

Table S3: All genes significantly downregulated by ibuprofen in interleukin 1 β -treated chondrocytes

| Gene | Name | Mean (IL1) | Mean (IL1+ibu) | FC | adj. p |
|-----------|---|------------|----------------|--------------|----------|
| IL23A | interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:15488] | 15.2 | 4.7 | -3.24 | 0 |
| HAS1 | hyaluronan synthase 1 [Source:HGNC Symbol;Acc:HGNC:4818] | 0.8 | 0.3 | -2.77 | 0 |
| IGFBP4 | insulin like growth factor binding protein 4 [Source:HGNC Symbol;Acc:HGNC:5473] | 213.8 | 79.7 | -2.73 | 0 |
| IL6 | interleukin 6 [Source:HGNC Symbol;Acc:HGNC:6018] | 958.4 | 403.8 | -2.49 | 0 |
| PDE3A | phosphodiesterase 3A [Source:HGNC Symbol;Acc:HGNC:8778] | 0.9 | 0.3 | -2.48 | 0.00013 |
| STAT4 | signal transducer and activator of transcription 4 [Source:HGNC Symbol;Acc:HGNC:11365] | 2.5 | 1.0 | -2.36 | 0 |
| LINC00968 | long intergenic non-protein coding RNA 968 [Source:HGNC Symbol;Acc:HGNC:48727] | 0.7 | 0.3 | -2.22 | 0.00045 |
| PCSK1 | proprotein convertase subtilisin/kexin type 1 [Source:HGNC Symbol;Acc:HGNC:8743] | 7.2 | 3.2 | -2.19 | 0 |
| ADAMTS6 | ADAM metallopeptidase with thrombospondin type 1 motif 6 [Source:HGNC Symbol;Acc:HGNC:222] | 10.5 | 4.9 | -2.18 | 0 |
| HAL | histidine ammonia-lyase [Source:HGNC Symbol;Acc:HGNC:4806] | 1.7 | 0.8 | -2.12 | 0 |
| DNAH17 | dynein axonemal heavy chain 17 [Source:HGNC Symbol;Acc:HGNC:2946] | 1.0 | 0.5 | -2.06 | 2.00E-06 |
| CSF3 | colony stimulating factor 3 [Source:HGNC Symbol;Acc:HGNC:2438] | 19.8 | 9.9 | -2.02 | 0 |
| AREG | amphiregulin [Source:HGNC Symbol;Acc:HGNC:651] | 2.3 | 1.2 | -2.01 | 0 |
| CA12 | carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:1371] | 20.9 | 10.5 | -2.00 | 0 |
| INSC | inscuteable homolog (Drosophila) [Source:HGNC Symbol;Acc:HGNC:33116] | 0.6 | 0.3 | -1.98 | 0.0011 |
| KCNE5 | potassium voltage-gated channel subfamily E regulatory subunit 5 | 1.3 | 0.6 | -1.94 | 6.00E-06 |
| LDB2 | LIM domain binding 2 [Source:HGNC Symbol;Acc:HGNC:6533] | 0.5 | 0.3 | -1.92 | 0.0051 |
| LINC00707 | long intergenic non-protein coding RNA 707 [Source:HGNC Symbol;Acc:HGNC:44691] | 5.6 | 2.9 | -1.91 | 0 |
| FOXCUT | FOXC1 upstream transcript (non-protein coding) [Source:HGNC Symbol;Acc:HGNC:50650] | 0.4 | 0.2 | -1.81 | 0.043 |
| DOK6 | docking protein 6 [Source:HGNC Symbol;Acc:HGNC:28301] | 0.9 | 0.5 | -1.80 | 0.00060 |
| DAW1 | dynein assembly factor with WD repeats 1 [Source:HGNC Symbol;Acc:HGNC:26383] | 0.9 | 0.5 | -1.78 | 0.00057 |
| TMEM71 | transmembrane protein 71 [Source:HGNC Symbol;Acc:HGNC:26572] | 1.8 | 1.0 | -1.77 | 2.00E-06 |
| MAMSTR | MEF2 activating motif and SAP domain containing transcriptional regulator | 0.5 | 0.3 | -1.72 | 0.022 |
| KNDC1 | kinase non-catalytic C-lobe domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29374] | 0.8 | 0.5 | -1.70 | 0.0028 |
| EFHC2 | EF-hand domain containing 2 [Source:HGNC Symbol;Acc:HGNC:26233] | 0.8 | 0.5 | -1.69 | 0.0047 |
| MEX3A | mex-3 RNA binding family member A [Source:HGNC Symbol;Acc:HGNC:33482] | 0.9 | 0.5 | -1.69 | 0.0019 |
| DPY19L2P1 | DPY19L2 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:22305] | 0.6 | 0.4 | -1.65 | 0.033 |
| TGFBI | transforming growth factor beta induced [Source:HGNC Symbol;Acc:HGNC:11771] | 127.8 | 80.7 | -1.64 | 0 |
| C3AR1 | complement C3a receptor 1 [Source:HGNC Symbol;Acc:HGNC:1319] | 3.5 | 2.2 | -1.63 | 0 |
| EFEMP1 | EGF containing fibulin like extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3218] | 72.6 | 45.4 | -1.63 | 0 |
| NAMPT | nicotinamide phosphoribosyltransferase [Source:HGNC Symbol;Acc:HGNC:30092] | 596.1 | 368.8 | -1.60 | 0 |

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|------------|---|-------|-------|--------------|----------|
| FOXF1 | forkhead box F1 [Source:HGNC Symbol;Acc:HGNC:3809] | 1.2 | 0.8 | -1.60 | 0.00093 |
| AVPI1 | arginine vasopressin induced 1 [Source:HGNC Symbol;Acc:HGNC:30898] | 39.7 | 24.8 | -1.60 | 0 |
| SEMA3A | semaphorin 3A [Source:HGNC Symbol;Acc:HGNC:10723] | 98.0 | 61.6 | -1.59 | 0 |
| STC1 | stanniocalcin 1 [Source:HGNC Symbol;Acc:HGNC:11373] | 2.0 | 1.3 | -1.59 | 0.0030 |
| TSKU | tsukushi, small leucine rich proteoglycan [Source:HGNC Symbol;Acc:HGNC:28850] | 14.9 | 9.4 | -1.58 | 0 |
| SMOC1 | SPARC related modular calcium binding 1 [Source:HGNC Symbol;Acc:HGNC:20318] | 199.0 | 126.1 | -1.57 | 0 |
| ARAP2 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 | 12.5 | 8.0 | -1.56 | 0 |
| NAMPTP1 | nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633] | 26.1 | 16.3 | -1.56 | 0 |
| BEND5 | BEN domain containing 5 [Source:HGNC Symbol;Acc:HGNC:25668] | 0.9 | 0.6 | -1.54 | 0.017 |
| EPB41L3 | erythrocyte membrane protein band 4.1 like 3 [Source:HGNC Symbol;Acc:HGNC:3380] | 34.6 | 22.5 | -1.53 | 0 |
| EPB41L4B | erythrocyte membrane protein band 4.1 like 4B [Source:HGNC Symbol;Acc:HGNC:19818] | 2.8 | 1.8 | -1.53 | 0.00011 |
| KIAA1217 | KIAA1217 [Source:HGNC Symbol;Acc:HGNC:25428] | 19.0 | 12.6 | -1.52 | 0 |
| CFAP58-AS1 | CFAP58 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:45243] | 2.0 | 1.5 | -1.52 | 1.20E-05 |
| ACSL4 | acyl-CoA synthetase long-chain family member 4 [Source:HGNC Symbol;Acc:HGNC:3571] | 428.1 | 280.7 | -1.52 | 0 |
| NR4A2 | nuclear receptor subfamily 4 group A member 2 [Source:HGNC Symbol;Acc:HGNC:7981] | 19.8 | 13.1 | -1.51 | 0 |
| PID1 | phosphotyrosine interaction domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26084] | 285.1 | 190.6 | -1.51 | 0 |
| RSPO3 | R-spondin 3 [Source:HGNC Symbol;Acc:HGNC:20866] | 82.9 | 53.8 | -1.50 | 0 |
| KRT17 | keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427] | 14.4 | 9.7 | -1.50 | 0 |
| IL1B | interleukin 1 beta [Source:HGNC Symbol;Acc:HGNC:5992] | 572.6 | 394.9 | -1.50 | 0 |
| IGLV5-52 | immunoglobulin lambda variable 5-52 [Source:HGNC Symbol;Acc:HGNC:5926] | 0.9 | 0.6 | -1.49 | 0.031 |
| CH25H | cholesterol 25-hydroxylase [Source:HGNC Symbol;Acc:HGNC:1907] | 2.3 | 1.6 | -1.49 | 0.0054 |
| PITPNC1 | phosphatidylinositol transfer protein, cytoplasmic 1 [Source:HGNC Symbol;Acc:HGNC:21045] | 26.5 | 17.8 | -1.49 | 0 |
| LDHAP7 | lactate dehydrogenase A pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:23144] | 1.1 | 0.7 | -1.48 | 0.014 |
| ABHD17C | abhydrolase domain containing 17C [Source:HGNC Symbol;Acc:HGNC:26925] | 7.7 | 5.2 | -1.48 | 0 |
| RGL3 | ral guanine nucleotide dissociation stimulator like 3 [Source:HGNC Symbol;Acc:HGNC:30282] | 3.3 | 2.2 | -1.48 | 4.60E-05 |
| FBXO16 | F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618] | 1.1 | 0.7 | -1.47 | 0.018 |
| NNMT | nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861] | 141.3 | 95.6 | -1.47 | 0 |
| SCO2 | SCO2, cytochrome c oxidase assembly protein [Source:HGNC Symbol;Acc:HGNC:10604] | 2.2 | 1.5 | -1.46 | 0.00016 |
| NDP | NDP, norrin cystine knot growth factor [Source:HGNC Symbol;Acc:HGNC:7678] | 49.1 | 34.1 | -1.46 | 0 |
| DISC1 | disrupted in schizophrenia 1 [Source:HGNC Symbol;Acc:HGNC:2888] | 4.1 | 2.8 | -1.46 | 8.20E-05 |
| AQP9 | aquaporin 9 [Source:HGNC Symbol;Acc:HGNC:643] | 2.1 | 1.4 | -1.45 | 0.031 |
| NEGR1 | neuronal growth regulator 1 [Source:HGNC Symbol;Acc:HGNC:17302] | 27.2 | 18.4 | -1.45 | 0 |
| MMP13 | matrix metalloproteinase 13 [Source:HGNC Symbol;Acc:HGNC:7159] | 407.7 | 282.6 | -1.45 | 0 |

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|---------|---|-------|-------|--------------|----------|
| SLC19A3 | solute carrier family 19 member 3 [Source:HGNC Symbol;Acc:HGNC:16266] | 17.6 | 12.3 | -1.45 | 0 |
| SLAMF9 | SLAM family member 9 [Source:HGNC Symbol;Acc:HGNC:18430] | 1.8 | 1.2 | -1.45 | 0.014 |
| CD1D | CD1d molecule [Source:HGNC Symbol;Acc:HGNC:1637] | 1.6 | 1.1 | -1.44 | 0.0027 |
| ALPK2 | alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565] | 1.2 | 0.8 | -1.44 | 0.023 |
| SGIP1 | SH3 domain GRB2 like endophilin interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:25412] | 2.2 | 1.5 | -1.44 | 0.00067 |
| COQ2 | coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223] | 6.2 | 4.3 | -1.44 | 0 |
| PALMD | palmelphin [Source:HGNC Symbol;Acc:HGNC:15846] | 42.7 | 29.8 | -1.43 | 0 |
| GBP1P1 | guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561] | 1.1 | 0.8 | -1.43 | 0.024 |
| MBP | myelin basic protein [Source:HGNC Symbol;Acc:HGNC:6925] | 18.2 | 12.7 | -1.43 | 0 |
| GFRA2 | GNF family receptor alpha 2 [Source:HGNC Symbol;Acc:HGNC:4244] | 1.5 | 1.1 | -1.43 | 0.0094 |
| ARID5B | AT-rich interaction domain 5B [Source:HGNC Symbol;Acc:HGNC:17362] | 31.2 | 21.7 | -1.43 | 0 |
| SHISA3 | shisa family member 3 [Source:HGNC Symbol;Acc:HGNC:25159] | 2.2 | 1.5 | -1.42 | 0.0051 |
| GPR89A | G protein-coupled receptor 89A [Source:HGNC Symbol;Acc:HGNC:31984] | 1.8 | 1.3 | -1.41 | 0.0024 |
| HOXA4 | homeobox A4 [Source:HGNC Symbol;Acc:HGNC:5105] | 1.3 | 0.9 | -1.41 | 0.040 |
| ABCA8 | ATP binding cassette subfamily A member 8 [Source:HGNC Symbol;Acc:HGNC:38] | 1.2 | 0.9 | -1.41 | 0.023 |
| CD38 | CD38 molecule [Source:HGNC Symbol;Acc:HGNC:1667] | 3.8 | 2.7 | -1.41 | 1.20E-05 |
| UBE2QL1 | ubiquitin conjugating enzyme E2 Q family like 1 [Source:HGNC Symbol;Acc:HGNC:37269] | 5.3 | 3.8 | -1.41 | 0.00034 |
| ALOX12 | arachidonate 12-lipoxygenase, 12S type [Source:HGNC Symbol;Acc:HGNC:429] | 1.3 | 0.9 | -1.40 | 0.022 |
| GJA1 | gap junction protein alpha 1 [Source:HGNC Symbol;Acc:HGNC:4274] | 115.2 | 82.4 | -1.39 | 0 |
| AKR1C1 | aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384] | 171.3 | 121.8 | -1.38 | 0 |
| TREM1 | triggering receptor expressed on myeloid cells 1 [Source:HGNC Symbol;Acc:HGNC:17760] | 45.2 | 32.8 | -1.38 | 0 |
| PDE4D | phosphodiesterase 4D [Source:HGNC Symbol;Acc:HGNC:8783] | 25.4 | 18.2 | -1.38 | 0 |
| LRRK2 | leucine rich repeat kinase 2 [Source:HGNC Symbol;Acc:HGNC:18618] | 2.3 | 1.6 | -1.38 | 0.012 |
| ID1 | inhibitor of DNA binding 1, HLH protein [Source:HGNC Symbol;Acc:HGNC:5360] | 26.8 | 19.3 | -1.37 | 0 |
| SFRP2 | secreted frizzled related protein 2 [Source:HGNC Symbol;Acc:HGNC:10777] | 1.6 | 1.1 | -1.37 | 0.040 |
| PDE4B | phosphodiesterase 4B [Source:HGNC Symbol;Acc:HGNC:8781] | 419.5 | 307.7 | -1.37 | 0 |
| LRRN3 | leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HGNC:17200] | 8.9 | 6.5 | -1.36 | 0 |
| COL7A1 | collagen type VII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2214] | 41.0 | 30.2 | -1.36 | 0 |
| GPRC5A | G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836] | 96.5 | 71.9 | -1.36 | 0 |
| DNER | delta/notch like EGF repeat containing [Source:HGNC Symbol;Acc:HGNC:24456] | 139.0 | 104.5 | -1.35 | 0 |
| LURAP1L | leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452] | 15.3 | 11.4 | -1.35 | 0 |
| PRR5L | proline rich 5 like [Source:HGNC Symbol;Acc:HGNC:25878] | 1.9 | 1.4 | -1.35 | 0.012 |
| COL3A1 | collagen type III alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2201] | 556.0 | 414.0 | -1.35 | 0 |

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| CXCL6 | C-X-C motif chemokine ligand 6 [Source:HGNC Symbol;Acc:HGNC:10643] | 431.5 | 319.5 | -1.35 | 0 |
| EVI2B | ecotropic viral integration site 2B [Source:HGNC Symbol;Acc:HGNC:3500] | 2.5 | 1.8 | -1.34 | 0.022 |
| CLUHP3 | clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447] | 2.7 | 2.0 | -1.34 | 0.034 |
| SH3RF2 | SH3 domain containing ring finger 2 [Source:HGNC Symbol;Acc:HGNC:26299] | 6.0 | 4.4 | -1.34 | 8.90E-05 |
| LRR61 | leucine rich repeat containing 61 [Source:HGNC Symbol;Acc:HGNC:21704] | 3.1 | 2.3 | -1.34 | 0.015 |
| ITPR1 | inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370] | 228.0 | 169.6 | -1.34 | 0 |
| AMDHD1 | amidohydrolase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28577] | 1.4 | 1.0 | -1.33 | 0.049 |
| FCER1G | Fc fragment of IgE receptor Ig [Source:HGNC Symbol;Acc:HGNC:3611] | 2.6 | 2.0 | -1.33 | 0.0047 |
| LAMA1 | laminin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6481] | 12.6 | 9.3 | -1.33 | 0.0017 |
| FOXC1 | forkhead box C1 [Source:HGNC Symbol;Acc:HGNC:3800] | 289.7 | 216.7 | -1.33 | 0 |
| BDKRB2 | bradykinin receptor B2 [Source:HGNC Symbol;Acc:HGNC:1030] | 80.9 | 60.9 | -1.33 | 0 |
| DUSP1 | dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064] | 158.6 | 118.2 | -1.33 | 0 |
| PRKAR2B | protein kinase cAMP-dependent type II regulatory subunit beta [Source:HGNC Symbol;Acc:HGNC:9392] | 18.3 | 13.7 | -1.33 | 8.70E-05 |
| MMP2 | matrix metalloproteinase 2 [Source:HGNC Symbol;Acc:HGNC:7166] | 70.5 | 54.6 | -1.33 | 0 |
| KIAA1958 | KIAA1958 [Source:HGNC Symbol;Acc:HGNC:23427] | 2.5 | 1.9 | -1.32 | 0.010 |
| CP | ceruloplasmin [Source:HGNC Symbol;Acc:HGNC:2295] | 234.5 | 178.1 | -1.32 | 0 |
| STON1 | stonin 1 [Source:HGNC Symbol;Acc:HGNC:17003] | 6.9 | 5.1 | -1.32 | 0.0045 |
| IGF1 | insulin like growth factor 1 [Source:HGNC Symbol;Acc:HGNC:5464] | 7.6 | 5.7 | -1.32 | 1.00E-05 |
| ADAMTSL1 | ADAMTS like 1 [Source:HGNC Symbol;Acc:HGNC:14632] | 4.0 | 3.1 | -1.32 | 0.013 |
| RAB20 | RAB20, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:18260] | 4.9 | 3.7 | -1.31 | 0.00058 |
| PTGES | prostaglandin E synthase [Source:HGNC Symbol;Acc:HGNC:9599] | 100.9 | 76.6 | -1.31 | 0 |
| S100P | S100 calcium binding protein P [Source:HGNC Symbol;Acc:HGNC:10504] | 3.3 | 2.5 | -1.31 | 0.0039 |
| CPM | carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311] | 15.8 | 12.1 | -1.31 | 0 |
| VNN3 | vanin 3 [Source:HGNC Symbol;Acc:HGNC:16431] | 10.6 | 8.3 | -1.30 | 0.00086 |
| FBLN5 | fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602] | 4.8 | 3.7 | -1.30 | 0.0062 |
| ADAMTS5 | ADAM metalloproteinase with thrombospondin type 1 motif 5 [Source:HGNC Symbol;Acc:HGNC:221] | 21.7 | 16.3 | -1.30 | 2.20E-05 |
| ARID3A | AT-rich interaction domain 3A [Source:HGNC Symbol;Acc:HGNC:3031] | 4.8 | 3.8 | -1.30 | 0.0025 |
| PRELID2 | PRELI domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28306] | 2.8 | 2.1 | -1.30 | 0.018 |
| SPSB4 | splA/ryanodine receptor domain and SOCS box containing 4 [Source:HGNC Symbol;Acc:HGNC:30630] | 11.6 | 8.9 | -1.30 | 0 |
| MAOB | monoamine oxidase B [Source:HGNC Symbol;Acc:HGNC:6834] | 156.0 | 120.6 | -1.30 | 0 |
| PFKFB4 | 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4 [Source:HGNC Symbol;Acc:HGNC:8875] | 10.9 | 8.4 | -1.30 | 0 |
| TREML3P | triggering receptor expressed on myeloid cells like 3, pseudogene | 2.8 | 2.2 | -1.30 | 0.012 |
| ADPRHL1 | ADP-ribosylhydrolase like 1 [Source:HGNC Symbol;Acc:HGNC:21303] | 9.3 | 7.2 | -1.29 | 1.20E-05 |

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| GNG11 | G protein subunit gamma 11 [Source:HGNC Symbol;Acc:HGNC:4403] | 21.7 | 16.7 | -1.29 | 0 |
| ODF3B | outer dense fiber of sperm tails 3B [Source:HGNC Symbol;Acc:HGNC:34388] | 15.4 | 12.1 | -1.29 | 2.80E-05 |
| GNA14 | G protein subunit alpha 14 [Source:HGNC Symbol;Acc:HGNC:4382] | 2.0 | 1.5 | -1.29 | 0.045 |
| FAM13A | family with sequence similarity 13 member A [Source:HGNC Symbol;Acc:HGNC:19367] | 25.7 | 20.0 | -1.29 | 5.00E-06 |
| C1R | complement C1r [Source:HGNC Symbol;Acc:HGNC:1246] | 106.4 | 82.5 | -1.29 | 0 |
| MEIS1 | Meis homeobox 1 [Source:HGNC Symbol;Acc:HGNC:7000] | 5.9 | 4.5 | -1.29 | 0.00015 |
| CMBL | carboxymethylenebutenolidase homolog [Source:HGNC Symbol;Acc:HGNC:25090] | 2.8 | 2.2 | -1.29 | 0.0062 |
| DEPDC7 | DEP domain containing 7 [Source:HGNC Symbol;Acc:HGNC:29899] | 4.9 | 3.8 | -1.28 | 0.00069 |
| HOXA5 | homeobox A5 [Source:HGNC Symbol;Acc:HGNC:5106] | 4.7 | 3.7 | -1.28 | 0.00052 |
| MT1F | metallothionein 1F [Source:HGNC Symbol;Acc:HGNC:7398] | 182.7 | 143.4 | -1.28 | 3.40E-05 |
| ABCA1 | ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29] | 3.9 | 3.1 | -1.28 | 0.017 |
| IL11 | interleukin 11 [Source:HGNC Symbol;Acc:HGNC:5966] | 12.2 | 9.1 | -1.28 | 0.012 |
| MARCKS | myristoylated alanine rich protein kinase C substrate [Source:HGNC Symbol;Acc:HGNC:6759] | 261.8 | 206.3 | -1.28 | 0 |
| GDF6 | growth differentiation factor 6 [Source:HGNC Symbol;Acc:HGNC:4221] | 121.1 | 95.5 | -1.28 | 1.00E-06 |
| DOCK4 | dedicator of cytokinesis 4 [Source:HGNC Symbol;Acc:HGNC:19192] | 6.7 | 5.3 | -1.28 | 0.039 |
| KSR1 | kinase suppressor of ras 1 [Source:HGNC Symbol;Acc:HGNC:6465] | 10.7 | 8.4 | -1.27 | 2.00E-06 |
| IRF4 | interferon regulatory factor 4 [Source:HGNC Symbol;Acc:HGNC:6119] | 18.2 | 14.4 | -1.27 | 0 |
| GTF2IRD2B | GTF2I repeat domain containing 2B [Source:HGNC Symbol;Acc:HGNC:33125] | 3.3 | 2.5 | -1.27 | 0.013 |
| LINC02015 | long intergenic non-protein coding RNA 2015 [Source:HGNC Symbol;Acc:HGNC:52850] | 5.8 | 4.6 | -1.27 | 0.0016 |
| CCL7 | C-C motif chemokine ligand 7 [Source:HGNC Symbol;Acc:HGNC:10634] | 5.5 | 4.2 | -1.27 | 0.0027 |
| ZNF503-AS2 | ZNF503 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:23525] | 3.2 | 2.5 | -1.27 | 0.034 |
| CCDC71L | coiled-coil domain containing 71 like [Source:HGNC Symbol;Acc:HGNC:26685] | 77.3 | 60.9 | -1.27 | 0 |
| LOXL3 | lysyl oxidase like 3 [Source:HGNC Symbol;Acc:HGNC:13869] | 67.8 | 55.0 | -1.27 | 1.00E-06 |
| INSIG2 | insulin induced gene 2 [Source:HGNC Symbol;Acc:HGNC:20452] | 69.7 | 55.4 | -1.26 | 0 |
| SMTN | smoothelin [Source:HGNC Symbol;Acc:HGNC:11126] | 244.4 | 192.5 | -1.26 | 0 |
| COLEC12 | collectin subfamily member 12 [Source:HGNC Symbol;Acc:HGNC:16016] | 24.9 | 19.4 | -1.26 | 0 |
| POLB | DNA polymerase beta [Source:HGNC Symbol;Acc:HGNC:9174] | 5.2 | 4.1 | -1.26 | 0.0027 |
| ATOH8 | atonal bHLH transcription factor 8 [Source:HGNC Symbol;Acc:HGNC:24126] | 11.3 | 9.5 | -1.26 | 0.0070 |
| ABL1 | ABL proto-oncogene 1, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:76] | 98.8 | 78.0 | -1.26 | 0 |
| PANX2 | pannexin 2 [Source:HGNC Symbol;Acc:HGNC:8600] | 11.5 | 9.0 | -1.26 | 5.10E-05 |
| LRMDA | leucine rich melanocyte differentiation associated [Source:HGNC Symbol;Acc:HGNC:23405] | 5.4 | 4.3 | -1.26 | 0.0012 |
| TNFAIP6 | TNF alpha induced protein 6 [Source:HGNC Symbol;Acc:HGNC:11898] | 966.1 | 782.8 | -1.26 | 0 |
| FAM110B | family with sequence similarity 110 member B [Source:HGNC Symbol;Acc:HGNC:28587] | 45.2 | 36.0 | -1.26 | 0 |

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| MARCH9 | membrane associated ring-CH-type finger 9 [Source:HGNC Symbol;Acc:HGNC:25139] | 5.7 | 4.5 | -1.26 | 0.0034 |
| MCTP2 | multiple C2 and transmembrane domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25636] | 12.5 | 9.9 | -1.25 | 1.60E-05 |
| LNK1 | ligand of numb-protein X 1 [Source:HGNC Symbol;Acc:HGNC:6657] | 4.8 | 3.8 | -1.25 | 0.0072 |
| MN1 | MN1 proto-oncogene, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:7180] | 24.3 | 19.3 | -1.25 | 1.00E-06 |
| CXCL5 | C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642] | 285.0 | 223.0 | -1.25 | 0 |
| MILR1 | mast cell immunoglobulin like receptor 1 [Source:HGNC Symbol;Acc:HGNC:27570] | 3.6 | 2.9 | -1.25 | 0.031 |
| KIF7 | kinesin family member 7 [Source:HGNC Symbol;Acc:HGNC:30497] | 4.1 | 3.2 | -1.25 | 0.013 |
| PELI3 | pellino E3 ubiquitin protein ligase family member 3 [Source:HGNC Symbol;Acc:HGNC:30010] | 3.4 | 2.7 | -1.25 | 0.045 |
| GYS1 | glycogen synthase 1 [Source:HGNC Symbol;Acc:HGNC:4706] | 38.9 | 31.1 | -1.25 | 1.00E-06 |
| TMTC1 | transmembrane and tetratricopeptide repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:24099] | 55.9 | 45.1 | -1.24 | 0.0013 |
| ISG20 | interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130] | 75.4 | 59.7 | -1.24 | 1.00E-06 |
| HILPDA | hypoxia inducible lipid droplet associated [Source:HGNC Symbol;Acc:HGNC:28859] | 24.2 | 19.3 | -1.24 | 0.0035 |
| TNFRSF1B | TNF receptor superfamily member 1B [Source:HGNC Symbol;Acc:HGNC:11917] | 197.8 | 159.1 | -1.24 | 0 |
| PRPF40B | pre-mRNA processing factor 40 homolog B [Source:HGNC Symbol;Acc:HGNC:25031] | 8.1 | 6.5 | -1.24 | 0.00059 |
| C17orf107 | chromosome 17 open reading frame 107 [Source:HGNC Symbol;Acc:HGNC:37238] | 11.9 | 9.5 | -1.24 | 1.20E-05 |
| ENOSF1 | enolase superfamily member 1 [Source:HGNC Symbol;Acc:HGNC:30365] | 29.7 | 23.9 | -1.24 | 0.00028 |
| WISP1 | WNT1 inducible signaling pathway protein 1 [Source:HGNC Symbol;Acc:HGNC:12769] | 22.2 | 17.6 | -1.24 | 9.80E-05 |
| TRANK1 | tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:29011] | 11.1 | 9.0 | -1.24 | 0.031 |
| AKR1C2 | aldo-keto reductase family 1 member C2 [Source:HGNC Symbol;Acc:HGNC:385] | 767.6 | 623.1 | -1.24 | 0 |
| CSGALNACT | chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290] | 177.5 | 143.4 | -1.24 | 1.00E-06 |
| ADAMTS4 | ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:HGNC Symbol;Acc:HGNC:220] | 2.7 | 2.2 | -1.24 | 0.035 |
| ADSSL1 | adenylosuccinate synthase like 1 [Source:HGNC Symbol;Acc:HGNC:20093] | 7.2 | 6.0 | -1.24 | 0.016 |
| HTATIP2 | HIV-1 Tat interactive protein 2 [Source:HGNC Symbol;Acc:HGNC:16637] | 23.1 | 18.6 | -1.23 | 3.20E-05 |
| CHEK2 | checkpoint kinase 2 [Source:HGNC Symbol;Acc:HGNC:16627] | 6.3 | 5.1 | -1.23 | 0.0013 |
| GMDS | GDP-mannose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:4369] | 24.9 | 20.3 | -1.23 | 0.00011 |
| LMO2 | LIM domain only 2 [Source:HGNC Symbol;Acc:HGNC:6642] | 3.9 | 3.1 | -1.23 | 0.040 |
| S100A9 | S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:10499] | 15.6 | 12.7 | -1.23 | 0.0061 |
| ZNF331 | zinc finger protein 331 [Source:HGNC Symbol;Acc:HGNC:15489] | 19.1 | 15.4 | -1.23 | 5.90E-05 |
| GRAMD1A | GRAM domain containing 1A [Source:HGNC Symbol;Acc:HGNC:29305] | 16.8 | 13.6 | -1.23 | 2.00E-05 |
| BASP1 | brain abundant membrane attached signal protein 1 [Source:HGNC Symbol;Acc:HGNC:957] | 10.0 | 8.0 | -1.23 | 0.0014 |
| PRKCH | protein kinase C eta [Source:HGNC Symbol;Acc:HGNC:9403] | 5.8 | 4.7 | -1.23 | 0.0046 |
| RND3 | Rho family GTPase 3 [Source:HGNC Symbol;Acc:HGNC:671] | 687.5 | 560.9 | -1.23 | 0 |
| AKNA | AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108] | 18.8 | 15.1 | -1.23 | 0.00015 |

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|----------|---|--------|--------|--------------|----------|
| PBX1 | PBX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:8632] | 6.7 | 5.4 | -1.23 | 0.022 |
| BARX1 | BARX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:955] | 24.1 | 19.6 | -1.23 | 0.00034 |
| CTH | cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501] | 13.5 | 11.0 | -1.23 | 0.00013 |
| CHI3L2 | chitinase 3 like 2 [Source:HGNC Symbol;Acc:HGNC:1933] | 1749.8 | 1448.6 | -1.22 | 3.00E-06 |
| MT1L | metallothionein 1L, pseudogene [Source:HGNC Symbol;Acc:HGNC:7404] | 76.9 | 62.2 | -1.22 | 0.00087 |
| ALDH2 | aldehyde dehydrogenase 2 family (mitochondrial) [Source:HGNC Symbol;Acc:HGNC:404] | 27.7 | 22.5 | -1.22 | 1.40E-05 |
| FUZ | fuzzy planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:26219] | 9.8 | 7.9 | -1.22 | 0.0011 |
| MAN1A1 | mannosidase alpha class 1A member 1 [Source:HGNC Symbol;Acc:HGNC:6821] | 394.3 | 321.1 | -1.22 | 2.00E-06 |
| NANOS1 | nanos C2HC-type zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:23044] | 20.7 | 17.1 | -1.22 | 4.30E-05 |
| COL4A2 | collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203] | 8.1 | 6.6 | -1.22 | 0.0016 |
| BOC | BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173] | 28.3 | 23.2 | -1.22 | 8.00E-06 |
| PPP1R3C | protein phosphatase 1 regulatory subunit 3C [Source:HGNC Symbol;Acc:HGNC:9293] | 218.6 | 181.0 | -1.22 | 1.40E-05 |
| AGPAT4 | 1-acylglycerol-3-phosphate O-acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:20885] | 17.5 | 14.3 | -1.22 | 0.00095 |
| EVI2A | ecotropic viral integration site 2A [Source:HGNC Symbol;Acc:HGNC:3499] | 14.1 | 11.5 | -1.22 | 0.0015 |
| RBMS3 | RNA binding motif single stranded interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:13427] | 12.1 | 10.0 | -1.22 | 0.017 |
| KAZALD1 | Kazal type serine peptidase inhibitor domain 1 [Source:HGNC Symbol;Acc:HGNC:25460] | 7.3 | 5.9 | -1.22 | 0.0079 |
| ADGRG2 | adhesion G protein-coupled receptor G2 [Source:HGNC Symbol;Acc:HGNC:4516] | 27.3 | 22.3 | -1.21 | 0.046 |
| HOXC10 | homeobox C10 [Source:HGNC Symbol;Acc:HGNC:5122] | 19.8 | 16.3 | -1.21 | 1.00E-06 |
| PGM1 | phosphoglucomutase 1 [Source:HGNC Symbol;Acc:HGNC:8905] | 73.3 | 60.6 | -1.21 | 2.00E-06 |
| PLD1 | phospholipase D1 [Source:HGNC Symbol;Acc:HGNC:9067] | 31.3 | 25.5 | -1.21 | 0.00056 |
| INHBA | inhibin beta A subunit [Source:HGNC Symbol;Acc:HGNC:6066] | 694.4 | 564.1 | -1.21 | 4.10E-05 |
| PDZRN3 | PDZ domain containing ring finger 3 [Source:HGNC Symbol;Acc:HGNC:17704] | 68.6 | 56.0 | -1.21 | 1.00E-06 |
| SLC22A23 | solute carrier family 22 member 23 [Source:HGNC Symbol;Acc:HGNC:21106] | 42.6 | 34.9 | -1.21 | 0.00013 |
| RIN2 | Ras and Rab interactor 2 [Source:HGNC Symbol;Acc:HGNC:18750] | 51.6 | 42.4 | -1.21 | 3.00E-06 |
| RNF152 | ring finger protein 152 [Source:HGNC Symbol;Acc:HGNC:26811] | 12.5 | 10.1 | -1.20 | 0.035 |
| ADD3 | adducin 3 [Source:HGNC Symbol;Acc:HGNC:245] | 34.4 | 28.3 | -1.20 | 6.00E-05 |
| MAMDC4 | MAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:24083] | 12.0 | 9.9 | -1.20 | 0.031 |
| B4GAT1 | beta-1,4-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685] | 6.6 | 5.4 | -1.20 | 0.047 |
| HIF1A | hypoxia inducible factor 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:4910] | 406.5 | 334.6 | -1.20 | 2.70E-05 |
| TRIB2 | tribbles pseudokinase 2 [Source:HGNC Symbol;Acc:HGNC:30809] | 17.5 | 14.5 | -1.20 | 0.0011 |
| SGSM2 | small G protein signaling modulator 2 [Source:HGNC Symbol;Acc:HGNC:29026] | 11.1 | 9.2 | -1.20 | 0.00069 |
| TNC | tenascin C [Source:HGNC Symbol;Acc:HGNC:5318] | 637.6 | 526.2 | -1.20 | 0.0060 |
| CDADC1 | cytidine and dCMP deaminase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20299] | 5.6 | 4.6 | -1.20 | 0.038 |

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|----------|---|-------|-------|--------------|----------|
| DLG4 | discs large MAGUK scaffold protein 4 [Source:HGNC Symbol;Acc:HGNC:2903] | 5.1 | 4.2 | -1.20 | 0.022 |
| SLC6A9 | solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056] | 18.3 | 15.3 | -1.20 | 8.20E-05 |
| CERS4 | ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:23747] | 5.4 | 4.5 | -1.20 | 0.028 |
| C9orf3 | chromosome 9 open reading frame 3 [Source:HGNC Symbol;Acc:HGNC:1361] | 100.1 | 83.0 | -1.20 | 0.00013 |
| PTGFR | prostaglandin F receptor [Source:HGNC Symbol;Acc:HGNC:9600] | 17.7 | 14.7 | -1.20 | 0.00011 |
| SASH1 | SAM and SH3 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19182] | 53.4 | 44.2 | -1.20 | 0.0075 |
| RAPGEFL1 | Rap guanine nucleotide exchange factor like 1 [Source:HGNC Symbol;Acc:HGNC:17428] | 5.6 | 4.7 | -1.20 | 0.038 |
| MEGF10 | multiple EGF like domains 10 [Source:HGNC Symbol;Acc:HGNC:29634] | 14.0 | 11.5 | -1.20 | 0.027 |
| FKBP11 | FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:18624] | 12.5 | 10.2 | -1.19 | 0.0054 |
| C17orf58 | chromosome 17 open reading frame 58 [Source:HGNC Symbol;Acc:HGNC:27568] | 10.8 | 9.1 | -1.19 | 0.00068 |
| BDKRB1 | bradykinin receptor B1 [Source:HGNC Symbol;Acc:HGNC:1029] | 32.5 | 27.2 | -1.19 | 0.00017 |
| LBP | lipopolysaccharide binding protein [Source:HGNC Symbol;Acc:HGNC:6517] | 10.2 | 8.4 | -1.19 | 0.022 |
| GOLGA8A | golgin A8 family member A [Source:HGNC Symbol;Acc:HGNC:31972] | 12.9 | 10.9 | -1.19 | 0.0096 |
| PKIG | cAMP-dependent protein kinase inhibitor gamma [Source:HGNC Symbol;Acc:HGNC:9019] | 20.4 | 17.2 | -1.19 | 0.0047 |
| IFT43 | intraflagellar transport 43 [Source:HGNC Symbol;Acc:HGNC:29669] | 22.3 | 18.6 | -1.19 | 0.00095 |
| GALNT2 | polypeptide N-acetylgalactosaminyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4124] | 397.5 | 333.0 | -1.19 | 0 |
| PGRMC1 | progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:HGNC:16090] | 108.2 | 90.8 | -1.19 | 6.00E-06 |
| ARHGEF19 | Rho guanine nucleotide exchange factor 19 [Source:HGNC Symbol;Acc:HGNC:26604] | 12.6 | 10.6 | -1.19 | 0.024 |
| HMGNP246 | high mobility group nucleosomal binding domain 2 pseudogene 46 | 15.8 | 13.3 | -1.19 | 4.10E-05 |
| ETS2 | ETS proto-oncogene 2, transcription factor [Source:HGNC Symbol;Acc:HGNC:3489] | 85.4 | 71.0 | -1.19 | 0.00032 |
| MEDAG | mesenteric estrogen dependent adipogenesis [Source:HGNC Symbol;Acc:HGNC:25926] | 181.7 | 151.8 | -1.18 | 0.00031 |
| FAM162A | family with sequence similarity 162 member A [Source:HGNC Symbol;Acc:HGNC:17865] | 30.9 | 25.6 | -1.18 | 0.018 |
| SLC39A8 | solute carrier family 39 member 8 [Source:HGNC Symbol;Acc:HGNC:20862] | 146.7 | 124.1 | -1.18 | 0.00016 |
| RIN3 | Ras and Rab interactor 3 [Source:HGNC Symbol;Acc:HGNC:18751] | 14.1 | 11.8 | -1.18 | 0.00029 |
| PPIL3 | peptidylprolyl isomerase like 3 [Source:HGNC Symbol;Acc:HGNC:9262] | 20.6 | 17.3 | -1.18 | 0.00045 |
| GLRX | glutaredoxin [Source:HGNC Symbol;Acc:HGNC:4330] | 108.6 | 91.9 | -1.18 | 2.00E-05 |
| CABLES1 | Cdk5 and Abl enzyme substrate 1 [Source:HGNC Symbol;Acc:HGNC:25097] | 6.4 | 5.4 | -1.18 | 0.016 |
| TTC28 | tetratricopeptide repeat domain 28 [Source:HGNC Symbol;Acc:HGNC:29179] | 15.4 | 12.9 | -1.18 | 0.043 |
| NDUFA4L2 | NDUFA4, mitochondrial complex associated like 2 [Source:HGNC Symbol;Acc:HGNC:29836] | 387.6 | 329.3 | -1.18 | 0.00012 |
| CREM | cAMP responsive element modulator [Source:HGNC Symbol;Acc:HGNC:2352] | 29.0 | 24.4 | -1.18 | 0.00012 |
| PDK1 | pyruvate dehydrogenase kinase 1 [Source:HGNC Symbol;Acc:HGNC:8809] | 26.2 | 22.2 | -1.18 | 0.00045 |
| ZMYM3 | zinc finger MYM-type containing 3 [Source:HGNC Symbol;Acc:HGNC:13054] | 5.5 | 4.7 | -1.18 | 0.040 |
| BCL2A1 | BCL2 related protein A1 [Source:HGNC Symbol;Acc:HGNC:991] | 116.3 | 97.0 | -1.18 | 0.00020 |

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| HOXA11 | homeobox A11 [Source:HGNC Symbol;Acc:HGNC:5101] | 12.7 | 10.7 | -1.18 | 0.029 |
| ADM | adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259] | 218.5 | 187.4 | -1.18 | 0.013 |
| MARCH3 | membrane associated ring-CH-type finger 3 [Source:HGNC Symbol;Acc:HGNC:28728] | 43.4 | 36.8 | -1.18 | 0.00050 |
| BDH2 | 3-hydroxybutyrate dehydrogenase 2 [Source:HGNC Symbol;Acc:HGNC:32389] | 8.8 | 7.5 | -1.18 | 0.027 |
| WNT5A | Wnt family member 5A [Source:HGNC Symbol;Acc:HGNC:12784] | 45.7 | 38.5 | -1.18 | 0.0022 |
| PTGFRN | prostaglandin F2 receptor inhibitor [Source:HGNC Symbol;Acc:HGNC:9601] | 21.9 | 18.7 | -1.18 | 0.0051 |
| ZNF395 | zinc finger protein 395 [Source:HGNC Symbol;Acc:HGNC:18737] | 64.6 | 54.8 | -1.18 | 0.0027 |
| UGP2 | UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;Acc:HGNC:12527] | 156.1 | 132.8 | -1.18 | 0.00014 |
| PLA2G4A | phospholipase A2 group IVA [Source:HGNC Symbol;Acc:HGNC:9035] | 31.6 | 26.5 | -1.18 | 0.0049 |
| DUSP4 | dual specificity phosphatase 4 [Source:HGNC Symbol;Acc:HGNC:3070] | 17.3 | 14.7 | -1.17 | 0.012 |
| PFKP | phosphofructokinase, platelet [Source:HGNC Symbol;Acc:HGNC:8878] | 85.6 | 73.1 | -1.17 | 0.00046 |
| MEI1 | meiotic double-stranded break formation protein 1 [Source:HGNC Symbol;Acc:HGNC:28613] | 18.6 | 16.0 | -1.17 | 0.0035 |
| CHI3L1 | chitinase 3 like 1 [Source:HGNC Symbol;Acc:HGNC:1932] | 2321.5 | 1963.0 | -1.17 | 7.00E-06 |
| HSCB | HscB mitochondrial iron-sulfur cluster cochaperone [Source:HGNC Symbol;Acc:HGNC:28913] | 9.1 | 7.7 | -1.17 | 0.016 |
| PILRA | paired immunoglobulin like type 2 receptor alpha [Source:HGNC Symbol;Acc:HGNC:20396] | 33.9 | 28.8 | -1.17 | 4.80E-05 |
| C14orf28 | chromosome 14 open reading frame 28 [Source:HGNC Symbol;Acc:HGNC:19834] | 7.2 | 6.1 | -1.17 | 0.044 |
| B9D1 | B9 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:24123] | 10.7 | 9.1 | -1.17 | 0.015 |
| HSPA4L | heat shock protein family A (Hsp70) member 4 like [Source:HGNC Symbol;Acc:HGNC:17041] | 11.2 | 9.5 | -1.17 | 0.024 |
| PRRX2 | paired related homeobox 2 [Source:HGNC Symbol;Acc:HGNC:21338] | 32.9 | 27.7 | -1.17 | 0.037 |
| NFIB | nuclear factor I B [Source:HGNC Symbol;Acc:HGNC:7785] | 18.8 | 15.9 | -1.17 | 0.00080 |
| C1RL | complement C1r subcomponent like [Source:HGNC Symbol;Acc:HGNC:21265] | 40.0 | 34.0 | -1.17 | 0.00012 |
| NPAS2 | neuronal PAS domain protein 2 [Source:HGNC Symbol;Acc:HGNC:7895] | 25.6 | 22.0 | -1.17 | 0.0013 |
| PIR | pirin [Source:HGNC Symbol;Acc:HGNC:30048] | 11.3 | 9.8 | -1.17 | 0.019 |
| NR4A1 | nuclear receptor subfamily 4 group A member 1 [Source:HGNC Symbol;Acc:HGNC:7980] | 7.6 | 6.5 | -1.17 | 0.015 |
| EREG | epiregulin [Source:HGNC Symbol;Acc:HGNC:3443] | 203.5 | 174.4 | -1.17 | 0.00035 |
| KCTD15 | potassium channel tetramerization domain containing 15 [Source:HGNC Symbol;Acc:HGNC:23297] | 13.9 | 11.9 | -1.17 | 0.018 |
| TXNDC12 | thioredoxin domain containing 12 [Source:HGNC Symbol;Acc:HGNC:24626] | 86.0 | 73.2 | -1.17 | 0.0018 |
| TMEM9 | transmembrane protein 9 [Source:HGNC Symbol;Acc:HGNC:18823] | 26.1 | 22.1 | -1.17 | 0.0088 |
| PFKM | phosphofructokinase, muscle [Source:HGNC Symbol;Acc:HGNC:8877] | 16.8 | 14.4 | -1.17 | 0.0027 |
| ARHGAP42 | Rho GTPase activating protein 42 [Source:HGNC Symbol;Acc:HGNC:26545] | 57.4 | 49.8 | -1.17 | 0.0014 |
| GAS1 | growth arrest specific 1 [Source:HGNC Symbol;Acc:HGNC:4165] | 12.2 | 10.4 | -1.17 | 0.012 |
| FJX1 | four jointed box 1 [Source:HGNC Symbol;Acc:HGNC:17166] | 22.2 | 18.9 | -1.16 | 0.0033 |
| SIX4 | SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890] | 26.9 | 23.1 | -1.16 | 0.0025 |

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|----------|---|-------|-------|--------------|---------|
| EGLN3 | egl-9 family hypoxia inducible factor 3 [Source:HGNC Symbol;Acc:HGNC:14661] | 30.7 | 26.6 | -1.16 | 0.011 |
| DHRS3 | dehydrogenase/reductase 3 [Source:HGNC Symbol;Acc:HGNC:17693] | 53.9 | 47.0 | -1.16 | 0.034 |
| IL1RL1 | interleukin 1 receptor like 1 [Source:HGNC Symbol;Acc:HGNC:5998] | 24.8 | 21.1 | -1.16 | 0.024 |
| MPI | mannose phosphate isomerase [Source:HGNC Symbol;Acc:HGNC:7216] | 21.7 | 18.7 | -1.16 | 0.0045 |
| LONP1 | lon peptidase 1, mitochondrial [Source:HGNC Symbol;Acc:HGNC:9479] | 103.6 | 89.0 | -1.16 | 0.00080 |
| NOL3 | nucleolar protein 3 [Source:HGNC Symbol;Acc:HGNC:7869] | 12.4 | 11.6 | -1.16 | 0.0042 |
| SEMA4D | semaphorin 4D [Source:HGNC Symbol;Acc:HGNC:10732] | 15.6 | 13.6 | -1.16 | 0.023 |
| ST3GAL4 | ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:10864] | 11.4 | 9.9 | -1.16 | 0.034 |
| IFITM3 | interferon induced transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:5414] | 62.0 | 53.2 | -1.16 | 0.014 |
| CEBPB | CCAAT/enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834] | 331.2 | 284.5 | -1.16 | 0.0077 |
| DOK1 | docking protein 1 [Source:HGNC Symbol;Acc:HGNC:2990] | 30.5 | 26.6 | -1.16 | 0.012 |
| TSPYL2 | TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358] | 70.8 | 61.0 | -1.16 | 0.00089 |
| HS3ST3A1 | heparan sulfate-glucosamine 3-sulfotransferase 3A1 [Source:HGNC Symbol;Acc:HGNC:5196] | 16.6 | 14.1 | -1.16 | 0.012 |
| RERG | RAS like estrogen regulated growth inhibitor [Source:HGNC Symbol;Acc:HGNC:15980] | 36.9 | 32.3 | -1.16 | 0.019 |
| SIX5 | SIX homeobox 5 [Source:HGNC Symbol;Acc:HGNC:10891] | 27.3 | 23.5 | -1.15 | 0.024 |
| SLC33A1 | solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95] | 29.4 | 25.4 | -1.15 | 0.0035 |
| RNFT1 | ring finger protein, transmembrane 1 [Source:HGNC Symbol;Acc:HGNC:30206] | 6.8 | 5.9 | -1.15 | 0.040 |
| ELL2 | elongation factor for RNA polymerase II 2 [Source:HGNC Symbol;Acc:HGNC:17064] | 240.9 | 208.4 | -1.15 | 0.0011 |
| DTX3 | deltex E3 ubiquitin ligase 3 [Source:HGNC Symbol;Acc:HGNC:24457] | 11.3 | 9.8 | -1.15 | 0.040 |
| SLC2A3 | solute carrier family 2 member 3 [Source:HGNC Symbol;Acc:HGNC:11007] | 39.3 | 34.2 | -1.15 | 0.0055 |
| GAREM2 | GRB2 associated regulator of MAPK1 subtype 2 [Source:HGNC Symbol;Acc:HGNC:27172] | 8.9 | 7.7 | -1.15 | 0.039 |
| ELOVL7 | ELOVL fatty acid elongase 7 [Source:HGNC Symbol;Acc:HGNC:26292] | 35.0 | 30.5 | -1.15 | 0.0036 |
| ADH5 | alcohol dehydrogenase 5 (class III), chi polypeptide [Source:HGNC Symbol;Acc:HGNC:253] | 54.7 | 47.4 | -1.15 | 0.00089 |
| SMARCA1 | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 | 23.5 | 20.2 | -1.15 | 0.0049 |
| ANGPTL1 | angiopoietin like 1 [Source:HGNC Symbol;Acc:HGNC:489] | 12.1 | 10.5 | -1.15 | 0.030 |
| PITPNM1 | phosphatidylinositol transfer protein membrane associated 1 [Source:HGNC Symbol;Acc:HGNC:9003] | 17.7 | 15.4 | -1.15 | 0.024 |
| C11orf49 | chromosome 11 open reading frame 49 [Source:HGNC Symbol;Acc:HGNC:28720] | 12.0 | 10.4 | -1.15 | 0.0071 |
| RNF145 | ring finger protein 145 [Source:HGNC Symbol;Acc:HGNC:20853] | 73.0 | 63.6 | -1.15 | 0.0013 |
| RAB34 | RAB34, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:16519] | 45.2 | 39.3 | -1.15 | 0.023 |
| RHBDD3 | rhomboid domain containing 3 [Source:HGNC Symbol;Acc:HGNC:1308] | 17.0 | 14.8 | -1.15 | 0.019 |
| TMED1 | transmembrane p24 trafficking protein 1 [Source:HGNC Symbol;Acc:HGNC:17291] | 33.4 | 28.9 | -1.15 | 0.013 |
| DDIT4 | DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944] | 275.5 | 238.2 | -1.15 | 0.0031 |
| PTOV1 | prostate tumor overexpressed 1 [Source:HGNC Symbol;Acc:HGNC:9632] | 31.2 | 26.8 | -1.15 | 0.023 |

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|-----------|--|--------|-------|--------------|--------|
| FAM126A | family with sequence similarity 126 member A [Source:HGNC Symbol;Acc:HGNC:24587] | 55.9 | 48.1 | -1.15 | 0.0045 |
| LINC01588 | long intergenic non-protein coding RNA 1588 [Source:HGNC Symbol;Acc:HGNC:27503] | 13.3 | 11.5 | -1.15 | 0.017 |
| MBNL2 | muscleblind like splicing regulator 2 [Source:HGNC Symbol;Acc:HGNC:16746] | 46.8 | 40.7 | -1.15 | 0.031 |
| EFCAB2 | EF-hand calcium binding domain 2 [Source:HGNC Symbol;Acc:HGNC:28166] | 12.3 | 10.7 | -1.15 | 0.043 |
| MIB2 | mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577] | 34.6 | 30.0 | -1.14 | 0.0042 |
| G0S2 | G0/G1 switch 2 [Source:HGNC Symbol;Acc:HGNC:30229] | 1125.3 | 971.9 | -1.14 | 0.026 |
| SLC7A5 | solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063] | 223.5 | 193.2 | -1.14 | 0.0030 |
| ZHX2 | zinc fingers and homeoboxes 2 [Source:HGNC Symbol;Acc:HGNC:18513] | 77.0 | 66.9 | -1.14 | 0.0026 |
| MAGED1 | MAGE family member D1 [Source:HGNC Symbol;Acc:HGNC:6813] | 54.1 | 46.9 | -1.14 | 0.0049 |
| FAM69A | family with sequence similarity 69 member A [Source:HGNC Symbol;Acc:HGNC:32213] | 11.2 | 9.8 | -1.14 | 0.029 |
| VDR | vitamin D (1,25- dihydroxyvitamin D3) receptor [Source:HGNC Symbol;Acc:HGNC:12679] | 46.7 | 40.8 | -1.14 | 0.0025 |
| CHRD2 | chordin like 2 [Source:HGNC Symbol;Acc:HGNC:24168] | 34.0 | 29.4 | -1.14 | 0.0033 |
| JAK2 | Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192] | 49.3 | 42.9 | -1.14 | 0.0023 |
| PBXIP1 | PBX homeobox interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:21199] | 70.3 | 60.8 | -1.14 | 0.022 |
| DNAJC1 | DnaJ heat shock protein family (Hsp40) member C1 [Source:HGNC Symbol;Acc:HGNC:20090] | 80.5 | 70.0 | -1.14 | 0.0052 |
| COMMD3 | COMM domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23332] | 23.4 | 20.5 | -1.14 | 0.039 |
| BTF3L4 | basic transcription factor 3 like 4 [Source:HGNC Symbol;Acc:HGNC:30547] | 41.8 | 36.6 | -1.14 | 0.019 |
| LDLRAD3 | low density lipoprotein receptor class A domain containing 3 [Source:HGNC Symbol;Acc:HGNC:27046] | 32.2 | 28.1 | -1.14 | 0.017 |
| TNIK | TRAF2 and NCK interacting kinase [Source:HGNC Symbol;Acc:HGNC:30765] | 9.8 | 8.6 | -1.14 | 0.046 |
| ANTXR1 | anthrax toxin receptor 1 [Source:HGNC Symbol;Acc:HGNC:21014] | 44.5 | 38.9 | -1.14 | 0.016 |
| FBXO2 | F-box protein 2 [Source:HGNC Symbol;Acc:HGNC:13581] | 39.7 | 35.6 | -1.14 | 0.044 |
| PGK1 | phosphoglycerate kinase 1 [Source:HGNC Symbol;Acc:HGNC:8896] | 549.9 | 479.6 | -1.14 | 0.0026 |
| LOXL2 | lysyl oxidase like 2 [Source:HGNC Symbol;Acc:HGNC:6666] | 75.7 | 67.0 | -1.14 | 0.0038 |
| PLEKHG3 | pleckstrin homology and RhoGEF domain containing G3 [Source:HGNC Symbol;Acc:HGNC:20364] | 12.4 | 10.9 | -1.14 | 0.027 |
| LPXN | leupaxin [Source:HGNC Symbol;Acc:HGNC:14061] | 24.0 | 21.2 | -1.14 | 0.013 |
| COL5A1 | collagen type V alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2209] | 125.9 | 111.1 | -1.14 | 0.018 |
| IL1R1 | interleukin 1 receptor type 1 [Source:HGNC Symbol;Acc:HGNC:5993] | 46.2 | 40.2 | -1.14 | 0.029 |
| PRMT1 | protein arginine methyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:5187] | 56.0 | 49.1 | -1.14 | 0.0078 |
| EPHB4 | EPH receptor B4 [Source:HGNC Symbol;Acc:HGNC:3395] | 8.1 | 7.1 | -1.14 | 0.047 |
| GNB5 | G protein subunit beta 5 [Source:HGNC Symbol;Acc:HGNC:4401] | 16.4 | 14.4 | -1.14 | 0.0061 |
| HDHD5 | haloacid dehalogenase like hydrolase domain containing 5 [Source:HGNC Symbol;Acc:HGNC:1843] | 20.3 | 17.7 | -1.13 | 0.027 |
| FAM57A | family with sequence similarity 57 member A [Source:HGNC Symbol;Acc:HGNC:29646] | 16.7 | 14.7 | -1.13 | 0.039 |
| CDK5RAP2 | CDK5 regulatory subunit associated protein 2 [Source:HGNC Symbol;Acc:HGNC:18672] | 48.4 | 42.5 | -1.13 | 0.0045 |

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|-----------|--|--------|--------|--------------|---------|
| AK3 | adenylate kinase 3 [Source:HGNC Symbol;Acc:HGNC:17376] | 70.5 | 62.4 | -1.13 | 0.011 |
| ARRDC2 | arrestin domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25225] | 70.0 | 61.5 | -1.13 | 0.0020 |
| OSGIN2 | oxidative stress induced growth inhibitor family member 2 [Source:HGNC Symbol;Acc:HGNC:1355] | 130.6 | 115.0 | -1.13 | 0.0013 |
| NTPCR | nucleoside-triphosphatase, cancer-related [Source:HGNC Symbol;Acc:HGNC:28204] | 18.7 | 16.4 | -1.13 | 0.022 |
| NFKB2 | nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795] | 285.5 | 251.3 | -1.13 | 0.0022 |
| ARMCX2 | armadillo repeat containing, X-linked 2 [Source:HGNC Symbol;Acc:HGNC:16869] | 46.4 | 40.7 | -1.13 | 0.0061 |
| CYP1B1 | cytochrome P450 family 1 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2597] | 796.1 | 704.4 | -1.13 | 0.0062 |
| SULF2 | sulfatase 2 [Source:HGNC Symbol;Acc:HGNC:20392] | 116.6 | 103.4 | -1.13 | 0.019 |
| SREK1IP1 | SREK1 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:26716] | 24.2 | 21.3 | -1.13 | 0.028 |
| FOXP1 | forkhead box P1 [Source:HGNC Symbol;Acc:HGNC:3823] | 48.6 | 43.0 | -1.13 | 0.014 |
| GABARAPL1 | GABA type A receptor associated protein like 1 [Source:HGNC Symbol;Acc:HGNC:4068] | 98.6 | 87.5 | -1.13 | 0.0035 |
| C1S | complement C1s [Source:HGNC Symbol;Acc:HGNC:1247] | 891.1 | 788.2 | -1.13 | 0.0010 |
| CPPED1 | calcineurin like phosphoesterase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25632] | 20.1 | 17.8 | -1.13 | 0.0053 |
| THRB | thyroid hormone receptor beta [Source:HGNC Symbol;Acc:HGNC:11799] | 21.7 | 19.2 | -1.13 | 0.025 |
| PENK | proenkephalin [Source:HGNC Symbol;Acc:HGNC:8831] | 74.2 | 64.6 | -1.13 | 0.049 |
| CKAP4 | cytoskeleton associated protein 4 [Source:HGNC Symbol;Acc:HGNC:16991] | 273.3 | 241.4 | -1.13 | 0.0047 |
| PPWD1 | peptidylprolyl isomerase domain and WD repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:28954] | 28.6 | 25.3 | -1.13 | 0.0092 |
| CES2 | carboxylesterase 2 [Source:HGNC Symbol;Acc:HGNC:1864] | 40.4 | 35.8 | -1.13 | 0.0031 |
| YIPF1 | Yip1 domain family member 1 [Source:HGNC Symbol;Acc:HGNC:25231] | 19.3 | 17.0 | -1.13 | 0.046 |
| EIF2D | eukaryotic translation initiation factor 2D [Source:HGNC Symbol;Acc:HGNC:6583] | 15.0 | 13.3 | -1.13 | 0.034 |
| MCOLN2 | mucolipin 2 [Source:HGNC Symbol;Acc:HGNC:13357] | 12.8 | 11.4 | -1.13 | 0.023 |
| UNKL | unkempt family like zinc finger [Source:HGNC Symbol;Acc:HGNC:14184] | 59.4 | 52.9 | -1.13 | 0.0051 |
| FSTL1 | folliculin like 1 [Source:HGNC Symbol;Acc:HGNC:3972] | 1409.4 | 1239.8 | -1.12 | 0.00100 |
| QSOX1 | quiescin sulfhydryl oxidase 1 [Source:HGNC Symbol;Acc:HGNC:9756] | 746.3 | 659.8 | -1.12 | 0.0038 |
| GTPBP2 | GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670] | 113.2 | 100.7 | -1.12 | 0.0041 |
| RELB | RELB proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9956] | 121.0 | 107.1 | -1.12 | 0.024 |
| ACOT13 | acyl-CoA thioesterase 13 [Source:HGNC Symbol;Acc:HGNC:20999] | 21.2 | 18.9 | -1.12 | 0.047 |
| NTN4 | netrin 4 [Source:HGNC Symbol;Acc:HGNC:13658] | 220.3 | 197.2 | -1.12 | 0.014 |
| GMPPB | GDP-mannose pyrophosphorylase B [Source:HGNC Symbol;Acc:HGNC:22932] | 62.1 | 55.0 | -1.12 | 0.0025 |
| FBXO42 | F-box protein 42 [Source:HGNC Symbol;Acc:HGNC:29249] | 26.7 | 23.8 | -1.12 | 0.016 |
| SEMA3C | semaphorin 3C [Source:HGNC Symbol;Acc:HGNC:10725] | 766.9 | 674.5 | -1.12 | 0.029 |
| PHF10 | PHD finger protein 10 [Source:HGNC Symbol;Acc:HGNC:18250] | 32.5 | 28.8 | -1.12 | 0.023 |
| PIH1D1 | PIH1 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26075] | 28.9 | 25.8 | -1.12 | 0.034 |

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|------------|---|--------|--------|--------------|--------|
| PLPPR2 | phospholipid phosphatase related 2 [Source:HGNC Symbol;Acc:HGNC:29566] | 28.8 | 25.7 | -1.12 | 0.037 |
| P4HA1 | prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:8546] | 403.2 | 363.5 | -1.12 | 0.014 |
| NMI | N-myc and STAT interactor [Source:HGNC Symbol;Acc:HGNC:7854] | 16.0 | 14.3 | -1.12 | 0.048 |
| CUL7 | cullin 7 [Source:HGNC Symbol;Acc:HGNC:21024] | 65.1 | 57.9 | -1.12 | 0.013 |
| BNIP3 | BCL2 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:1084] | 195.2 | 173.8 | -1.12 | 0.021 |
| CTSL | cathepsin L [Source:HGNC Symbol;Acc:HGNC:2537] | 402.4 | 355.6 | -1.12 | 0.026 |
| FKBP14 | FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625] | 34.1 | 30.3 | -1.12 | 0.0086 |
| EGLN1 | egl-9 family hypoxia inducible factor 1 [Source:HGNC Symbol;Acc:HGNC:1232] | 144.6 | 128.9 | -1.12 | 0.023 |
| SERPINH1 | serpin family H member 1 [Source:HGNC Symbol;Acc:HGNC:1546] | 55.1 | 49.2 | -1.12 | 0.0083 |
| RCL1 | RNA terminal phosphate cyclase like 1 [Source:HGNC Symbol;Acc:HGNC:17687] | 18.9 | 16.8 | -1.12 | 0.025 |
| GPI | glucose-6-phosphate isomerase [Source:HGNC Symbol;Acc:HGNC:4458] | 70.3 | 62.3 | -1.12 | 0.020 |
| CCL20 | C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619] | 6787.1 | 6037.1 | -1.12 | 0.024 |
| PER1 | period circadian clock 1 [Source:HGNC Symbol;Acc:HGNC:8845] | 40.0 | 35.7 | -1.12 | 0.0091 |
| DHPS | deoxyhypusine synthase [Source:HGNC Symbol;Acc:HGNC:2869] | 30.4 | 27.1 | -1.12 | 0.026 |
| GPAT3 | glycerol-3-phosphate acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:28157] | 20.4 | 18.2 | -1.12 | 0.016 |
| FUT11 | fucosyltransferase 11 [Source:HGNC Symbol;Acc:HGNC:19233] | 39.3 | 35.0 | -1.12 | 0.049 |
| SIDT2 | SID1 transmembrane family member 2 [Source:HGNC Symbol;Acc:HGNC:24272] | 30.3 | 27.1 | -1.11 | 0.016 |
| TMEM165 | transmembrane protein 165 [Source:HGNC Symbol;Acc:HGNC:30760] | 164.6 | 147.7 | -1.11 | 0.0088 |
| STAT2 | signal transducer and activator of transcription 2 [Source:HGNC Symbol;Acc:HGNC:11363] | 50.9 | 45.4 | -1.11 | 0.047 |
| SELENOK | selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394] | 97.6 | 86.7 | -1.11 | 0.027 |
| SRSF9 | serine and arginine rich splicing factor 9 [Source:HGNC Symbol;Acc:HGNC:10791] | 56.8 | 50.5 | -1.11 | 0.049 |
| FOSL2 | FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798] | 214.4 | 191.5 | -1.11 | 0.028 |
| ST6GALNAC4 | ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:17846] | 37.5 | 33.7 | -1.11 | 0.032 |
| AZI2 | 5-azacytidine induced 2 [Source:HGNC Symbol;Acc:HGNC:24002] | 33.7 | 30.2 | -1.11 | 0.0089 |
| SGSH | N-sulfoglucosamine sulfohydrolase [Source:HGNC Symbol;Acc:HGNC:10818] | 31.9 | 28.5 | -1.11 | 0.045 |
| SDC2 | syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659] | 245.5 | 218.6 | -1.11 | 0.018 |
| TPM4 | tropomyosin 4 [Source:HGNC Symbol;Acc:HGNC:12013] | 70.9 | 63.9 | -1.11 | 0.019 |
| ERGIC1 | endoplasmic reticulum-golgi intermediate compartment 1 [Source:HGNC Symbol;Acc:HGNC:29205] | 83.5 | 75.2 | -1.11 | 0.012 |
| VEGFA | vascular endothelial growth factor A [Source:HGNC Symbol;Acc:HGNC:12680] | 609.6 | 547.1 | -1.11 | 0.026 |
| CPXM2 | carboxypeptidase X, M14 family member 2 [Source:HGNC Symbol;Acc:HGNC:26977] | 41.7 | 37.2 | -1.11 | 0.016 |
| ACO1 | aconitase 1 [Source:HGNC Symbol;Acc:HGNC:117] | 85.3 | 76.6 | -1.11 | 0.0070 |
| NQO2 | N-ribosyldihyronicotinamide:quinone reductase 2 [Source:HGNC Symbol;Acc:HGNC:7856] | 33.0 | 29.5 | -1.11 | 0.042 |
| CUX1 | cut like homeobox 1 [Source:HGNC Symbol;Acc:HGNC:2557] | 69.8 | 62.6 | -1.11 | 0.038 |

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| GID4 | GID complex subunit 4 homolog [Source:HGNC Symbol;Acc:HGNC:28453] | 17.4 | 15.7 | -1.11 | 0.029 |
| NCKIPSD | NCK interacting protein with SH3 domain [Source:HGNC Symbol;Acc:HGNC:15486] | 24.1 | 21.6 | -1.11 | 0.043 |
| PRKAR1A | protein kinase cAMP-dependent type I regulatory subunit alpha [Source:HGNC Symbol;Acc:HGNC:9388] | 202.2 | 181.7 | -1.11 | 0.041 |
| UNK | unkempt family zinc finger [Source:HGNC Symbol;Acc:HGNC:29369] | 24.2 | 21.8 | -1.11 | 0.029 |
| BZW1 | basic leucine zipper and W2 domains 1 [Source:HGNC Symbol;Acc:HGNC:18380] | 432.3 | 390.0 | -1.11 | 0.019 |
| SLC25A28 | solute carrier family 25 member 28 [Source:HGNC Symbol;Acc:HGNC:23472] | 63.3 | 57.1 | -1.11 | 0.036 |
| MAFB | MAF bZIP transcription factor B [Source:HGNC Symbol;Acc:HGNC:6408] | 224.9 | 202.2 | -1.10 | 0.016 |
| GNPDA2 | glucosamine-6-phosphate deaminase 2 [Source:HGNC Symbol;Acc:HGNC:21526] | 33.2 | 30.0 | -1.10 | 0.031 |
| GMPPA | GDP-mannose pyrophosphorylase A [Source:HGNC Symbol;Acc:HGNC:22923] | 50.5 | 45.3 | -1.10 | 0.040 |
| INTS10 | integrator complex subunit 10 [Source:HGNC Symbol;Acc:HGNC:25548] | 31.9 | 28.8 | -1.10 | 0.034 |
| MLH1 | mutL homolog 1 [Source:HGNC Symbol;Acc:HGNC:7127] | 42.6 | 38.5 | -1.10 | 0.018 |
| PLPP5 | phospholipid phosphatase 5 [Source:HGNC Symbol;Acc:HGNC:25026] | 74.8 | 67.8 | -1.10 | 0.024 |
| WIPI1 | WD repeat domain, phosphoinositide interacting 1 [Source:HGNC Symbol;Acc:HGNC:25471] | 35.4 | 32.1 | -1.10 | 0.024 |
| VLDLR | very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698] | 77.4 | 70.3 | -1.10 | 0.039 |
| PDGFRA | platelet derived growth factor receptor alpha [Source:HGNC Symbol;Acc:HGNC:8803] | 80.6 | 72.8 | -1.10 | 0.030 |
| SPG20 | spastic paraplegia 20 (Troyer syndrome) [Source:HGNC Symbol;Acc:HGNC:18514] | 26.9 | 25.5 | -1.10 | 0.029 |
| TMEM94 | transmembrane protein 94 [Source:HGNC Symbol;Acc:HGNC:28983] | 24.0 | 21.8 | -1.10 | 0.037 |
| THUMPD3 | THUMP domain containing 3 [Source:HGNC Symbol;Acc:HGNC:24493] | 30.6 | 27.7 | -1.10 | 0.049 |
| ESYT1 | extended synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:29534] | 44.7 | 40.5 | -1.10 | 0.043 |
| HSPA5 | heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238] | 1797.5 | 1620.3 | -1.10 | 0.0079 |
| ZFP36L1 | ZFP36 ring finger protein like 1 [Source:HGNC Symbol;Acc:HGNC:1107] | 338.2 | 308.9 | -1.09 | 0.043 |
| SLC35E1 | solute carrier family 35 member E1 [Source:HGNC Symbol;Acc:HGNC:20803] | 85.5 | 78.0 | -1.09 | 0.033 |
| ARMCX3 | armadillo repeat containing, X-linked 3 [Source:HGNC Symbol;Acc:HGNC:24065] | 44.6 | 40.6 | -1.09 | 0.046 |
| TLE1 | transducin like enhancer of split 1 [Source:HGNC Symbol;Acc:HGNC:11837] | 25.1 | 22.9 | -1.09 | 0.049 |

Mean = trimmed mean of M-values (TMM) normalized counts

adj. p = FDR-adjusted p-value