | | 4.38E-17 | | | 36.85214 | | |
| JUNB | -4.14459 | | 8.182956 | | -28.827 | | 1.86E-20 | | | 5.36E-17 | | | 36.49983 | | |
| H3F3B | -2.73766 | | 8.991603 | | -28.4052 | | 2.65E-20 | | | 6.53E-17 | | | 36.17456 | | |
| CPA4 | 6.409645 | | 6.247161 | | 27.96781 | | 3.84E-20 | | | 8.27E-17 | | | 35.83127 | | |
| CBS | 2.832345 | | 8.691056 | | 27.00108 | | 8.87E-20 | | | 1.70E-16 | | | 35.05031 | | |
| PPP1R15A | -2.75575 | | 11.11101 | | -26.7598 | | 1.10E-19 | | | 1.89E-16 | | | 34.85041 | | |
| EFHD1 | 3.29162 | | 8.4696 | | 26.25782 | | 1.72E-19 | | | 2.70E-16 | | | 34.42808 | | |
| REC8L1 | -2.66205 | | 6.97136 | | -25.354 | | 3.95E-19 | | | 5.68E-16 | | | 33.6444 | | |
| ZC3H12A | -3.77579 | | 8.289965 | | -24.6937 | | 7.38E-19 | | | 9.79E-16 | | | 33.05223 | | |
| SLC25A25 | -2.26738 | | 8.816494 | | -24.2696 | | 1.11E-18 | | | 1.37E-15 | | | 32.66275 | | |
| CREG1 | 2.085429 | | 8.855997 | | 23.32775 | | 2.83E-18 | | | 3.25E-15 | | | 31.77084 | | |
| IER3 | -2.80699 | | 11.95235 | | -22.782 | | 4.93E-18 | | | 5.32E-15 | | | 31.23628 | | |
| SPOCK | 2.683831 | | 8.676689 | | 22.19182 | | 9.14E-18 | | | 8.71E-15 | | | 30.64292 | | |
| CHST7 | 1.851812 | | 8.674693 | | 22.17256 | | 9.32E-18 | | | 8.71E-15 | | | 30.62327 | | |
| CGNL1 | 2.431638 | | 6.496332 | | 22.0276 | | 1.09E-17 | | | 8.71E-15 | | | 30.47487 | | |
| KIAA0644 | -2.89539 | | 8.052624 | | -22.0116 | | 1.11E-17 | | | 8.71E-15 | | | 30.4584 | | |
| KLF9 | -2.74677 | | 10.21481 | | -21.9771 | | 1.15E-17 | | | 8.71E-15 | | | 30.42289 | | |
| LOC91461 | -2.92942 | | 5.283105 | | -21.9657 | | 1.16E-17 | | | 8.71E-15 | | | 30.41118 | | |
| CDC20 | -5.25645 | | 7.028418 | | -21.9648 | | 1.16E-17 | | | 8.71E-15 | | | 30.41023 | | |
| HEY1 | -6.26955 | | 7.936847 | | -21.4614 | | 2.00E-17 | | | 1.38E-14 | | | 29.8854 | | |
| HEYL | -7.73686 | | 6.194541 | | -26.8809 | | 1.69E-17 | | | 1.21E-14 | | | 29.82315 | | |
| PSAT1 | 3.666027 | | 8.636994 | | 21.13096 | | 2.87E-17 | | | 1.90E-14 | | | 29.53392 | | |
| CDKN2B | 2.581463 | | 7.326803 | | 21.0579 | | 3.11E-17 | | | 1.99E-14 | | | 29.45546 | | |
| TGFBR3 | -1.58345 | | 6.974537 | | -20.6507 | | 4.91E-17 | | | 3.02E-14 | | | 29.01303 | | |
| EPSTI1 | -1.7706 | | 8.005814 | | -20.2712 | | 7.55E-17 | | | 4.49E-14 | | | 28.59271 | | |
| WISP1 | -2.44144 | | 7.704887 | | -20.2036 | | 8.16E-17 | | | 4.69E-14 | | | 28.51694 | | |
| C21orf7 | 3.119921 | | 8.21063 | | 19.84885 | | 1.23E-16 | | | 6.85E-14 | | | 28.11549 | | |
| CHRNA1 | 1.998786 | | 11.33657 | | 19.77608 | | 1.34E-16 | | | 7.22E-14 | | | 28.03225 | | |
| RUNX3 | -2.40901 | | 7.791719 | | -19.593 | | 1.66E-16 | | | 8.69E-14 | | | 27.82147 | | |
| MX1 | -3.79185 | | 8.379208 | | -19.4669 | | 1.93E-16 | | | 9.79E-14 | | | 27.67517 | | |
| LOX | 2.401344 | | 10.03875 | | 19.4376 | | 2.00E-16 | | | 9.85E-14 | | | 27.64107 | | |
| AGA | 1.444788 | | 9.660763 | | 19.39261 | | 2.11E-16 | | | 1.01E-13 | | | 27.58857 | | |
| FOSB | -8.70573 | | 8.528851 | | -19.2421 | | 2.53E-16 | | | 1.18E-13 | | | 27.41203 | | |
| COLEC12 | -3.64122 | | 9.725096 | | -19.1877 | | 2.70E-16 | | | 1.22E-13 | | | 27.34792 | | |
| LOC492311 | 3.134496 | | 6.887202 | | 19.10074 | | 2.99E-16 | | | 1.32E-13 | | | 27.24506 | | |
| FNDC6 | 2.747692 | | 6.447203 | | 18.88674 | | 3.88E-16 | | | 1.67E-13 | | | 26.98991 | | |
| EFNA1 | -4.98252 | | 7.734458 | | -18.8544 | | 4.04E-16 | | | 1.70E-13 | | | 26.95108 | | |
| CLDN1 | 4.074812 | | 8.418738 | | 18.71076 | | 4.82E-16 | | | 1.98E-13 | | | 26.778 | | |
| COMP | 4.788706 | | 6.674163 | | 18.56352 | | 5.78E-16 | | | 2.31E-13 | | | 26.5992 | | |
| PER2 | -2.43406 | | 7.298148 | | -18.4315 | | 6.80E-16 | | | 2.67E-13 | | | 26.43766 | | |
| CDC2 | -4.28409 | | 5.994638 | | -18.4094 | | 6.99E-16 | | | 2.68E-13 | | | 26.41054 | | |
| KIAA0907 | 1.395038 | | 7.861214 | | 18.3279 | | 7.74E-16 | | | 2.90E-13 | | | 26.31022 | | |
| CCNL1 | -2.94293 | | 9.949116 | | -18.1488 | | 9.70E-16 | | | 3.56E-13 | | | 26.0882 | | |
| F2RL1 | -2.4081 | | 9.370574 | | -17.9507 | | 1.25E-15 | | | 4.48E-13 | | | 25.84012 | | |
| PLCB1 | | -1.59926 | | 7.336389 | | -17.7075 | | | 1.70E-15 | | | 5.99E-13 | | 25.53197 | |
| CLSTN2 | | 2.430331 | | 5.89997 | | 17.62056 | | | 1.91E-15 | | | 6.57E-13 | | 25.42088 | |
| CRELD2 | | -1.42889 | | 10.81494 | | -17.5623 | | | 2.06E-15 | | | 6.95E-13 | | 25.34611 | |
| TRAK2 | | 1.657031 | | 9.795959 | | 17.43732 | | | 2.42E-15 | | | 7.79E-13 | | 25.185 | |
| UCK2 | | 1.498175 | | 9.346854 | | 17.43681 | | | 2.42E-15 | | | 7.79E-13 | | 25.18434 | |
| IFIT1 | | -3.17979 | | 7.764866 | | -17.4312 | | | 2.44E-15 | | | 7.79E-13 | | 25.17705 | |
| NXT1 | | -1.54021 | | 9.630426 | | -17.3426 | | | 2.74E-15 | | | 8.59E-13 | | 25.06221 | |
| PPIC | | 1.042096 | | 9.986981 | | 17.32391 | | | 2.81E-15 | | | 8.64E-13 | | 25.03784 | |
| ASS1 | | 4.211855 | | 6.583709 | | 17.26072 | | | 3.05E-15 | | | 9.18E-13 | | 24.95546 | |
| NXF1 | | -1.66531 | | 9.106462 | | -17.2498 | | | 3.10E-15 | | | 9.18E-13 | | 24.94116 | |
| ASS | | 4.645631 | | 7.345543 | | 17.23886 | | | 3.14E-15 | | | 9.18E-13 | | 24.92689 | |
| ANKRD1 | | 4.758471 | | 6.699004 | | 17.15214 | | | 3.52E-15 | | | 1.01E-12 | | 24.81324 | |
| REXO2 | | 1.060259 | | 11.99252 | | 17.12991 | | | 3.63E-15 | | | 1.03E-12 | | 24.78401 | |
| IDS | | 1.524552 | | 10.36382 | | 16.86224 | | | 5.19E-15 | | | 1.44E-12 | | 24.42938 | |
| TIAM2 | | -2.24739 | | 7.907589 | | -16.791 | | | 5.71E-15 | | | 1.56E-12 | | 24.33413 | |
| CCND2 | | 2.447434 | | 10.99052 | | 16.7297 | | | 6.21E-15 | | | 1.67E-12 | | 24.25185 | |
| BRPF1 | | -1.16355 | | 9.832475 | | -16.6801 | | | 6.64E-15 | | | 1.76E-12 | | 24.18515 | |
| PTGDS | | 3.689503 | | 6.16949 | | 16.58645 | | | 7.54E-15 | | | 1.97E-12 | | 24.05853 | |
| RAMP1 | | 2.243159 | | 8.642519 | | 16.55028 | | | 7.92E-15 | | | 2.01E-12 | | 24.00947 | |
| EIF1 | | -1.06938 | | 12.00565 | | -16.5483 | | | 7.94E-15 | | | 2.01E-12 | | 24.00678 | |
| ID1 | | -3.88222 | | 9.434781 | | -16.5143 | | | 8.32E-15 | | | 2.08E-12 | | 23.96051 | |
| ING1 | | -2.61094 | | 6.663777 | | -16.4735 | | | 8.80E-15 | | | 2.17E-12 | | 23.90495 | |
| CDCA5 | | -3.45363 | | 7.109614 | | -16.4257 | | | 9.40E-15 | | | 2.28E-12 | | 23.83977 | |
| CHMP1B | | -1.37782 | | 10.00211 | | -16.4021 | | | 9.71E-15 | | | 2.32E-12 | | 23.80743 | |
| KLHL15 | | -3.63779 | | 4.280641 | | -16.9754 | | | 1.03E-14 | | | 2.44E-12 | | 23.77738 | |
| EDG2 | | -1.40396 | | 11.09848 | | -16.3013 | | | 1.12E-14 | | | 2.60E-12 | | 23.66914 | |
| EXTL1 | | 3.451297 | | 5.865904 | | 16.24043 | | | 1.21E-14 | | | 2.79E-12 | | 23.58519 | |
| ADM2 | | 1.999575 | | 7.358349 | | 16.07771 | | | 1.52E-14 | | | 3.45E-12 | | 23.35943 | |
| FSTL3 | | 2.613058 | | 7.293431 | | 16.03107 | | | 1.63E-14 | | | 3.64E-12 | | 23.29435 | |
| RGC32 | | 2.361437 | | 11.90024 | | 15.95277 | | | 1.81E-14 | | | 4.01E-12 | | 23.18468 | |
| PCSK1N | | 4.261487 | | 5.772045 | | 16.46269 | | | 2.01E-14 | | | 4.39E-12 | | 23.11479 | |
| PRR11 | | -3.51415 | | 4.390738 | | -15.8314 | | | 2.15E-14 | | | 4.61E-12 | | 23.01376 | |
| MCM7 | | -2.81944 | | 8.972086 | | -15.8272 | | | 2.17E-14 | | | 4.61E-12 | | 23.00784 | |
| PTTG1 | | -2.26037 | | 9.620277 | | -15.8139 | | | 2.21E-14 | | | 4.64E-12 | | 22.98905 | |
| CTH | | 2.017614 | | 6.317776 | | 15.78469 | | | 2.30E-14 | | | 4.78E-12 | | 22.94766 | |
| PRRX1 | | -1.94897 | | 10.14288 | | -15.6797 | | | 2.67E-14 | | | 5.49E-12 | | 22.79842 | |
| PHACTR4 | | -1.02912 | | 9.520437 | | -15.6351 | | | 2.85E-14 | | | 5.71E-12 | | 22.73488 | |
| KIAA0746 | | 2.734784 | | 8.016158 | | 15.60075 | | | 2.99E-14 | | | 5.93E-12 | | 22.68568 | |
| ATF3 | | -2.75023 | | 7.123611 | | -15.5647 | | | 3.15E-14 | | | 6.18E-12 | | 22.63395 | |
| CDKAL1 | | -2.62325 | | 6.469196 | | -15.5232 | | | 3.35E-14 | | | 6.48E-12 | | 22.57436 | |
| C14orf43 | | -1.90488 | | 8.072215 | | -15.4882 | | | 3.52E-14 | | | 6.74E-12 | | 22.52402 | |
| HBEGF | | 2.432594 | | 8.364051 | | 15.33408 | | | 4.40E-14 | | | 8.27E-12 | | 22.30097 | |
| TYMS | | -3.63193 | | 7.942741 | | -15.3323 | | | 4.41E-14 | | | 8.27E-12 | | 22.29845 | |
| PIM1 | | -4.03813 | | 7.186827 | | -15.3139 | | | 4.53E-14 | | | 8.40E-12 | | 22.27167 | |
| ZFP36 | | -4.05272 | | 9.533959 | | -15.2362 | | | 5.08E-14 | | | 9.31E-12 | | 22.15826 | |
| PRC1 | | -3.53122 | | 7.673521 | | -15.2078 | | | 5.29E-14 | | | 9.61E-12 | | 22.11678 | |
| HMFN0839 | | -2.21152 | | 6.32566 | | -15.1389 | | | 5.86E-14 | | | 1.05E-11 | | 22.01561 | |
| KBTBD2 | | -1.45511 | | 8.977788 | | -15.1213 | | | 6.01E-14 | | | 1.07E-11 | | 21.98977 | |
| OIP5 | | -3.87431 | | 5.733223 | | -15.094 | | | 6.26E-14 | | | 1.10E-11 | | 21.94963 | |
| HCAP-G | | -4.15775 | | 5.290923 | | -15.046 | | | 6.72E-14 | | | 1.17E-11 | | 21.87866 | |
| KCNK2 | | -3.11557 | | 6.389122 | | -15.0244 | | | 6.94E-14 | | | 1.18E-11 | | 21.84679 | |
| RKHD3 | | -2.38031 | | 6.959264 | | -15.024 | | | 6.94E-14 | | | 1.18E-11 | | 21.84625 | |
| GUSB | | -1.40748 | | 8.369189 | | -14.9533 | | | 7.71E-14 | | | 1.30E-11 | | 21.7413 | |
| MGLL | | 1.838848 | | 9.077331 | | 14.92225 | | | 8.07E-14 | | | 1.35E-11 | | 21.69518 | |
| OSBPL10 | | 1.349777 | | 7.83003 | | 14.88192 | | | 8.57E-14 | | | 1.42E-11 | | 21.63508 | |
| TNFRSF19 | | -1.65415 | | 11.01059 | | -14.8453 | | | 9.06E-14 | | | 1.48E-11 | | 21.58037 | |
| CD58 | | 1.536138 | | 6.373474 | | 14.83801 | | | 9.15E-14 | | | 1.48E-11 | | 21.56948 | |
| CCNB2 | | -4.25937 | | 6.726763 | | -14.8376 | | | 9.16E-14 | | | 1.48E-11 | | 21.5688 | |
| USMG5 | | 1.285577 | | 8.1669 | | 14.7703 | | | 1.01E-13 | | | 1.60E-11 | | 21.46799 | |
| ORF1-FL49 | | 2.464905 | | 7.566896 | | 14.74933 | | | 1.05E-13 | | | 1.64E-11 | | 21.43648 | |
| KIAA1754 | | -1.26983 | | 9.198441 | | -14.7281 | | | 1.08E-13 | | | 1.68E-11 | | 21.40448 | |
| NUFIP2 | | -1.17226 | | 8.527141 | | -14.716 | | | 1.10E-13 | | | 1.69E-11 | | 21.38626 | |
| RBP1 | | 3.415833 | | 6.244101 | | 14.69933 | | | 1.13E-13 | | | 1.72E-11 | | 21.3612 | |
| NFKBIZ | | -2.99464 | | 9.64095 | | -14.6936 | | | 1.14E-13 | | | 1.72E-11 | | 21.35254 | |
| MIDN | | -1.85521 | | 8.857652 | | -14.6805 | | | 1.16E-13 | | | 1.74E-11 | | 21.33271 | |
| MGC39900 | | -1.9386 | | 8.117189 | | -14.65 | | | 1.21E-13 | | | 1.80E-11 | | 21.28675 | |
| NUPR1 | | 2.288926 | | 8.301736 | | 14.58752 | | | 1.33E-13 | | | 1.93E-11 | | 21.19203 | |
| DUSP1 | | -2.36911 | | 9.667481 | | -14.5866 | | | 1.34E-13 | | | 1.93E-11 | | 21.19069 | |
| C16orf60 | | -1.62683 | | 7.643554 | | -14.5819 | | | 1.35E-13 | | | 1.93E-11 | | 21.18351 | |
| GADD45B | | -2.94631 | | 8.438895 | | -14.5819 | | | 1.35E-13 | | | 1.93E-11 | | 21.18346 | |
| CPE | | 4.145556 | | 4.264079 | | 16.84453 | | | 1.67E-13 | | | 2.34E-11 | | 21.10307 | |
| P8 | | 2.322682 | | 7.863349 | | 14.51411 | | | 1.49E-13 | | | 2.13E-11 | | 21.08038 | |
| DRD1IP | | 2.767368 | | 4.926968 | | 15.46968 | | | 1.69E-13 | | | 2.34E-11 | | 21.0375 | |
| HRASLS3 | | 1.949025 | | 8.519705 | | 14.44631 | | | 1.65E-13 | | | 2.34E-11 | | 20.97681 | |
| ZFP36L2 | | -2.11239 | | 7.498642 | | -14.4216 | | | 1.72E-13 | | | 2.37E-11 | | 20.93904 | |
| PLOD2 | | 1.367998 | | 12.3718 | | 14.36582 | | | 1.87E-13 | | | 2.56E-11 | | 20.85335 | |
| VGLL4 | | -1.35622 | | 9.337841 | | -14.3176 | | | 2.02E-13 | | | 2.74E-11 | | 20.77912 | |
| RN7SK | | -1.27868 | | 7.142639 | | -14.3103 | | | 2.04E-13 | | | 2.75E-11 | | 20.76782 | |
| C7orf10 | | 2.04399 | | 8.643767 | | 14.22863 | | | 2.31E-13 | | | 3.09E-11 | | 20.64152 | |
| PARP14 | | -1.11436 | | 7.373036 | | -14.1724 | | | 2.52E-13 | | | 3.35E-11 | | 20.55423 | |
| ELF4 | | -1.17989 | | 8.159192 | | -14.1435 | | | 2.64E-13 | | | 3.47E-11 | | 20.50921 | |
| UBE2D4 | | 1.211109 | | 8.272022 | | 14.13401 | | | 2.68E-13 | | | 3.50E-11 | | 20.49443 | |
| NPAS1 | | 3.032636 | | 5.653665 | | 14.10307 | | | 2.81E-13 | | | 3.64E-11 | | 20.44615 | |
| SMARCD1 | | -1.14189 | | 9.233873 | | -14.0949 | | | 2.85E-13 | | | 3.66E-11 | | 20.43331 | |
| NUSAP1 | | -5.2798 | | 6.199952 | | -14.0614 | | | 3.00E-13 | | | 3.83E-11 | | 20.38095 | |
| RALGDS | | -1.37124 | | 8.828368 | | -14.0092 | | | 3.25E-13 | | | 4.12E-11 | | 20.29915 | |
| POLE | | -2.40324 | | 5.115543 | | -13.9916 | | | 3.34E-13 | | | 4.21E-11 | | 20.27144 | |
| ANKRD46 | | 1.172395 | | 6.863359 | | 13.98483 | | | 3.38E-13 | | | 4.22E-11 | | 20.26083 | |
| EFNB2 | | -2.2417 | | 7.303792 | | -13.979 | | | 3.41E-13 | | | 4.23E-11 | | 20.25171 | |
| BCOR | | -2.18412 | | 7.255392 | | -13.9233 | | | 3.72E-13 | | | 4.58E-11 | | 20.16386 | |
| ASPM | | -5.27885 | | 5.126431 | | -13.9156 | | | 3.77E-13 | | | 4.61E-11 | | 20.15168 | |
| TUBA1 | | 4.341143 | | 5.458106 | | 13.88278 | | | 3.97E-13 | | | 4.82E-11 | | 20.09984 | |
| AURKB | | -5.58902 | | 4.781144 | | -14.7509 | | | 4.50E-13 | | | 5.42E-11 | | 20.05975 | |
| NAP1L3 | | 5.740414 | | 5.132435 | | 18.77217 | | | 4.57E-13 | | | 5.44E-11 | | 20.05876 | |
| SIX5 | | -1.23356 | | 8.426623 | | -13.7946 | | | 4.56E-13 | | | 5.44E-11 | | 19.95992 | |
| LOC649853 | | -1.24056 | | 10.97119 | | -13.7854 | | | 4.63E-13 | | | 5.46E-11 | | 19.94526 | |
| CEP55 | | -3.2651 | | 5.681114 | | -13.7781 | | | 4.68E-13 | | | 5.46E-11 | | 19.93367 | |
| ERN1 | | -1.75919 | | 7.166471 | | -13.7728 | | | 4.72E-13 | | | 5.46E-11 | | 19.92522 | |
| ENAH | | 1.676447 | | 7.598303 | | 13.77267 | | | 4.72E-13 | | | 5.46E-11 | | 19.92502 | |
| ARL9 | | -3.62696 | | 4.488716 | | -17.3581 | | | 6.29E-13 | | | 6.86E-11 | | 19.83324 | |
| FLJ40629 | | -7.43618 | | 4.532206 | | -16.4594 | | | 6.36E-13 | | | 6.90E-11 | | 19.81481 | |
| SERTAD1 | | -1.5072 | | 9.999871 | | -13.6996 | | | 5.31E-13 | | | 6.10E-11 | | 19.8084 | |
| CD83 | | -1.70342 | | 6.316926 | | -13.6792 | | | 5.48E-13 | | | 6.26E-11 | | 19.77564 | |
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| FN5 | | 1.045515 | | 6.00513 | | 4.227629 | | 0.000284 | | | 0.001715 | | | | -0.45181 |
| SLC7A10 | | -2.5911 | | 2.028184 | | -4.538 | | 0.000502 | | | 0.002798 | | | | -0.45552 |
| C13orf3 | | -2.20567 | | 3.527128 | | -4.2409 | | 0.000296 | | | 0.001774 | | | | -0.45639 |
| FLJ40235 | | 5.274571 | | -0.99027 | | 8.462385 | | 0.001752 | | | 0.008048 | | | | -0.45982 |
| ROBO2 | | 2.014037 | | 4.445947 | | 4.326901 | | 0.000638 | | | 0.003445 | | | | -0.46627 |
| S100A5 | | 1.189234 | | 3.910477 | | 4.245214 | | 0.000316 | | | 0.001881 | | | | -0.48506 |
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| MGC3101 | | 1.905062 | | 5.503466 | | 4.20745 | | 0.000299 | | | 0.001792 | | | | -0.50286 |
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| CASP14 | | 10.2691 | | -1.3188 | | 18.20347 | | 0.000885 | | | 0.004525 | | | | -0.5804 |
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| MCM6 | | -1.23774 | | 9.205422 | | -4.16841 | | 0.000331 | | | 0.001957 | | | | -0.60151 |
| DPF1 | | -1.68727 | | 2.95968 | | -4.17083 | | 0.000353 | | | 0.002066 | | | | -0.63072 |
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| PPIF | | -1.41378 | | 3.359729 | | -4.14568 | | 0.000351 | | | 0.002057 | | | | -0.65887 |
| DEF6 | | -1.84463 | | 3.457471 | | -4.1451 | | 0.000351 | | | 0.002059 | | | | -0.66035 |
| ARHGAP9 | | 2.761125 | | 3.33902 | | 4.231829 | | 0.000526 | | | 0.002917 | | | | -0.66889 |
| C14orf49 | | -1.74763 | | 1.824772 | | -4.20054 | | 0.000418 | | | 0.002392 | | | | -0.67114 |
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| PELI2 | | -2.37574 | | 3.251143 | | -4.16313 | | 0.000388 | | | 0.002238 | | | | -0.68573 |
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| GPR179 | | -1.68797 | | 2.254183 | | -4.15873 | | 0.000392 | | | 0.002258 | | | | -0.69647 |
| SCG3 | | 1.266472 | | 3.447773 | | 4.128473 | | 0.000366 | | | 0.002132 | | | | -0.70228 |
| NPTX1 | | -3.93934 | | 2.380735 | | -5.22984 | | 0.001484 | | | 0.006981 | | | | -0.70291 |
| RPL23AP13 | | 1.020214 | | 6.402591 | | 4.120357 | | 0.000374 | | | 0.002171 | | | | -0.72274 |
| HIST1H2AE | | -2.54401 | | 1.8271 | | -4.37455 | | 0.000683 | | | 0.003642 | | | | -0.74019 |
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| COL10A1 | | -1.80669 | | 7.008856 | | -4.1064 | | 0.000388 | | | 0.002238 | | | | -0.7579 |
| ANXA10 | | 2.136084 | | 2.230001 | | 4.168972 | | 0.000493 | | | 0.002758 | | | | -0.758 |
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| WSB2 | | 1.149695 | | 7.412323 | | 4.102566 | | 0.000391 | | | 0.002257 | | | | -0.76755 |
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| MT1G | | 1.575987 | | 6.026823 | | 4.081334 | | 0.000413 | | | 0.002368 | | | | -0.82099 |
| DCLRE1B | | -1.53556 | | 3.064166 | | -4.09334 | | 0.000429 | | | 0.002447 | | | | -0.82301 |
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| TNFSF13B | | 1.288094 | | 3.70347 | | 4.090953 | | 0.000431 | | | 0.002459 | | | | -0.82569 |
| ProSAPiP1 | | 2.040246 | | 5.46165 | | 4.074354 | | 0.000421 | | | 0.002405 | | | | -0.83855 |
| PLAC1 | | 1.173082 | | 2.706719 | | 4.114796 | | 0.000472 | | | 0.002655 | | | | -0.84187 |
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| PRAMEF6 | | -5.53472 | | -0.4057 | | -6.96352 | | 0.003396 | | | 0.014152 | | | | -1.0076 |
| RENBP | | 2.546815 | | 4.557718 | | 4.046531 | | 0.000602 | | | 0.003276 | | | | -1.01539 |
| PYCR1 | | 1.324162 | | 3.07 | | 4.071563 | | 0.000618 | | | 0.003351 | | | | -1.02025 |
| CD7 | | -2.74807 | | 3.177654 | | -4.1033 | | 0.000778 | | | 0.004057 | | | | -1.02048 |
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| SYNPO2L | | 1.929228 | | 3.324533 | | 4.041629 | | 0.000663 | | | 0.003556 | | | | -1.05047 |
| MGC33486 | | 2.453478 | | 3.649856 | | 4.060555 | | 0.000695 | | | 0.003698 | | | | -1.06166 |
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| CABP1 | | -5.04743 | | -1.09729 | | -10.193 | | 0.003847 | | | 0.015704 | | | | -1.17211 |
| ADORA2A | | -2.01127 | | 3.120949 | | -3.95055 | | 0.000613 | | | 0.00333 | | | | -1.17572 |
| PGA3 | | 4.510708 | | 0.151753 | | 10.15332 | | 0.003885 | | | 0.015829 | | | | -1.17775 |
| PROC | | -4.45809 | | 0.156266 | | -5.11361 | | 0.002739 | | | 0.011796 | | | | -1.17775 |
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| TMCO5 | | 1.703671 | | 4.164449 | | 3.878539 | | 0.000896 | | | 0.004573 | | | | -1.43398 |
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| OR8D4 | | 5.220343 | | -0.54438 | | 8.090695 | | 0.006856 | | | 0.025634 | | | | -1.54732 |
| BIRC5 | | -3.32672 | | 3.485713 | | -3.85922 | | 0.002095 | | | 0.009382 | | | | -1.56212 |
| APOL3 | | -1.47648 | | 4.430295 | | -3.79251 | | 0.00091 | | | 0.004637 | | | | -1.56314 |
| CYP27B1 | | -2.28684 | | 2.744042 | | -3.80874 | | 0.000988 | | | 0.004975 | | | | -1.56689 |
| ARHGAP28 | | 3.379862 | | 0.845689 | | 3.974651 | | 0.002357 | | | 0.010366 | | | | -1.57183 |
| CDH24 | | -1.47271 | | 3.510309 | | -3.77521 | | 0.000901 | | | 0.004594 | | | | -1.58487 |
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| HORMAD2 | | 3.68396 | | 1.12735 | | 4.989381 | | 0.005319 | | | 0.020652 | | | | -1.5933 |
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| ICAM5 | | 2.771177 | | 3.983029 | | 3.779441 | | 0.000997 | | | 0.005015 | | | | -1.60854 |
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| CHAC1 | | 1.351607 | | 5.11196 | | 3.740932 | | 0.000982 | | | 0.004951 | | | | -1.66952 |
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| SPANX-N3 | | 3.183137 | | 0.756247 | | 4.865816 | | 0.005872 | | | 0.022413 | | | | -1.69292 |
| GALNTL4 | | 2.598133 | | 4.222787 | | 3.761665 | | 0.001366 | | | 0.006514 | | | | -1.69668 |
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| CYP2R1 | | 1.497902 | | 2.924802 | | 3.732289 | | 0.001266 | | | 0.00612 | | | | -1.74778 |
| TF | | -1.93045 | | 1.485781 | | -3.97159 | | 0.002369 | | | 0.010406 | | | | -1.75445 |
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| CYP11B2 | | 1.957666 | | 1.944974 | | 2.765915 | | 0.011114 | | | 0.038537 | | | | -3.9407 |
| ZNF23 | | 1.01319 | | 4.865479 | | 2.770614 | | 0.010498 | | | 0.036764 | | | | -3.94511 |
| AGPAT5 | | -1.14278 | | 5.08823 | | -2.76658 | | 0.010597 | | | 0.037041 | | | | -3.95393 |
| SMCR7 | | 1.043574 | | 2.181705 | | 2.749746 | | 0.012153 | | | 0.041487 | | | | -3.96038 |
| ZNF181 | | 1.563439 | | 2.657065 | | 2.756368 | | 0.011093 | | | 0.038487 | | | | -3.96614 |
| GADD45GIP1 | | 1.407288 | | 3.896635 | | 2.745702 | | 0.011934 | | | 0.0409 | | | | -3.97337 |
| PIF1 | | -1.09572 | | 3.88292 | | -2.75485 | | 0.01089 | | | 0.037913 | | | | -3.97952 |
| GPR30 | | -1.29527 | | 6.515776 | | -2.75365 | | 0.010921 | | | 0.038011 | | | | -3.98215 |
| TNP1 | | -1.6489 | | 2.262656 | | -2.71684 | | 0.014353 | | | 0.047649 | | | | -3.98273 |
| EID3 | | -1.31707 | | 3.890332 | | -2.73911 | | 0.011295 | | | 0.039047 | | | | -4.01378 |
| PLEKHH2 | | -1.50225 | | 3.246837 | | -2.70843 | | 0.013698 | | | 0.045793 | | | | -4.02001 |
| UCK1 | | -1.05569 | | 3.919039 | | -2.73249 | | 0.01147 | | | 0.039558 | | | | -4.02816 |
| FLJ13984 | | 1.067729 | | 2.764984 | | 2.725958 | | 0.011895 | | | 0.040801 | | | | -4.03169 |
| SBK1 | | -2.94104 | | 3.199988 | | -2.72758 | | 0.011601 | | | 0.03992 | | | | -4.03882 |
| CCDC117 | | 1.434987 | | 2.162545 | | 2.694031 | | 0.015061 | | | 0.049559 | | | | -4.05262 |
| C20orf107 | | -1.10689 | | 3.374258 | | -2.7148 | | 0.012203 | | | 0.041633 | | | | -4.05902 |
| OR4F4 | | 1.287306 | | 2.47672 | | 2.701373 | | 0.013525 | | | 0.045309 | | | | -4.06134 |
| CEP170 | | -1.01654 | | 4.494784 | | -2.70799 | | 0.012138 | | | 0.041462 | | | | -4.08121 |
| BEX2 | | 1.273276 | | 3.583532 | | 2.699799 | | 0.012628 | | | 0.042813 | | | | -4.08779 |
| FOXO1A | | 1.033412 | | 3.42695 | | 2.683845 | | 0.014057 | | | 0.046793 | | | | -4.08889 |
| FRS2 | | -1.42957 | | 2.568391 | | -2.68785 | | 0.013934 | | | 0.046454 | | | | -4.08943 |
| RCCD1 | | -1.08306 | | 3.748388 | | -2.70256 | | 0.012291 | | | 0.041872 | | | | -4.09294 |
| AOC2 | | 1.99773 | | 2.13701 | | 2.682903 | | 0.013733 | | | 0.045881 | | | | -4.09336 |
| ATP12A | | 1.272613 | | 2.417617 | | 2.691729 | | 0.012863 | | | 0.043446 | | | | -4.1084 |
| FLJ34503 | | 1.785299 | | 1.961994 | | 2.677719 | | 0.014248 | | | 0.047345 | | | | -4.11041 |
| XDH | | 1.088303 | | 3.713593 | | 2.691596 | | 0.012606 | | | 0.042762 | | | | -4.11657 |
| CLIC5 | | -1.21481 | | 2.83242 | | -2.68158 | | 0.013164 | | | 0.044263 | | | | -4.13006 |
| C2orf3 | | 1.207205 | | 3.818281 | | 2.671474 | | 0.014087 | | | 0.046873 | | | | -4.13347 |
| JMJD2A | | -1.14545 | | 3.346298 | | -2.67659 | | 0.013048 | | | 0.043961 | | | | -4.14883 |
| CCDC104 | | 1.264863 | | 4.183714 | | 2.667502 | | 0.013324 | | | 0.044735 | | | | -4.16832 |
| SLC6A7 | | 1.538707 | | 3.22234 | | 2.658519 | | 0.01417 | | | 0.047123 | | | | -4.1689 |
| THTPA | | 1.150341 | | 2.90755 | | 2.643158 | | 0.015001 | | | 0.049419 | | | | -4.19246 |
| HIST1H3H | | -1.06225 | | 4.349024 | | -2.64635 | | 0.013985 | | | 0.046583 | | | | -4.21355 |
| MGC20470 | | -1.79478 | | 2.425236 | | -2.63094 | | 0.015074 | | | 0.049593 | | | | -4.22674 |
| SART1 | | -1.14445 | | 2.920691 | | -2.62854 | | 0.015155 | | | 0.049832 | | | | -4.23177 |
| ADI1 | | 1.182835 | | 5.92496 | | 2.629953 | | 0.014519 | | | 0.048089 | | | | -4.24846 |
| STRN | | -1.00518 | | 3.03259 | | -2.61452 | | 0.015039 | | | 0.049516 | | | | -4.28121 |