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| Appendix 1: | Primers for genes used for validation of microarray results using real-time RT-PCR. |
|  |  |
| Appendix 2: | List of gene entities (*n* = 2142) found to be differentially expressed in liver tissue from patients with fulminant hepatitis E as compared to normal liver tissue, as also in patients with fulminant hepatitis B as compared to normal liver tissue. |
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| Appendix 3: | List of gene entities (*n* = 1235) found to be differentially expressed in liver tissue from patients with fulminant hepatitis E as compared to normal liver tissue, but not in patients with fulminant hepatitis B compared to normal liver tissue. |
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| Appendix 4: | List of gene entities (*n* = 430) found to be differentially expressed in liver tissue from patients with fulminant hepatitis B as compared to normal liver tissue, but not in patients with fulminant hepatitis E compared to normal liver tissue. |
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| Appendix 5: | Functional annotation of pathways whose genes were found to be over-represented among entities differentially expressed in fulminant hepatitis E, and in fulminant hepatitis B (derived using BioCarta through DAVID resource) |
|  |  |
| Appendix 6: | Functional annotation of pathways whose genes were found to be over-represented among entities differentially expressed in fulminant hepatitis E, but not in fulminant hepatitis B (derived using BioCarta through DAVID resource) |

**Appendix 1 Primers for genes used for validation of microarray results using real-time RT-PCR**

|  |  |  |  |
| --- | --- | --- | --- |
| Gene | Forward primer | Reverse primer | Direction of Differential expression in microarray data |
| HAVCR2 | 5’-GACTCTAGCAGACAGTGGGATC -3’ | 5’-GGTGGTAAGCATCCTTGGAAAGG-3’ | up |
| IFNAR2 | 5’-ACCGTCCTAGAAGGATTCAGCG -3’ | 5’-CCAACAATCTCAAACTCTGGTGG-3’ | up |
| IL18R1 | 5’-GGAGGCACAGACACCAAAAGCT -3’ | 5’-AGGCACACTACTGCCACCAAGA-3’ | up |
| IL2RG | 5’-CACTCTGTGGAAGTGCTCAGCA -3’ | 5’-GAGCCAACAGAGATAACCACGG-3’ | up |
| IL7R | 5’-ATCGCAGCACTCACTGACCTGT -3’ | 5’-TCAGGCACTTTACCTCCACGAG-3’ | up |
| SIGLEC10 | 5’-ATCGCAGCACTCACTGACCTGT -3’ | 5’-TCAGGCACTTTACCTCCACGAG-3’ | up |
| TLR8 | 5’-ACTCCAGCAGTTTCCTCGTCTC -3’ | 5’-AAAGCCAGAGGGTAGGTGGGAA-3’ | up |
| TNFSF4 | 5’-CCTACATCTGCCTGCACTTCTC -3’ | 5’-TGATGACTGAGTTGTTCTGCACC-3’ | up |
| MMP7 | 5’-TCGGAGGAGATGCTCACTTCGA -3’ | 5’-GGATCAGAGGAATGTCCCATACC-3’ | up |
| UGT2B7 | 5’-CCTTAGGTCTCAATACTCGGCTG -3’ | 5’-CTCGTAGATGCCATTGGCTCCA-3’ | down |
| VNN1 | 5’-GGCATTTGACGGACTGCACACT-3’ | 5’-CGAAAGTGCCACTGAGGGAGAA-3’ | down |
| KHK | 5’-AATGCCTCCGTCATCTTCAGCC -3’ | 5’-ACCTGCTCTCACACGATGCCAT-3’ | down |
| MBL2 | 5’-AGTAGCCTGGCTGCCTCAGAA -3’ | 5’-CACCATTGGTCAGGAAGAACTTG-3’ | down |
| GAPDH | 5’-GTCTCCTCTGACTTCAACAGCG-3’ | 5’-ACCACCCTGTTGCTGTAGCCAA-3’ | Housekeeping gene |
| 18S rRNA | 5’-TGTTCAACACGGGGATTGGGCA-3’ | 5’-CAGGTCCAACTTCCAGCACTAC-3’ | Housekeeping gene |

**Appendix 2 List of gene entities (n=2142) found to be differentially expressed in liver tissue from patients with fulminant hepatitis E as compared to normal liver tissue, as also in patients with fulminant hepatitis B as compared to normal liver tissue.**

| **Probe ID** | **Gene symbol** | **Fulminant hepatitis B** | | **Fulminant hepatitis E** | |
| --- | --- | --- | --- | --- | --- |
|  | **Fold change** | **Regulation** | **Fold change** | **Regulation** |
| 4390398 | LCN2 | 42.16 | Up | 22.17 | Up |
| 6020300 | IL1RL1 | 30.65 | Up | 20.84 | Up |
| 4610520 | GCNT3 | 23.12 | Up | 8.13 | Up |
| 6060630 | KRT19 | 20.21 | Up | 10.10 | Up |
| 110181 | KIAA1199 | 18.07 | Up | 17.57 | Up |
| 2470678 | PI15 | 17.95 | Up | 6.79 | Up |
| 6940270 | MUC13 | 16.57 | Up | 4.89 | Up |
| 5420754 | IL1RL1 | 15.79 | Up | 10.91 | Up |
| 3840154 | SPP1 | 15.23 | Up | 20.14 | Up |
| 6040626 | CA9 | 14.16 | Up | 5.46 | Up |
| 3460070 | SPP1 | 14.11 | Up | 19.45 | Up |
| 2120612 | SGPP2 | 14.09 | Up | 12.48 | Up |
| 6770131 | OLFM4 | 12.99 | Up | 10.05 | Up |
| 150474 | CA12 | 11.90 | Up | 3.87 | Up |
| 780465 | SLC11A1 | 11.33 | Up | 9.14 | Up |
| 5050681 | TESC | 10.33 | Up | 7.63 | Up |
| 6110037 | LILRA3 | 10.08 | Up | 16.94 | Up |
| 3940017 | LOX | 9.60 | Up | 4.45 | Up |
| 4070575 | TACSTD1 | 9.37 | Up | 8.45 | Up |
| 110719 | SLC16A3 | 9.36 | Up | 7.24 | Up |
| 5490692 | SEZ6L2 | 8.96 | Up | 7.99 | Up |
| 7150292 | TRNP1 | 8.79 | Up | 4.14 | Up |
| 6960142 | COL1A1 | 8.69 | Up | 7.08 | Up |
| 2360452 | PFKP | 8.65 | Up | 6.07 | Up |
| 7650026 | MUC1 | 8.62 | Up | 5.09 | Up |
| 3930424 | CLIC6 | 8.25 | Up | 7.53 | Up |
| 1570382 | ADAMTS9 | 8.20 | Up | 6.41 | Up |
| 6060612 | COL1A2 | 8.08 | Up | 5.65 | Up |
| 5910431 | COL4A1 | 8.00 | Up | 7.25 | Up |
| 4810730 | SYT13 | 7.92 | Up | 7.88 | Up |
| 7200601 | MUC1 | 7.89 | Up | 4.34 | Up |
| 5910113 | VCAN | 7.82 | Up | 4.53 | Up |
| 7100021 | C1orf106 | 7.49 | Up | 4.88 | Up |
| 7000307 | ACSL4 | 7.43 | Up | 3.94 | Up |
| 130021 | IL2RA | 7.42 | Up | 4.16 | Up |
| 4120193 | PROM2 | 7.37 | Up | 3.60 | Up |
| 4180364 | GOLM1 | 7.28 | Up | 4.01 | Up |
| 610437 | CD24 | 7.25 | Up | 5.85 | Up |
| 6270138 | TACSTD2 | 7.21 | Up | 4.38 | Up |
| 2470184 | ADAMDEC1 | 7.13 | Up | 6.07 | Up |
| 2340681 | RARRES1 | 7.13 | Up | 5.05 | Up |
| 730754 | PAPPA | 7.07 | Up | 4.81 | Up |
| 6250192 | COL6A3 | 7.03 | Up | 7.37 | Up |
| 60670 | LXN | 6.99 | Up | 6.22 | Up |
| 1300706 | MTHFD2 | 6.83 | Up | 7.84 | Up |
| 2600164 | THBS2 | 6.80 | Up | 7.31 | Up |
| 6280605 | BAIAP2L2 | 6.76 | Up | 4.14 | Up |
| 50195 | RAB25 | 6.68 | Up | 5.91 | Up |
| 5130563 | GFPT2 | 6.54 | Up | 5.12 | Up |
| 60349 | MAPK13 | 6.50 | Up | 4.06 | Up |
| 6760475 | COL4A2 | 6.47 | Up | 5.97 | Up |
| 940474 | SRPX2 | 6.45 | Up | 6.89 | Up |
| 4560736 | SLCO4A1 | 6.30 | Up | 5.01 | Up |
| 6270437 | FJX1 | 6.19 | Up | 6.99 | Up |
| 2640068 | RNASE2 | 6.14 | Up | 5.92 | Up |
| 1010132 | RARRES1 | 6.11 | Up | 5.56 | Up |
| 7510731 | WBP5 | 6.08 | Up | 7.78 | Up |
| 6200370 | LILRA3 | 5.99 | Up | 7.98 | Up |
| 2120360 | SYN1 | 5.98 | Up | 6.05 | Up |
| 5090156 | NBL1 | 5.97 | Up | 5.80 | Up |
| 7650017 | SERPINH1 | 5.96 | Up | 4.70 | Up |
| 5090347 | CD24 | 5.96 | Up | 3.53 | Up |
| 3890541 | ITGA2 | 5.83 | Up | 5.26 | Up |
| 3940482 | CDR2L | 5.82 | Up | 6.64 | Up |
| 7650497 | ELANE | 5.77 | Up | 7.75 | Up |
| 1190142 | EMILIN2 | 5.72 | Up | 6.32 | Up |
| 2940446 | TGM2 | 5.68 | Up | 3.77 | Up |
| 7150019 | OLFML2B | 5.64 | Up | 4.54 | Up |
| 5080021 | BIRC3 | 5.53 | Up | 3.99 | Up |
| 3710553 | SMOX | 5.52 | Up | 4.99 | Up |
| 3420288 | PDPN | 5.50 | Up | 6.25 | Up |
| 60630 | GLA | 5.48 | Up | 4.65 | Up |
| 50192 | DARC | 5.47 | Up | 7.23 | Up |
| 2360356 | FSTL3 | 5.39 | Up | 5.94 | Up |
| 270068 | SMOX | 5.38 | Up | 4.98 | Up |
| 3780092 | TNFRSF21 | 5.38 | Up | 5.34 | Up |
| 3190148 | DDIT4 | 5.38 | Up | 5.40 | Up |
| 5670465 | ADM | 5.38 | Up | 4.69 | Up |
| 6270743 | FAM3B | 5.37 | Up | 4.95 | Up |
| 6620689 | MTHFD2 | 5.34 | Up | 6.55 | Up |
| 5810743 | LOC387882 | 5.34 | Up | 4.07 | Up |
| 6840215 | ECT2 | 5.32 | Up | 3.28 | Up |
| 6180133 | ITPR3 | 5.30 | Up | 4.57 | Up |
| 160170 | PKM2 | 5.27 | Up | 4.97 | Up |
| 5260367 | CDCP1 | 5.22 | Up | 4.68 | Up |
| 4890241 | GPR56 | 5.22 | Up | 4.68 | Up |
| 7210647 | NKD2 | 5.20 | Up | 5.89 | Up |
| 110592 | SUSD2 | 5.16 | Up | 6.97 | Up |
| 5860010 | CDS1 | 5.15 | Up | 3.95 | Up |
| 4210403 | SLC1A3 | 5.10 | Up | 3.98 | Up |
| 1090307 | RNASE1 | 5.10 | Up | 5.04 | Up |
| 1240730 | SPINT2 | 5.10 | Up | 4.94 | Up |
| 7610615 | SLC6A10P | 5.09 | Up | 6.18 | Up |
| 360132 | LHFPL2 | 5.07 | Up | 4.34 | Up |
| 2470114 | COL6A3 | 5.06 | Up | 4.77 | Up |
| 2680327 | ITGA3 | 5.05 | Up | 3.75 | Up |
| 4010296 | RNASE1 | 5.04 | Up | 4.60 | Up |
| 3610072 | A4GALT | 5.03 | Up | 4.33 | Up |
| 5720768 |  | 5.03 | Up | 5.09 | Up |
| 1660196 | HK1 | 5.00 | Up | 5.86 | Up |
| 2370132 | TNFRSF11B | 4.96 | Up | 4.94 | Up |
| 2630474 | MLLT11 | 4.94 | Up | 3.86 | Up |
| 6590253 | ALDOA | 4.93 | Up | 4.58 | Up |
| 4590370 | SLC2A1 | 4.91 | Up | 4.15 | Up |
| 1990278 | FCGR2A | 4.90 | Up | 4.20 | Up |
| 7100010 | NBL1 | 4.90 | Up | 4.78 | Up |
| 1510088 | ATP1B3 | 4.88 | Up | 4.44 | Up |
| 1170170 | STC2 | 4.88 | Up | 4.47 | Up |
| 6330201 | OVOL2 | 4.84 | Up | 4.64 | Up |
| 2060291 | STOM | 4.83 | Up | 7.15 | Up |
| 2120053 | CYP1B1 | 4.83 | Up | 4.30 | Up |
| 5490768 | GPR56 | 4.82 | Up | 4.77 | Up |
| 1030008 | TGFB3 | 4.82 | Up | 5.83 | Up |
| 4220632 | ATP1B3 | 4.80 | Up | 3.90 | Up |
| 3170270 | PDZK1IP1 | 4.79 | Up | 3.47 | Up |
| 2680722 | HIF1A | 4.79 | Up | 4.36 | Up |
| 6980470 | TMPRSS3 | 4.78 | Up | 3.72 | Up |
| 7400452 | PROM1 | 4.78 | Up | 9.87 | Up |
| 5690519 | PLTP | 4.77 | Up | 5.99 | Up |
| 630470 | C19orf33 | 4.77 | Up | 2.50 | Up |
| 2360719 | IRAK3 | 4.74 | Up | 5.32 | Up |
| 7150661 | HK2 | 4.73 | Up | 3.34 | Up |
| 2650730 | STC1 | 4.71 | Up | 4.30 | Up |
| 110682 | S100A11 | 4.70 | Up | 4.42 | Up |
| 1410730 | VSIG4 | 4.65 | Up | 5.15 | Up |
| 4560110 | ARMET | 4.63 | Up | 3.45 | Up |
| 4040671 | COL1A2 | 4.61 | Up | 3.87 | Up |
| 1450161 | C5orf46 | 4.56 | Up | 4.11 | Up |
| 3780082 | TMEM125 | 4.55 | Up | 4.53 | Up |
| 1690630 | FAM43A | 4.53 | Up | 4.24 | Up |
| 4490292 | COL5A2 | 4.53 | Up | 3.66 | Up |
| 6480204 | THY1 | 4.51 | Up | 4.40 | Up |
| 1500010 | CDC20 | 4.50 | Up | 2.97 | Up |
| 4220347 | LRRC1 | 4.47 | Up | 4.10 | Up |
| 1470551 | SEL1L3 | 4.44 | Up | 3.97 | Up |
| 4120053 | PFKFB3 | 4.44 | Up | 4.06 | Up |
| 5340338 | E2F2 | 4.42 | Up | 3.64 | Up |
| 1470669 | TNC | 4.42 | Up | 5.35 | Up |
| 6280167 | LOC401115 | 4.41 | Up | 4.70 | Up |
| 360114 | CTXN1 | 4.40 | Up | 2.90 | Up |
| 6580711 | AEBP1 | 4.40 | Up | 7.23 | Up |
| 3370202 | ANXA2P1 | 4.40 | Up | 3.07 | Up |
| 2030093 | PKM2 | 4.39 | Up | 3.68 | Up |
| 5670424 | GNA15 | 4.37 | Up | 4.24 | Up |
| 1510538 | EPB41L3 | 4.33 | Up | 3.69 | Up |
| 7210154 | BIRC3 | 4.32 | Up | 3.58 | Up |
| 160097 | MELK | 4.31 | Up | 2.83 | Up |
| 7560138 | PMP22 | 4.31 | Up | 5.11 | Up |
| 4180079 | CRISPLD2 | 4.31 | Up | 6.22 | Up |
| 7650433 | TIMP1 | 4.30 | Up | 4.50 | Up |
| 2480546 | GJA4 | 4.30 | Up | 5.91 | Up |
| 6940017 | GJA1 | 4.29 | Up | 3.99 | Up |
| 1430487 | MGP | 4.29 | Up | 3.68 | Up |
| 3190685 | SLC35F2 | 4.26 | Up | 4.54 | Up |
| 130131 | ACSL4 | 4.24 | Up | 3.01 | Up |
| 1260040 | EFEMP1 | 4.24 | Up | 4.06 | Up |
| 2470689 | SPHK1 | 4.22 | Up | 5.00 | Up |
| 2900674 | IGSF3 | 4.21 | Up | 3.39 | Up |
| 1400592 | LRRC32 | 4.18 | Up | 6.55 | Up |
| 1710484 | FMOD | 4.16 | Up | 4.33 | Up |
| 770463 | PDLIM3 | 4.13 | Up | 4.55 | Up |
| 6060730 | HK2 | 4.12 | Up | 2.89 | Up |
| 4200450 | G6PD | 4.11 | Up | 3.74 | Up |
| 360475 | PLAUR | 4.10 | Up | 2.54 | Up |
| 4760626 | MMP12 | 4.10 | Up | 2.64 | Up |
| 4040746 | TEAD4 | 4.10 | Up | 3.84 | Up |
| 4280482 | DRAM1 | 4.10 | Up | 4.15 | Up |
| 7560487 | CD163 | 4.09 | Up | 4.15 | Up |
| 1050356 | LPAR1 | 4.08 | Up | 5.80 | Up |
| 4260278 | ST14 | 4.07 | Up | 3.78 | Up |
| 1580161 | NETO2 | 4.07 | Up | 3.48 | Up |
| 770754 | TTYH3 | 4.06 | Up | 5.60 | Up |
| 5860767 | SPINT1 | 4.05 | Up | 3.10 | Up |
| 3870291 | MFSD6 | 4.04 | Up | 3.70 | Up |
| 6590341 | RAB31 | 4.04 | Up | 4.25 | Up |
| 7320441 | C7orf68 | 4.03 | Up | 2.94 | Up |
| 6040577 | SLAMF8 | 4.03 | Up | 4.98 | Up |
| 450762 | FCGR2A | 4.02 | Up | 3.65 | Up |
| 3800168 | SLC2A3 | 4.01 | Up | 4.93 | Up |
| 4860546 | CTHRC1 | 4.01 | Up | 2.53 | Up |
| 5860039 | CALB2 | 3.99 | Up | 4.89 | Up |
| 940487 | FUT3 | 3.97 | Up | 3.48 | Up |
| 630609 | XYLT1 | 3.97 | Up | 4.48 | Up |
| 3940132 | ITGB4 | 3.97 | Up | 3.37 | Up |
| 60215 | CDCP1 | 3.96 | Up | 3.43 | Up |
| 6350189 | MGC4677 | 3.95 | Up | 5.27 | Up |
| 3390128 | TPM2 | 3.95 | Up | 3.83 | Up |
| 1240201 | BACE2 | 3.94 | Up | 3.12 | Up |
| 830047 | GSTP1 | 3.93 | Up | 4.35 | Up |
| 2120021 | COL3A1 | 3.93 | Up | 3.22 | Up |
| 2650753 | KIAA1324L | 3.92 | Up | 7.28 | Up |
| 4810497 | DMKN | 3.91 | Up | 2.51 | Up |
| 3370092 | STK39 | 3.90 | Up | 4.12 | Up |
| 5090079 | C1QTNF1 | 3.90 | Up | 4.96 | Up |
| 1990753 | SLA | 3.90 | Up | 3.96 | Up |
| 2030132 | LOC653506 | 3.90 | Up | 4.20 | Up |
| 3710196 | DDR1 | 3.88 | Up | 2.97 | Up |
| 4150689 | METRNL | 3.87 | Up | 4.52 | Up |
| 6330008 | PDLIM3 | 3.85 | Up | 4.48 | Up |
| 380102 | TMEM51 | 3.84 | Up | 4.82 | Up |
| 6220195 | BATF | 3.84 | Up | 4.13 | Up |
| 2470017 | LILRB3 | 3.83 | Up | 4.26 | Up |
| 2690187 | AFAP1 | 3.81 | Up | 4.60 | Up |
| 3390458 | COL6A2 | 3.81 | Up | 4.64 | Up |
| 2230241 | F13A1 | 3.80 | Up | 3.17 | Up |
| 7150762 | PTGIS | 3.79 | Up | 5.18 | Up |
| 160370 | TPM2 | 3.79 | Up | 3.70 | Up |
| 6760008 | DBN1 | 3.77 | Up | 3.73 | Up |
| 6180719 | C1QTNF1 | 3.77 | Up | 5.32 | Up |
| 4890563 | TMEM54 | 3.75 | Up | 2.46 | Up |
| 3990619 | TOP2A | 3.74 | Up | 2.84 | Up |
| 3930201 | ARMCX2 | 3.73 | Up | 3.42 | Up |
| 6940609 | PDGFRA | 3.72 | Up | 5.42 | Up |
| 5690139 | PDGFD | 3.72 | Up | 3.94 | Up |
| 730523 | CLIP2 | 3.71 | Up | 4.30 | Up |
| 6420168 | DBNDD2 | 3.71 | Up | 4.08 | Up |
| 6660475 | FGR | 3.71 | Up | 4.75 | Up |
| 7100435 | RASEF | 3.70 | Up | 4.42 | Up |
| 5720438 | LOC493869 | 3.70 | Up | 2.98 | Up |
| 2710524 | MAP1B | 3.69 | Up | 4.03 | Up |
| 2650220 | FSTL1 | 3.68 | Up | 3.15 | Up |
| 990743 | DMKN | 3.68 | Up | 2.37 | Up |
| 1400240 | LDHB | 3.67 | Up | 3.55 | Up |
| 4120561 | LIMK2 | 3.66 | Up | 3.20 | Up |
| 5090626 | FAP | 3.66 | Up | 3.92 | Up |
| 620008 | M6PRBP1 | 3.64 | Up | 2.93 | Up |
| 4490687 | GBGT1 | 3.64 | Up | 2.94 | Up |
| 4920369 | COL5A1 | 3.64 | Up | 3.17 | Up |
| 7570598 | COL6A1 | 3.63 | Up | 4.21 | Up |
| 2900360 | KIR2DL4 | 3.62 | Up | 4.03 | Up |
| 10379 | ST6GALNAC4 | 3.61 | Up | 2.79 | Up |
| 2810315 | S100A6 | 3.60 | Up | 2.86 | Up |
| 5560075 | MFGE8 | 3.59 | Up | 4.74 | Up |
| 6280224 | CYP26B1 | 3.59 | Up | 5.02 | Up |
| 5080192 | SERPINE2 | 3.58 | Up | 3.99 | Up |
| 6270411 | GAS1 | 3.58 | Up | 2.54 | Up |
| 3170273 | FER1L3 | 3.58 | Up | 4.34 | Up |
| 6020037 | JSRP1 | 3.57 | Up | 5.20 | Up |
| 3190121 | LYPD6B | 3.57 | Up | 2.98 | Up |
| 1430647 | TAX1BP3 | 3.56 | Up | 3.08 | Up |
| 1450471 | LOC202134 | 3.56 | Up | 5.49 | Up |
| 2690209 | ITGAV | 3.54 | Up | 3.07 | Up |
| 510468 | NFE2 | 3.54 | Up | 2.87 | Up |
| 20241 | SLC7A1 | 3.53 | Up | 3.49 | Up |
| 6180465 | SLC2A6 | 3.53 | Up | 4.96 | Up |
| 7610338 | CDH3 | 3.52 | Up | 2.29 | Up |
| 1440709 | CILP | 3.51 | Up | 3.23 | Up |
| 1340593 | GPC3 | 3.51 | Up | 4.69 | Up |
| 3800161 | KRT7 | 3.51 | Up | 3.61 | Up |
| 2140360 | INF2 | 3.50 | Up | 2.39 | Up |
| 1400711 | ANXA8 | 3.50 | Up | 2.71 | Up |
| 3130240 | PDGFRA | 3.48 | Up | 6.61 | Up |
| 7210398 | GYPC | 3.47 | Up | 4.69 | Up |
| 50309 | DPYSL4 | 3.47 | Up | 3.45 | Up |
| 1510296 | ASNS | 3.46 | Up | 2.94 | Up |
| 5870164 | SLA | 3.46 | Up | 3.32 | Up |
| 270762 |  | 3.45 | Up | 4.79 | Up |
| 2140121 | BASP1 | 3.45 | Up | 3.13 | Up |
| 3940079 | C3orf52 | 3.45 | Up | 2.24 | Up |
| 3420523 | RHBDF2 | 3.45 | Up | 3.56 | Up |
| 6760167 | Mar-03 | 3.45 | Up | 3.46 | Up |
| 1940524 | STS-1 | 3.44 | Up | 4.82 | Up |
| 730221 | PTPLA | 3.43 | Up | 2.40 | Up |
| 160019 | SORT1 | 3.43 | Up | 3.83 | Up |
| 3190592 | KIAA1644 | 3.42 | Up | 3.23 | Up |
| 7320382 | SLC38A1 | 3.42 | Up | 3.41 | Up |
| 5420592 | SRC | 3.41 | Up | 3.86 | Up |
| 430465 | G6PD | 3.40 | Up | 3.03 | Up |
| 4480445 | PDGFD | 3.40 | Up | 3.54 | Up |
| 6180259 | HSPB8 | 3.40 | Up | 3.61 | Up |
| 3460132 | PAQR4 | 3.39 | Up | 3.74 | Up |
| 2710605 | FMNL2 | 3.38 | Up | 3.03 | Up |
| 5720445 | SLC35F2 | 3.38 | Up | 3.67 | Up |
| 5870307 | LOC440359 | 3.38 | Up | 2.98 | Up |
| 150100 | S100A3 | 3.37 | Up | 2.25 | Up |
| 3370632 | OSMR | 3.36 | Up | 3.11 | Up |
| 5910600 | FAM57A | 3.36 | Up | 3.26 | Up |
| 5080280 | SEMA4B | 3.35 | Up | 2.99 | Up |
| 20593 | CD163 | 3.35 | Up | 4.28 | Up |
| 430161 | SLCO2A1 | 3.35 | Up | 4.87 | Up |
| 6420050 | NPTX2 | 3.35 | Up | 5.18 | Up |
| 6100615 | CD93 | 3.35 | Up | 3.36 | Up |
| 3520601 | MPO | 3.35 | Up | 3.94 | Up |
| 4220041 | SLC12A2 | 3.34 | Up | 3.70 | Up |
| 3140242 | KIR2DL3 | 3.33 | Up | 3.81 | Up |
| 2630746 | LAMB1 | 3.33 | Up | 3.55 | Up |
| 2320129 | CSDA | 3.33 | Up | 2.85 | Up |
| 4900133 | SRPX | 3.33 | Up | 3.62 | Up |
| 6290437 | MTHFD1L | 3.33 | Up | 2.97 | Up |
| 4260368 | UBE2C | 3.32 | Up | 2.91 | Up |
| 830022 | SLC12A2 | 3.30 | Up | 3.66 | Up |
| 4480017 | SLC22A15 | 3.30 | Up | 2.78 | Up |
| 6250139 | F2RL3 | 3.30 | Up | 3.86 | Up |
| 2600682 | SYTL3 | 3.29 | Up | 3.17 | Up |
| 1980328 | CACNB3 | 3.29 | Up | 2.94 | Up |
| 6100450 | RHOJ | 3.28 | Up | 2.45 | Up |
| 3180053 | FAM129B | 3.27 | Up | 4.01 | Up |
| 380050 | RHBDF2 | 3.25 | Up | 3.63 | Up |
| 1510291 | PTTG1 | 3.25 | Up | 3.42 | Up |
| 1780673 | SAP30 | 3.23 | Up | 2.34 | Up |
| 5720180 | FZD2 | 3.23 | Up | 4.18 | Up |
| 1940162 | GBP2 | 3.23 | Up | 3.66 | Up |
| 3450072 | CLIC1 | 3.22 | Up | 2.91 | Up |
| 1470296 | LAMA2 | 3.22 | Up | 6.15 | Up |
| 650689 | CLIP3 | 3.21 | Up | 4.84 | Up |
| 2600154 | HSPB6 | 3.21 | Up | 4.48 | Up |
| 4230475 | SOX9 | 3.20 | Up | 3.96 | Up |
| 2450201 | ABCC4 | 3.20 | Up | 2.79 | Up |
| 1450348 | TMC4 | 3.20 | Up | 3.14 | Up |
| 1240152 | CFD | 3.18 | Up | 2.76 | Up |
| 1740343 | PCSK5 | 3.18 | Up | 3.48 | Up |
| 2000300 | IFI30 | 3.18 | Up | 3.99 | Up |
| 3440243 | RHOJ | 3.17 | Up | 2.62 | Up |
| 1850300 | TC2N | 3.17 | Up | 3.25 | Up |
| 4640500 | UCHL1 | 3.16 | Up | 2.36 | Up |
| 1510392 | LAMB1 | 3.16 | Up | 3.74 | Up |
| 2470220 | SRGAP1 | 3.16 | Up | 3.98 | Up |
| 1170349 | LAD1 | 3.15 | Up | 2.04 | Up |
| 5570187 | S1PR3 | 3.15 | Up | 4.64 | Up |
| 5090132 | EHF | 3.15 | Up | 3.37 | Up |
| 6330132 | ISG20 | 3.15 | Up | 2.85 | Up |
| 6980632 | LMTK3 | 3.15 | Up | 2.76 | Up |
| 510703 | KBTBD9 | 3.15 | Up | 3.38 | Up |
| 3370730 | CDC42EP5 | 3.14 | Up | 3.57 | Up |
| 5820035 | NFE2L3 | 3.13 | Up | 4.14 | Up |
| 1780068 | MAPK7 | 3.13 | Up | 3.49 | Up |
| 5960332 | SLC39A10 | 3.12 | Up | 2.91 | Up |
| 4780072 | TCEAL3 | 3.12 | Up | 4.26 | Up |
| 1440088 | ASPHD1 | 3.11 | Up | 2.66 | Up |
| 3120037 | C5orf30 | 3.11 | Up | 2.13 | Up |
| 1690370 | TMEM132A | 3.11 | Up | 2.41 | Up |
| 3870577 | MFSD10 | 3.11 | Up | 3.23 | Up |
| 3710044 | PLAT | 3.11 | Up | 3.75 | Up |
| 1090521 | SEZ6L2 | 3.11 | Up | 2.92 | Up |
| 2570328 | TRIB2 | 3.11 | Up | 3.89 | Up |
| 5810504 | METRNL | 3.10 | Up | 3.21 | Up |
| 150463 | CDCP1 | 3.10 | Up | 2.49 | Up |
| 50402 | ENO2 | 3.10 | Up | 2.88 | Up |
| 2600397 | RPESP | 3.10 | Up | 3.88 | Up |
| 5860152 | CD44 | 3.09 | Up | 2.99 | Up |
| 520086 | FCGR1A | 3.09 | Up | 4.34 | Up |
| 360181 | LAMA2 | 3.09 | Up | 5.46 | Up |
| 7610433 | SLC1A5 | 3.09 | Up | 3.53 | Up |
| 2490364 | LUM | 3.08 | Up | 3.47 | Up |
| 6400148 | SELM | 3.07 | Up | 3.90 | Up |
| 2230731 | BACE2 | 3.07 | Up | 2.87 | Up |
| 6620292 | C10orf54 | 3.07 | Up | 3.20 | Up |
| 5310471 | UBE2C | 3.06 | Up | 2.57 | Up |
| 4230332 | HS3ST1 | 3.06 | Up | 3.85 | Up |
| 4780615 | ANXA2 | 3.06 | Up | 2.67 | Up |
| 6400397 | PXDN | 3.05 | Up | 2.87 | Up |
| 2970370 | PCDH17 | 3.05 | Up | 2.65 | Up |
| 5550408 | TMED3 | 3.03 | Up | 2.62 | Up |
| 3290088 | C11orf9 | 3.03 | Up | 2.36 | Up |
| 2470092 | SLCO3A1 | 3.02 | Up | 4.01 | Up |
| 2640768 | CTSC | 3.02 | Up | 3.54 | Up |
| 4560164 | PDLIM7 | 3.02 | Up | 2.95 | Up |
| 730739 | TCEAL3 | 3.02 | Up | 4.37 | Up |
| 4210050 | WDR54 | 3.02 | Up | 2.91 | Up |
| 2140239 | CMTM7 | 3.02 | Up | 4.61 | Up |
| 1820053 | SLC43A2 | 3.01 | Up | 3.48 | Up |
| 5550431 | MMD | 3.01 | Up | 2.27 | Up |
| 650678 | TAGLN | 3.01 | Up | 3.32 | Up |
| 3120431 | IMPDH1 | 3.00 | Up | 2.88 | Up |
| 4220241 | LOC284023 | 2.99 | Up | 3.18 | Up |
| 3800050 | ADCY3 | 2.98 | Up | 4.09 | Up |
| 290181 | PROCR | 2.98 | Up | 3.61 | Up |
| 2030091 | EPS8L1 | 2.98 | Up | 2.13 | Up |
| 240400 | PMEPA1 | 2.98 | Up | 4.28 | Up |
| 430431 | TRIP10 | 2.98 | Up | 3.25 | Up |
| 4560193 | CD44 | 2.97 | Up | 2.46 | Up |
| 4250626 | PPAP2C | 2.97 | Up | 2.55 | Up |
| 7560541 | SLC2A5 | 2.97 | Up | 2.82 | Up |
| 4780523 | TMEM200A | 2.97 | Up | 5.91 | Up |
| 1940274 | IFI27L2 | 2.97 | Up | 3.26 | Up |
| 7400653 | PFKFB4 | 2.97 | Up | 2.59 | Up |
| 380014 | SLC25A19 | 2.97 | Up | 2.59 | Up |
| 4670255 | Mar-03 | 2.97 | Up | 2.95 | Up |
| 1410168 | ELF4 | 2.97 | Up | 3.02 | Up |
| 1110139 | C9orf167 | 2.97 | Up | 3.22 | Up |
| 7570673 | UPP1 | 2.96 | Up | 3.10 | Up |
| 2710064 | LOC387763 | 2.96 | Up | 4.32 | Up |
| 5910524 | TPM4 | 2.96 | Up | 3.07 | Up |
| 3060128 | CHSY1 | 2.96 | Up | 3.37 | Up |
| 2650608 | CCNA2 | 2.96 | Up | 2.38 | Up |
| 50095 | METRNL | 2.96 | Up | 3.17 | Up |
| 1030239 | SCRN1 | 2.96 | Up | 4.04 | Up |
| 6330079 | EGFL6 | 2.96 | Up | 2.48 | Up |
| 6110181 | ABCC4 | 2.95 | Up | 2.43 | Up |
| 7650524 | BCAT1 | 2.94 | Up | 2.74 | Up |
| 4260139 | AKR1B1 | 2.94 | Up | 2.54 | Up |
| 4540682 | PALM | 2.94 | Up | 4.34 | Up |
| 1850072 | KCNE4 | 2.94 | Up | 3.96 | Up |
| 6860441 | TPM4 | 2.93 | Up | 3.14 | Up |
| 3710068 | WARS | 2.93 | Up | 3.62 | Up |
| 7400102 | ASPHD2 | 2.93 | Up | 2.28 | Up |
| 1190437 | SH3PXD2B | 2.92 | Up | 3.08 | Up |
| 6250019 | SHC1 | 2.92 | Up | 2.41 | Up |
| 2140528 | GPR172A | 2.92 | Up | 2.67 | Up |
| 5050519 | RHOQ | 2.91 | Up | 3.85 | Up |
| 3190452 | DNAJB11 | 2.91 | Up | 2.17 | Up |
| 6770242 | MARCKSL1 | 2.90 | Up | 3.07 | Up |
| 5690167 | SEMA3F | 2.90 | Up | 2.49 | Up |
| 6550762 | FBLN2 | 2.90 | Up | 3.80 | Up |
| 3360646 | MVP | 2.90 | Up | 2.78 | Up |
| 7210605 | BTG3 | 2.90 | Up | 2.80 | Up |
| 4570358 | CNTNAP1 | 2.89 | Up | 2.93 | Up |
| 4120086 | LAMC1 | 2.89 | Up | 3.36 | Up |
| 4590438 | LOC124220 | 2.89 | Up | 2.48 | Up |
| 6350608 | PNMA1 | 2.88 | Up | 2.57 | Up |
| 3990403 | MXRA7 | 2.87 | Up | 3.34 | Up |
| 4230626 | PRKCD | 2.86 | Up | 3.01 | Up |
| 7400286 | HMGA1 | 2.86 | Up | 2.35 | Up |
| 3140438 | GRAMD1A | 2.85 | Up | 2.88 | Up |
| 1400689 | JAM3 | 2.85 | Up | 3.46 | Up |
| 1300500 | ZNF827 | 2.85 | Up | 3.22 | Up |
| 6280240 | SH3BGRL3 | 2.84 | Up | 2.82 | Up |
| 2570291 | IFNGR2 | 2.84 | Up | 2.94 | Up |
| 730332 | MSN | 2.84 | Up | 3.75 | Up |
| 6580164 | PHF21A | 2.84 | Up | 2.93 | Up |
| 4920390 | ROR2 | 2.83 | Up | 4.02 | Up |
| 6940402 | CUTL1 | 2.83 | Up | 2.93 | Up |
| 5490019 | GPX3 | 2.83 | Up | 3.00 | Up |
| 2680386 | PSCDBP | 2.83 | Up | 2.26 | Up |
| 7650020 | AADACL1 | 2.82 | Up | 2.71 | Up |
| 2190184 | PRSS23 | 2.82 | Up | 3.57 | Up |
| 4730739 | RPS6KA1 | 2.81 | Up | 2.99 | Up |
| 610358 | PGS1 | 2.81 | Up | 2.47 | Up |
| 20647 | ANTXR1 | 2.80 | Up | 4.01 | Up |
| 2260603 | RNF145 | 2.80 | Up | 3.01 | Up |
| 3830309 | USH1C | 2.80 | Up | 2.93 | Up |
| 1430347 | SLC7A6 | 2.79 | Up | 2.98 | Up |
| 5570427 | GLS | 2.79 | Up | 3.00 | Up |
| 2510091 | COL8A1 | 2.79 | Up | 3.50 | Up |
| 1780259 | CCDC109B | 2.79 | Up | 3.36 | Up |
| 360619 | FGR | 2.78 | Up | 3.21 | Up |
| 6860202 | TKT | 2.78 | Up | 2.17 | Up |
| 2060040 | ADORA2B | 2.78 | Up | 2.45 | Up |
| 6760719 | EMILIN1 | 2.78 | Up | 4.88 | Up |
| 6580634 | GPR4 | 2.77 | Up | 3.41 | Up |
| 2680411 | PTGFRN | 2.77 | Up | 2.11 | Up |
| 2140288 | FLJ22662 | 2.77 | Up | 2.58 | Up |
| 5360070 | CCNB2 | 2.77 | Up | 2.40 | Up |
| 4290142 | LPCAT1 | 2.76 | Up | 3.16 | Up |
| 5960044 | CDCP1 | 2.76 | Up | 2.28 | Up |
| 3830129 | VASH2 | 2.76 | Up | 2.34 | Up |
| 6270274 | HSPA2 | 2.76 | Up | 2.85 | Up |
| 6330091 | CD7 | 2.76 | Up | 4.03 | Up |
| 3360112 | TMEM2 | 2.76 | Up | 2.66 | Up |
| 620047 | BNIP3L | 2.75 | Up | 3.03 | Up |
| 2030612 | LDLRAD3 | 2.75 | Up | 3.39 | Up |
| 6270301 | RAB33A | 2.74 | Up | 4.51 | Up |
| 3440452 | ADAM15 | 2.74 | Up | 2.77 | Up |
| 2070494 | PRC1 | 2.74 | Up | 2.39 | Up |
| 4070711 | FAM129B | 2.74 | Up | 3.54 | Up |
| 7570148 | LMNB2 | 2.74 | Up | 2.57 | Up |
| 1850349 | HEPH | 2.74 | Up | 3.60 | Up |
| 5560110 | DLG4 | 2.74 | Up | 3.10 | Up |
| 3310307 | C21orf63 | 2.73 | Up | 3.39 | Up |
| 270358 | FRAS1 | 2.73 | Up | 4.48 | Up |
| 270609 | ANXA2P1 | 2.73 | Up | 2.13 | Up |
| 2570008 | PIP5K1C | 2.73 | Up | 3.36 | Up |
| 2260471 | ABLIM2 | 2.73 | Up | 3.80 | Up |
| 4250452 | DNAJC10 | 2.72 | Up | 2.40 | Up |
| 3420465 |  | 2.72 | Up | 2.28 | Up |
| 6200408 | ME2 | 2.71 | Up | 2.17 | Up |
| 5090289 | EFNB2 | 2.71 | Up | 2.76 | Up |
| 5960068 | PDGFRB | 2.71 | Up | 4.43 | Up |
| 1940100 | TMEM184B | 2.71 | Up | 3.10 | Up |
| 6960215 | PITPNM1 | 2.71 | Up | 2.04 | Up |
| 1740497 | RAB8B | 2.70 | Up | 2.81 | Up |
| 4210670 | PAM | 2.70 | Up | 3.21 | Up |
| 2680092 | CD163 | 2.70 | Up | 3.08 | Up |
| 7210170 | DSE | 2.70 | Up | 3.92 | Up |
| 6180554 | SVEP1 | 2.70 | Up | 4.08 | Up |
| 130364 | C5orf62 | 2.69 | Up | 3.61 | Up |
| 4590561 | LOC91461 | 2.69 | Up | 2.64 | Up |
| 130022 | CDCA5 | 2.69 | Up | 2.07 | Up |
| 7210192 | ADA | 2.69 | Up | 2.01 | Up |
| 3800215 | KIAA0514 | 2.69 | Up | 2.71 | Up |
| 6020327 | DENND2D | 2.68 | Up | 2.77 | Up |
| 4780411 | LRP8 | 2.67 | Up | 2.55 | Up |
| 20673 | BSG | 2.67 | Up | 2.36 | Up |
| 6510707 | FER1L3 | 2.67 | Up | 2.58 | Up |
| 3870242 | SLC25A36 | 2.67 | Up | 2.44 | Up |
| 4490037 | SLC34A2 | 2.66 | Up | 3.21 | Up |
| 5720136 | RAB34 | 2.66 | Up | 2.81 | Up |
| 4200441 | SEC14L1 | 2.66 | Up | 2.40 | Up |
| 6560131 | FAM135A | 2.66 | Up | 2.30 | Up |
| 4230021 | NCK2 | 2.66 | Up | 3.18 | Up |
| 3400598 | WIPI1 | 2.66 | Up | 2.84 | Up |
| 360626 | CMIP | 2.66 | Up | 3.54 | Up |
| 7560037 | KIAA1949 | 2.66 | Up | 3.11 | Up |
| 5820193 | TYRO3 | 2.66 | Up | 2.85 | Up |
| 3610671 | SCD5 | 2.65 | Up | 2.94 | Up |
| 2640369 | VIL2 | 2.65 | Up | 2.59 | Up |
| 1050195 | KIF20A | 2.65 | Up | 2.31 | Up |
| 5310286 | SPA17 | 2.64 | Up | 2.39 | Up |
| 5670100 | TCN2 | 2.64 | Up | 3.38 | Up |
| 2000286 | C8orf16 | 2.64 | Up | 3.01 | Up |
| 3870497 | FUT8 | 2.64 | Up | 2.31 | Up |
| 2650762 | ITM2C | 2.63 | Up | 3.74 | Up |
| 830735 | CENTA1 | 2.63 | Up | 3.24 | Up |
| 4610753 | ENG | 2.62 | Up | 3.68 | Up |
| 770132 | TSPYL5 | 2.62 | Up | 2.97 | Up |
| 4230500 | SLC44A3 | 2.62 | Up | 2.22 | Up |
| 5900497 | PLXDC2 | 2.62 | Up | 4.09 | Up |
| 4560541 | MLKL | 2.61 | Up | 2.34 | Up |
| 6280332 | CXCL16 | 2.60 | Up | 3.03 | Up |
| 430747 | PECAM1 | 2.60 | Up | 2.50 | Up |
| 540465 | ENPP5 | 2.60 | Up | 2.49 | Up |
| 1660750 | WBP5 | 2.60 | Up | 2.61 | Up |
| 5910187 | SDHALP1 | 2.60 | Up | 2.23 | Up |
| 6590484 | NAP1L1 | 2.59 | Up | 2.48 | Up |
| 6520646 | IQGAP1 | 2.59 | Up | 2.66 | Up |
| 3370736 | SOX4 | 2.59 | Up | 2.32 | Up |
| 7400017 | EPHB6 | 2.59 | Up | 3.25 | Up |
| 3190239 | GRK5 | 2.59 | Up | 2.92 | Up |
| 6620008 | KAL1 | 2.59 | Up | 2.81 | Up |
| 7330392 | TAP1 | 2.59 | Up | 3.00 | Up |
| 7040709 | IGF2BP2 | 2.59 | Up | 2.63 | Up |
| 2190689 | OSBPL5 | 2.58 | Up | 4.02 | Up |
| 620240 | ABR | 2.58 | Up | 3.24 | Up |
| 3930343 | ALOX5AP | 2.58 | Up | 3.06 | Up |
| 2480195 | NOS3 | 2.58 | Up | 3.12 | Up |
| 7150609 | ADAMTS2 | 2.58 | Up | 3.92 | Up |
| 2650709 | CDH11 | 2.58 | Up | 3.26 | Up |
| 1500301 | TRO | 2.58 | Up | 2.79 | Up |
| 4920066 | SFMBT2 | 2.58 | Up | 4.02 | Up |
| 6250435 | ARHGEF3 | 2.58 | Up | 3.81 | Up |
| 6380370 | CCND3 | 2.57 | Up | 3.48 | Up |
| 5690475 | LAYN | 2.57 | Up | 2.30 | Up |
| 3870594 | IFI16 | 2.57 | Up | 2.94 | Up |
| 2970563 | RPRC1 | 2.57 | Up | 3.15 | Up |
| 7560440 | ADORA2A | 2.56 | Up | 3.68 | Up |
| 940630 | MOBKL2B | 2.55 | Up | 2.39 | Up |
| 3890709 | SMAD7 | 2.55 | Up | 3.05 | Up |
| 1780402 | SEPN1 | 2.55 | Up | 3.45 | Up |
| 3400538 | IGFBP7 | 2.55 | Up | 3.34 | Up |
| 1710270 | GRRP1 | 2.55 | Up | 2.86 | Up |
| 5870136 | CLIC3 | 2.55 | Up | 2.61 | Up |
| 4260088 | C17orf28 | 2.54 | Up | 2.49 | Up |
| 2690324 | ITPRIP | 2.54 | Up | 3.75 | Up |
| 6860753 | TSPO | 2.54 | Up | 2.30 | Up |
| 4120411 | ARHGEF2 | 2.54 | Up | 3.34 | Up |
| 5720075 | ITGA8 | 2.54 | Up | 4.05 | Up |
| 70672 | TCIRG1 | 2.54 | Up | 2.53 | Up |
| 6580754 | PPAP2C | 2.54 | Up | 2.22 | Up |
| 3360452 | COL8A1 | 2.53 | Up | 3.12 | Up |
| 4830433 | LARP6 | 2.53 | Up | 3.09 | Up |
| 70592 | VCL | 2.53 | Up | 2.80 | Up |
| 4150132 | PLXNA3 | 2.53 | Up | 2.10 | Up |
| 5050427 | FKBP1A | 2.53 | Up | 2.40 | Up |
| 4070392 | CYBA | 2.53 | Up | 3.69 | Up |
| 2680110 | TM4SF1 | 2.53 | Up | 2.36 | Up |
| 870110 | C15orf39 | 2.52 | Up | 3.28 | Up |
| 6650161 | GNA13 | 2.51 | Up | 2.20 | Up |
| 3610228 | PEA15 | 2.51 | Up | 3.25 | Up |
| 5690246 | SPIRE1 | 2.51 | Up | 2.73 | Up |
| 240274 | IL1R1 | 2.50 | Up | 2.46 | Up |
| 4210095 | ATP1A1 | 2.50 | Up | 2.22 | Up |
| 4560717 | MDK | 2.50 | Up | 2.61 | Up |
| 5420377 | LGALS3 | 2.50 | Up | 2.22 | Up |
| 4290403 | CMTM7 | 2.50 | Up | 3.01 | Up |
| 3140110 | C18orf10 | 2.49 | Up | 2.15 | Up |
| 650324 | ZDHHC13 | 2.49 | Up | 2.29 | Up |
| 450619 | AQP1 | 2.49 | Up | 2.99 | Up |
| 5910500 | SYT11 | 2.49 | Up | 3.27 | Up |
| 5570152 | ATP1A1 | 2.48 | Up | 2.06 | Up |
| 6180050 | STK24 | 2.48 | Up | 2.46 | Up |
| 3930736 | CHST3 | 2.48 | Up | 3.34 | Up |
| 6370435 | ETS1 | 2.48 | Up | 3.46 | Up |
| 510687 | ALDH1A2 | 2.48 | Up | 3.56 | Up |
| 4010730 | COL4A4 | 2.48 | Up | 3.43 | Up |
| 3140364 | PTPN12 | 2.48 | Up | 2.60 | Up |
| 5900471 | PTGER2 | 2.48 | Up | 2.02 | Up |
| 3370164 | ATP1A1 | 2.47 | Up | 2.28 | Up |
| 3780053 | PALLD | 2.47 | Up | 2.36 | Up |
| 6860162 | LOC441019 | 2.47 | Up | 2.62 | Up |
| 2970397 | ZNF296 | 2.47 | Up | 2.63 | Up |
| 5890451 | CTNNA1 | 2.46 | Up | 2.38 | Up |
| 4670131 | MYO10 | 2.46 | Up | 2.74 | Up |
| 6040376 | FAM127A | 2.46 | Up | 2.80 | Up |
| 4860093 | LOC653888 | 2.46 | Up | 2.63 | Up |
| 1110228 | TMEM136 | 2.46 | Up | 2.20 | Up |
| 4210634 | QSOX1 | 2.46 | Up | 2.74 | Up |
| 780270 | TIMP2 | 2.46 | Up | 3.47 | Up |
| 2350279 | TMEM44 | 2.46 | Up | 2.80 | Up |
| 3460520 | CCND2 | 2.46 | Up | 2.95 | Up |
| 1470332 | FXYD5 | 2.45 | Up | 3.24 | Up |
| 6580039 | PKM2 | 2.45 | Up | 2.20 | Up |
| 4540164 | PACS1 | 2.45 | Up | 3.47 | Up |
| 6650278 | KCNK6 | 2.45 | Up | 2.39 | Up |
| 840528 | TRIM47 | 2.45 | Up | 2.39 | Up |
| 3130543 | RNASE3 | 2.44 | Up | 2.32 | Up |
| 5960440 | VDR | 2.44 | Up | 2.18 | Up |
| 5860477 | CANX | 2.44 | Up | 2.54 | Up |
| 1070450 | PTGS1 | 2.44 | Up | 2.41 | Up |
| 7320594 | ZYX | 2.44 | Up | 2.97 | Up |
| 5130093 | PHLDB1 | 2.44 | Up | 3.49 | Up |
| 160291 | MVP | 2.43 | Up | 2.48 | Up |
| 3800554 | FOXF1 | 2.43 | Up | 3.80 | Up |
| 1990468 | ADD3 | 2.43 | Up | 2.82 | Up |
| 7160373 | FUT4 | 2.42 | Up | 2.53 | Up |
| 4180088 | ABL1 | 2.42 | Up | 2.58 | Up |
| 5290463 | NME5 | 2.42 | Up | 2.40 | Up |
| 1400044 | HSPA12A | 2.42 | Up | 2.81 | Up |
| 5260156 | LOC642489 | 2.42 | Up | 2.23 | Up |
| 4860224 | WARS | 2.41 | Up | 3.44 | Up |
| 2000685 | SMPDL3B | 2.41 | Up | 2.70 | Up |
| 7000609 | ARRDC2 | 2.41 | Up | 2.82 | Up |
| 7400735 | LUM | 2.41 | Up | 2.35 | Up |
| 4900685 | AGTRAP | 2.41 | Up | 2.13 | Up |
| 2940577 | HSPA2 | 2.40 | Up | 2.89 | Up |
| 5720369 | THBD | 2.40 | Up | 2.76 | Up |
| 6330204 | ITPKC | 2.40 | Up | 2.22 | Up |
| 6200736 | HRB | 2.40 | Up | 2.50 | Up |
| 5270132 | CBLB | 2.40 | Up | 3.63 | Up |
| 7380193 | ARPC3 | 2.39 | Up | 2.81 | Up |
| 580148 | CYLN2 | 2.39 | Up | 2.65 | Up |
| 110685 | SYK | 2.39 | Up | 3.48 | Up |
| 5960181 | ASNS | 2.38 | Up | 2.02 | Up |
| 2230156 | C15orf52 | 2.38 | Up | 2.65 | Up |
| 670528 | GYG1 | 2.38 | Up | 2.21 | Up |
| 3170093 | KIAA0247 | 2.38 | Up | 3.20 | Up |
| 1470184 | CLSTN1 | 2.38 | Up | 3.66 | Up |
| 5490184 | FAM102B | 2.38 | Up | 2.48 | Up |
| 3170064 | MICB | 2.38 | Up | 2.91 | Up |
| 3450113 | C9orf125 | 2.38 | Up | 2.28 | Up |
| 5900482 | HMGB2 | 2.37 | Up | 2.22 | Up |
| 4880408 | SEMA4D | 2.37 | Up | 3.55 | Up |
| 5860377 | ABCG1 | 2.37 | Up | 2.15 | Up |
| 1980553 | ADAM15 | 2.37 | Up | 2.28 | Up |
| 2640471 | RNF24 | 2.37 | Up | 2.70 | Up |
| 1820528 | PAPSS1 | 2.37 | Up | 2.19 | Up |
| 1070451 | ANXA5 | 2.37 | Up | 2.95 | Up |
| 7000431 | MPZL1 | 2.36 | Up | 2.33 | Up |
| 5870424 | TSHZ3 | 2.36 | Up | 3.60 | Up |
| 1580520 | PTPN13 | 2.36 | Up | 3.00 | Up |
| 6940176 | ACTR3 | 2.36 | Up | 2.05 | Up |
| 610598 | CHI3L2 | 2.36 | Up | 2.88 | Up |
| 6200369 | PPP1CB | 2.36 | Up | 2.72 | Up |
| 2710142 | IER5L | 2.36 | Up | 3.05 | Up |
| 4230167 |  | 2.36 | Up | 2.38 | Up |
| 5260561 | TRO | 2.36 | Up | 2.39 | Up |
| 4670398 | TEAD2 | 2.36 | Up | 2.75 | Up |
| 6270241 | TPD52L2 | 2.35 | Up | 2.32 | Up |
| 3800470 | MBOAT7 | 2.35 | Up | 2.05 | Up |
| 4010075 | XPR1 | 2.35 | Up | 2.22 | Up |
| 1110156 | TRPV6 | 2.35 | Up | 2.62 | Up |
| 50129 | FHOD1 | 2.35 | Up | 2.81 | Up |
| 6350600 | DTX2 | 2.35 | Up | 2.31 | Up |
| 110575 | KIAA0672 | 2.35 | Up | 3.24 | Up |
| 3440358 | SLFN11 | 2.35 | Up | 2.78 | Up |
| 4280524 | LEPREL1 | 2.35 | Up | 2.92 | Up |
| 4760338 | CDC25B | 2.34 | Up | 2.20 | Up |
| 5080523 | EHD2 | 2.34 | Up | 2.13 | Up |
| 6100411 | FKBP14 | 2.34 | Up | 2.00 | Up |
| 2450246 | OSBPL5 | 2.34 | Up | 3.26 | Up |
| 2680072 | OLFM1 | 2.33 | Up | 3.02 | Up |
| 3870707 | ZNF702P | 2.33 | Up | 2.24 | Up |
| 3290685 | DPYSL2 | 2.33 | Up | 2.97 | Up |
| 1230524 | ST6GALNAC3 | 2.33 | Up | 2.44 | Up |
| 1770044 | SEC14L1 | 2.33 | Up | 2.22 | Up |
| 2060047 | B4GALT5 | 2.33 | Up | 2.27 | Up |
| 4880201 | RERG | 2.32 | Up | 3.54 | Up |
| 4070201 | C20orf55 | 2.32 | Up | 3.02 | Up |
| 620543 | SLC4A7 | 2.32 | Up | 2.75 | Up |
| 3460296 | HDGFRP3 | 2.32 | Up | 2.44 | Up |
| 7570358 | NPC1 | 2.31 | Up | 2.06 | Up |
| 290086 | LZTR1 | 2.31 | Up | 2.51 | Up |
| 7550333 | PACSIN2 | 2.31 | Up | 2.25 | Up |
| 1710189 | RHBDF1 | 2.31 | Up | 3.33 | Up |
| 10079 | F3 | 2.31 | Up | 3.36 | Up |
| 4900086 | HAPLN3 | 2.31 | Up | 3.07 | Up |
| 2340692 | NOTCH3 | 2.31 | Up | 2.90 | Up |
| 2450762 | IKBKE | 2.31 | Up | 2.80 | Up |
| 5690491 | SLCO3A1 | 2.30 | Up | 2.96 | Up |
| 3190608 | SLC6A9 | 2.30 | Up | 2.08 | Up |
| 7650142 | TMSB10 | 2.30 | Up | 2.31 | Up |
| 3190609 | SBNO2 | 2.30 | Up | 2.59 | Up |
| 5080471 | MAP3K6 | 2.30 | Up | 3.16 | Up |
| 1570598 | ITGB4 | 2.29 | Up | 2.05 | Up |
| 7510670 | CACNA1C | 2.29 | Up | 2.48 | Up |
| 3190474 | TUSC3 | 2.29 | Up | 2.59 | Up |
| 1500524 | PHC2 | 2.28 | Up | 2.07 | Up |
| 4390543 | ATN1 | 2.28 | Up | 3.32 | Up |
| 10414 | PTTG1 | 2.28 | Up | 2.33 | Up |
| 1940368 | NRSN2 | 2.28 | Up | 3.09 | Up |
| 4290730 | LGALS3BP | 2.27 | Up | 2.64 | Up |
| 4120538 | LOC731314 | 2.27 | Up | 2.05 | Up |
| 1690170 | PLEKHG2 | 2.27 | Up | 2.26 | Up |
| 5080364 | ACTN1 | 2.27 | Up | 2.68 | Up |
| 2340408 | MAPK3 | 2.27 | Up | 2.37 | Up |
| 1240253 | CTTNBP2NL | 2.27 | Up | 2.26 | Up |
| 6180253 | CDC42EP2 | 2.27 | Up | 2.83 | Up |
| 1690465 | LOC650369 | 2.27 | Up | 2.84 | Up |
| 2850021 | QSOX1 | 2.27 | Up | 2.15 | Up |
| 1850259 | NFIC | 2.27 | Up | 2.49 | Up |
| 2630044 | NRIP3 | 2.27 | Up | 2.12 | Up |
| 830278 | GLIPR2 | 2.27 | Up | 2.91 | Up |
| 6560017 | GLIS3 | 2.26 | Up | 4.09 | Up |
| 130187 | PAPSS1 | 2.26 | Up | 2.37 | Up |
| 540091 | STEAP4 | 2.26 | Up | 2.83 | Up |
| 2640192 | BNIP3L | 2.26 | Up | 2.47 | Up |
| 5890347 | FERMT1 | 2.26 | Up | 2.16 | Up |
| 2230382 |  | 2.26 | Up | 2.08 | Up |
| 6840301 | NT5DC2 | 2.26 | Up | 2.25 | Up |
| 1820646 | ZNF462 | 2.25 | Up | 4.15 | Up |
| 4200743 | NBEAL2 | 2.25 | Up | 2.04 | Up |
| 730142 | LOC643287 | 2.25 | Up | 2.45 | Up |
| 940035 | SLC4A7 | 2.25 | Up | 2.62 | Up |
| 4920053 | BTG3 | 2.25 | Up | 2.59 | Up |
| 1660465 | FCRL5 | 2.24 | Up | 2.04 | Up |
| 3290739 | ARL2 | 2.24 | Up | 2.79 | Up |
| 4260414 | H2AFY | 2.24 | Up | 2.21 | Up |
| 7100382 | SPSB1 | 2.24 | Up | 2.83 | Up |
| 2510039 | ENDOD1 | 2.24 | Up | 3.11 | Up |
| 130347 | NDE1 | 2.24 | Up | 2.41 | Up |
| 4570670 | RRAS | 2.24 | Up | 2.72 | Up |
| 4540326 | PYGB | 2.24 | Up | 2.40 | Up |
| 2120402 | TES | 2.24 | Up | 2.07 | Up |
| 7160709 | HOMER3 | 2.23 | Up | 2.85 | Up |
| 5360424 | RPS6KA2 | 2.23 | Up | 2.53 | Up |
| 7560180 | SUSD1 | 2.23 | Up | 2.33 | Up |
| 60184 | NDN | 2.23 | Up | 3.31 | Up |
| 940356 | IL15RA | 2.23 | Up | 2.45 | Up |
| 1010477 | ADD3 | 2.23 | Up | 2.36 | Up |
| 2370348 | SYDE1 | 2.22 | Up | 3.12 | Up |
| 6130156 | RAB11FIP1 | 2.22 | Up | 2.23 | Up |
| 4810653 | YWHAH | 2.22 | Up | 2.29 | Up |
| 110440 | ITGB1 | 2.22 | Up | 2.08 | Up |
| 6840184 | GRN | 2.22 | Up | 2.55 | Up |
| 3710605 | MYO1C | 2.22 | Up | 2.40 | Up |
| 1070435 | GAS7 | 2.22 | Up | 3.82 | Up |
| 3290431 | UNC45A | 2.21 | Up | 2.12 | Up |
| 4250711 | GPR177 | 2.21 | Up | 2.38 | Up |
| 3460053 | SIPA1L2 | 2.21 | Up | 2.16 | Up |
| 6330553 | DYRK2 | 2.21 | Up | 2.69 | Up |
| 1170332 | AAK1 | 2.21 | Up | 2.31 | Up |
| 4120133 | HYAL2 | 2.21 | Up | 3.24 | Up |
| 3440037 | PALM | 2.21 | Up | 3.07 | Up |
| 6100180 | EFEMP2 | 2.20 | Up | 2.88 | Up |
| 1990379 | SLFN11 | 2.20 | Up | 2.67 | Up |
| 3360678 | NRXN2 | 2.20 | Up | 2.20 | Up |
| 150148 | MAP1S | 2.20 | Up | 2.70 | Up |
| 780162 | SEPN1 | 2.20 | Up | 2.90 | Up |
| 6510528 | VPS37C | 2.19 | Up | 2.36 | Up |
| 5260537 | YEATS2 | 2.19 | Up | 2.13 | Up |
| 3990136 | PTPN12 | 2.19 | Up | 2.21 | Up |
| 4050161 | STX6 | 2.19 | Up | 2.11 | Up |
| 5390095 | RASSF2 | 2.19 | Up | 2.89 | Up |
| 540139 | NFKBIE | 2.19 | Up | 2.18 | Up |
| 730576 | SPRY4 | 2.19 | Up | 2.86 | Up |
| 7380546 | FXYD5 | 2.19 | Up | 2.76 | Up |
| 1070754 | CAP1 | 2.18 | Up | 2.33 | Up |
| 7000577 | GYPC | 2.18 | Up | 3.10 | Up |
| 7160202 | SNCA | 2.18 | Up | 2.33 | Up |
| 2900041 | H2AFY2 | 2.18 | Up | 2.93 | Up |
| 1170072 | ZSWIM4 | 2.18 | Up | 2.61 | Up |
| 4180376 | PI4K2A | 2.18 | Up | 2.30 | Up |
| 5910632 | SMARCD3 | 2.18 | Up | 2.51 | Up |
| 4070626 | VANGL2 | 2.17 | Up | 3.10 | Up |
| 3190288 | LYL1 | 2.17 | Up | 2.72 | Up |
| 5700324 | UBL4A | 2.17 | Up | 2.20 | Up |
| 6650672 | ZNF439 | 2.17 | Up | 2.43 | Up |
| 5090095 | KIFC1 | 2.17 | Up | 2.11 | Up |
| 6060484 | MARCKS | 2.17 | Up | 2.37 | Up |
| 2000110 | BRSK1 | 2.17 | Up | 2.47 | Up |
| 940288 | BAZ1A | 2.16 | Up | 2.46 | Up |
| 7100561 | FAM176B | 2.16 | Up | 2.83 | Up |
| 6650348 | LAPTM4B | 2.15 | Up | 2.19 | Up |
| 7610730 | DOCK11 | 2.15 | Up | 2.59 | Up |
| 2690598 | SCPEP1 | 2.15 | Up | 2.38 | Up |
| 2480487 | STX6 | 2.15 | Up | 2.22 | Up |
| 2490537 | TNFRSF1B | 2.15 | Up | 2.04 | Up |
| 5860402 | GLDN | 2.15 | Up | 2.39 | Up |
| 580132 | LAPTM4B | 2.15 | Up | 2.08 | Up |
| 2470358 | IFNGR1 | 2.15 | Up | 2.32 | Up |
| 6200753 | SWAP70 | 2.15 | Up | 2.19 | Up |
| 3390402 | TRPV6 | 2.15 | Up | 2.29 | Up |
| 5900730 | USH1C | 2.14 | Up | 2.19 | Up |
| 4050687 | DLL1 | 2.14 | Up | 3.45 | Up |
| 3870484 | LUZP1 | 2.14 | Up | 2.67 | Up |
| 630706 | NACC2 | 2.14 | Up | 2.09 | Up |
| 2030441 | SPATS2 | 2.14 | Up | 2.39 | Up |
| 4810398 | C20orf75 | 2.14 | Up | 2.48 | Up |
| 2650020 | PWWP2B | 2.14 | Up | 2.21 | Up |
| 6550209 | KIF2A | 2.14 | Up | 2.40 | Up |
| 2370703 | BBX | 2.14 | Up | 2.36 | Up |
| 1340360 | RCC2 | 2.13 | Up | 2.67 | Up |
| 7050326 | CDKN2D | 2.13 | Up | 2.56 | Up |
| 4390703 | PTPN1 | 2.13 | Up | 2.43 | Up |
| 1410408 | ARID5B | 2.13 | Up | 3.76 | Up |
| 3180408 | C3orf21 | 2.12 | Up | 2.46 | Up |
| 3800647 | UGCG | 2.12 | Up | 2.71 | Up |
| 940706 | AP1S2 | 2.12 | Up | 2.13 | Up |
| 7100072 | PFKM | 2.12 | Up | 2.45 | Up |
| 4880537 | LIMA1 | 2.12 | Up | 2.24 | Up |
| 7570600 | FLJ33590 | 2.12 | Up | 3.43 | Up |
| 4880563 | MPRIP | 2.12 | Up | 2.23 | Up |
| 2810468 | SSH2 | 2.12 | Up | 2.74 | Up |
| 5720424 | NRP1 | 2.12 | Up | 3.25 | Up |
| 650066 | ITGB1 | 2.12 | Up | 2.18 | Up |
| 3460014 | C4orf18 | 2.12 | Up | 2.38 | Up |
| 2070100 | ST6GALNAC3 | 2.11 | Up | 2.25 | Up |
| 940041 | TWSG1 | 2.11 | Up | 2.34 | Up |
| 1770561 | ITGA11 | 2.11 | Up | 2.33 | Up |
| 2570131 | HPS1 | 2.11 | Up | 2.27 | Up |
| 1070402 | CANX | 2.11 | Up | 2.20 | Up |
| 3830041 | PMEPA1 | 2.11 | Up | 2.87 | Up |
| 5860356 | PTPRM | 2.11 | Up | 2.67 | Up |
| 6400386 | MAP4K2 | 2.11 | Up | 2.38 | Up |
| 5340521 |  | 2.11 | Up | 2.18 | Up |
| 7320041 | CHST15 | 2.11 | Up | 3.20 | Up |
| 4730731 | LRCH2 | 2.10 | Up | 2.31 | Up |
| 7150259 | C7orf49 | 2.10 | Up | 2.13 | Up |
| 5870482 | KDM5B | 2.10 | Up | 2.32 | Up |
| 7550048 | CERCAM | 2.10 | Up | 2.48 | Up |
| 670598 | RPP25 | 2.10 | Up | 2.45 | Up |
| 4200068 | NUP62 | 2.10 | Up | 2.37 | Up |
| 7000072 | ASAP1 | 2.09 | Up | 3.27 | Up |
| 5900435 | TAOK1 | 2.09 | Up | 2.68 | Up |
| 4250458 | CFL1 | 2.09 | Up | 2.01 | Up |
| 4590619 | PNMA2 | 2.09 | Up | 2.05 | Up |
| 6020719 | RAB23 | 2.09 | Up | 2.26 | Up |
| 6400402 | FAM110A | 2.09 | Up | 3.07 | Up |
| 6770376 | NSMAF | 2.09 | Up | 2.17 | Up |
| 780600 | HCP5 | 2.09 | Up | 2.30 | Up |
| 6960379 | SFRP1 | 2.09 | Up | 2.94 | Up |
| 5220632 | DEGS1 | 2.08 | Up | 2.16 | Up |
| 7560647 | CPT1C | 2.08 | Up | 2.10 | Up |
| 2940373 | TACC1 | 2.08 | Up | 3.39 | Up |
| 1470626 | CD97 | 2.08 | Up | 3.61 | Up |
| 1980521 | SLC44A2 | 2.08 | Up | 2.51 | Up |
| 2320286 | JARID2 | 2.08 | Up | 2.21 | Up |
| 2450110 | MMP23B | 2.08 | Up | 2.88 | Up |
| 5090615 | MFAP2 | 2.07 | Up | 2.95 | Up |
| 670278 | NES | 2.07 | Up | 3.26 | Up |
| 6450685 | PLXNA1 | 2.07 | Up | 2.41 | Up |
| 6060731 | MAPRE1 | 2.07 | Up | 2.09 | Up |
| 4010184 | C8orf13 | 2.07 | Up | 2.40 | Up |
| 4490017 | GLTP | 2.07 | Up | 2.08 | Up |
| 3130451 | HGF | 2.07 | Up | 2.38 | Up |
| 6450022 | LRRC16 | 2.07 | Up | 2.17 | Up |
| 6760593 | OSBPL10 | 2.06 | Up | 2.64 | Up |
| 3450020 | PTK7 | 2.06 | Up | 2.58 | Up |
| 7380202 | NR2F2 | 2.06 | Up | 2.43 | Up |
| 5720451 | CHST1 | 2.06 | Up | 2.10 | Up |
| 1230187 | CSNK1E | 2.06 | Up | 2.79 | Up |
| 7100326 | ATP13A2 | 2.05 | Up | 2.23 | Up |
| 2900068 | VCL | 2.05 | Up | 2.07 | Up |
| 6020632 | FAM109B | 2.05 | Up | 2.05 | Up |
| 4180343 | YWHAZ | 2.05 | Up | 2.07 | Up |
| 6900703 | ARHGEF10 | 2.05 | Up | 2.88 | Up |
| 3440025 | AGPAT4 | 2.05 | Up | 2.43 | Up |
| 6220278 | TSPAN14 | 2.05 | Up | 2.26 | Up |
| 1410192 | TDRD9 | 2.04 | Up | 2.14 | Up |
| 3610397 | ATP6V0C | 2.04 | Up | 2.02 | Up |
| 6250110 | TNS1 | 2.04 | Up | 3.31 | Up |
| 460463 | SMARCD3 | 2.04 | Up | 2.26 | Up |
| 2650102 | ZNF792 | 2.04 | Up | 2.08 | Up |
| 5270689 | HMGN4 | 2.04 | Up | 2.07 | Up |
| 5860192 |  | 2.04 | Up | 2.18 | Up |
| 6590201 | ATP6AP1 | 2.04 | Up | 2.11 | Up |
| 3390092 | PLEKHM2 | 2.04 | Up | 2.68 | Up |
| 670603 | PLAGL1 | 2.04 | Up | 2.09 | Up |
| 5220491 | VGLL4 | 2.04 | Up | 2.80 | Up |
| 3460097 | HOXB2 | 2.03 | Up | 2.21 | Up |
| 1070192 | AP1S2 | 2.03 | Up | 2.18 | Up |
| 3450600 | DYNC1H1 | 2.03 | Up | 2.10 | Up |
| 3930059 | E2F3 | 2.03 | Up | 2.68 | Up |
| 5260148 | EFCAB3 | 2.03 | Up | 2.02 | Up |
| 3520711 | MPV17 | 2.03 | Up | 2.24 | Up |
| 1240750 | SNTB2 | 2.03 | Up | 2.69 | Up |
| 1780619 | EHD1 | 2.03 | Up | 2.36 | Up |
| 6960209 | CBL | 2.02 | Up | 2.12 | Up |
| 770474 | LPHN1 | 2.02 | Up | 2.16 | Up |
| 3420128 | AP3M2 | 2.02 | Up | 2.24 | Up |
| 6280170 | PDCD1 | 2.02 | Up | 3.77 | Up |
| 520670 | ITGA11 | 2.02 | Up | 2.30 | Up |
| 2750356 | COL6A2 | 2.02 | Up | 2.77 | Up |
| 4780129 | CENPF | 2.02 | Up | 2.13 | Up |
| 5310168 | HLA-B | 2.02 | Up | 2.20 | Up |
| 1440376 | NTM | 2.01 | Up | 2.75 | Up |
| 4040128 | NFASC | 2.01 | Up | 2.33 | Up |
| 3870601 | MAPK3 | 2.01 | Up | 2.09 | Up |
| 1940438 | PGF | 2.01 | Up | 2.14 | Up |
| 6370164 | LEPROTL1 | 2.01 | Up | 2.26 | Up |
| 2450114 |  | 2.01 | Up | 2.72 | Up |
| 60603 | GLRB | 2.01 | Up | 2.36 | Up |
| 7380279 | GLT25D1 | 2.01 | Up | 2.29 | Up |
| 4010753 | RHOG | 2.01 | Up | 2.42 | Up |
| 6770209 | C2CD2 | 2.00 | Up | 2.77 | Up |
| 2140719 | KIR2DL4 | 2.00 | Up | 2.11 | Up |
| 2750039 | RBMS2 | 2.00 | Up | 2.25 | Up |
| 6350438 | SLC10A1 | 110.86 | Down | 191.69 | Down |
| 4070722 | HSD17B13 | 90.47 | Down | 117.89 | Down |
| 630743 | CYP3A4 | 82.13 | Down | 136.11 | Down |
| 1410019 | CYP1A2 | 64.37 | Down | 197.28 | Down |
| 1660482 | CYP2A6 | 64.36 | Down | 75.70 | Down |
| 990091 | HRG | 60.34 | Down | 176.42 | Down |
| 1300372 | SPP2 | 59.10 | Down | 74.56 | Down |
| 2760711 | PZP | 52.80 | Down | 71.41 | Down |
| 5810053 | GLYAT | 47.46 | Down | 46.44 | Down |
| 1770341 | AKR1D1 | 44.10 | Down | 65.29 | Down |
| 2120743 | GSTA2 | 43.67 | Down | 142.26 | Down |
| 6480189 | THRSP | 43.19 | Down | 116.33 | Down |
| 3370215 | JCLN | 41.14 | Down | 54.91 | Down |
| 2490520 | GSTA2 | 40.64 | Down | 160.91 | Down |
| 7210392 | LOC647169 | 38.46 | Down | 168.13 | Down |
| 5550440 | SLC6A1 | 38.28 | Down | 34.17 | Down |
| 7380286 | GNMT | 38.17 | Down | 48.14 | Down |
| 7160239 | FOSB | 37.79 | Down | 23.08 | Down |
| 4780202 | CYP2A7 | 36.60 | Down | 37.90 | Down |
| 130400 | APOF | 36.53 | Down | 86.69 | Down |
| 5260176 | GSTA1 | 36.38 | Down | 130.90 | Down |
| 6650152 | SLC22A1 | 36.29 | Down | 43.07 | Down |
| 7550632 | ADH4 | 36.16 | Down | 152.20 | Down |
| 1090561 | GSTA1 | 34.36 | Down | 121.13 | Down |
| 1570148 | LECT2 | 33.84 | Down | 120.68 | Down |
| 4900341 | GBA3 | 33.14 | Down | 16.68 | Down |
| 3440717 | APOC4 | 32.81 | Down | 88.85 | Down |
| 2140196 | HPX | 32.77 | Down | 145.24 | Down |
| 1010463 | BHMT | 30.95 | Down | 97.05 | Down |
| 4040441 | HSD17B6 | 29.69 | Down | 78.51 | Down |
| 6180475 | SERPINA11 | 29.68 | Down | 51.91 | Down |
| 4200041 | RDH16 | 29.47 | Down | 78.22 | Down |
| 1440377 | FETUB | 27.03 | Down | 50.18 | Down |
| 2030709 | TTR | 26.97 | Down | 51.94 | Down |
| 6350324 | GLYAT | 26.55 | Down | 28.95 | Down |
| 5550482 | G6PC | 26.48 | Down | 39.08 | Down |
| 5080670 | GBA3 | 26.15 | Down | 18.12 | Down |
| 3830735 | UPB1 | 26.13 | Down | 52.69 | Down |
| 130041 | NR1I3 | 25.87 | Down | 33.35 | Down |
| 3710180 | PON1 | 25.86 | Down | 33.14 | Down |
| 6510358 | LPA | 25.28 | Down | 27.43 | Down |
| 4490243 | HGFAC | 25.21 | Down | 70.50 | Down |
| 5490382 | ADH4 | 24.94 | Down | 95.47 | Down |
| 520202 | DMGDH | 24.85 | Down | 39.96 | Down |
| 4780431 | G6PC | 24.57 | Down | 38.36 | Down |
| 1850692 | LOC388503 | 24.44 | Down | 82.20 | Down |
| 3890154 | UGT2B10 | 23.52 | Down | 79.98 | Down |
| 670670 | LOC388503 | 23.51 | Down | 60.13 | Down |
| 1660564 | SLC6A1 | 23.28 | Down | 21.41 | Down |
| 6250646 | SLC27A5 | 23.04 | Down | 35.39 | Down |
| 6040086 | CYP3A7 | 22.50 | Down | 41.40 | Down |
| 5220730 | NR1I3 | 22.40 | Down | 27.79 | Down |
| 5050128 | CFHR4 | 22.12 | Down | 32.88 | Down |
| 3120601 | CFHR2 | 21.87 | Down | 48.12 | Down |
| 3450332 | PLG | 21.75 | Down | 61.49 | Down |
| 50500 | TAT | 21.69 | Down | 99.20 | Down |
| 6280070 | FTCD | 21.59 | Down | 21.72 | Down |
| 1980491 | BAAT | 21.47 | Down | 18.09 | Down |
| 1450646 | HSD17B13 | 20.70 | Down | 23.03 | Down |
| 6550452 | ACSM2A | 20.31 | Down | 26.58 | Down |
| 3180154 | HFE2 | 19.85 | Down | 38.81 | Down |
| 1440270 | SERPIND1 | 19.60 | Down | 33.56 | Down |
| 1010717 |  | 19.49 | Down | 33.51 | Down |
| 4050112 | MAT1A | 19.42 | Down | 53.54 | Down |
| 270709 | AGXT | 19.27 | Down | 101.07 | Down |
| 2940086 | LPA | 19.14 | Down | 35.39 | Down |
| 3840608 | HPR | 18.99 | Down | 40.50 | Down |
| 2000129 | TMPRSS6 | 18.97 | Down | 26.40 | Down |
| 1510750 | ADH1C | 18.92 | Down | 35.98 | Down |
| 3830022 | APOM | 18.85 | Down | 24.46 | Down |
| 7400240 | KLKB1 | 18.51 | Down | 21.96 | Down |
| 6580519 | F13B | 18.33 | Down | 32.88 | Down |
| 6660341 | ALDH1L1 | 18.23 | Down | 49.22 | Down |
| 3120681 | AFM | 18.02 | Down | 70.59 | Down |
| 3800035 | GLS2 | 17.91 | Down | 23.80 | Down |
| 7560372 | F9 | 17.77 | Down | 47.62 | Down |
| 6100095 | GCGR | 17.77 | Down | 66.40 | Down |
| 1450619 | KNG1 | 17.72 | Down | 37.42 | Down |
| 3400685 | OGDHL | 17.46 | Down | 16.95 | Down |
| 50279 | SERPINA11 | 17.26 | Down | 26.67 | Down |
| 5560328 | SLC38A3 | 17.16 | Down | 20.62 | Down |
| 780100 | F7 | 17.14 | Down | 30.84 | Down |
| 1660184 | GPR88 | 17.04 | Down | 14.78 | Down |
| 4760202 | ACSM2B | 17.02 | Down | 31.70 | Down |
| 4850092 | ACSM5 | 16.80 | Down | 25.77 | Down |
| 2650736 | AKR1C4 | 16.75 | Down | 49.05 | Down |
| 3390767 | CYP2C9 | 16.72 | Down | 85.88 | Down |
| 4810039 | PROC | 16.70 | Down | 20.56 | Down |
| 6480746 | PROZ | 16.60 | Down | 32.12 | Down |
| 1050561 | ANGPTL3 | 16.48 | Down | 85.08 | Down |
| 2470356 | SLC22A1 | 15.96 | Down | 20.09 | Down |
| 4810528 |  | 15.93 | Down | 18.11 | Down |
| 6520112 | AMDHD1 | 15.88 | Down | 26.33 | Down |
| 3610735 | F12 | 15.72 | Down | 32.12 | Down |
| 3870020 | SLC22A7 | 15.56 | Down | 40.30 | Down |
| 2000280 | HFE2 | 15.54 | Down | 22.24 | Down |
| 1170615 | OTC | 15.31 | Down | 46.39 | Down |
| 4120102 | CYP2A7 | 15.30 | Down | 16.35 | Down |
| 3170706 | ACSM2B | 15.29 | Down | 28.46 | Down |
| 160326 | LOC728811 | 15.18 | Down | 71.67 | Down |
| 2810221 | UGT2B15 | 15.12 | Down | 27.39 | Down |
| 5870672 | DNMT3L | 15.09 | Down | 15.45 | Down |
| 1230653 | CYP3A43 | 14.92 | Down | 16.47 | Down |
| 6590376 | SLC2A2 | 14.83 | Down | 9.15 | Down |
| 510164 | PKLR | 14.79 | Down | 24.02 | Down |
| 3460170 | MASP2 | 14.68 | Down | 28.78 | Down |
| 4210228 | PON3 | 14.63 | Down | 20.73 | Down |
| 5490593 | BDH1 | 14.58 | Down | 23.12 | Down |
| 4290110 | CYP4F3 | 14.51 | Down | 39.09 | Down |
| 1740300 | TFR2 | 14.33 | Down | 27.13 | Down |
| 3440408 | HPR | 14.31 | Down | 25.58 | Down |
| 3130592 |  | 14.24 | Down | 18.32 | Down |
| 5560148 | MLXIPL | 14.13 | Down | 12.08 | Down |
| 3780315 | CDO1 | 14.10 | Down | 31.12 | Down |
| 2750563 | PPP1R1A | 14.03 | Down | 22.94 | Down |
| 3610093 | CYP4A11 | 14.01 | Down | 13.46 | Down |
| 1110221 | LOC554235 | 13.81 | Down | 18.07 | Down |
| 1710719 | RGN | 13.80 | Down | 19.13 | Down |
| 3800053 | SHBG | 13.70 | Down | 18.91 | Down |
| 6520326 | CYP2C19 | 13.38 | Down | 20.09 | Down |
| 240041 | SLC22A10 | 13.27 | Down | 15.54 | Down |
| 5290553 | BDH1 | 13.27 | Down | 17.37 | Down |
| 5260551 | C8B | 13.20 | Down | 24.57 | Down |
| 1050563 | SERPINC1 | 13.09 | Down | 52.37 | Down |
| 2570209 | UGT2B4 | 13.06 | Down | 67.50 | Down |
| 580561 | ADCY1 | 12.67 | Down | 8.13 | Down |
| 2490612 | ADH1B | 12.67 | Down | 11.99 | Down |
| 6370138 | ALDH8A1 | 12.67 | Down | 21.30 | Down |
| 6220133 | HSD11B1 | 12.65 | Down | 13.57 | Down |
| 4200044 | DIO1 | 12.64 | Down | 28.68 | Down |
| 3440280 | CNGA1 | 12.59 | Down | 11.88 | Down |
| 2100711 | CYP2C8 | 12.59 | Down | 21.95 | Down |
| 4260008 | CFHR3 | 12.50 | Down | 20.53 | Down |
| 1110110 | SLC17A2 | 12.48 | Down | 38.44 | Down |
| 6200367 | FTCD | 12.48 | Down | 14.28 | Down |
| 3140465 | DIO1 | 12.47 | Down | 30.35 | Down |
| 3610136 | ACADSB | 12.45 | Down | 14.89 | Down |
| 6350035 | SRD5A2 | 12.41 | Down | 13.57 | Down |
| 6270181 | AADAT | 12.21 | Down | 15.18 | Down |
| 270113 | LIPC | 11.95 | Down | 14.82 | Down |
| 3710575 | LOC647786 | 11.94 | Down | 19.03 | Down |
| 1170112 | LCAT | 11.94 | Down | 12.00 | Down |
| 3930372 | RNASE4 | 11.94 | Down | 38.38 | Down |
| 7050333 | HEPACAM | 11.92 | Down | 13.57 | Down |
| 730722 | ITIH2 | 11.88 | Down | 9.63 | Down |
| 5900689 |  | 11.77 | Down | 12.51 | Down |
| 4880736 | ACSM5 | 11.71 | Down | 14.19 | Down |
| 840521 | CA5A | 11.70 | Down | 34.73 | Down |
| 5870491 | CYP39A1 | 11.68 | Down | 12.90 | Down |
| 1470600 | APOA5 | 11.67 | Down | 53.52 | Down |
| 5130438 | PIPOX | 11.58 | Down | 24.17 | Down |
| 2070181 | ACOT12 | 11.56 | Down | 25.67 | Down |
| 7610403 | HAO1 | 11.56 | Down | 26.86 | Down |
| 110326 | RDH5 | 11.54 | Down | 14.47 | Down |
| 2260181 | SLC38A4 | 11.48 | Down | 20.15 | Down |
| 3060746 | SERPINA6 | 11.47 | Down | 12.84 | Down |
| 1010114 | ACOX2 | 11.32 | Down | 15.60 | Down |
| 510543 | RGN | 11.22 | Down | 15.98 | Down |
| 3400386 | BBOX1 | 11.22 | Down | 17.15 | Down |
| 70681 | PCK1 | 11.09 | Down | 48.87 | Down |
| 6840468 | HAL | 11.04 | Down | 22.48 | Down |
| 4120392 | PLA2G12B | 11.02 | Down | 27.69 | Down |
| 5270129 | SLCO1B1 | 10.96 | Down | 21.00 | Down |
| 3940292 | GATM | 10.94 | Down | 9.91 | Down |
| 6350753 | AGXT2 | 10.92 | Down | 23.12 | Down |
| 6960563 | IYD | 10.86 | Down | 10.99 | Down |
| 7200324 | AZGP1 | 10.85 | Down | 16.92 | Down |
| 3800368 | ADH6 | 10.85 | Down | 13.24 | Down |
| 5870010 | MLXIPL | 10.85 | Down | 10.44 | Down |
| 4920682 | GLYCTK | 10.84 | Down | 16.80 | Down |
| 2190102 | SERPINA7 | 10.82 | Down | 19.25 | Down |
| 270575 | CES4 | 10.81 | Down | 17.29 | Down |
| 450452 | DPYS | 10.79 | Down | 11.96 | Down |
| 7400433 | BCHE | 10.76 | Down | 16.16 | Down |
| 3360095 | ESR1 | 10.75 | Down | 6.31 | Down |
| 3120068 | ITIH1 | 10.75 | Down | 30.32 | Down |
| 1570021 | GLYATL1 | 10.66 | Down | 13.73 | Down |
| 2810709 | SLC22A7 | 10.65 | Down | 19.86 | Down |
| 4040520 | HAO2 | 10.62 | Down | 11.92 | Down |
| 990176 | RN7SK | 10.60 | Down | 16.79 | Down |
| 1470544 | PFKFB1 | 10.60 | Down | 14.30 | Down |
| 5560170 | UGT2B11 | 10.59 | Down | 34.52 | Down |
| 4210075 | BHMT2 | 10.58 | Down | 23.89 | Down |
| 6510400 | CPN1 | 10.57 | Down | 25.83 | Down |
| 2030414 | BCHE | 10.48 | Down | 18.69 | Down |
| 5290333 | ZNF533 | 10.28 | Down | 6.94 | Down |
| 3390280 | ACSM2B | 10.28 | Down | 18.99 | Down |
| 4670138 | SLC27A2 | 10.22 | Down | 32.23 | Down |
| 7040327 | ALDH5A1 | 10.16 | Down | 10.30 | Down |
| 6550132 | DAO | 10.12 | Down | 13.06 | Down |
| 2370594 | GSTA5 | 10.11 | Down | 9.90 | Down |
| 1740669 | APOH | 10.05 | Down | 22.80 | Down |
| 6420347 | PLGLB1 | 9.99 | Down | 23.42 | Down |
| 6580735 | ACSM3 | 9.97 | Down | 11.99 | Down |
| 6650273 | CYP4F2 | 9.93 | Down | 20.29 | Down |
| 4260575 | HMGCS2 | 9.89 | Down | 30.23 | Down |
| 940615 | IL1RAP | 9.86 | Down | 10.45 | Down |
| 7380112 | GLYAT | 9.78 | Down | 11.31 | Down |
| 4560497 | ETNK2 | 9.67 | Down | 10.16 | Down |
| 3360750 | GPR98 | 9.64 | Down | 15.15 | Down |
| 4880382 | EHHADH | 9.59 | Down | 23.13 | Down |
| 5810132 | HSD11B1 | 9.59 | Down | 8.39 | Down |
| 6960397 | EPHX2 | 9.54 | Down | 15.54 | Down |
| 2230598 | IGFALS | 9.52 | Down | 16.39 | Down |
| 6280039 | LOC285733 | 9.50 | Down | 10.20 | Down |
| 2350564 | UGT2B17 | 9.50 | Down | 14.95 | Down |
| 5570093 | PEMT | 9.46 | Down | 12.78 | Down |
| 4920097 | FIS | 9.44 | Down | 18.21 | Down |
| 2360546 |  | 9.43 | Down | 11.62 | Down |
| 3180379 | GPLD1 | 9.43 | Down | 12.00 | Down |
| 4280327 | C2orf82 | 9.40 | Down | 14.04 | Down |
| 730093 | SHD | 9.40 | Down | 10.25 | Down |
| 5080521 | PANK1 | 9.37 | Down | 14.82 | Down |
| 2350044 | LIPC | 9.34 | Down | 14.19 | Down |
| 5290458 | MASP2 | 9.29 | Down | 26.82 | Down |
| 2680600 | CCL16 | 9.28 | Down | 17.53 | Down |
| 7040372 | GPAM | 9.27 | Down | 16.60 | Down |
| 2750202 |  | 9.19 | Down | 11.21 | Down |
| 5310292 | CFHR5 | 9.15 | Down | 16.69 | Down |
| 3180243 | DNMT3L | 9.10 | Down | 9.81 | Down |
| 5820390 | CPB2 | 9.05 | Down | 11.68 | Down |
| 6370358 | C1orf168 | 9.00 | Down | 14.25 | Down |
| 2350243 | FMO5 | 9.00 | Down | 14.78 | Down |
| 6450066 | CUX2 | 8.99 | Down | 13.86 | Down |
| 5340142 | RCL1 | 8.99 | Down | 9.37 | Down |
| 2970209 | SLC47A1 | 8.98 | Down | 7.87 | Down |
| 1010730 | SCP2 | 8.92 | Down | 9.57 | Down |
| 2710044 | SLC39A5 | 8.92 | Down | 12.53 | Down |
| 5570050 | PBLD | 8.82 | Down | 13.77 | Down |
| 1400091 | FXYD1 | 8.79 | Down | 8.14 | Down |
| 2100546 | ALDH8A1 | 8.77 | Down | 15.20 | Down |
| 20180 | F11 | 8.74 | Down | 10.17 | Down |
| 60138 | CTH | 8.73 | Down | 14.54 | Down |
| 2640719 | RN7SK | 8.69 | Down | 8.54 | Down |
| 4050768 | CHST13 | 8.66 | Down | 10.33 | Down |
| 3060279 | ABCC6 | 8.64 | Down | 12.16 | Down |
| 1690450 | LOC649495 | 8.63 | Down | 12.19 | Down |
| 6040364 | PRODH2 | 8.63 | Down | 21.70 | Down |
| 2570487 | RTP3 | 8.48 | Down | 18.11 | Down |
| 4480091 | ASB9 | 8.47 | Down | 8.35 | Down |
| 7210037 | IGFBP1 | 8.40 | Down | 19.21 | Down |
| 240523 | TMEM166 | 8.38 | Down | 17.92 | Down |
| 70279 | TMEM195 | 8.36 | Down | 9.14 | Down |
| 2350296 | USH2A | 8.35 | Down | 9.91 | Down |
| 5080341 | SLC25A18 | 8.28 | Down | 10.77 | Down |
| 3890113 | SLC22A10 | 8.24 | Down | 8.75 | Down |
| 2690367 | ABCG8 | 8.23 | Down | 20.37 | Down |
| 2140600 | TTC36 | 8.15 | Down | 8.23 | Down |
| 2600039 | A1CF | 8.11 | Down | 8.72 | Down |
| 4900433 | AMBP | 8.11 | Down | 10.77 | Down |
| 4850576 | SLCO1B3 | 8.09 | Down | 10.15 | Down |
| 1450709 | CYP2D6 | 8.07 | Down | 9.70 | Down |
| 3450273 | GSTZ1 | 8.07 | Down | 9.12 | Down |
| 3400156 | FAM99A | 8.04 | Down | 10.05 | Down |
| 360059 | LOC642252 | 7.91 | Down | 11.62 | Down |
| 3520193 | ATP2B2 | 7.91 | Down | 9.76 | Down |
| 3780095 | AOX1 | 7.91 | Down | 31.96 | Down |
| 3710296 | SERPINF2 | 7.90 | Down | 18.23 | Down |
| 6480170 | RANBP3L | 7.88 | Down | 7.11 | Down |
| 2900338 | GAS2 | 7.87 | Down | 10.00 | Down |
| 2070112 |  | 7.86 | Down | 18.59 | Down |
| 5050470 | GHR | 7.86 | Down | 9.66 | Down |
| 1230592 | ABAT | 7.85 | Down | 11.75 | Down |
| 1050598 | DUSP4 | 7.84 | Down | 14.03 | Down |
| 4210164 | PBLD | 7.84 | Down | 11.42 | Down |
| 540131 | PXMP2 | 7.81 | Down | 11.85 | Down |
| 6200255 | PECR | 7.81 | Down | 8.81 | Down |
| 1690458 | CES1 | 7.80 | Down | 13.75 | Down |
| 770300 | SLC22A9 | 7.78 | Down | 11.78 | Down |
| 4610424 | RBP4 | 7.77 | Down | 16.32 | Down |
| 2640400 | MASP2 | 7.75 | Down | 22.61 | Down |
| 50162 | GPR128 | 7.73 | Down | 9.92 | Down |
| 4640491 | CDO1 | 7.73 | Down | 17.99 | Down |
| 3460594 | C14orf68 | 7.72 | Down | 11.55 | Down |
| 5220379 | FMO3 | 7.69 | Down | 10.29 | Down |
| 1470164 | DIO1 | 7.63 | Down | 10.87 | Down |
| 3400747 | LEPR | 7.62 | Down | 9.90 | Down |
| 5820324 | PXMP2 | 7.60 | Down | 10.69 | Down |
| 2940593 | ALDH8A1 | 7.60 | Down | 10.62 | Down |
| 6270612 | GPR128 | 7.60 | Down | 9.12 | Down |
| 1510114 | PCK2 | 7.57 | Down | 9.03 | Down |
| 4060546 | PHYH | 7.56 | Down | 9.18 | Down |
| 5360685 | KCNN2 | 7.53 | Down | 7.90 | Down |
| 3390129 | C9orf103 | 7.51 | Down | 7.73 | Down |
| 6860392 | UGT2B17 | 7.48 | Down | 24.57 | Down |
| 5700360 | LOC728160 | 7.48 | Down | 9.24 | Down |
| 3460037 | CNDP1 | 7.39 | Down | 7.84 | Down |
| 7150121 | CYP3A43 | 7.34 | Down | 7.32 | Down |
| 2850056 | PHYH | 7.29 | Down | 8.45 | Down |
| 20041 | ACMSD | 7.28 | Down | 13.64 | Down |
| 7040735 | CYP27A1 | 7.27 | Down | 9.54 | Down |
| 6660544 | C10orf65 | 7.27 | Down | 6.13 | Down |
| 20440 | BHMT2 | 7.25 | Down | 16.57 | Down |
| 6100259 | VSNL1 | 7.18 | Down | 6.69 | Down |
| 2370440 | SLC22A25 | 7.18 | Down | 8.63 | Down |
| 2680154 | CYP39A1 | 7.17 | Down | 7.09 | Down |
| 4040674 | UGT1A4 | 7.14 | Down | 13.98 | Down |
| 20274 | HPN | 7.14 | Down | 13.27 | Down |
| 6560239 | CYP4F12 | 7.13 | Down | 15.77 | Down |
| 1740703 | LOC653498 | 7.09 | Down | 8.10 | Down |
| 6770215 | SARDH | 7.09 | Down | 7.33 | Down |
| 6420373 | HRSP12 | 7.09 | Down | 13.70 | Down |
| 2470743 | KMO | 7.08 | Down | 6.99 | Down |
| 5870372 | UGT2B28 | 7.07 | Down | 15.53 | Down |
| 7000309 | CYP2D7P1 | 7.04 | Down | 9.07 | Down |
| 1780446 | PCK2 | 7.03 | Down | 8.99 | Down |
| 5310615 | SLC25A15 | 7.00 | Down | 13.06 | Down |
| 7380398 | DAK | 7.00 | Down | 7.56 | Down |
| 1450397 | HSD17B8 | 6.97 | Down | 6.42 | Down |
| 5310626 |  | 6.93 | Down | 9.30 | Down |
| 1570661 | CYP2J2 | 6.93 | Down | 16.48 | Down |
| 4890341 | SEC14L2 | 6.92 | Down | 9.05 | Down |
| 2480088 | XDH | 6.90 | Down | 9.87 | Down |
| 2000494 | AR | 6.88 | Down | 7.50 | Down |
| 130110 | ASB9 | 6.87 | Down | 7.11 | Down |
| 50746 | HSD11B1 | 6.87 | Down | 7.43 | Down |
| 6020706 | PLGLB1 | 6.85 | Down | 22.35 | Down |
| 7380678 | DDC | 6.77 | Down | 7.34 | Down |
| 60743 | TRIM55 | 6.75 | Down | 12.31 | Down |
| 1740131 | HAO1 | 6.73 | Down | 13.28 | Down |
| 3370347 | ADH1A | 6.72 | Down | 8.90 | Down |
| 6480066 | HPN | 6.71 | Down | 14.08 | Down |
| 3840026 | GPAM | 6.69 | Down | 12.59 | Down |
| 3800500 | TRIM55 | 6.69 | Down | 13.11 | Down |
| 3390739 | FNDC5 | 6.67 | Down | 6.88 | Down |
| 2650047 | PRAP1 | 6.62 | Down | 17.01 | Down |
| 6520040 | C6 | 6.59 | Down | 3.95 | Down |
| 5810209 | ABCA6 | 6.58 | Down | 5.38 | Down |
| 520053 | OXER1 | 6.54 | Down | 6.06 | Down |
| 6380010 |  | 6.54 | Down | 7.38 | Down |
| 3710343 | ITIH4 | 6.54 | Down | 11.95 | Down |
| 5870286 | AMACR | 6.53 | Down | 7.66 | Down |
| 2680142 |  | 6.52 | Down | 8.45 | Down |
| 870338 | EGR1 | 6.52 | Down | 3.21 | Down |
| 6980593 | GAMT | 6.51 | Down | 8.26 | Down |
| 6520048 | FCGR2A | 6.47 | Down | 5.17 | Down |
| 3420521 | C9 | 6.46 | Down | 15.97 | Down |
| 5570653 | TM7SF2 | 6.43 | Down | 10.29 | Down |
| 6660132 | DCXR | 6.42 | Down | 11.53 | Down |
| 4390095 | GLS2 | 6.41 | Down | 6.44 | Down |
| 3310142 | TTC39C | 6.41 | Down | 10.25 | Down |
| 1470576 | CTH | 6.40 | Down | 9.22 | Down |
| 4900424 | TRPM8 | 6.36 | Down | 11.78 | Down |
| 5820600 | REEP6 | 6.36 | Down | 8.51 | Down |
| 1940196 | LEPR | 6.36 | Down | 9.35 | Down |
| 2000327 | GRB14 | 6.36 | Down | 8.71 | Down |
| 540246 | SORD | 6.36 | Down | 7.73 | Down |
| 3460463 | PKLR | 6.34 | Down | 9.33 | Down |
| 6620133 | PANK1 | 6.30 | Down | 11.52 | Down |
| 4010204 | GNAO1 | 6.30 | Down | 7.90 | Down |
| 4850647 | FMO3 | 6.29 | Down | 8.20 | Down |
| 6580110 | PAH | 6.28 | Down | 7.69 | Down |
| 4850674 | PSAT1 | 6.27 | Down | 11.86 | Down |
| 6220332 | SLC6A12 | 6.25 | Down | 12.89 | Down |
| 4050674 | LOC145837 | 6.21 | Down | 15.87 | Down |
| 620626 | NAT2 | 6.20 | Down | 14.25 | Down |
| 3870068 | NR1I2 | 6.19 | Down | 9.50 | Down |
| 4070091 | RORC | 6.19 | Down | 7.08 | Down |
| 1410152 | GJB1 | 6.18 | Down | 8.13 | Down |
| 2600768 | AGXT2L1 | 6.17 | Down | 22.00 | Down |
| 1230598 | SORD | 6.16 | Down | 7.72 | Down |
| 4050491 | TCEA3 | 6.15 | Down | 7.38 | Down |
| 240035 | RUNDC3B | 6.13 | Down | 6.90 | Down |
| 1820332 | INSIG1 | 6.12 | Down | 7.19 | Down |
| 130193 | ACADL | 6.12 | Down | 7.01 | Down |
| 1300195 | LOC339766 | 6.07 | Down | 7.00 | Down |
| 5810719 | CIDEB | 6.06 | Down | 7.48 | Down |
| 5820373 | ALDH6A1 | 6.05 | Down | 7.90 | Down |
| 6900563 | EPHX1 | 6.03 | Down | 8.73 | Down |
| 2190450 | SLC22A10 | 6.03 | Down | 6.29 | Down |
| 610592 | ADCY1 | 6.02 | Down | 4.80 | Down |
| 6270364 | PCK1 | 6.02 | Down | 11.59 | Down |
| 3850500 | FXYD1 | 6.02 | Down | 4.58 | Down |
| 4210072 | AQP11 | 5.96 | Down | 10.66 | Down |
| 3130154 | AMACR | 5.94 | Down | 6.96 | Down |
| 6510731 | SLC22A9 | 5.93 | Down | 7.71 | Down |
| 3780707 | DUSP10 | 5.93 | Down | 5.20 | Down |
| 5290544 | NAT8 | 5.92 | Down | 8.21 | Down |
| 4880402 | RGN | 5.91 | Down | 7.01 | Down |
| 5340672 | A1CF | 5.90 | Down | 6.35 | Down |
| 4610273 | CLYBL | 5.88 | Down | 5.95 | Down |
| 7100274 | ALDH6A1 | 5.87 | Down | 7.65 | Down |
| 2470102 | C7orf10 | 5.86 | Down | 7.10 | Down |
| 4890553 | RORC | 5.83 | Down | 6.29 | Down |
| 4220370 | MYRIP | 5.82 | Down | 5.67 | Down |
| 460066 | HAO2 | 5.81 | Down | 5.83 | Down |
| 6060553 | RBP5 | 5.80 | Down | 8.46 | Down |
| 940538 | HRG | 5.78 | Down | 6.00 | Down |
| 2760121 | ADHFE1 | 5.77 | Down | 7.18 | Down |
| 20324 | RNASE4 | 5.76 | Down | 18.19 | Down |
| 2100358 | HGD | 5.75 | Down | 15.42 | Down |
| 7330332 | ABCB11 | 5.74 | Down | 8.06 | Down |
| 2650113 | NR1I2 | 5.72 | Down | 9.33 | Down |
| 520544 | AMACR | 5.71 | Down | 7.25 | Down |
| 1780037 | GYS2 | 5.70 | Down | 8.76 | Down |
| 540544 | FMO4 | 5.70 | Down | 5.31 | Down |
| 5260440 | ST3GAL6 | 5.68 | Down | 7.28 | Down |
| 6510403 | LGSN | 5.67 | Down | 5.57 | Down |
| 2810451 | WDR72 | 5.64 | Down | 5.66 | Down |
| 160494 | AQP9 | 5.64 | Down | 10.46 | Down |
| 5490390 | ZGPAT | 5.63 | Down | 5.43 | Down |
| 2630669 | DEPDC7 | 5.63 | Down | 7.97 | Down |
| 2480274 | SORL1 | 5.62 | Down | 5.92 | Down |
| 110433 | ASS1 | 5.59 | Down | 11.02 | Down |
| 4480114 | F11 | 5.57 | Down | 7.62 | Down |
| 4180292 | ACSM3 | 5.56 | Down | 5.51 | Down |
| 1050278 | SRD5A1 | 5.56 | Down | 7.24 | Down |
| 5050390 | SYT7 | 5.55 | Down | 8.83 | Down |
| 7560538 | ITCH | 5.52 | Down | 3.76 | Down |
| 2690181 | NECAB2 | 5.51 | Down | 5.92 | Down |
| 1470709 | CFHR1 | 5.51 | Down | 8.48 | Down |
| 620707 | SLC6A16 | 5.51 | Down | 3.86 | Down |
| 4060121 | LPAL2 | 5.50 | Down | 5.76 | Down |
| 2070044 | CLYBL | 5.50 | Down | 5.27 | Down |
| 6220397 | SC5DL | 5.49 | Down | 6.30 | Down |
| 3440041 | ZGPAT | 5.48 | Down | 5.80 | Down |
| 1780411 | PEMT | 5.47 | Down | 6.90 | Down |
| 5340358 | F10 | 5.46 | Down | 6.39 | Down |
| 5130593 | CAMK2B | 5.45 | Down | 4.26 | Down |
| 6940364 | CP | 5.45 | Down | 13.17 | Down |
| 4220053 | SKAP1 | 5.44 | Down | 3.38 | Down |
| 3890484 | ANG | 5.43 | Down | 17.17 | Down |
| 2640544 | ASS1 | 5.42 | Down | 11.10 | Down |
| 3780392 | LOC143941 | 5.41 | Down | 5.88 | Down |
| 3310474 | SLC17A4 | 5.39 | Down | 4.68 | Down |
| 1690240 | C5orf4 | 5.39 | Down | 4.26 | Down |
| 70435 | ATP2B2 | 5.37 | Down | 6.96 | Down |
| 2140138 | BCKDHB | 5.36 | Down | 5.77 | Down |
| 160703 | NIPAL1 | 5.36 | Down | 6.63 | Down |
| 10438 | LPPR1 | 5.36 | Down | 4.27 | Down |
| 3440068 | GREM2 | 5.36 | Down | 10.21 | Down |
| 2690379 | C4BPB | 5.35 | Down | 13.01 | Down |
| 6940519 | ABCA6 | 5.35 | Down | 3.66 | Down |
| 2810255 | CSAD | 5.32 | Down | 8.26 | Down |
| 7040333 | RNASE4 | 5.31 | Down | 18.12 | Down |
| 1740487 | BPHL | 5.31 | Down | 6.03 | Down |
| 7160220 | ABCG2 | 5.28 | Down | 4.82 | Down |
| 7610767 | F5 | 5.25 | Down | 6.66 | Down |
| 650427 | ALDOB | 5.24 | Down | 12.50 | Down |
| 540706 | HLF | 5.18 | Down | 4.91 | Down |
| 2940291 | QPRT | 5.17 | Down | 6.65 | Down |
| 5720465 | DNAJC12 | 5.17 | Down | 10.48 | Down |
| 1400050 |  | 5.15 | Down | 5.48 | Down |
| 5290593 | GAMT | 5.15 | Down | 6.51 | Down |
| 6220504 | CTH | 5.15 | Down | 6.07 | Down |
| 3290630 | SERPINA5 | 5.15 | Down | 3.39 | Down |
| 2650164 | FLJ10986 | 5.13 | Down | 5.93 | Down |
| 6660201 | GCDH | 5.13 | Down | 5.99 | Down |
| 1440719 | CYP4F2 | 5.12 | Down | 7.16 | Down |
| 2640274 | ALDH5A1 | 5.11 | Down | 5.18 | Down |
| 3840632 | ACSM3 | 5.11 | Down | 5.89 | Down |
| 6770189 | RTN4 | 5.10 | Down | 5.73 | Down |
| 1660270 | MTHFD1 | 5.09 | Down | 6.51 | Down |
| 5720553 | SFXN2 | 5.08 | Down | 5.16 | Down |
| 7400630 | BCKDHB | 5.08 | Down | 5.80 | Down |
| 2480280 | SORD | 5.06 | Down | 11.39 | Down |
| 6220113 | DEPDC7 | 5.06 | Down | 7.14 | Down |
| 2760598 | MUPCDH | 5.06 | Down | 13.51 | Down |
| 2570722 | UGT2B4 | 5.05 | Down | 12.57 | Down |
| 3890598 | ADHFE1 | 5.05 | Down | 6.24 | Down |
| 2070184 | NTHL1 | 5.04 | Down | 4.52 | Down |
| 6940039 | SORL1 | 5.04 | Down | 5.58 | Down |
| 1170553 | VSNL1 | 5.01 | Down | 4.54 | Down |
| 7650615 | GRHPR | 5.00 | Down | 6.02 | Down |
| 990382 | C1orf53 | 4.99 | Down | 5.52 | Down |
| 4060278 | PLGLA | 4.99 | Down | 5.95 | Down |
| 4810356 |  | 4.98 | Down | 5.37 | Down |
| 6290537 | HRSP12 | 4.97 | Down | 7.50 | Down |
| 6590546 | SLC25A15 | 4.96 | Down | 9.57 | Down |
| 840008 | SMOC1 | 4.95 | Down | 5.46 | Down |
| 6480450 | SLC1A2 | 4.94 | Down | 5.54 | Down |
| 10487 | SLC25A25 | 4.92 | Down | 4.91 | Down |
| 1340458 |  | 4.91 | Down | 5.16 | Down |
| 6400288 | TPR | 4.91 | Down | 5.60 | Down |
| 5670475 | GCHFR | 4.91 | Down | 6.39 | Down |
| 1030026 | CENPV | 4.89 | Down | 6.63 | Down |
| 3290161 | TMEM86B | 4.88 | Down | 4.97 | Down |
| 4570341 | C8orf46 | 4.86 | Down | 4.43 | Down |
| 3610386 | CPEB3 | 4.85 | Down | 4.67 | Down |
| 4860184 | PCBD1 | 4.83 | Down | 6.41 | Down |
| 580390 | PPARGC1A | 4.82 | Down | 3.86 | Down |
| 780551 |  | 4.82 | Down | 4.92 | Down |
| 4250156 | EBP | 4.81 | Down | 7.91 | Down |
| 5890703 | MUT | 4.80 | Down | 5.21 | Down |
| 3890040 | JMJD5 | 4.79 | Down | 5.37 | Down |
| 2940292 | BCKDHB | 4.79 | Down | 6.22 | Down |
| 6480348 | LEPR | 4.78 | Down | 10.45 | Down |
| 3460731 | TCP10L | 4.78 | Down | 7.44 | Down |
| 2450411 | DNAJC12 | 4.77 | Down | 10.41 | Down |
| 4810445 | PCOLCE2 | 4.77 | Down | 7.42 | Down |
| 6420450 | LIME1 | 4.76 | Down | 4.94 | Down |
| 6960274 | HAL | 4.73 | Down | 6.25 | Down |
| 2680382 | LEPR | 4.72 | Down | 8.45 | Down |
| 6860341 |  | 4.72 | Down | 4.11 | Down |
| 5810564 | CMBL | 4.71 | Down | 12.10 | Down |
| 7330138 | CSAD | 4.71 | Down | 5.34 | Down |
| 3990521 | LOC728635 | 4.69 | Down | 4.26 | Down |
| 3940458 | CRYL1 | 4.69 | Down | 6.01 | Down |
| 2140682 | MT1E | 4.69 | Down | 4.26 | Down |
| 2490242 | SLC30A10 | 4.68 | Down | 5.56 | Down |
| 2060315 | C14orf73 | 4.68 | Down | 5.01 | Down |
| 540747 |  | 4.67 | Down | 3.83 | Down |
| 380626 | HCN4 | 4.66 | Down | 6.17 | Down |
| 3180731 | MGST1 | 4.65 | Down | 11.77 | Down |
| 2060044 | XYLB | 4.64 | Down | 7.37 | Down |
| 5360102 | TMEM82 | 4.64 | Down | 10.48 | Down |
| 4210711 | MASP1 | 4.63 | Down | 4.51 | Down |
| 1070689 | RANBP3L | 4.62 | Down | 4.57 | Down |
| 6060113 | TBX15 | 4.61 | Down | 6.19 | Down |
| 4860494 | C3 | 4.61 | Down | 7.71 | Down |
| 270114 | FAM134B | 4.60 | Down | 4.68 | Down |
| 7510050 | NPC1L1 | 4.59 | Down | 7.57 | Down |
| 1770278 | EPB41L4B | 4.58 | Down | 6.69 | Down |
| 3120162 | ALAD | 4.58 | Down | 4.69 | Down |
| 940450 | AMT | 4.58 | Down | 4.62 | Down |
| 6020050 | GSTA3 | 4.58 | Down | 4.55 | Down |
| 3420433 | SHMT1 | 4.57 | Down | 5.69 | Down |
| 6420736 | DNAJC12 | 4.56 | Down | 8.82 | Down |
| 2690528 | SHMT1 | 4.56 | Down | 5.51 | Down |
| 3060474 | SLC23A2 | 4.54 | Down | 4.01 | Down |
| 2650112 | SLC16A2 | 4.53 | Down | 3.90 | Down |
| 7330753 | ACAT2 | 4.51 | Down | 5.35 | Down |
| 3370327 | MOSC1 | 4.49 | Down | 6.30 | Down |
| 2650598 | CYP4V2 | 4.48 | Down | 4.69 | Down |
| 4150544 | ALDH7A1 | 4.48 | Down | 4.88 | Down |
| 1260068 | FST | 4.47 | Down | 6.90 | Down |
| 3940630 | ARSE | 4.46 | Down | 3.72 | Down |
| 6020398 | IVD | 4.46 | Down | 5.88 | Down |
| 1070414 | DHRS4L2 | 4.46 | Down | 4.05 | Down |
| 2760608 | ENTPD5 | 4.45 | Down | 6.39 | Down |
| 2480014 | SULT1A2 | 4.45 | Down | 4.62 | Down |
| 5570114 | GADD45G | 4.44 | Down | 5.05 | Down |
| 6510274 | CDH23 | 4.42 | Down | 3.93 | Down |
| 6220025 | ITIH3 | 4.41 | Down | 6.83 | Down |
| 4860307 | CYP2C18 | 4.41 | Down | 19.38 | Down |
| 630114 | EVC2 | 4.39 | Down | 4.38 | Down |
| 3520753 | ACAA1 | 4.38 | Down | 5.95 | Down |
| 3190246 | CHN2 | 4.38 | Down | 3.74 | Down |
| 360706 | GRTP1 | 4.37 | Down | 6.44 | Down |
| 2510546 | C10orf125 | 4.36 | Down | 6.50 | Down |
| 2640136 | LOC654164 | 4.35 | Down | 4.20 | Down |
| 5220253 | NR0B2 | 4.35 | Down | 6.73 | Down |
| 2600356 | C4BPB | 4.31 | Down | 7.84 | Down |
| 6960059 | GCKR | 4.31 | Down | 8.21 | Down |
| 2360762 | AGXT2L1 | 4.30 | Down | 11.25 | Down |
| 5080601 | COBLL1 | 4.30 | Down | 3.91 | Down |
| 830687 | CHN2 | 4.29 | Down | 4.17 | Down |
| 110441 | ACADS | 4.29 | Down | 5.04 | Down |
| 1500129 | DCPS | 4.28 | Down | 4.06 | Down |
| 2760349 | C5orf33 | 4.27 | Down | 6.42 | Down |
| 1780279 | CYP4F22 | 4.27 | Down | 5.28 | Down |
| 2140167 | MOSC2 | 4.27 | Down | 4.54 | Down |
| 2060707 | GPR125 | 4.27 | Down | 3.28 | Down |
| 5290608 | RARRES2 | 4.26 | Down | 3.83 | Down |
| 5560195 | LOC653879 | 4.26 | Down | 6.77 | Down |
| 3940056 | AIG1 | 4.26 | Down | 5.83 | Down |
| 6660187 | FIT1 | 4.25 | Down | 3.19 | Down |
| 2000630 | SORBS2 | 4.25 | Down | 3.10 | Down |
| 5560307 | DHRS4 | 4.24 | Down | 4.20 | Down |
| 5810113 |  | 4.24 | Down | 5.25 | Down |
| 6060209 | GNE | 4.24 | Down | 4.39 | Down |
| 4070086 | HAAO | 4.23 | Down | 4.39 | Down |
| 520039 | AADAT | 4.23 | Down | 4.33 | Down |
| 2370670 | C1R | 4.23 | Down | 3.86 | Down |
| 7040519 | FOLH1 | 4.23 | Down | 4.01 | Down |
| 630427 | KHK | 4.21 | Down | 5.14 | Down |
| 3190280 | F7 | 4.20 | Down | 4.88 | Down |
| 7650286 | EXPH5 | 4.20 | Down | 5.04 | Down |
| 1570370 | HINT2 | 4.19 | Down | 4.01 | Down |
| 4060471 | FAH | 4.19 | Down | 7.74 | Down |
| 620112 | N4BP2L1 | 4.17 | Down | 3.30 | Down |
| 1850372 | OXT | 4.15 | Down | 4.65 | Down |
| 3710301 | tAKR | 4.15 | Down | 4.51 | Down |
| 4070241 | GYG2 | 4.14 | Down | 8.14 | Down |
| 1940156 | LEPR | 4.13 | Down | 8.70 | Down |
| 7550292 | SELENBP1 | 4.11 | Down | 4.94 | Down |
| 1780356 | HAGH | 4.11 | Down | 5.25 | Down |
| 2600240 | RAB26 | 4.10 | Down | 5.52 | Down |
| 4610039 | ELOVL2 | 4.10 | Down | 5.31 | Down |
| 3370136 | ACAD11 | 4.09 | Down | 4.70 | Down |
| 6560349 | LOC653641 | 4.09 | Down | 4.21 | Down |
| 5720575 | C10orf114 | 4.09 | Down | 4.65 | Down |
| 5360044 | CLRN3 | 4.08 | Down | 7.13 | Down |
| 4050500 | TAF6 | 4.08 | Down | 4.00 | Down |
| 5490477 | EBPL | 4.08 | Down | 4.82 | Down |
| 3370301 | LDHD | 4.08 | Down | 10.49 | Down |
| 5290148 | GPT2 | 4.08 | Down | 9.93 | Down |
| 4590215 | ADRA1A | 4.07 | Down | 4.07 | Down |
| 4010133 | VNN3 | 4.07 | Down | 6.64 | Down |
| 5550292 | KLB | 4.06 | Down | 6.39 | Down |
| 620692 | SLC25A42 | 4.06 | Down | 5.23 | Down |
| 20348 |  | 4.05 | Down | 4.39 | Down |
| 1470017 | DHRS1 | 4.04 | Down | 4.18 | Down |
| 6290575 | ABCG5 | 4.04 | Down | 5.20 | Down |
| 3450537 | DGAT2 | 4.02 | Down | 6.27 | Down |
| 3360370 | C11orf54 | 4.02 | Down | 3.84 | Down |
| 4180630 |  | 4.02 | Down | 4.36 | Down |
| 5360689 | PROX1 | 4.00 | Down | 4.13 | Down |
| 520463 | GPER | 3.98 | Down | 6.42 | Down |
| 1430280 | CEBPA | 3.98 | Down | 6.65 | Down |
| 540647 | TMEM56 | 3.98 | Down | 2.58 | Down |
| 3850600 | PCBD1 | 3.98 | Down | 5.35 | Down |
| 4900438 | ACOT1 | 3.97 | Down | 4.40 | Down |
| 6040037 | CDC14B | 3.95 | Down | 4.16 | Down |
| 2370279 | MACROD1 | 3.94 | Down | 3.61 | Down |
| 2230678 | ACACB | 3.94 | Down | 4.11 | Down |
| 3870113 | SPRYD4 | 3.94 | Down | 5.48 | Down |
| 4070300 | PANX2 | 3.93 | Down | 7.35 | Down |
| 6250075 | DHTKD1 | 3.93 | Down | 5.59 | Down |
| 6200619 | AADAC | 3.93 | Down | 14.89 | Down |
| 2940332 | CYP1A1 | 3.93 | Down | 5.20 | Down |
| 4730538 | SLC25A25 | 3.92 | Down | 3.93 | Down |
| 70102 | ALDH7A1 | 3.92 | Down | 4.29 | Down |
| 6200133 | PECI | 3.92 | Down | 5.75 | Down |
| 6900450 | QDPR | 3.91 | Down | 4.71 | Down |
| 4640372 | TRPM8 | 3.89 | Down | 7.94 | Down |
| 6420309 | FAM134B | 3.89 | Down | 3.95 | Down |
| 3520398 | IL28RA | 3.89 | Down | 3.87 | Down |
| 1230047 | CBS | 3.88 | Down | 9.82 | Down |
| 6580291 | ABAT | 3.83 | Down | 5.14 | Down |
| 380148 | DECR2 | 3.83 | Down | 5.90 | Down |
| 620152 | LOC147710 | 3.82 | Down | 3.87 | Down |
| 6020286 | FST | 3.82 | Down | 7.36 | Down |
| 4060731 | GCDH | 3.82 | Down | 4.50 | Down |
| 5870097 | DMGDH | 3.81 | Down | 4.10 | Down |
| 6550133 | N4BP2L1 | 3.81 | Down | 3.18 | Down |
| 3850044 | CYP4A22 | 3.81 | Down | 3.99 | Down |
| 70368 | C21orf34 | 3.81 | Down | 3.16 | Down |
| 1010600 | LRRC3 | 3.81 | Down | 4.24 | Down |
| 380301 |  | 3.79 | Down | 3.62 | Down |
| 5670674 | MME | 3.78 | Down | 4.33 | Down |
| 6130433 | C8orf40 | 3.78 | Down | 3.10 | Down |
| 1400341 | ACY1 | 3.77 | Down | 7.32 | Down |
| 4890167 | CHAD | 3.75 | Down | 4.18 | Down |
| 6020747 | TM6SF2 | 3.75 | Down | 6.55 | Down |
| 6960576 | WDR23 | 3.74 | Down | 3.60 | Down |
| 3370332 | ABCC6 | 3.74 | Down | 4.25 | Down |
| 50463 | FAM149A | 3.73 | Down | 3.60 | Down |
| 7320682 | PCK2 | 3.73 | Down | 4.37 | Down |
| 270593 | GPER | 3.72 | Down | 6.53 | Down |
| 430139 | ACADM | 3.72 | Down | 4.07 | Down |
| 4200674 | IGFBP2 | 3.71 | Down | 9.30 | Down |
| 4560192 | SFXN5 | 3.71 | Down | 4.75 | Down |
| 3400152 | LOC732058 | 3.71 | Down | 3.86 | Down |
| 6130100 | PRO0132 | 3.70 | Down | 4.15 | Down |
| 5490196 | PC | 3.70 | Down | 9.45 | Down |
| 1580427 | THEM2 | 3.70 | Down | 4.55 | Down |
| 1340241 | C5 | 3.69 | Down | 6.84 | Down |
| 1740634 | SLC7A2 | 3.69 | Down | 3.43 | Down |
| 2750170 | SORBS2 | 3.69 | Down | 3.02 | Down |
| 2350605 | PNMA6A | 3.68 | Down | 4.73 | Down |
| 4050138 | GPR98 | 3.67 | Down | 4.07 | Down |
| 6520523 | IL27 | 3.67 | Down | 3.59 | Down |
| 4040364 | CAT | 3.66 | Down | 4.07 | Down |
| 6330037 | ITPR2 | 3.66 | Down | 3.99 | Down |
| 3400307 | PLA1A | 3.66 | Down | 2.85 | Down |
| 1170228 | ACY3 | 3.66 | Down | 3.69 | Down |
| 5810414 | CYB5A | 3.65 | Down | 6.53 | Down |
| 2260309 | RPPH1 | 3.64 | Down | 3.83 | Down |
| 1690609 | CFI | 3.63 | Down | 5.17 | Down |
| 5260743 |  | 3.63 | Down | 4.17 | Down |
| 2940093 |  | 3.63 | Down | 4.01 | Down |
| 1820497 | TIGD2 | 3.63 | Down | 3.59 | Down |
| 10019 | RNF165 | 3.62 | Down | 4.92 | Down |
| 4890255 | AGMAT | 3.62 | Down | 6.00 | Down |
| 7380608 | HMGCL | 3.62 | Down | 4.48 | Down |
| 2760148 | IL11RA | 3.61 | Down | 3.26 | Down |
| 5890332 | C9orf68 | 3.59 | Down | 3.23 | Down |
| 6840286 | HNMT | 3.58 | Down | 2.96 | Down |
| 5860278 | ALAS1 | 3.57 | Down | 5.41 | Down |
| 5050577 | PNPLA7 | 3.57 | Down | 2.73 | Down |
| 6180414 | PTP4A1 | 3.56 | Down | 4.64 | Down |
| 3460739 | RAB17 | 3.55 | Down | 4.87 | Down |
| 7400435 | PIK3C2G | 3.55 | Down | 6.30 | Down |
| 5720470 | LOC653381 | 3.53 | Down | 7.97 | Down |
| 3140279 |  | 3.53 | Down | 4.87 | Down |
| 5860022 | FXYD1 | 3.52 | Down | 2.79 | Down |
| 1580224 | SIRT5 | 3.51 | Down | 4.47 | Down |
| 2320400 | SLC25A13 | 3.51 | Down | 4.81 | Down |
| 1510270 | SIRT5 | 3.50 | Down | 3.93 | Down |
| 2710392 | ABCA8 | 3.50 | Down | 2.98 | Down |
| 2650725 |  | 3.49 | Down | 3.70 | Down |
| 4200037 | SC4MOL | 3.49 | Down | 5.32 | Down |
| 5900246 |  | 3.49 | Down | 3.34 | Down |
| 2350685 | HEY2 | 3.49 | Down | 3.05 | Down |
| 4040719 | DNAJC25 | 3.49 | Down | 3.71 | Down |
| 2070605 | ACAT1 | 3.48 | Down | 5.17 | Down |
| 6420025 | TMEM16A | 3.48 | Down | 2.05 | Down |
| 6480494 | MGMT | 3.47 | Down | 3.06 | Down |
| 4180161 | AFAR3 | 3.46 | Down | 4.56 | Down |
| 6620278 | ADI1 | 3.46 | Down | 4.65 | Down |
| 780670 | ADRA1A | 3.45 | Down | 3.35 | Down |
| 1980670 | CGN | 3.45 | Down | 5.39 | Down |
| 5860187 | PHYH | 3.45 | Down | 4.80 | Down |
| 2140291 | MMAB | 3.45 | Down | 3.07 | Down |
| 1470176 | SYT17 | 3.43 | Down | 5.29 | Down |
| 6200176 | DKFZP564J102 | 3.42 | Down | 3.14 | Down |
| 2230091 | LHPP | 3.42 | Down | 3.43 | Down |
| 6550689 | WDR23 | 3.42 | Down | 2.94 | Down |
| 7570326 | ADRB2 | 3.41 | Down | 3.78 | Down |
| 6200253 | THBS4 | 3.41 | Down | 3.42 | Down |
| 7150039 | NUDT6 | 3.41 | Down | 3.71 | Down |
| 5810750 | CBR4 | 3.41 | Down | 3.69 | Down |
| 5670093 | ECHS1 | 3.40 | Down | 5.27 | Down |
| 1300327 | C1S | 3.40 | Down | 3.33 | Down |
| 2480037 | CMTM8 | 3.39 | Down | 4.29 | Down |
| 4560053 |  | 3.38 | Down | 3.38 | Down |
| 4060433 | MAOB | 3.38 | Down | 2.96 | Down |
| 5700594 | FGF21 | 3.38 | Down | 3.33 | Down |
| 7560164 | GCAT | 3.37 | Down | 8.01 | Down |
| 4900612 | DNAH1 | 3.37 | Down | 2.09 | Down |
| 1110544 | GPHN | 3.37 | Down | 3.20 | Down |
| 7100121 | HNMT | 3.36 | Down | 2.62 | Down |
| 1070152 | IL17RB | 3.36 | Down | 4.00 | Down |
| 1980762 | SAT2 | 3.36 | Down | 3.56 | Down |
| 540113 | CDC14B | 3.35 | Down | 3.79 | Down |
| 6250059 | CYP3A5 | 3.35 | Down | 5.96 | Down |
| 5220097 | ALAS1 | 3.34 | Down | 4.83 | Down |
| 2450243 | MPPED1 | 3.34 | Down | 3.61 | Down |
| 1660608 | C7orf55 | 3.34 | Down | 2.91 | Down |
| 1990471 | FAAH | 3.34 | Down | 3.72 | Down |
| 5870685 | IL6R | 3.33 | Down | 3.00 | Down |
| 2450025 | PRLR | 3.33 | Down | 3.09 | Down |
| 3440630 | ESPN | 3.32 | Down | 4.84 | Down |
| 5690750 | GALT | 3.31 | Down | 3.45 | Down |
| 60196 | GCSH | 3.30 | Down | 5.17 | Down |
| 4540593 | SLC19A3 | 3.29 | Down | 4.83 | Down |
| 5560452 |  | 3.29 | Down | 3.49 | Down |
| 3710088 | NUDT6 | 3.28 | Down | 3.69 | Down |
| 6860221 | LBX2 | 3.28 | Down | 3.52 | Down |
| 3840553 | C21orf34 | 3.28 | Down | 2.91 | Down |
| 1240600 | SIRT5 | 3.28 | Down | 3.36 | Down |
| 6020224 | FBP1 | 3.28 | Down | 5.85 | Down |
| 5270326 | MPDZ | 3.28 | Down | 2.57 | Down |
| 5340215 |  | 3.27 | Down | 2.91 | Down |
| 6550482 |  | 3.27 | Down | 3.26 | Down |
| 2320653 | ECHDC2 | 3.26 | Down | 4.06 | Down |
| 3370240 | LCN12 | 3.26 | Down | 4.75 | Down |
| 360192 | INSIG1 | 3.25 | Down | 4.57 | Down |
| 4730370 | ABCA9 | 3.25 | Down | 2.76 | Down |
| 3610398 | MMACHC | 3.25 | Down | 3.52 | Down |
| 240086 | PHGDH | 3.23 | Down | 2.40 | Down |
| 5490594 | SULT1A4 | 3.23 | Down | 3.67 | Down |
| 5050022 | KHK | 3.22 | Down | 4.00 | Down |
| 6040286 | PER2 | 3.22 | Down | 2.48 | Down |
| 620270 |  | 3.21 | Down | 3.87 | Down |
| 520364 | ACSM5 | 3.20 | Down | 3.66 | Down |
| 6200333 | SLC22A3 | 3.20 | Down | 3.49 | Down |
| 6350192 | ONECUT2 | 3.20 | Down | 2.42 | Down |
| 3420541 | TMEM97 | 3.19 | Down | 2.82 | Down |
| 5290408 | MCEE | 3.19 | Down | 3.58 | Down |
| 4390300 | TOB1 | 3.18 | Down | 3.96 | Down |
| 7400100 | SUOX | 3.18 | Down | 3.14 | Down |
| 7100035 | IL28RA | 3.18 | Down | 3.13 | Down |
| 5260474 | C1R | 3.18 | Down | 2.34 | Down |
| 6650008 | TDO2 | 3.18 | Down | 3.69 | Down |
| 1430711 | KLF12 | 3.18 | Down | 2.43 | Down |
| 3850471 | CES2 | 3.18 | Down | 4.82 | Down |
| 6620681 | TMEM176B | 3.17 | Down | 3.94 | Down |
| 380424 | CFH | 3.17 | Down | 3.21 | Down |
| 6590037 | SLC20A2 | 3.17 | Down | 2.20 | Down |
| 2810482 | AHNAK | 3.17 | Down | 2.91 | Down |
| 1240446 | CAT | 3.16 | Down | 3.84 | Down |
| 2690411 | GOLSYN | 3.16 | Down | 3.27 | Down |
| 1510537 |  | 3.15 | Down | 3.00 | Down |
| 1260086 | ID2 | 3.15 | Down | 2.34 | Down |
| 770672 | THOP1 | 3.15 | Down | 3.51 | Down |
| 3420553 | ENPP1 | 3.14 | Down | 3.57 | Down |
| 5080066 | BRWD1 | 3.13 | Down | 2.15 | Down |
| 7040446 | RND2 | 3.13 | Down | 3.26 | Down |
| 5490131 | NIPSNAP1 | 3.13 | Down | 4.68 | Down |
| 6270152 |  | 3.13 | Down | 3.27 | Down |
| 2630008 | COQ10A | 3.12 | Down | 2.86 | Down |
| 70484 | AKR7A3 | 3.12 | Down | 5.86 | Down |
| 5310328 | LRRC31 | 3.10 | Down | 4.09 | Down |
| 3140209 | ASPA | 3.10 | Down | 2.63 | Down |
| 2070291 | PGM1 | 3.09 | Down | 3.83 | Down |
| 4560609 | LGR4 | 3.09 | Down | 4.32 | Down |
| 3140021 | PCBD1 | 3.09 | Down | 4.67 | Down |
| 6860246 | GRAMD1C | 3.09 | Down | 3.48 | Down |
| 3520372 | CES2 | 3.08 | Down | 5.68 | Down |
| 3830274 | CROT | 3.08 | Down | 2.60 | Down |
| 2810390 | SMO | 3.08 | Down | 2.70 | Down |
| 3780022 | PALM2 | 3.07 | Down | 3.84 | Down |
| 2900121 | SLC25A10 | 3.07 | Down | 5.66 | Down |
| 840634 | ZMYND12 | 3.06 | Down | 3.18 | Down |
| 2850162 | PHLPP1 | 3.06 | Down | 2.74 | Down |
| 1710692 | MYO16 | 3.05 | Down | 3.22 | Down |
| 7150706 | AQP12A | 3.05 | Down | 4.79 | Down |
| 7330379 | PTMS | 3.04 | Down | 2.80 | Down |
| 6510114 | HAPLN4 | 3.03 | Down | 3.13 | Down |
| 2100753 | RAPGEF4 | 3.03 | Down | 3.26 | Down |
| 1030241 | ADK | 3.02 | Down | 3.74 | Down |
| 3930392 | ANG | 3.02 | Down | 8.93 | Down |
| 1170398 | C10orf57 | 3.01 | Down | 3.96 | Down |
| 5050537 | OPLAH | 3.01 | Down | 4.12 | Down |
| 1570114 |  | 3.01 | Down | 3.44 | Down |
| 770564 | C1orf115 | 3.00 | Down | 3.46 | Down |
| 5260343 | SCG5 | 3.00 | Down | 3.95 | Down |
| 3780619 | TMEM14A | 3.00 | Down | 4.24 | Down |
| 6560066 | MTHFS | 2.99 | Down | 4.68 | Down |
| 770047 | PI4K2B | 2.98 | Down | 3.80 | Down |
| 2630220 | SEPSECS | 2.98 | Down | 3.49 | Down |
| 6520669 | GALT | 2.98 | Down | 2.97 | Down |
| 270300 | AKR7A3 | 2.98 | Down | 4.35 | Down |
| 5860307 | PRKAB2 | 2.98 | Down | 3.68 | Down |
| 4490047 |  | 2.97 | Down | 2.74 | Down |
| 5420689 | ECM2 | 2.97 | Down | 2.72 | Down |
| 6220242 | ETFB | 2.97 | Down | 4.26 | Down |
| 5090372 | CDA | 2.97 | Down | 3.17 | Down |
| 3870100 | KLHDC9 | 2.97 | Down | 2.73 | Down |
| 5290204 | THPO | 2.96 | Down | 3.67 | Down |
| 4760097 | LOC401720 | 2.96 | Down | 3.25 | Down |
| 2690026 | SDC2 | 2.96 | Down | 3.70 | Down |
| 1990246 | CES7 | 2.96 | Down | 3.02 | Down |
| 6060601 |  | 2.96 | Down | 3.18 | Down |
| 6940278 | AKR1CL1 | 2.96 | Down | 4.05 | Down |
| 4280398 | RAPH1 | 2.96 | Down | 3.06 | Down |
| 5360241 | GGCX | 2.95 | Down | 4.15 | Down |
| 10435 | LYRM5 | 2.95 | Down | 3.14 | Down |
| 1710376 | C6orf208 | 2.95 | Down | 2.83 | Down |
| 6400274 | TMEM16A | 2.95 | Down | 2.34 | Down |
| 130370 | HDAC6 | 2.94 | Down | 3.35 | Down |
| 1190750 | SLC41A2 | 2.94 | Down | 4.92 | Down |
| 4900097 |  | 2.94 | Down | 3.42 | Down |
| 6580689 | ARSD | 2.93 | Down | 2.65 | Down |
| 7510259 | ATP7B | 2.93 | Down | 5.60 | Down |
| 1500669 | MYO1B | 2.93 | Down | 3.14 | Down |
| 4210762 | MRPL46 | 2.93 | Down | 3.37 | Down |
| 620414 | HADH2 | 2.91 | Down | 3.23 | Down |
| 5910068 |  | 2.90 | Down | 3.85 | Down |
| 1820196 | OVGP1 | 2.90 | Down | 2.78 | Down |
| 6290356 | SERPINF1 | 2.90 | Down | 3.34 | Down |
| 460047 | HACL1 | 2.90 | Down | 3.29 | Down |
| 6400326 | SULT1A2 | 2.88 | Down | 3.51 | Down |
| 2940673 | KREMEN2 | 2.88 | Down | 2.88 | Down |
| 1510017 | LOC388588 | 2.88 | Down | 3.12 | Down |
| 940471 | C5orf13 | 2.87 | Down | 2.11 | Down |
| 1430762 | TGDS | 2.87 | Down | 3.62 | Down |
| 2970521 | PGRMC1 | 2.87 | Down | 3.70 | Down |
| 4150070 | DNAJC19 | 2.87 | Down | 3.06 | Down |
| 1500465 | AASS | 2.87 | Down | 2.83 | Down |
| 7000672 | AGL | 2.86 | Down | 3.15 | Down |
| 3310324 | ALKBH7 | 2.86 | Down | 3.09 | Down |
| 4830315 | DUSP10 | 2.86 | Down | 3.22 | Down |
| 4040066 | LOC644334 | 2.86 | Down | 3.01 | Down |
| 7150521 | TM6SF2 | 2.86 | Down | 5.72 | Down |
| 5670468 | EIF5 | 2.86 | Down | 2.61 | Down |
| 3830273 | NIT2 | 2.86 | Down | 2.85 | Down |
| 6180047 | STBD1 | 2.86 | Down | 4.02 | Down |
| 840253 | ALDH2 | 2.85 | Down | 3.03 | Down |
| 630259 | VPS37D | 2.85 | Down | 2.78 | Down |
| 6020315 | C1orf97 | 2.85 | Down | 2.83 | Down |
| 4070379 | PCYT2 | 2.84 | Down | 4.59 | Down |
| 60280 | AASS | 2.84 | Down | 2.77 | Down |
| 1510079 | CDNF | 2.84 | Down | 2.53 | Down |
| 10243 |  | 2.83 | Down | 3.02 | Down |
| 3850754 | KIAA1683 | 2.83 | Down | 2.53 | Down |
| 1450093 | ACAA2 | 2.83 | Down | 4.10 | Down |
| 2470463 | C11orf54 | 2.83 | Down | 2.68 | Down |
| 5260520 | THNSL1 | 2.82 | Down | 3.42 | Down |
| 1300762 | STEAP3 | 2.82 | Down | 5.60 | Down |
| 540056 | PCCB | 2.82 | Down | 4.19 | Down |
| 1170450 | NGEF | 2.82 | Down | 3.73 | Down |
| 3140537 | LRRC28 | 2.82 | Down | 3.13 | Down |
| 6860333 |  | 2.82 | Down | 2.75 | Down |
| 5910382 | RNASE4 | 2.81 | Down | 6.02 | Down |
| 5700309 | FAHD2B | 2.81 | Down | 3.50 | Down |
| 4900333 | HAGH | 2.81 | Down | 3.54 | Down |
| 4890408 | PMM1 | 2.81 | Down | 3.55 | Down |
| 6560402 | NR3C1 | 2.81 | Down | 2.76 | Down |
| 4780709 | ACOT4 | 2.80 | Down | 4.96 | Down |
| 630110 | SUOX | 2.80 | Down | 2.80 | Down |
| 6980458 | HSD17B2 | 2.80 | Down | 3.41 | Down |
| 2470279 | ACADM | 2.80 | Down | 3.18 | Down |
| 2060128 | ARMC6 | 2.78 | Down | 3.43 | Down |
| 2100079 | DCI | 2.78 | Down | 3.20 | Down |
| 4200400 | CA14 | 2.78 | Down | 3.47 | Down |
| 6180678 | TMEM143 | 2.77 | Down | 2.57 | Down |
| 2000167 | JUB | 2.77 | Down | 3.28 | Down |
| 6450154 | LSS | 2.77 | Down | 2.63 | Down |
| 60598 | TMEM220 | 2.76 | Down | 2.82 | Down |
| 6590541 | PAQR9 | 2.76 | Down | 3.96 | Down |
| 5720112 | TOM1L1 | 2.76 | Down | 3.43 | Down |
| 1580475 | LMO7 | 2.76 | Down | 2.79 | Down |
| 1820008 | METTL7A | 2.75 | Down | 3.17 | Down |
| 3830044 | GRTP1 | 2.74 | Down | 2.89 | Down |
| 6100056 | HSD17B10 | 2.73 | Down | 3.25 | Down |
| 5810424 | C1RL | 2.73 | Down | 2.40 | Down |
| 3190433 | STARD5 | 2.73 | Down | 3.02 | Down |
| 2630670 | KLHL17 | 2.73 | Down | 3.99 | Down |
| 1780209 | LOC645378 | 2.73 | Down | 2.62 | Down |
| 6110577 | MYL5 | 2.72 | Down | 2.61 | Down |
| 5700484 | RHBG | 2.72 | Down | 3.07 | Down |
| 6020603 | LEAP-2 | 2.72 | Down | 3.85 | Down |
| 5270112 | HMGCS1 | 2.72 | Down | 3.31 | Down |
| 5130754 | TPPP2 | 2.72 | Down | 2.62 | Down |
| 870241 | MAP2K7 | 2.71 | Down | 2.88 | Down |
| 5220612 | ECHDC3 | 2.71 | Down | 3.77 | Down |
| 6770615 |  | 2.70 | Down | 2.39 | Down |
| 3460010 | MYL5 | 2.70 | Down | 2.43 | Down |
| 2690563 | SLC23A1 | 2.70 | Down | 3.51 | Down |
| 870528 |  | 2.70 | Down | 2.43 | Down |
| 4570379 | MPST | 2.70 | Down | 3.82 | Down |
| 2940113 | AGL | 2.70 | Down | 3.36 | Down |
| 4730670 | GCLC | 2.70 | Down | 3.21 | Down |
| 840259 | SERINC3 | 2.69 | Down | 2.53 | Down |
| 4260309 | MAST4 | 2.69 | Down | 3.10 | Down |
| 4640630 | CD302 | 2.69 | Down | 2.07 | Down |
| 2940075 | STRADB | 2.68 | Down | 3.48 | Down |
| 2970703 | RNF125 | 2.68 | Down | 2.16 | Down |
| 4150278 | DUSP14 | 2.68 | Down | 2.35 | Down |
| 7040433 | L2HGDH | 2.66 | Down | 3.24 | Down |
| 3850273 | PEBP1 | 2.66 | Down | 3.18 | Down |
| 6020674 | FLJ38482 | 2.66 | Down | 2.63 | Down |
| 3450725 | PCYOX1 | 2.66 | Down | 2.50 | Down |
| 6370553 | EPHA1 | 2.66 | Down | 3.03 | Down |
| 6900253 | DGCR6 | 2.66 | Down | 2.20 | Down |
| 5270414 | LOC441461 | 2.66 | Down | 2.88 | Down |
| 7050400 | FLJ33996 | 2.65 | Down | 2.77 | Down |
| 7200647 | MGC70857 | 2.65 | Down | 2.77 | Down |
| 3450228 | IL17RC | 2.65 | Down | 2.42 | Down |
| 5260019 | CES8 | 2.64 | Down | 3.17 | Down |
| 4830086 | FOLH1 | 2.64 | Down | 2.67 | Down |
| 670255 | GADD45A | 2.63 | Down | 2.52 | Down |
| 4860301 | RAPH1 | 2.63 | Down | 2.71 | Down |
| 6590563 |  | 2.63 | Down | 2.30 | Down |
| 5310121 | SLC25A42 | 2.63 | Down | 3.08 | Down |
| 2000398 | EIF5 | 2.63 | Down | 2.48 | Down |
| 7200274 | DGCR6 | 2.62 | Down | 2.49 | Down |
| 7160156 | C22orf36 | 2.62 | Down | 2.06 | Down |
| 1070471 | CLU | 2.61 | Down | 2.79 | Down |
| 830274 |  | 2.61 | Down | 2.64 | Down |
| 650753 | AFF3 | 2.61 | Down | 2.82 | Down |
| 610400 | C11orf1 | 2.61 | Down | 2.84 | Down |
| 5050575 | ASB13 | 2.61 | Down | 2.30 | Down |
| 6450327 | CADM1 | 2.61 | Down | 2.48 | Down |
| 2350162 |  | 2.60 | Down | 2.90 | Down |
| 2340441 | SLC22A18AS | 2.60 | Down | 3.62 | Down |
| 6220722 | MSRA | 2.59 | Down | 2.73 | Down |
| 6980048 | GOT2 | 2.59 | Down | 3.13 | Down |
| 5220022 | GFRA1 | 2.59 | Down | 2.92 | Down |
| 4480341 | DHCR24 | 2.59 | Down | 3.52 | Down |
| 3420739 | SNTB1 | 2.59 | Down | 4.45 | Down |
| 6860411 | ST7 | 2.58 | Down | 2.81 | Down |
| 1990291 | CRADD | 2.58 | Down | 3.13 | Down |
| 5960398 | NT5E | 2.58 | Down | 3.09 | Down |
| 10259 | DUSP10 | 2.58 | Down | 2.44 | Down |
| 7510544 | DNAJC22 | 2.57 | Down | 3.12 | Down |
| 2320373 | SILV | 2.57 | Down | 2.73 | Down |
| 1710494 | ATRN | 2.57 | Down | 2.38 | Down |
| 1010152 | KIAA0922 | 2.57 | Down | 2.05 | Down |
| 3170491 | PDIA5 | 2.57 | Down | 2.99 | Down |
| 1440470 | TRPV1 | 2.57 | Down | 2.58 | Down |
| 3710400 | AHNAK | 2.56 | Down | 2.65 | Down |
| 290465 | FBXW5 | 2.56 | Down | 3.33 | Down |
| 5050274 | DHRS12 | 2.56 | Down | 2.51 | Down |
| 1410091 | BTD | 2.55 | Down | 3.00 | Down |
| 510224 | LPIN2 | 2.55 | Down | 2.81 | Down |
| 2370608 | LOC339240 | 2.55 | Down | 2.67 | Down |
| 380603 | SLC31A1 | 2.55 | Down | 3.12 | Down |
| 4120386 | PCOLCE | 2.55 | Down | 2.51 | Down |
| 1010364 | DGCR6 | 2.55 | Down | 2.43 | Down |
| 3840463 | TADA1L | 2.55 | Down | 2.86 | Down |
| 4060543 | SEMA4G | 2.54 | Down | 3.14 | Down |
| 2030736 | SEPHS2 | 2.54 | Down | 3.75 | Down |
| 5270139 | PEX11G | 2.54 | Down | 2.48 | Down |
| 5820202 | LOC644131 | 2.54 | Down | 3.00 | Down |
| 1980093 | GLTPD2 | 2.54 | Down | 4.23 | Down |
| 6480382 | SLC17A1 | 2.54 | Down | 3.07 | Down |
| 7100180 | FDX1 | 2.53 | Down | 2.52 | Down |
| 6840192 | ECM2 | 2.53 | Down | 2.29 | Down |
| 3890647 | MGST1 | 2.53 | Down | 3.26 | Down |
| 6180553 | C11orf35 | 2.53 | Down | 2.73 | Down |
| 4490220 | SCCPDH | 2.52 | Down | 4.27 | Down |
| 4200195 | ZNF684 | 2.52 | Down | 3.22 | Down |
| 1450309 | FLJ20699 | 2.52 | Down | 4.00 | Down |
| 1070315 | ADRA1A | 2.52 | Down | 2.35 | Down |
| 1230543 | C11orf71 | 2.51 | Down | 2.45 | Down |
| 7000397 | KANK1 | 2.51 | Down | 2.21 | Down |
| 1710437 |  | 2.51 | Down | 4.66 | Down |
| 5050110 | EIF5 | 2.50 | Down | 2.34 | Down |
| 1780470 | CES3 | 2.49 | Down | 3.04 | Down |
| 3850730 | BSN | 2.49 | Down | 2.84 | Down |
| 5720598 | MYO1B | 2.49 | Down | 2.87 | Down |
| 1980300 | HYAL1 | 2.49 | Down | 4.40 | Down |
| 6290717 | DMRTA1 | 2.48 | Down | 3.40 | Down |
| 840021 | LOC643692 | 2.48 | Down | 2.57 | Down |
| 7160670 | TGIF1 | 2.48 | Down | 2.44 | Down |
| 580609 | ETFDH | 2.48 | Down | 4.55 | Down |
| 3460626 | ANKRD24 | 2.47 | Down | 2.68 | Down |
| 2480450 | GALM | 2.47 | Down | 2.53 | Down |
| 1660133 | LOC440925 | 2.47 | Down | 2.39 | Down |
| 2470008 | PPARA | 2.47 | Down | 3.16 | Down |
| 2640324 | SLC46A3 | 2.47 | Down | 2.44 | Down |
| 1340274 | DHRS4 | 2.47 | Down | 2.72 | Down |
| 1190327 | ACOX1 | 2.47 | Down | 4.38 | Down |
| 270646 | NCOR1 | 2.47 | Down | 2.44 | Down |
| 4060332 | IGF1 | 2.47 | Down | 3.43 | Down |
| 3450086 | LOC149134 | 2.47 | Down | 2.43 | Down |
| 110100 | CGNL1 | 2.47 | Down | 3.07 | Down |
| 5870576 | C21orf33 | 2.47 | Down | 3.11 | Down |
| 5810100 | RGN | 2.46 | Down | 2.53 | Down |
| 5860112 | FGFRL1 | 2.46 | Down | 3.38 | Down |
| 6110487 | PACSIN3 | 2.46 | Down | 2.16 | Down |
| 5130706 |  | 2.46 | Down | 2.34 | Down |
| 4640315 | CBLN4 | 2.46 | Down | 2.20 | Down |
| 6040017 | TTC38 | 2.46 | Down | 4.48 | Down |
| 1500673 | ENHO | 2.45 | Down | 2.65 | Down |
| 4480220 | FGFRL1 | 2.45 | Down | 3.74 | Down |
| 6590139 | LASS4 | 2.45 | Down | 2.37 | Down |
| 1190465 | SERPINA4 | 2.45 | Down | 2.79 | Down |
| 3360279 | CFH | 2.44 | Down | 2.33 | Down |
| 2970332 | WEE1 | 2.44 | Down | 2.67 | Down |
| 4890102 | FZD5 | 2.44 | Down | 3.26 | Down |
| 1110382 | ANKS4B | 2.43 | Down | 3.04 | Down |
| 4230142 | LST-3TM12 | 2.43 | Down | 2.69 | Down |
| 6290709 | HADH | 2.43 | Down | 3.19 | Down |
| 6510661 | SS18L1 | 2.43 | Down | 3.25 | Down |
| 3360601 | TMEM105 | 2.43 | Down | 2.30 | Down |
| 2630687 | CHPT1 | 2.43 | Down | 2.96 | Down |
| 5690102 | BTBD16 | 2.43 | Down | 3.59 | Down |
| 6220360 | ALDH4A1 | 2.42 | Down | 3.36 | Down |
| 1010768 | NDUFB6 | 2.41 | Down | 2.45 | Down |
| 4670491 |  | 2.41 | Down | 2.05 | Down |
| 2100241 | RAPH1 | 2.41 | Down | 2.07 | Down |
| 10594 | PECI | 2.41 | Down | 3.33 | Down |
| 6900301 | C4orf34 | 2.41 | Down | 3.45 | Down |
| 150064 | ABHD14B | 2.40 | Down | 2.56 | Down |
| 6200187 | TNFAIP8L1 | 2.40 | Down | 2.41 | Down |
| 2900035 | LYPLAL1 | 2.40 | Down | 2.81 | Down |
| 2350168 | SCN9A | 2.40 | Down | 2.14 | Down |
| 2630333 | CYB5D2 | 2.39 | Down | 2.10 | Down |
| 1050671 | EGFR | 2.39 | Down | 2.40 | Down |
| 3780445 | ABCA5 | 2.39 | Down | 2.63 | Down |
| 2970114 | PHYHD1 | 2.39 | Down | 2.04 | Down |
| 5550612 | BRP44 | 2.39 | Down | 3.08 | Down |
| 6200484 | RAB43 | 2.39 | Down | 2.39 | Down |
| 4850681 | ASL | 2.39 | Down | 3.97 | Down |
| 7160402 | KLHDC9 | 2.39 | Down | 2.18 | Down |
| 2600670 | FLJ23754 | 2.39 | Down | 2.18 | Down |
| 4850414 | KIAA0564 | 2.39 | Down | 2.58 | Down |
| 2000138 | LOC642197 | 2.38 | Down | 2.10 | Down |
| 6580279 |  | 2.38 | Down | 3.39 | Down |
| 5080017 | GNRH2 | 2.38 | Down | 3.91 | Down |
| 3120196 | ALDH3A2 | 2.38 | Down | 3.12 | Down |
| 6270725 | SULT1A1 | 2.38 | Down | 2.41 | Down |
| 4540376 | FAM13A | 2.38 | Down | 2.25 | Down |
| 5910450 | LOC645176 | 2.38 | Down | 2.03 | Down |
| 7560300 | TCTEX1D1 | 2.37 | Down | 2.40 | Down |
| 2750598 | ANKRD46 | 2.37 | Down | 2.38 | Down |
| 6770754 | SELO | 2.37 | Down | 2.86 | Down |
| 4560288 | ERBB3 | 2.37 | Down | 2.15 | Down |
| 5870673 | KLF11 | 2.37 | Down | 2.04 | Down |
| 3180273 | PDXP | 2.36 | Down | 3.89 | Down |
| 4890291 | MOGAT2 | 2.36 | Down | 2.73 | Down |
| 1240333 |  | 2.35 | Down | 2.12 | Down |
| 1500112 | ORMDL3 | 2.35 | Down | 2.84 | Down |
| 7330639 | NR5A2 | 2.35 | Down | 2.06 | Down |
| 2360593 | DDT | 2.35 | Down | 3.93 | Down |
| 6560327 | ACAD10 | 2.35 | Down | 2.49 | Down |
| 2630204 | ENPP3 | 2.35 | Down | 2.43 | Down |
| 1170707 | CFL2 | 2.35 | Down | 2.14 | Down |
| 4920685 | LPAL2 | 2.35 | Down | 2.26 | Down |
| 2600286 | CCS | 2.34 | Down | 2.14 | Down |
| 2070243 | SLC2A4RG | 2.34 | Down | 2.62 | Down |
| 4120408 | NR5A2 | 2.34 | Down | 2.22 | Down |
| 5720474 | TMCO6 | 2.33 | Down | 2.19 | Down |
| 840014 | TPMT | 2.33 | Down | 2.43 | Down |
| 4850685 | ENTPD8 | 2.33 | Down | 3.14 | Down |
| 2320433 | ATRN | 2.33 | Down | 2.28 | Down |
| 2000424 |  | 2.33 | Down | 2.20 | Down |
| 1710010 |  | 2.32 | Down | 2.17 | Down |
| 2710722 | FOLH1B | 2.31 | Down | 2.45 | Down |
| 7210762 | MFSD8 | 2.31 | Down | 2.16 | Down |
| 1190193 | CRY2 | 2.30 | Down | 2.59 | Down |
| 150475 | LARP1B | 2.30 | Down | 2.57 | Down |
| 160142 | GPR89A | 2.30 | Down | 2.17 | Down |
| 1850176 | RSC1A1 | 2.30 | Down | 2.02 | Down |
| 460519 | RABEPK | 2.30 | Down | 3.32 | Down |
| 4640750 | HIBCH | 2.30 | Down | 3.16 | Down |
| 6620598 | ASL | 2.30 | Down | 4.39 | Down |
| 4040021 |  | 2.30 | Down | 2.23 | Down |
| 10484 | CYP2B6 | 2.29 | Down | 2.37 | Down |
| 3460435 | LOC388503 | 2.28 | Down | 2.40 | Down |
| 5490546 | SLC30A1 | 2.28 | Down | 2.92 | Down |
| 1410114 | PID1 | 2.28 | Down | 2.98 | Down |
| 1980608 | CRYM | 2.28 | Down | 2.54 | Down |
| 1470390 | C7orf11 | 2.28 | Down | 2.46 | Down |
| 4570575 | ST7 | 2.28 | Down | 2.43 | Down |
| 4830451 | GYG2 | 2.27 | Down | 3.21 | Down |
| 5810619 | TADA1L | 2.27 | Down | 2.35 | Down |
| 4830010 | USP30 | 2.27 | Down | 2.36 | Down |
| 4220520 | TMEM57 | 2.27 | Down | 2.16 | Down |
| 620113 | ABHD1 | 2.27 | Down | 2.33 | Down |
| 1050187 | MRPL11 | 2.27 | Down | 3.00 | Down |
| 2570646 | IL11RA | 2.26 | Down | 2.49 | Down |
| 2260408 |  | 2.26 | Down | 2.51 | Down |
| 5340332 | LOC729101 | 2.26 | Down | 2.33 | Down |
| 1510082 | LARP1B | 2.26 | Down | 3.02 | Down |
| 6580092 | GNAO1 | 2.26 | Down | 2.40 | Down |
| 2810296 | BCKDHA | 2.26 | Down | 2.22 | Down |
| 130646 | RALGPS2 | 2.26 | Down | 2.23 | Down |
| 6420392 | OCIAD2 | 2.26 | Down | 3.38 | Down |
| 1240309 | FOXRED1 | 2.26 | Down | 2.43 | Down |
| 3180048 | IDH1 | 2.25 | Down | 4.08 | Down |
| 3990671 | DENND2C | 2.25 | Down | 2.57 | Down |
| 5860348 | SC4MOL | 2.25 | Down | 3.78 | Down |
| 7380619 | LOC728037 | 2.24 | Down | 2.08 | Down |
| 4540674 | MIA2 | 2.24 | Down | 2.15 | Down |
| 610189 | COBL | 2.24 | Down | 2.81 | Down |
| 7560278 | LOC648705 | 2.24 | Down | 2.19 | Down |
| 7160603 | ABCC6 | 2.24 | Down | 2.81 | Down |
| 4610554 | AK3L1 | 2.24 | Down | 4.38 | Down |
| 1230754 | POR | 2.23 | Down | 3.85 | Down |
| 7400711 | KIAA0664 | 2.23 | Down | 2.51 | Down |
| 4220193 | SIGIRR | 2.23 | Down | 2.38 | Down |
| 2760102 | ANKMY1 | 2.23 | Down | 2.05 | Down |
| 5560576 | NEDD4 | 2.22 | Down | 2.10 | Down |
| 380347 | LOC641983 | 2.22 | Down | 2.40 | Down |
| 6180121 | CLYBL | 2.22 | Down | 2.20 | Down |
| 3850463 | T-SP1 | 2.22 | Down | 2.39 | Down |
| 6290059 | ACOT2 | 2.22 | Down | 2.42 | Down |
| 2140047 | FBXO17 | 2.22 | Down | 2.10 | Down |
| 2480136 | HIBADH | 2.21 | Down | 2.68 | Down |
| 1510731 | KIAA1875 | 2.21 | Down | 2.55 | Down |
| 2070450 | PDE8A | 2.21 | Down | 2.58 | Down |
| 2470577 | ZCWPW1 | 2.21 | Down | 2.18 | Down |
| 6520243 | ATRN | 2.21 | Down | 2.21 | Down |
| 5130601 | LOC642197 | 2.20 | Down | 2.41 | Down |
| 3850392 | TMEM192 | 2.20 | Down | 2.23 | Down |
| 5810300 | CFL2 | 2.20 | Down | 2.03 | Down |
| 6130747 | PRPSAP1 | 2.20 | Down | 2.36 | Down |
| 7510341 | SYT9 | 2.20 | Down | 2.19 | Down |
| 1770025 | SYNE2 | 2.20 | Down | 2.23 | Down |
| 1850524 | C10orf32 | 2.20 | Down | 2.76 | Down |
| 5080162 | KTN1 | 2.20 | Down | 2.42 | Down |
| 1690608 | ALDH3A2 | 2.19 | Down | 2.91 | Down |
| 1110255 | CCS | 2.19 | Down | 2.23 | Down |
| 70689 | MTCH2 | 2.18 | Down | 2.56 | Down |
| 5290132 | COL18A1 | 2.18 | Down | 2.23 | Down |
| 3360743 | NUDT6 | 2.18 | Down | 2.37 | Down |
| 2030692 | LOC642953 | 2.18 | Down | 2.08 | Down |
| 3120053 | HOOK1 | 2.17 | Down | 2.68 | Down |
| 3890768 | HSD17B3 | 2.17 | Down | 2.19 | Down |
| 3370349 | CFB | 2.17 | Down | 3.69 | Down |
| 430332 | ATP11C | 2.17 | Down | 2.17 | Down |
| 4390368 | MYRIP | 2.17 | Down | 2.05 | Down |
| 6100594 | PCBD2 | 2.17 | Down | 2.10 | Down |
| 4830255 | DPP4 | 2.17 | Down | 2.34 | Down |
| 1010500 | UGP2 | 2.16 | Down | 2.36 | Down |
| 6650692 | ISOC2 | 2.16 | Down | 3.29 | Down |
| 7100064 | FBXO17 | 2.16 | Down | 2.17 | Down |
| 1580519 | SCLY | 2.14 | Down | 2.40 | Down |
| 5670470 | KIAA0564 | 2.14 | Down | 2.48 | Down |
| 5290672 | ACYP2 | 2.14 | Down | 2.15 | Down |
| 2810093 | LOC285074 | 2.13 | Down | 2.01 | Down |
| 1090026 | PMPCA | 2.13 | Down | 2.75 | Down |
| 7550735 | MPST | 2.13 | Down | 2.60 | Down |
| 7100390 | ABCC6 | 2.13 | Down | 2.74 | Down |
| 1430612 |  | 2.12 | Down | 2.05 | Down |
| 650053 | LOC653242 | 2.12 | Down | 2.17 | Down |
| 3850026 | TP53AP1 | 2.12 | Down | 2.50 | Down |
| 240477 | NHEDC2 | 2.12 | Down | 2.63 | Down |
| 2810364 | KLHDC2 | 2.12 | Down | 2.16 | Down |
| 5810059 |  | 2.12 | Down | 2.01 | Down |
| 1780315 | C14orf73 | 2.12 | Down | 2.23 | Down |
| 3190338 | HDHD3 | 2.12 | Down | 2.85 | Down |
| 6220161 | SLC25A20 | 2.12 | Down | 3.32 | Down |
| 5870605 |  | 2.12 | Down | 2.04 | Down |
| 5090414 | MRPL40 | 2.11 | Down | 2.39 | Down |
| 6270079 |  | 2.11 | Down | 2.10 | Down |
| 4220440 | IQGAP2 | 2.11 | Down | 2.70 | Down |
| 1780025 | STARD5 | 2.11 | Down | 2.31 | Down |
| 2140154 | CYB5A | 2.11 | Down | 3.45 | Down |
| 6420632 | MCCC1 | 2.10 | Down | 2.47 | Down |
| 5360630 | C16orf80 | 2.10 | Down | 2.08 | Down |
| 2710446 | CRLS1 | 2.10 | Down | 2.85 | Down |
| 4670671 | ACP6 | 2.10 | Down | 2.28 | Down |
| 830523 | GPR126 | 2.10 | Down | 3.58 | Down |
| 4560528 | POP5 | 2.10 | Down | 2.01 | Down |
| 1850402 | LOC731007 | 2.09 | Down | 3.24 | Down |
| 7330544 | ALDOC | 2.09 | Down | 3.15 | Down |
| 5960382 | AQP7P2 | 2.09 | Down | 3.30 | Down |
| 2480075 | ATF7IP2 | 2.09 | Down | 2.37 | Down |
| 5560026 | GTF2IRD2B | 2.09 | Down | 2.44 | Down |
| 4280370 | SELI | 2.09 | Down | 2.34 | Down |
| 1430152 | SCML1 | 2.09 | Down | 2.44 | Down |
| 150706 | UGP2 | 2.08 | Down | 2.99 | Down |
| 4070615 | WNT3 | 2.08 | Down | 2.66 | Down |
| 150059 | SCNN1D | 2.08 | Down | 2.58 | Down |
| 4850370 | WNT5B | 2.08 | Down | 2.16 | Down |
| 4250139 | FLJ20581 | 2.08 | Down | 2.36 | Down |
| 2690402 | ABHD6 | 2.08 | Down | 3.22 | Down |
| 6900398 | FDPS | 2.08 | Down | 2.47 | Down |
| 1470743 | CFH | 2.08 | Down | 2.44 | Down |
| 2370671 | TSPAN12 | 2.08 | Down | 2.35 | Down |
| 1690687 | TM6SF2 | 2.07 | Down | 2.34 | Down |
| 4230093 | ABCC6 | 2.07 | Down | 2.35 | Down |
| 5870608 | PPP1R3B | 2.07 | Down | 2.66 | Down |
| 5310746 | MSTP9 | 2.07 | Down | 2.00 | Down |
| 1240379 | ALDH1B1 | 2.06 | Down | 3.37 | Down |
| 1110576 | BCL2L10 | 2.06 | Down | 2.38 | Down |
| 3710039 | MRPL54 | 2.06 | Down | 2.25 | Down |
| 6350379 | LOC123876 | 2.05 | Down | 2.32 | Down |
| 5130128 | PLK1 | 2.05 | Down | 2.85 | Down |
| 7330377 | MLYCD | 2.05 | Down | 2.63 | Down |
| 2140128 | SCD | 2.05 | Down | 2.86 | Down |
| 2750025 | PEX19 | 2.05 | Down | 2.16 | Down |
| 2640554 | EEF1B2 | 2.05 | Down | 2.52 | Down |
| 5220204 | C19orf66 | 2.04 | Down | 2.36 | Down |
| 5050750 | PPP4R1L | 2.04 | Down | 3.07 | Down |
| 6620669 | C3orf23 | 2.04 | Down | 2.67 | Down |
| 3460270 | ZHX3 | 2.04 | Down | 2.05 | Down |
| 4150309 | ZNHIT1 | 2.04 | Down | 2.37 | Down |
| 630653 | RAD51 | 2.04 | Down | 2.23 | Down |
| 2750630 | CCS | 2.04 | Down | 2.11 | Down |
| 1240551 | ACADVL | 2.04 | Down | 2.89 | Down |
| 2070279 | PIGV | 2.04 | Down | 2.49 | Down |
| 6760088 | FXN | 2.04 | Down | 2.06 | Down |
| 2060554 | PDZK1 | 2.04 | Down | 2.40 | Down |
| 6620279 | SEPSECS | 2.04 | Down | 2.36 | Down |
| 6580487 | HSD17B11 | 2.03 | Down | 2.98 | Down |
| 3930035 | UGP2 | 2.03 | Down | 2.80 | Down |
| 5690156 | TTC31 | 2.03 | Down | 2.34 | Down |
| 5570646 | SCML1 | 2.03 | Down | 2.04 | Down |
| 2230376 | C4orf34 | 2.03 | Down | 2.28 | Down |
| 7200612 | LOC730417 | 2.02 | Down | 2.08 | Down |
| 7380291 | CYP2D7P1 | 2.02 | Down | 2.31 | Down |
| 3120437 | CRAT | 2.02 | Down | 2.58 | Down |
| 3520437 | CHDH | 2.02 | Down | 2.08 | Down |
| 3710324 | SURF1 | 2.02 | Down | 2.46 | Down |
| 4900270 | EBAG9 | 2.02 | Down | 2.24 | Down |
| 2970059 | SHMT1 | 2.02 | Down | 2.13 | Down |
| 4730541 | SLC44A1 | 2.01 | Down | 2.98 | Down |
| 1780348 | FH | 2.01 | Down | 2.49 | Down |
| 4670520 | C16orf70 | 2.01 | Down | 2.07 | Down |
| 670463 | AK3 | 2.01 | Down | 2.04 | Down |
| 730672 | HGD | 2.01 | Down | 2.18 | Down |
| 6290452 | NAT1 | 2.01 | Down | 2.41 | Down |
| 160307 | C9orf3 | 2.01 | Down | 2.00 | Down |
| 6330438 | PLXNB1 | 2.01 | Down | 2.29 | Down |
| 2850551 | RCAN1 | 2.00 | Down | 2.37 | Down |
| 5820491 | MAP7 | 2.00 | Down | 2.78 | Down |
| 1070400 | HYAL1 | 2.00 | Down | 2.76 | Down |
| 4830382 | CPEB2 | 2.00 | Down | 2.03 | Down |

Entries in the table are arranged first according to regulation (up-regulation vs. down-regulation) and then in a descending order of fold-change in expression. The rows with no entry in the ‘Gene symbol’ column relate to probes which are still unannotated.

**Appendix 3 List of gene entities (n=1235) found to be differentially expressed in liver tissue from patients with fulminant hepatitis E as compared to normal liver tissue, but not in patients with fulminant hepatitis B compared to normal liver tissue**

| **Probe ID** | **Gene symbol** | **Fold change** | **Regulation** |
| --- | --- | --- | --- |
| 3800088 | MMP7 | 17.90533 | Up |
| 2350537 | MMP7 | 17.04398 | Up |
| 4210703 | RPL15 | 7.495458 | Up |
| 6280541 | LAMC3 | 7.390788 | Up |
| 4480497 | SIGLEC10 | 6.263634 | Up |
| 6900097 | FNDC1 | 6.062562 | Up |
| 6860154 | FXYD2 | 6.021869 | Up |
| 2340309 | FNDC1 | 6.010924 | Up |
| 840324 | CLDN10 | 5.981471 | Up |
| 1030286 | SLC5A1 | 5.378165 | Up |
| 5870131 | CFTR | 5.36263 | Up |
| 5390703 | SCARF2 | 5.307248 | Up |
| 7380719 | IGFBP6 | 5.204194 | Up |
| 5890280 | SFRP5 | 5.177437 | Up |
| 3310520 | MOXD1 | 5.177256 | Up |
| 3940270 | LILRA5 | 5.160632 | Up |
| 7000433 | SCTR | 5.117463 | Up |
| 1170246 | GEM | 5.055745 | Up |
| 7320204 | C1QTNF5 | 5.032847 | Up |
| 7380767 | CHST4 | 5.025707 | Up |
| 2350274 | AHSP | 4.926397 | Up |
| 5570278 | CXCL9 | 4.863357 | Up |
| 6110079 | CRYAB | 4.815414 | Up |
| 6330270 | GPC4 | 4.798288 | Up |
| 1300670 | FHOD3 | 4.794818 | Up |
| 1440408 | GEM | 4.793576 | Up |
| 620717 | CCL5 | 4.599181 | Up |
| 3850148 | ARHGAP25 | 4.536641 | Up |
| 1070114 | HEYL | 4.432441 | Up |
| 2340292 | HGF | 4.424068 | Up |
| 3400431 | CLDN11 | 4.403473 | Up |
| 2470730 |  | 4.311113 | Up |
| 5360376 | LAPTM5 | 4.265113 | Up |
| 6960630 | CD97 | 4.225905 | Up |
| 1230228 | MSLN | 4.219001 | Up |
| 730491 | C1orf116 | 4.198679 | Up |
| 4230735 | FAM129A | 4.186318 | Up |
| 2600278 | C1orf54 | 4.179421 | Up |
| 7050082 | ACP5 | 4.157126 | Up |
| 3170128 | CD8A | 4.143785 | Up |
| 4810209 | GABRP | 4.126977 | Up |
| 5310544 | MOXD1 | 4.077057 | Up |
| 6560674 | DCDC2 | 4.066298 | Up |
| 6400463 | INMT | 4.049419 | Up |
| 5220093 | HAVCR2 | 4.03804 | Up |
| 2640037 | CD209 | 4.025338 | Up |
| 6220494 | LINCR | 4.008603 | Up |
| 730482 | IKZF1 | 4.005391 | Up |
| 2370632 | MMP11 | 3.983748 | Up |
| 670369 | CD8A | 3.971118 | Up |
| 2140136 | EMR2 | 3.962596 | Up |
| 3450138 | CTSC | 3.940589 | Up |
| 6660601 | HMOX1 | 3.918424 | Up |
| 3120440 |  | 3.888413 | Up |
| 4560592 | SLIT2 | 3.879737 | Up |
| 7560139 | NLGN4X | 3.875521 | Up |
| 7200743 | SLAMF6 | 3.84739 | Up |
| 130128 | LOC285016 | 3.837932 | Up |
| 5270619 | FGD3 | 3.828427 | Up |
| 1440348 | SLCO3A1 | 3.818151 | Up |
| 3890689 | CD247 | 3.769588 | Up |
| 6480040 | PODN | 3.769241 | Up |
| 1580576 | ITM2A | 3.740223 | Up |
| 780341 | CCDC3 | 3.720793 | Up |
| 5390451 | DKK3 | 3.686914 | Up |
| 7570408 | CCL5 | 3.679642 | Up |
| 4480270 |  | 3.668764 | Up |
| 2810246 | LBH | 3.664064 | Up |
| 5390730 | PIK3IP1 | 3.652391 | Up |
| 6650477 | CLDN10 | 3.640183 | Up |
| 1440341 | C1QC | 3.634966 | Up |
| 3370768 | C1orf24 | 3.634809 | Up |
| 5340017 | H19 | 3.615274 | Up |
| 5310437 | MYL9 | 3.603617 | Up |
| 4220603 | SPI1 | 3.597665 | Up |
| 7050719 | C1orf162 | 3.595984 | Up |
| 6060315 | FERMT3 | 3.59064 | Up |
| 2760541 | CDH19 | 3.582703 | Up |
| 1990079 | FBXO32 | 3.580618 | Up |
| 4070133 | DKK3 | 3.576462 | Up |
| 2850576 | SEMA4A | 3.551762 | Up |
| 3400600 | ADAMTS2 | 3.540083 | Up |
| 6550333 | CXCR6 | 3.532401 | Up |
| 5810398 | SPI1 | 3.522277 | Up |
| 1440564 | RUNX3 | 3.499636 | Up |
| 7650672 | ANGPTL2 | 3.482323 | Up |
| 4210630 | ARHGAP23 | 3.472367 | Up |
| 5870008 |  | 3.469791 | Up |
| 3370544 | KCNJ16 | 3.4656 | Up |
| 540671 | LILRB2 | 3.464911 | Up |
| 3850440 | FCER1G | 3.461584 | Up |
| 6110133 | COLEC11 | 3.460197 | Up |
| 5310364 | PAPLN | 3.454922 | Up |
| 6200168 | PIM2 | 3.454308 | Up |
| 3370139 | MYO1G | 3.429892 | Up |
| 2940685 | C1QA | 3.422931 | Up |
| 4250315 | ITGA9 | 3.410506 | Up |
| 4050288 | CLSTN2 | 3.395856 | Up |
| 1230615 | WFDC1 | 3.384646 | Up |
| 20129 | CD52 | 3.382712 | Up |
| 1940048 | CLEC11A | 3.375562 | Up |
| 3610709 | PAG1 | 3.371034 | Up |
| 5360743 | COL16A1 | 3.355448 | Up |
| 2190717 | IL18BP | 3.351173 | Up |
| 1050390 | NLGN4X | 3.347588 | Up |
| 6290400 | CD247 | 3.344712 | Up |
| 5690639 | FBLN5 | 3.331307 | Up |
| 4670193 | PRF1 | 3.330668 | Up |
| 2190674 | IGFBP5 | 3.314091 | Up |
| 1260079 |  | 3.313466 | Up |
| 2680241 | ILDR1 | 3.289754 | Up |
| 5270367 | CTSC | 3.287307 | Up |
| 1260482 | GZMK | 3.286822 | Up |
| 6280100 | GPSM1 | 3.285999 | Up |
| 3180392 | MARCO | 3.280632 | Up |
| 160070 | C16orf30 | 3.272022 | Up |
| 3170091 | GIMAP7 | 3.268606 | Up |
| 4830674 | BEX2 | 3.260972 | Up |
| 2970164 | EDNRB | 3.253916 | Up |
| 4670441 | FBLN5 | 3.253218 | Up |
| 4210465 | CD86 | 3.253172 | Up |
| 6550044 | FXYD2 | 3.247484 | Up |
| 3060612 | HK3 | 3.227202 | Up |
| 3830349 | IL7R | 3.219576 | Up |
| 6550204 | RSPO3 | 3.217514 | Up |
| 4830632 | SLC7A7 | 3.20211 | Up |
| 6480360 | TLR8 | 3.19564 | Up |
| 2940068 | GPBAR1 | 3.190746 | Up |
| 5560079 | GPBAR1 | 3.189992 | Up |
| 3180039 | RGL1 | 3.187673 | Up |
| 1660484 | VMO1 | 3.185537 | Up |
| 1400484 | LDOC1 | 3.178322 | Up |
| 4290315 | LTBP4 | 3.164095 | Up |
| 520678 | CD53 | 3.160447 | Up |
| 3360681 | TNFAIP3 | 3.158654 | Up |
| 6270022 | HCK | 3.157298 | Up |
| 5900189 | PDE1A | 3.150358 | Up |
| 2630373 |  | 3.147241 | Up |
| 6650731 | RBP1 | 3.137811 | Up |
| 3890095 | SOD3 | 3.131093 | Up |
| 4810575 | ADAMTSL2 | 3.128982 | Up |
| 4150201 | BCL2 | 3.127162 | Up |
| 6200064 | CECR1 | 3.123889 | Up |
| 5270241 | STK10 | 3.111632 | Up |
| 3890551 | CMTM3 | 3.110884 | Up |
| 5960021 |  | 3.10988 | Up |
| 3460161 | RAB3IL1 | 3.095634 | Up |
| 6450079 |  | 3.09444 | Up |
| 4780196 | CD300A | 3.092905 | Up |
| 1070014 | CSF1R | 3.091694 | Up |
| 1990008 | PTGIR | 3.089434 | Up |
| 1030296 | BCL11B | 3.085288 | Up |
| 7040386 | EDN1 | 3.079107 | Up |
| 3520735 | LZTS1 | 3.076304 | Up |
| 3610682 |  | 3.074611 | Up |
| 1660373 |  | 3.069027 | Up |
| 5960762 | PCDH18 | 3.067794 | Up |
| 2360148 | COMP | 3.061957 | Up |
| 5570520 | RRAD | 3.054418 | Up |
| 2680050 | SIRPG | 3.043945 | Up |
| 5720441 | RARB | 3.028953 | Up |
| 7560632 | ITK | 3.028494 | Up |
| 460102 | CD53 | 3.022043 | Up |
| 7000408 | LYPD2 | 3.021616 | Up |
| 4390301 | TRPV2 | 3.018511 | Up |
| 5270520 | FAIM3 | 3.016997 | Up |
| 130681 | RNASE6 | 3.011628 | Up |
| 2450465 | CYBRD1 | 3.002532 | Up |
| 1300408 | HCLS1 | 3.002189 | Up |
| 6350161 | LCP1 | 2.999551 | Up |
| 6290725 | FYN | 2.994839 | Up |
| 3140494 | GLIS3 | 2.989989 | Up |
| 6620437 | HOXA5 | 2.989016 | Up |
| 70451 | WAS | 2.986359 | Up |
| 6200685 | PARVG | 2.984357 | Up |
| 1470500 | HOXB5 | 2.982797 | Up |
| 1400601 | C20orf100 | 2.981844 | Up |
| 6220288 | PRDM1 | 2.978184 | Up |
| 4210619 | CD2 | 2.973769 | Up |
| 7040487 | SCNN1A | 2.951737 | Up |
| 1240615 | LPHN2 | 2.943769 | Up |
| 50719 | TTYH1 | 2.937889 | Up |
| 4730037 | SASH3 | 2.932627 | Up |
| 6180048 | NEDD9 | 2.91806 | Up |
| 4290209 | TMC6 | 2.914436 | Up |
| 1580411 | CD3D | 2.912294 | Up |
| 380026 | C1orf116 | 2.909847 | Up |
| 5570025 | NKD1 | 2.908738 | Up |
| 3460008 | TMEM173 | 2.904224 | Up |
| 870376 | C9orf152 | 2.901728 | Up |
| 6940215 | MRAS | 2.900328 | Up |
| 2690133 | PLEKHB1 | 2.899986 | Up |
| 5310397 | LRRC25 | 2.897196 | Up |
| 3940390 | TBXAS1 | 2.88335 | Up |
| 2850010 | AKNA | 2.87808 | Up |
| 4150193 | CD47 | 2.871757 | Up |
| 7320372 | EOMES | 2.869977 | Up |
| 1570168 | PRICKLE2 | 2.861996 | Up |
| 5080136 | ESRRG | 2.849682 | Up |
| 5700670 | WASPIP | 2.849066 | Up |
| 1710070 | ITGAM | 2.84631 | Up |
| 6100072 | DENND2A | 2.838042 | Up |
| 3370594 | LILRA2 | 2.83125 | Up |
| 1240228 | PAG1 | 2.829202 | Up |
| 1940296 | LOC387841 | 2.828441 | Up |
| 7050553 |  | 2.823314 | Up |
| 6580059 | UCP2 | 2.822438 | Up |
| 6040736 | GPR124 | 2.819129 | Up |
| 5360079 | GIMAP5 | 2.817353 | Up |
| 20246 | LILRB1 | 2.814268 | Up |
| 580403 | DFNA5 | 2.806928 | Up |
| 3930064 | FAM150A | 2.805461 | Up |
| 3610154 | LGR6 | 2.805447 | Up |
| 4570398 | F2R | 2.800188 | Up |
| 60470 | STX11 | 2.795308 | Up |
| 6760669 | SPRY1 | 2.789239 | Up |
| 3840554 | SPOCK2 | 2.788262 | Up |
| 7320669 | PAMR1 | 2.786756 | Up |
| 240333 | ETS1 | 2.783583 | Up |
| 1170653 | PDGFA | 2.781949 | Up |
| 3890373 | ITGB2 | 2.773316 | Up |
| 7210682 | ACAP1 | 2.770556 | Up |
| 580187 | PDE8B | 2.762487 | Up |
| 110382 | RAC2 | 2.762062 | Up |
| 7160224 | APH1B | 2.758616 | Up |
| 3180010 | SDK2 | 2.756221 | Up |
| 2120398 | KIAA1211 | 2.746992 | Up |
| 870468 | KCNMB4 | 2.746375 | Up |
| 10133 | SLC9A1 | 2.746173 | Up |
| 6560291 | FAR2 | 2.745512 | Up |
| 6200600 | FILIP1 | 2.74009 | Up |
| 6370050 | DDR2 | 2.734954 | Up |
| 4220767 | SMAD7 | 2.729162 | Up |
| 7200156 | ITGB2 | 2.721824 | Up |
| 7320039 | VEGFC | 2.718619 | Up |
| 7000626 | GUCY1A2 | 2.716786 | Up |
| 3940424 | TCEAL2 | 2.714219 | Up |
| 2100673 | KIRREL | 2.705515 | Up |
| 2370300 | CYBRD1 | 2.70283 | Up |
| 1240070 | CD74 | 2.701958 | Up |
| 6020746 | CMTM3 | 2.701719 | Up |
| 4640403 | AXL | 2.698273 | Up |
| 290132 | C20orf117 | 2.681416 | Up |
| 1010333 | MSX1 | 2.680544 | Up |
| 2360672 | TNFRSF19 | 2.674176 | Up |
| 6770128 | FGFR1 | 2.673841 | Up |
| 940164 | ASAP1 | 2.673695 | Up |
| 2470553 | HLA-DOA | 2.671481 | Up |
| 3890523 | IL7R | 2.670601 | Up |
| 1580088 | HCST | 2.66578 | Up |
| 7570324 | ID3 | 2.664947 | Up |
| 2680615 | RBMS3 | 2.66136 | Up |
| 7150768 | NR2F1 | 2.660407 | Up |
| 4200156 | MUC6 | 2.657868 | Up |
| 650110 | APP | 2.657296 | Up |
| 7320551 | LYN | 2.6545 | Up |
| 4250328 | CHSY3 | 2.654005 | Up |
| 5570372 | MXRA8 | 2.653886 | Up |
| 7040008 | CD74 | 2.652286 | Up |
| 7000446 | PRELP | 2.650469 | Up |
| 1240450 | CD27 | 2.650436 | Up |
| 5310402 | FPR3 | 2.6465 | Up |
| 1440064 |  | 2.644958 | Up |
| 1780088 | TBXA2R | 2.638646 | Up |
| 2810767 | EBI3 | 2.638633 | Up |
| 610392 | RBPMS | 2.636155 | Up |
| 5050441 | ZEB2 | 2.635794 | Up |
| 3440079 | ANXA4 | 2.63256 | Up |
| 7330292 | FBLN2 | 2.631573 | Up |
| 5810678 | RENBP | 2.630856 | Up |
| 6480110 | MMP23A | 2.629458 | Up |
| 1050253 | ACOT11 | 2.627418 | Up |
| 520014 | ISYNA1 | 2.624118 | Up |
| 130156 | PDE1B | 2.622358 | Up |
| 2140735 | RALGDS | 2.621351 | Up |
| 5390113 | CORO1A | 2.621087 | Up |
| 5260070 | HES4 | 2.62089 | Up |
| 4490180 | BEXL1 | 2.620475 | Up |
| 3710243 | ZC3HAV1 | 2.617732 | Up |
| 4920221 | C7 | 2.617306 | Up |
| 1690626 | CMKLR1 | 2.616092 | Up |
| 4200754 | ST3GAL4 | 2.615294 | Up |
| 2350196 | KRT6B | 2.609509 | Up |
| 2760689 | MAGEE1 | 2.606831 | Up |
| 2690088 | SGCA | 2.605957 | Up |
| 540563 | HLA-DMA | 2.603532 | Up |
| 3140041 | SP140 | 2.601162 | Up |
| 4610010 | LILRB5 | 2.600946 | Up |
| 5890193 | MS4A4A | 2.600451 | Up |
| 3390612 | TLR8 | 2.598552 | Up |
| 3450201 | FAM65B | 2.5981 | Up |
| 2320722 | DENND3 | 2.595809 | Up |
| 4390193 | CPZ | 2.592679 | Up |
| 4560743 | CD96 | 2.590593 | Up |
| 6770474 | CYP2S1 | 2.590261 | Up |
| 1780273 | ALOX5 | 2.589847 | Up |
| 6020470 | ST8SIA4 | 2.588218 | Up |
| 2900274 | VASN | 2.587158 | Up |
| 110180 | ARHGAP9 | 2.583029 | Up |
| 7550484 | SRGN | 2.582509 | Up |
| 7050736 | FERMT3 | 2.580998 | Up |
| 4900504 | SLC28A3 | 2.580731 | Up |
| 3060609 | PTPN13 | 2.576903 | Up |
| 5910019 | C1QB | 2.573644 | Up |
| 5810471 | MYO1F | 2.571627 | Up |
| 1990762 | KIAA1602 | 2.568484 | Up |
| 830593 | VIM | 2.568224 | Up |
| 3420612 | GZMA | 2.560241 | Up |
| 3800452 | EMP3 | 2.558418 | Up |
| 1090474 | CD3G | 2.557324 | Up |
| 4200541 | FAM113B | 2.556046 | Up |
| 10630 | IL21R | 2.555678 | Up |
| 1260576 | C1orf198 | 2.554958 | Up |
| 4180307 | ARNT2 | 2.554711 | Up |
| 70167 | LY96 | 2.553102 | Up |
| 2450427 | NKG7 | 2.551665 | Up |
| 990288 | FHL2 | 2.550177 | Up |
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| 2480440 | C3orf64 | 2.034592 | Up |
| 4280192 | TARP | 2.034164 | Up |
| 2060088 | CLCN7 | 2.033397 | Up |
| 3440491 | GALC | 2.032436 | Up |
| 4260692 | HOXA2 | 2.03006 | Up |
| 5810008 | DLGAP4 | 2.029991 | Up |
| 830446 | RUNDC1 | 2.029754 | Up |
| 7650296 | DCN | 2.029521 | Up |
| 2650594 | ARHGAP9 | 2.029402 | Up |
| 6480095 | SNX27 | 2.029316 | Up |
| 4150044 | DLG3 | 2.027081 | Up |
| 50324 | ITPRIPL1 | 2.027035 | Up |
| 3850615 | PRMT2 | 2.026787 | Up |
| 2680079 | OGFRL1 | 2.02588 | Up |
| 3400240 | PRDM16 | 2.025573 | Up |
| 5390725 | SSTR2 | 2.02519 | Up |
| 7320717 | GALNT4 | 2.023954 | Up |
| 6130725 | ARHGEF18 | 2.023691 | Up |
| 7550348 | NUP188 | 2.023313 | Up |
| 2630102 | CCDC28B | 2.023285 | Up |
| 840068 | C3AR1 | 2.022164 | Up |
| 4260615 | MGC20983 | 2.021879 | Up |
| 4060519 | ADORA1 | 2.021792 | Up |
| 270022 | CEP135 | 2.021655 | Up |
| 4670711 | MTR | 2.020626 | Up |
| 610367 | HECA | 2.020091 | Up |
| 4760689 | TMEM200C | 2.020019 | Up |
| 5340059 | LRRC58 | 2.019762 | Up |
| 540193 | TMEM50A | 2.019147 | Up |
| 4070324 | CAPRIN1 | 2.019057 | Up |
| 830369 | UBE2Q2 | 2.018537 | Up |
| 2000768 | FAR2 | 2.018063 | Up |
| 5700224 | IFT57 | 2.017292 | Up |
| 1340521 | YWHAB | 2.017141 | Up |
| 6020152 | SH3KBP1 | 2.015393 | Up |
| 2850291 | GARNL4 | 2.0146 | Up |
| 650709 | RNF34 | 2.014155 | Up |
| 2810382 | RALA | 2.013832 | Up |
| 6110747 | GIMAP2 | 2.012682 | Up |
| 1110088 | SLMO1 | 2.011619 | Up |
| 3310615 | NFKB2 | 2.010189 | Up |
| 2940196 | KIAA0174 | 2.009601 | Up |
| 2480541 | TIGIT | 2.008643 | Up |
| 990131 | GUCY1A3 | 2.006653 | Up |
| 3170280 | ZFPM2 | 2.006419 | Up |
| 1340500 | CLEC12A | 2.006284 | Up |
| 5810044 | CDC14A | 2.006157 | Up |
| 6250064 | IRF1 | 2.005229 | Up |
| 3890193 | CLIC4 | 2.004468 | Up |
| 3840491 | PELI2 | 2.003529 | Up |
| 3420671 | TRAPPC1 | 2.002575 | Up |
| 1660037 | NLGN1 | 2.002187 | Up |
| 4250725 |  | 2.001922 | Up |
| 630204 | RAC1 | 2.000976 | Up |
| 2000438 | MFNG | 2.000902 | Up |
| 4280154 | SULT2A1 | 74.34568 | Down |
| 1050242 | ANXA10 | 60.42416 | Down |
| 2630010 | APOC3 | 56.31809 | Down |
| 5420450 | UGT2B7 | 54.9221 | Down |
| 3460026 | SLC13A5 | 54.40506 | Down |
| 1190064 | UGT2B7 | 51.33646 | Down |
| 5270753 | ARG1 | 42.04031 | Down |
| 6110044 | CPS1 | 38.83526 | Down |
| 4480538 | MBL2 | 37.61727 | Down |
| 3710022 | SAA4 | 34.91115 | Down |
| 670736 | HPD | 34.39114 | Down |
| 3520746 | MTTP | 32.76518 | Down |
| 1260450 | CYP8B1 | 32.48875 | Down |
| 2470132 | CPN2 | 31.26297 | Down |
| 2570398 | CPN2 | 30.95565 | Down |
| 3800403 | APOC2 | 30.3577 | Down |
| 6450403 | C8A | 28.77638 | Down |
| 4250364 | HPGD | 26.39482 | Down |
| 6380020 | APOA2 | 25.86578 | Down |
| 2680056 | CES1 | 23.29962 | Down |
| 450020 | ORM2 | 22.59632 | Down |
| 2320377 | AHSG | 20.68547 | Down |
| 4570364 | APOA1 | 20.59258 | Down |
| 2000072 | C8G | 20.50327 | Down |
| 3180095 | SERPINA10 | 20.07129 | Down |
| 2000128 | C4BPA | 19.81001 | Down |
| 780224 | NEU4 | 19.45902 | Down |
| 3290368 | IGFBP1 | 18.66734 | Down |
| 70253 | UGT2B11 | 18.5639 | Down |
| 6130682 | GPT | 18.02871 | Down |
| 1070594 | ABCB4 | 17.65821 | Down |
| 5810577 | FGA | 16.33908 | Down |
| 2630332 | UGT1A1 | 15.0787 | Down |
| 4640215 | FGB | 13.52587 | Down |
| 6510068 | CRYAA | 13.15459 | Down |
| 6110022 | FGL1 | 12.96396 | Down |
| 670091 | ORM1 | 12.51889 | Down |
| 4570546 | LEAP2 | 12.46013 | Down |
| 670068 | CYP2E1 | 12.22569 | Down |
| 4480463 | FGL1 | 11.96779 | Down |
| 1090008 | VTN | 11.73858 | Down |
| 2230746 | ABCC2 | 11.73539 | Down |
| 6520687 | SLC7A9 | 10.54539 | Down |
| 6370332 | TM4SF5 | 9.894428 | Down |
| 5890435 | PC | 9.550718 | Down |
| 7210240 | FGB | 9.435782 | Down |
| 10066 | SLC17A3 | 8.934855 | Down |
| 4900184 | CPB2 | 8.517509 | Down |
| 10068 | SDS | 8.513721 | Down |
| 5560364 | OSTalpha | 8.488476 | Down |
| 5080131 | MGST1 | 8.380979 | Down |
| 6370703 | UGT1A6 | 8.379818 | Down |
| 460082 | GOLT1A | 8.168684 | Down |
| 4610632 | MOCOS | 8.132445 | Down |
| 630341 | FOXA3 | 7.862468 | Down |
| 2260274 | CYP4F11 | 7.836064 | Down |
| 3710202 | MST1 | 7.78693 | Down |
| 2510338 | GGH | 7.622763 | Down |
| 5310754 | VNN1 | 7.59826 | Down |
| 540164 | KHK | 7.554319 | Down |
| 3190746 | PAH | 7.359579 | Down |
| 5260095 | GJB2 | 7.298004 | Down |
| 70100 | UGT3A1 | 7.209963 | Down |
| 2100762 | INHBE | 7.115462 | Down |
| 5670040 | ELOVL6 | 6.724022 | Down |
| 5810634 | TDO2 | 6.533343 | Down |
| 7380181 | ELOVL6 | 6.460704 | Down |
| 2650615 | A1CF | 6.405519 | Down |
| 5670328 | UGT1A6 | 6.263487 | Down |
| 3310021 |  | 6.141213 | Down |
| 4860753 | ASGR2 | 5.962484 | Down |
| 3840196 | MFSD2 | 5.845257 | Down |
| 240541 | APOB | 5.695237 | Down |
| 3120598 | AKR1C4 | 5.572022 | Down |
| 2480228 | FGL1 | 5.352337 | Down |
| 3830465 | APOC1 | 5.343806 | Down |
| 1450608 | VWCE | 4.991402 | Down |
| 160148 | AK3L1 | 4.979041 | Down |
| 4060427 | HABP2 | 4.975187 | Down |
| 6590612 | GPD1 | 4.876102 | Down |
| 3460279 | APCS | 4.870287 | Down |
| 1070088 | UGT1A10 | 4.826976 | Down |
| 2570332 | PTGR1 | 4.732937 | Down |
| 2370064 | ASGR1 | 4.687538 | Down |
| 5310142 | METTL7B | 4.654457 | Down |
| 3800576 | ASGR2 | 4.621429 | Down |
| 2640025 | HP | 4.54377 | Down |
| 6590538 | TF | 4.528776 | Down |
| 6980220 | LOC644322 | 4.515104 | Down |
| 1170300 | MT1G | 4.442147 | Down |
| 2030161 | AFP | 4.438042 | Down |
| 1570484 | ATF5 | 4.412838 | Down |
| 4210397 | GLDC | 4.397734 | Down |
| 60491 | DGCR5 | 4.375711 | Down |
| 1470424 | FGA | 4.3502 | Down |
| 2640273 | ALDH4A1 | 4.297658 | Down |
| 1820184 | TMEM27 | 4.283821 | Down |
| 4200209 | RBKS | 4.103388 | Down |
| 2060674 | CA2 | 4.061365 | Down |
| 1940563 |  | 4.024582 | Down |
| 450187 | CPB2 | 3.988023 | Down |
| 5130255 | FGA | 3.987503 | Down |
| 2060477 | AGPAT9 | 3.987274 | Down |
| 240543 | FGL1 | 3.978823 | Down |
| 160343 | ALDH4A1 | 3.974379 | Down |
| 1450682 | C18orf56 | 3.934259 | Down |
| 5390608 | GSDMB | 3.932076 | Down |
| 5560221 | STARD10 | 3.852474 | Down |
| 7380427 | DHODH | 3.830916 | Down |
| 4010086 | OKL38 | 3.658368 | Down |
| 6270615 | GSDMB | 3.655537 | Down |
| 3940196 | PCSK6 | 3.617345 | Down |
| 4280017 | FOS | 3.550581 | Down |
| 5720682 | TMEM176A | 3.529737 | Down |
| 6590592 | SDC1 | 3.527212 | Down |
| 2900561 | TMED6 | 3.52111 | Down |
| 1260327 | DOCK4 | 3.499812 | Down |
| 4250241 | SLC17A9 | 3.480934 | Down |
| 5310634 | FASN | 3.477765 | Down |
| 6590041 | RNASE4 | 3.470749 | Down |
| 3990630 | DCDC5 | 3.468758 | Down |
| 6450440 | PTGR1 | 3.44736 | Down |
| 4290192 | AK3L1 | 3.447093 | Down |
| 4180224 | MOGAT3 | 3.438649 | Down |
| 630475 | DHODH | 3.4324 | Down |
| 1470427 | ALDH4A1 | 3.419465 | Down |
| 2850301 | AGT | 3.38792 | Down |
| 460358 | CA2 | 3.362525 | Down |
| 5270148 | PLEK2 | 3.360202 | Down |
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| 5550092 | ISM1 | 3.339489 | Down |
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| 150494 | NTN1 | 3.245107 | Down |
| 7400053 | SLC22A18 | 3.217428 | Down |
| 7380192 | SEC14L4 | 3.213363 | Down |
| 6350681 | PPP2R1B | 3.200027 | Down |
| 6020202 | PDZK1 | 3.179858 | Down |
| 6660369 | GCNT2 | 3.17644 | Down |
| 1300075 | PCTP | 3.166982 | Down |
| 830537 |  | 3.166273 | Down |
| 6220343 | CACNA1H | 3.159733 | Down |
| 3310400 | IGF1 | 3.117267 | Down |
| 4610341 | TMEM45A | 3.080028 | Down |
| 4830195 |  | 3.049622 | Down |
| 4830711 | RDH12 | 3.036097 | Down |
| 6980162 | GALE | 2.994352 | Down |
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| 3370041 | VNN3 | 2.962755 | Down |
| 4490142 | NRBP2 | 2.948079 | Down |
| 6280008 | HSD17B11 | 2.940561 | Down |
| 1980681 | FGG | 2.939554 | Down |
| 1030431 | ACSL1 | 2.931994 | Down |
| 1230164 |  | 2.925757 | Down |
| 1170338 | SCARB1 | 2.922861 | Down |
| 3140408 | PPP1R16A | 2.92052 | Down |
| 7040670 | DHRS3 | 2.913031 | Down |
| 4780743 | ETFA | 2.909297 | Down |
| 2060450 | NNT | 2.900881 | Down |
| 4250259 | DSG1 | 2.893993 | Down |
| 6510754 | ALDH1A1 | 2.889665 | Down |
| 620577 | ACSL5 | 2.85673 | Down |
| 6620379 | LRRC20 | 2.856348 | Down |
| 2900487 | CYP11A1 | 2.842592 | Down |
| 1340408 | UGT1A7 | 2.836818 | Down |
| 1510703 | MFSD3 | 2.834839 | Down |
| 7320270 | PNMA3 | 2.825368 | Down |
| 7050414 | CACNA1H | 2.805212 | Down |
| 7570050 | HMGB3 | 2.783411 | Down |
| 1010692 | NR2F6 | 2.78102 | Down |
| 1770133 | LOC389599 | 2.777352 | Down |
| 150162 | FNDC4 | 2.771925 | Down |
| 2710682 | NQO2 | 2.763033 | Down |
| 4050711 | LACTB2 | 2.756048 | Down |
| 4200025 | OAF | 2.754993 | Down |
| 6760202 | FAM96A | 2.75422 | Down |
| 6100300 | C10orf32 | 2.753954 | Down |
| 6270670 | IDH1 | 2.746895 | Down |
| 1430286 | SLC25A20 | 2.734698 | Down |
| 5860521 | SLC30A1 | 2.733218 | Down |
| 5310296 | SLC35D1 | 2.732564 | Down |
| 1470746 | PTPN3 | 2.723834 | Down |
| 6900538 | DNAJC12 | 2.710475 | Down |
| 5130577 | SLC37A4 | 2.695506 | Down |
| 730324 | ONECUT1 | 2.69017 | Down |
| 7150349 | TPD52L1 | 2.688854 | Down |
| 3120767 | CNIH | 2.668587 | Down |
| 1990563 | BRP44L | 2.658795 | Down |
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| 3520278 | GALK1 | 2.639857 | Down |
| 6620768 | MVK | 2.634225 | Down |
| 6280341 | PTS | 2.632043 | Down |
| 2650553 | TPD52L1 | 2.623537 | Down |
| 5820020 | PRDX3 | 2.621364 | Down |
| 1980180 | C9orf95 | 2.616464 | Down |
| 2480338 | DBI | 2.615664 | Down |
| 4060692 | SUCLG2 | 2.613506 | Down |
| 620202 | OSGIN1 | 2.606492 | Down |
| 2640017 | CHD3 | 2.605569 | Down |
| 2320289 | GLUD1 | 2.588188 | Down |
| 5890121 | NRG4 | 2.583557 | Down |
| 7160056 | KRT222 | 2.574159 | Down |
| 6660767 | SLC35A3 | 2.563444 | Down |
| 2940528 | SIGMAR1 | 2.557094 | Down |
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| 5860544 | PUS10 | 2.536204 | Down |
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| 6450546 | VKORC1 | 2.535352 | Down |
| 990100 | TFB2M | 2.524015 | Down |
| 5690373 | GOT1 | 2.520025 | Down |
| 630468 | MBL1P1 | 2.518299 | Down |
| 6280176 | GBE1 | 2.516066 | Down |
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| 4780128 | ATF3 | 2.504518 | Down |
| 3460187 | UAP1 | 2.501882 | Down |
| 5050093 | KBTBD11 | 2.498763 | Down |
| 6770343 | ETFB | 2.481305 | Down |
| 2650204 | ALDH1B1 | 2.474847 | Down |
| 1500689 | AIFM1 | 2.468292 | Down |
| 5090445 | RNF128 | 2.467754 | Down |
| 4890093 | BRP44L | 2.44649 | Down |
| 2710358 | ENOSF1 | 2.442913 | Down |
| 2260646 | PKP2 | 2.439211 | Down |
| 6020575 | NNT | 2.438245 | Down |
| 510136 | SIGMAR1 | 2.436254 | Down |
| 6370594 | PPAPDC2 | 2.43395 | Down |
| 6620739 | LOC642197 | 2.432655 | Down |
| 3130563 | ATP5J | 2.432379 | Down |
| 6550048 | DHCR7 | 2.426583 | Down |
| 3710537 | AHCY | 2.424318 | Down |
| 6550315 | LYRM1 | 2.422151 | Down |
| 7650097 | OASL | 2.415702 | Down |
| 1070133 | CLDN12 | 2.412694 | Down |
| 6420349 | PTPLAD1 | 2.407525 | Down |
| 3990132 | SSTR1 | 2.404947 | Down |
| 6040048 | PTPLAD1 | 2.403465 | Down |
| 2570682 | ATF7IP | 2.403021 | Down |
| 2680372 | SH2D4A | 2.397756 | Down |
| 5910010 | ALB | 2.394576 | Down |
| 3290482 | LOC440503 | 2.39204 | Down |
| 3850661 | C3orf23 | 2.390721 | Down |
| 2470379 | STAP2 | 2.384277 | Down |
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| 1030133 | FAM164C | 2.371844 | Down |
| 5570592 | CHRD | 2.369104 | Down |
| 2120068 | MTMR4 | 2.361215 | Down |
| 3060162 | CBR1 | 2.357798 | Down |
| 460746 | ALDH3A2 | 2.353848 | Down |
| 940477 | RETSAT | 2.353397 | Down |
| 5270296 | TFB2M | 2.349394 | Down |
| 70767 | BAIAP2 | 2.346284 | Down |
| 2260600 | CHPT1 | 2.345225 | Down |
| 4810561 | SLC43A1 | 2.335176 | Down |
| 6620544 | TACO1 | 2.334859 | Down |
| 4590377 | ANKRD35 | 2.332809 | Down |
| 670639 | LONP2 | 2.326016 | Down |
| 7200044 | SH3BGRL2 | 2.322103 | Down |
| 50128 | ALG14 | 2.319459 | Down |
| 3460253 | OCEL1 | 2.314766 | Down |
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| 3120475 | MAP7 | 2.308171 | Down |
| 5360678 | DHCR7 | 2.307422 | Down |
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| 1770279 | DERA | 2.302717 | Down |
| 6760192 | CHP | 2.299144 | Down |
| 1190647 | ZNF323 | 2.297033 | Down |
| 1940128 | NRG1 | 2.296592 | Down |
| 1940577 | AIFM1 | 2.293287 | Down |
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| 2070736 | TMEM116 | 2.287008 | Down |
| 150156 | ACBD5 | 2.286661 | Down |
| 5900451 | SPTBN2 | 2.286606 | Down |
| 4610592 | FOXA2 | 2.282231 | Down |
| 5310132 | STAP2 | 2.281241 | Down |
| 5910753 | STAP2 | 2.280639 | Down |
| 4490524 | ACSS2 | 2.279118 | Down |
| 5570292 | PRDX3 | 2.276212 | Down |
| 2970687 | NUDT13 | 2.273724 | Down |
| 4070088 | CNIH | 2.27232 | Down |
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| 5670736 | FGL1 | 2.265803 | Down |
| 5130471 | PDE3B | 2.26472 | Down |
| 4220184 |  | 2.263227 | Down |
| 6620537 | SAR1B | 2.263096 | Down |
| 2120452 | MLPH | 2.256505 | Down |
| 4150458 | RPA3 | 2.252101 | Down |
| 3870706 | FURIN | 2.250754 | Down |
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| 1260435 | ZNF511 | 2.248988 | Down |
| 6020136 | FAHD2A | 2.248757 | Down |
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| 4730309 | PCCA | 2.244009 | Down |
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| 6200068 | CYP51A1 | 2.24141 | Down |
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| 5360204 | NMD3 | 2.218913 | Down |
| 1030025 | PTP4A1 | 2.217075 | Down |
| 3370121 | LASS2 | 2.213577 | Down |
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| 4260100 | PUS3 | 2.201333 | Down |
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| 3930278 | TMEM177 | 2.192199 | Down |
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| 5890273 | RAC3 | 2.178191 | Down |
| 6330348 | NT5DC3 | 2.178069 | Down |
| 4280678 | SEPP1 | 2.177255 | Down |
| 1260601 | ST6GAL1 | 2.176342 | Down |
| 6110270 | GFRA1 | 2.173421 | Down |
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| 4890491 | ATPAF1 | 2.169869 | Down |
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| 3930082 | FLJ12355 | 2.167082 | Down |
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| 6400300 | HSCB | 2.156848 | Down |
| 360014 | CDH23 | 2.152863 | Down |
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| 2000075 | C19orf36 | 2.137048 | Down |
| 3290341 | AIFM1 | 2.137043 | Down |
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| 5570048 | ERLIN2 | 2.135085 | Down |
| 4670544 | ACSS2 | 2.134875 | Down |
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| 4880068 | RNF123 | 2.127279 | Down |
| 5220072 | LRRC40 | 2.126708 | Down |
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| 650563 | FAHD1 | 2.119847 | Down |
| 6900019 | GLOD5 | 2.118368 | Down |
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| 940674 | TMEM184A | 2.115552 | Down |
| 830564 | LMAN1 | 2.115442 | Down |
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| 5050619 | FGF5 | 2.11422 | Down |
| 630296 | RNF128 | 2.112165 | Down |
| 450161 | FAHD1 | 2.110223 | Down |
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| 1710630 | ST6GAL1 | 2.10898 | Down |
| 5560630 | PSD3 | 2.108514 | Down |
| 7400524 | CRB3 | 2.107081 | Down |
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| 4050437 | PTS | 2.103587 | Down |
| 4880685 | FBXO22 | 2.102105 | Down |
| 6980445 |  | 2.100229 | Down |
| 10196 | C21orf33 | 2.099211 | Down |
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| 7200356 | POLDIP2 | 2.096947 | Down |
| 6770348 | MTFR1 | 2.096848 | Down |
| 6280059 | PPM1E | 2.09393 | Down |
| 650743 | C10orf11 | 2.090939 | Down |
| 380541 | PPPDE2 | 2.089015 | Down |
| 7160328 | LRRC20 | 2.087004 | Down |
| 6380154 | LASS2 | 2.078151 | Down |
| 2030292 | EDEM1 | 2.077508 | Down |
| 990615 | MTCP1 | 2.075389 | Down |
| 6040014 | SPIRE2 | 2.074348 | Down |
| 4290608 | ABCC11 | 2.073052 | Down |
| 5310707 | EI24 | 2.069081 | Down |
| 5270195 |  | 2.0669 | Down |
| 3800445 | MRPL24 | 2.065639 | Down |
| 2760181 | COQ3 | 2.06367 | Down |
| 6900440 | SLC25A1 | 2.063446 | Down |
| 6940025 | MRPL39 | 2.061364 | Down |
| 5870487 | IMMP2L | 2.060639 | Down |
| 4570369 | NFATC2IP | 2.059996 | Down |
| 6590463 | UBB | 2.059465 | Down |
| 770541 | EI24 | 2.057775 | Down |
| 5560603 | SULT1A3 | 2.057309 | Down |
| 50315 | KCNA6 | 2.056052 | Down |
| 7650767 | IGSF9 | 2.055675 | Down |
| 2900504 | C7orf20 | 2.05562 | Down |
| 830730 | ERP29 | 2.054464 | Down |
| 4850500 | PVRL3 | 2.052649 | Down |
| 7210484 | C6orf108 | 2.051323 | Down |
| 130167 | FAAH2 | 2.050158 | Down |
| 4810543 | CMC1 | 2.049208 | Down |
| 2760427 | PYGL | 2.048457 | Down |
| 1500152 | ACP1 | 2.047496 | Down |
| 4060364 | MGAT4B | 2.041954 | Down |
| 1260154 | DOLPP1 | 2.041729 | Down |
| 3390139 | SDHD | 2.041138 | Down |
| 1500608 | HSD3B7 | 2.040566 | Down |
| 5690148 | REPS2 | 2.039368 | Down |
| 5960168 | C10orf58 | 2.038694 | Down |
| 1050196 | PRKAG2 | 2.032865 | Down |
| 1400121 | SLCO2B1 | 2.029174 | Down |
| 3780743 | SPTLC3 | 2.028514 | Down |
| 2030484 | GLRX5 | 2.028123 | Down |
| 430196 | MRPL14 | 2.022403 | Down |
| 1300328 | ABHD10 | 2.016956 | Down |
| 7100164 | HIGD1A | 2.015518 | Down |
| 4040204 | C20orf3 | 2.013354 | Down |
| 2470255 | TSPAN6 | 2.012098 | Down |
| 1070458 |  | 2.010111 | Down |
| 870441 | PPARA | 2.009685 | Down |
| 510725 | NDUFA10 | 2.006598 | Down |
| 6760050 | CLPX | 2.004745 | Down |
| 4850538 | PAOX | 2.004327 | Down |
| 1340022 | PMVK | 2.0036 | Down |
| 4220707 | PMPCB | 2.002243 | Down |
| 7320452 | GFM2 | 2.001287 | Down |
| 4730411 | SFXN1 | 2.00039 | Down |

Entries in the table are arranged first according to regulation (up-regulation vs. down-regulation) and then in a descending order of fold-change in expression. The rows with no entry in the ‘Gene symbol’ column relate to probes which are still unannotated.

**Appendix 4 List of gene entities (n=430) found to be differentially expressed in liver tissue from patients with fulminant hepatitis B as compared to normal liver tissue, but not in patients with fulminant hepatitis E compared to normal liver tissue.**

| **ProbeID** | **Fold change** | **Regulation** | **Symbol** |
| --- | --- | --- | --- |
| 6220209 | 60.85266 | up | DMBT1 |
| 2260326 | 24.954453 | up | SPINK1 |
| 6370356 | 14.545408 | up | EEF1A2 |
| 5360347 | 11.0705805 | up | NQO1 |
| 780309 | 10.73417 | up | CIDEC |
| 7330398 | 8.762596 | up | HLA-DRB4 |
| 3710040 | 8.514371 | up | SFN |
| 2320564 | 7.6546555 | up | WISP1 |
| 870477 | 7.467855 | up | DEFA1B |
| 4220246 | 7.190429 | up | CCL20 |
| 1070367 | 6.975763 | up | C19orf59 |
| 4540239 | 6.810964 | up | DEFA1 |
| 7400377 | 6.555525 | up | CEACAM6 |
| 7100333 | 6.3226814 | up | REG3A |
| 1770603 | 5.751028 | up | TCN1 |
| 2650379 | 5.7387886 | up | GREM1 |
| 1110373 | 5.612776 | up | C15orf48 |
| 3390543 | 5.408169 | up | C13orf33 |
| 6060468 | 5.344019 | up | S100A8 |
| 4640039 | 5.294333 | up | FER1L4 |
| 6900408 | 5.0946646 | up | EFEMP1 |
| 450424 | 4.9367795 | up | CXCR7 |
| 4390100 | 4.6719613 | up | LAMC2 |
| 4860114 | 4.6089997 | up | CXCR7 |
| 3130220 | 4.449177 | up | TMEM158 |
| 6350184 | 4.433334 | up | TNFRSF6B |
| 6400427 | 4.40321 | up | CILP |
| 4830520 | 4.3163996 | up | KRT80 |
| 730369 | 4.264967 | up |  |
| 6480091 | 4.2218285 | up | DNAJA4 |
| 1050068 | 4.219432 | up | F2RL1 |
| 4010491 | 4.176763 | up | CST6 |
| 5960167 | 4.131123 | up | LOC284988 |
| 730040 | 4.0326147 | up | LAMB3 |
| 540377 | 4.023921 | up | CXCL5 |
| 3710504 | 4.020478 | up | LYZ |
| 4890181 | 3.8839421 | up | RAP1GAP |
| 1430673 | 3.8531656 | up | SDCBP2 |
| 2490113 | 3.8181992 | up | CD248 |
| 1410201 | 3.7837353 | up | CD59 |
| 360047 | 3.7041352 | up | GAS1 |
| 6220543 | 3.6697903 | up | HIF1A |
| 6330215 | 3.6613145 | up |  |
| 3060273 | 3.6504548 | up | MT3 |
| 2970019 | 3.6316226 | up | HIST1H4H |
| 1990300 | 3.569943 | up | SOCS1 |
| 4150519 | 3.565121 | up | FAM108C1 |
| 4900010 | 3.5195432 | up | HIF1A |
| 3130092 | 3.5093715 | up | ATP1B3 |
| 2360326 | 3.4617379 | up | TAGLN |
| 1190367 | 3.4599907 | up | IER3 |
| 6100468 | 3.4286125 | up | NPTX1 |
| 5810047 | 3.404412 | up | F2RL1 |
| 3060255 | 3.3349893 | up | BIRC3 |
| 7570494 | 3.324445 | up | CNFN |
| 2970747 | 3.3129818 | up | DEFA3 |
| 380010 | 3.3111343 | up | CXCL5 |
| 4810128 | 3.275379 | up | PHLDA2 |
| 3850246 | 3.230868 | up | HOPX |
| 2140601 | 3.2254806 | up | TMC5 |
| 1070333 | 3.2179384 | up | CST6 |
| 4010064 | 3.1544776 | up | P4HA2 |
| 6520681 | 3.1259775 | up | PYCR1 |
| 2480600 | 3.0857344 | up | DEFA1B |
| 3830075 | 3.0848575 | up | CA12 |
| 2760524 | 3.0578697 | up | SDCBP2 |
| 5130154 | 3.0468953 | up | RGS17 |
| 3420452 | 3.0434692 | up | TSPAN13 |
| 770400 | 3.017715 | up | LOC653600 |
| 6980612 | 3.0157933 | up | HAS3 |
| 4640187 | 3.0097978 | up | PLOD2 |
| 2640341 | 2.9889264 | up | FKBP5 |
| 1240360 | 2.9742448 | up | MRPL52 |
| 5860093 | 2.965107 | up | NLF2 |
| 1740451 | 2.9157329 | up | IL1R2 |
| 520189 | 2.9009109 | up | HYOU1 |
| 3890543 | 2.8916104 | up | ETNK1 |
| 5810685 | 2.856886 | up | THBS1 |
| 3440253 | 2.8537178 | up | SNAP25 |
| 1770114 | 2.8348072 | up | PDE4D |
| 4050040 | 2.8206747 | up | TUBB3 |
| 5700041 | 2.8201537 | up | HYOU1 |
| 7100685 | 2.7789602 | up | MST1R |
| 6550026 | 2.765422 | up | TICAM2 |
| 7200168 | 2.7643397 | up | PDGFRL |
| 2350053 | 2.7282379 | up | GFPT1 |
| 4920156 | 2.7209857 | up | GFPT1 |
| 270408 | 2.6903381 | up | P4HA2 |
| 5260014 | 2.6699922 | up | CDKN3 |
| 4760349 | 2.6590776 | up | LRP10 |
| 1410020 | 2.6542463 | up | TMCO3 |
| 3190112 | 2.6523051 | up | SERPINB1 |
| 7400025 | 2.6390069 | up | MTP18 |
| 1070292 | 2.611521 | up | GPSM2 |
| 4260152 | 2.610774 | up | TOMM40L |
| 290292 | 2.6055553 | up | STEAP2 |
| 270681 | 2.6017306 | up | IL33 |
| 770730 | 2.5922766 | up | ANXA2 |
| 6560390 | 2.5920722 | up | CRELD2 |
| 5860048 | 2.5792835 | up | CRKRS |
| 430768 | 2.5642376 | up | PRSS16 |
| 6250563 | 2.5469944 | up | EFEMP1 |
| 3830750 | 2.5344272 | up | XLKD1 |
| 2470458 | 2.5183418 | up | MICAL1 |
| 3940068 | 2.5119123 | up | UNC5CL |
| 3520328 | 2.5103405 | up | ANXA2 |
| 3390326 | 2.5074778 | up | ME1 |
| 150692 | 2.5070267 | up | SLC26A6 |
| 240594 | 2.502117 | up | ANXA3 |
| 3990026 | 2.4808908 | up | CCNE1 |
| 1070762 | 2.4798074 | up | PSRC1 |
| 380528 | 2.476818 | up | CHORDC1 |
| 6040324 | 2.4693573 | up | SDCBP |
| 460672 | 2.448621 | up | TMEM165 |
| 2070224 | 2.4368134 | up | BUB1 |
| 620711 | 2.4323053 | up | STIP1 |
| 4890689 | 2.4268942 | up | CTHRC1 |
| 5550332 | 2.4140053 | up | PTGFRN |
| 940431 | 2.4048047 | up | CALU |
| 4010270 | 2.3944523 | up | LOC440731 |
| 6770270 | 2.3941245 | up | ASRGL1 |
| 5560138 | 2.3744879 | up | FGF7 |
| 4390575 | 2.3709168 | up | VSTM2L |
| 1260468 | 2.370659 | up | GAL3ST1 |
| 1090575 | 2.3645313 | up | WWC1 |
| 610475 | 2.3633473 | up | TP53BP1 |
| 6020451 | 2.360532 | up | RSPH1 |
| 7150209 | 2.3451946 | up | SLC4A11 |
| 7050026 | 2.339757 | up | SPCS3 |
| 2450047 | 2.3394356 | up | CASZ1 |
| 1470215 | 2.3377006 | up | MAP3K8 |
| 3940451 | 2.3335695 | up | ZFC3H1 |
| 4490528 | 2.3219736 | up | CKAP4 |
| 5700278 | 2.3214676 | up | GARS |
| 3890632 | 2.3184767 | up | DNM1L |
| 7550521 | 2.3171985 | up | ME2 |
| 2260010 | 2.3114457 | up | RIT1 |
| 780463 | 2.3079207 | up | TES |
| 630167 | 2.3014967 | up | SDCBP |
| 1030753 | 2.3013754 | up | ARHGEF16 |
| 2450435 | 2.2992024 | up |  |
| 6660435 | 2.2934039 | up | TGFA |
| 5820113 | 2.2854252 | up | FAM135A |
| 6280594 | 2.280394 | up | MMP8 |
| 7380241 | 2.2710307 | up | PLCD3 |
| 4850180 | 2.2649612 | up | LYVE1 |
| 6580270 | 2.260531 | up | LOC646723 |
| 1850047 | 2.2587574 | up | FAM189B |
| 670386 | 2.2587316 | up | ID1 |
| 5700373 | 2.256695 | up | TRIP13 |
| 6400114 | 2.2475798 | up | C17orf59 |
| 7040477 | 2.2461314 | up | PLOD2 |
| 1050706 | 2.2385073 | up | CDC2 |
| 4850168 | 2.2198935 | up | SLC22A4 |
| 1170605 | 2.2179694 | up | EDG4 |
| 4490615 | 2.2144172 | up | TSPAN3 |
| 4290279 | 2.2135828 | up | ACLY |
| 1980639 | 2.2135048 | up | TMEM163 |
| 2640048 | 2.212072 | up | GAPDH |
| 5670669 | 2.2116554 | up | LPCAT4 |
| 6560167 | 2.2111433 | up | DIAPH3 |
| 2940730 | 2.2110999 | up | ADAM9 |
| 6760673 | 2.1953473 | up | SC65 |
| 7100136 | 2.1943314 | up | HES2 |
| 2760709 | 2.1905541 | up | LYPD1 |
| 6330338 | 2.187317 | up | ITGA5 |
| 5670187 | 2.1852431 | up | DKFZ |
| 5570088 | 2.1784375 | up | SRM |
| 4200196 | 2.1776052 | up | TNFAIP8 |
| 2340392 | 2.1775694 | up | MELK |
| 6330730 | 2.176677 | up | SNAI2 |
| 6060377 | 2.1764195 | up | ABCG1 |
| 4070736 | 2.1689332 | up | TAGLN2 |
| 6860300 | 2.1686509 | up | SMARCA4 |
| 7210333 | 2.1682537 | up |  |
| 4830100 | 2.164489 | up | HSP90AB1 |
| 2570100 | 2.1640177 | up | ABCA7 |
| 5860315 | 2.161007 | up | DNAJB6 |
| 1570092 | 2.1561391 | up | TUBB6 |
| 5890630 | 2.1549737 | up | MTPN |
| 2900725 | 2.1515653 | up | CYP27B1 |
| 580719 | 2.1499827 | up | C13orf34 |
| 1010470 | 2.1484208 | up | C9orf140 |
| 4570474 | 2.1480467 | up | RAB3C |
| 2640091 | 2.1466439 | up | GAPDH |
| 3370056 | 2.1461213 | up | KRT8 |
| 5390687 | 2.1382823 | up | CPE |
| 5670594 | 2.138246 | up | NMB |
| 5130162 | 2.1375895 | up | AK1 |
| 4060064 | 2.1373966 | up | HMMR |
| 4490161 | 2.1363747 | up | GAPDH |
| 5550524 | 2.1325133 | up | ZDHHC13 |
| 1090326 | 2.1294827 | up | TIMP4 |
| 7510709 | 2.1290858 | up | CEP55 |
| 4050400 | 2.1286008 | up | HMMR |
| 7610735 | 2.126764 | up | CDKN2B |
| 4390221 | 2.125273 | up | SMPDL3B |
| 6380427 | 2.1236808 | up | GIPC1 |
| 3610202 | 2.1214476 | up | GALNT10 |
| 4230196 | 2.1212072 | up | KPNA2 |
| 2230279 | 2.1163392 | up | TOP1P2 |
| 2320356 | 2.115223 | up | VASP |
| 1740494 | 2.1127732 | up | TOMM40 |
| 2750092 | 2.1118567 | up | NRCAM |
| 5810095 | 2.1096876 | up | SERPINB2 |
| 3800730 | 2.1088266 | up | GNA13 |
| 5870725 | 2.1056159 | up | TTK |
| 4890706 | 2.1042426 | up | DR1 |
| 2640725 | 2.0977523 | up | ARSJ |
| 5290246 | 2.09454 | up | XPR1 |
| 5310411 | 2.091958 | up | H2AFJ |
| 7000114 | 2.0910814 | up | PPIC |
| 6770026 | 2.090411 | up | AURKB |
| 2600070 | 2.0899842 | up | RAB38 |
| 3870408 | 2.0894043 | up | DUSP18 |
| 3710373 | 2.0856984 | up | SNHG3-RCC1 |
| 3890437 | 2.0834684 | up | KCNQ1 |
| 630152 | 2.0831332 | up | KRT23 |
| 7150059 | 2.0804148 | up | STAMBPL1 |
| 2640088 | 2.0802898 | up | ALDOA |
| 4780433 | 2.0797174 | up | RPL29 |
| 3520370 | 2.0790715 | up | MSI2 |
| 670376 | 2.0772948 | up | RUSC1 |
| 6590441 | 2.0719464 | up | TRIP12 |
| 1570349 | 2.0714748 | up | KLHL5 |
| 990730 | 2.0711882 | up | FOXM1 |
| 6040181 | 2.070808 | up | OSBPL3 |
| 1260020 | 2.0652664 | up | TP53I3 |
| 4290605 | 2.063258 | up | SLC44A1 |
| 1260451 | 2.0625684 | up | VWA5A |
| 6130484 | 2.0603087 | up | EGLN3 |
| 5860411 | 2.0580308 | up | TUBG1 |
| 2490470 | 2.0564027 | up | MPZL1 |
| 5560398 | 2.0562668 | up | DEGS1 |
| 4760095 | 2.0560853 | up | CRLF1 |
| 3170102 | 2.0546362 | up | C12orf49 |
| 3120079 | 2.0529497 | up | SDF2L1 |
| 7210327 | 2.051466 | up | AADACL1 |
| 60452 | 2.050628 | up | GAL |
| 6350348 | 2.0495508 | up | BUB3 |
| 1430187 | 2.0479991 | up | CSTB |
| 6550703 | 2.047505 | up | WSB2 |
| 5720300 | 2.046048 | up | G3BP1 |
| 5960224 | 2.0442557 | up | PTTG3P |
| 6380441 | 2.0432591 | up | ENO1 |
| 520278 | 2.0413072 | up | FAM100B |
| 1340026 | 2.0395048 | up | TMEM144 |
| 7050647 | 2.035242 | up | RFXDC2 |
| 6860717 | 2.03337 | up | HOXC4 |
| 3890017 | 2.0314198 | up | CTNNA1 |
| 2370441 | 2.0313408 | up | DEPDC1B |
| 4880392 | 2.0305233 | up | KIAA1539 |
| 990136 | 2.0302556 | up | C12orf48 |
| 7000292 | 2.0277674 | up | MITF |
| 4060575 | 2.027114 | up | OSTM1 |
| 2190010 | 2.0267496 | up | RACGAP1 |
| 4880750 | 2.0255933 | up | SOCS5 |
| 6250053 | 2.0234876 | up | PTTG1IP |
| 1050747 | 2.0218449 | up | POSTN |
| 7400468 | 2.0217528 | up | AP1G2 |
| 1450064 | 2.0206108 | up | PSME3 |
| 2360471 | 2.0201216 | up | H2AFY |
| 2900292 | 2.0126336 | up | RANGAP1 |
| 4060056 | 2.011051 | up | POLQ |
| 6840047 | 2.0092003 | up | TLE3 |
| 7150170 | 2.0087662 | up | DEFA1B |
| 4040564 | 2.0082383 | up | IRAK1 |
| 270538 | 2.0063133 | up | PMP22 |
| 6370315 | 41.14932 | down | HLA-DRB5 |
| 2000148 | 7.401061 | down | IFIT1 |
| 5270072 | 7.073399 | down | CYP26A1 |
| 6110435 | 5.515273 | down | ENO3 |
| 3360615 | 5.028666 | down | FCER1A |
| 1240300 | 4.903414 | down | ENO3 |
| 3990544 | 4.72704 | down | KIAA1666 |
| 7210035 | 4.078179 | down | SNORD13 |
| 5420386 | 3.955739 | down | IL13RA2 |
| 3870338 | 3.916246 | down | IFI44L |
| 4480300 | 3.861975 | down | SLC3A1 |
| 3060341 | 3.709172 | down | LOC440993 |
| 6400022 | 3.618525 | down | CAPN12 |
| 2690709 | 3.445618 | down | VIPR1 |
| 1690692 | 3.370127 | down | SOCS2 |
| 2230538 | 3.307493 | down | LRRN3 |
| 3710253 | 3.266875 | down | CAPN12 |
| 3060020 | 3.251219 | down | CMYA5 |
| 5720246 | 3.196577 | down | AQP7P2 |
| 2570577 | 3.161262 | down | KLF15 |
| 6020255 | 3.150338 | down | EGR2 |
| 6560072 | 3.132889 | down |  |
| 2320296 | 3.126801 | down | KCNK17 |
| 3830070 | 3.047735 | down |  |
| 4260687 | 2.991625 | down | SLCO4C1 |
| 70520 | 2.93652 | down | FGFR4 |
| 1400577 | 2.928515 | down | ART4 |
| 1190047 | 2.911617 | down | DENND5B |
| 1570747 | 2.910345 | down | LINGO4 |
| 2230133 | 2.903581 | down | HSD17B14 |
| 4210411 | 2.87923 | down | NDRG2 |
| 2340215 | 2.878784 | down | KLF6 |
| 6770673 | 2.877882 | down | SOCS2 |
| 2940228 | 2.848892 | down |  |
| 6280504 | 2.749546 | down | LOC100008589 |
| 5690632 | 2.743889 | down |  |
| 1450504 | 2.742516 | down |  |
| 3710154 | 2.739897 | down | SLC7A2 |
| 1980484 | 2.654554 | down | EFHD1 |
| 4810520 | 2.62881 | down | TRIB1 |
| 4230703 | 2.594844 | down | CETP |
| 5290433 | 2.587523 | down |  |
| 5290538 | 2.578864 | down | PER3 |
| 1190446 | 2.572317 | down | DLC1 |
| 2600379 | 2.570579 | down | C9orf150 |
| 6510360 | 2.570558 | down | C1orf97 |
| 4250753 | 2.566342 | down | TSPAN33 |
| 5570731 | 2.562 | down | C8orf4 |
| 5700088 | 2.559254 | down | KLF11 |
| 6450397 | 2.529272 | down | CCNB1IP1 |
| 7040195 | 2.496053 | down | ST3GAL3 |
| 3830497 | 2.491417 | down | KLF12 |
| 3520020 | 2.478979 | down | CYFIP2 |
| 2370468 | 2.476772 | down | DTX1 |
| 6940736 | 2.470756 | down | MBNL3 |
| 5490689 | 2.463908 | down | PVALB |
| 4390630 | 2.446808 | down | STAG3 |
| 1050754 | 2.435014 | down | LOC653583 |
| 150392 | 2.431678 | down |  |
| 1690176 | 2.427177 | down | NDRG2 |
| 6560079 | 2.40614 | down | SUCNR1 |
| 6350154 | 2.398799 | down | FAM122A |
| 6100768 | 2.395047 | down | CYFIP2 |
| 4880673 | 2.393241 | down | GADD45A |
| 6400564 | 2.387645 | down |  |
| 3890634 | 2.383753 | down | C1orf152 |
| 5550278 | 2.382562 | down | ICAM3 |
| 520553 | 2.379044 | down | NCALD |
| 2000441 | 2.37887 | down | PGAP3 |
| 7210132 | 2.369676 | down | LOC641941 |
| 3930020 | 2.361323 | down | CTSF |
| 3360731 | 2.35187 | down | KLF11 |
| 1710091 | 2.345115 | down | IRS1 |
| 7000424 | 2.344062 | down | LOC732075 |
| 6960129 | 2.339872 | down | NT5DC1 |
| 2070168 | 2.33821 | down | CX3CR1 |
| 3610440 | 2.3366 | down | MAF |
| 610291 | 2.331582 | down | LPA |
| 2710020 | 2.33047 | down |  |
| 5960196 | 2.314961 | down | MOGAT1 |
| 6480240 | 2.307715 | down | LOC402560 |
| 1260100 | 2.305875 | down | ANXA9 |
| 4850142 | 2.297336 | down | KIAA1370 |
| 6280286 | 2.291503 | down | ADAMTSL3 |
| 1230612 | 2.290848 | down | CCT6B |
| 1710131 | 2.289742 | down | CAMK2B |
| 4890270 | 2.285156 | down | LY6E |
| 5290239 | 2.282804 | down | XRCC6BP1 |
| 6350341 | 2.278309 | down | SDHAP3 |
| 1400465 | 2.271864 | down | POFUT1 |
| 1010739 | 2.267855 | down | C3orf15 |
| 2000324 | 2.266391 | down | FAM63A |
| 990020 | 2.259522 | down | PFAAP5 |
| 3610600 | 2.25769 | down | FAM151A |
| 7400707 | 2.256544 | down | C1S |
| 2120682 | 2.25505 | down | GPR89C |
| 3870441 | 2.251506 | down | CAPN3 |
| 3400164 | 2.249443 | down | C21orf2 |
| 3930681 | 2.245921 | down | DHX58 |
| 5050021 | 2.240357 | down | C6orf70 |
| 4780735 | 2.236671 | down | SAMD5 |
| 4200253 | 2.23403 | down | C14orf28 |
| 3130128 | 2.229678 | down | GPRASP2 |
| 510114 | 2.212511 | down | CCNB1IP1 |
| 1500600 | 2.203284 | down | RAB37 |
| 5960296 | 2.200782 | down | CLDN1 |
| 2760446 | 2.198588 | down | RFPL3 |
| 7400270 | 2.191769 | down | NCKAP5 |
| 290301 | 2.190075 | down | LOC653352 |
| 990719 | 2.187024 | down |  |
| 60093 | 2.175205 | down | NCALD |
| 6020114 | 2.174156 | down | ONECUT2 |
| 2850433 | 2.172007 | down | SPSB3 |
| 5560053 | 2.168083 | down | ATP5S |
| 60397 | 2.168082 | down | TRK1 |
| 5490403 | 2.167287 | down | CD1E |
| 5810450 | 2.166601 | down | LOC54103 |
| 3780291 | 2.164255 | down | CLDN15 |
| 3360008 | 2.158742 | down | ZNF275 |
| 770605 | 2.154603 | down | ZNF280D |
| 730458 | 2.150802 | down | LRP3 |
| 5820292 | 2.141262 | down | COPZ2 |
| 4210575 | 2.138623 | down |  |
| 450189 | 2.133349 | down | XAF1 |
| 5050270 | 2.129206 | down | SALL4 |
| 6860072 | 2.12801 | down | TRAPPC6A |
| 1410427 | 2.127109 | down | ZRANB1 |
| 620386 | 2.119101 | down | IGF2 |
| 7210528 | 2.118729 | down | TMEM205 |
| 6660240 | 2.114724 | down | FGFR4 |
| 4070193 | 2.109388 | down |  |
| 5420731 | 2.107959 | down | CNKSR3 |
| 3140731 | 2.1046 | down | MDN1 |
| 240736 | 2.097045 | down | TSPAN6 |
| 5420400 | 2.091405 | down | FLJ39827 |
| 1980474 | 2.09106 | down | PLD6 |
| 1850367 | 2.090819 | down | CCDC47 |
| 940148 | 2.083606 | down | ABTB2 |
| 3420682 | 2.080962 | down | IGF2 |
| 2190019 | 2.077441 | down | CD160 |
| 6980224 | 2.069394 | down |  |
| 4150255 | 2.066058 | down | FAM13A |
| 7610128 | 2.065002 | down | ANKRD38 |
| 2690300 | 2.058749 | down | LOC730432 |
| 6560707 | 2.057833 | down | LOC440389 |
| 6650035 | 2.055096 | down | LOC338758 |
| 1010672 | 2.053346 | down | NR3C2 |
| 4040114 | 2.043628 | down | TEF |
| 1980370 | 2.042487 | down | MGC35361 |
| 4230377 | 2.041733 | down | PDK2 |
| 4880343 | 2.038479 | down | GARNL3 |
| 7560301 | 2.031856 | down | LANCL2 |
| 3400551 | 2.027188 | down | DYNLL2 |
| 4590347 | 2.025762 | down | ZNF784 |
| 6200309 | 2.024208 | down | DNALI1 |
| 2140176 | 2.02236 | down | THYN1 |
| 6660259 | 2.018007 | down | RBBP9 |
| 6330400 | 2.015401 | down | HLCS |
| 4730066 | 2.011649 | down | SCN2A |
| 1820670 | 2.010342 | down | LOC641978 |
| 7200315 | 2.008506 | down | FECH |
| 4070154 | 2.004958 | down | DCAF6 |

Entries in the table are arranged first according to regulation (up-regulation vs. down-regulation) and then in a descending order of fold-change in expression. The rows with no entry in the ‘Gene symbol’ column relate to probes which are still unannotated.

**Appendix 5 Functional annotation of pathways whose genes were found to be over-represented among entities differentially expressed in fulminant hepatitis E, and in fulminant hepatitis B (derived using BioCarta through DAVID resource)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene ID** | **Name** | **Symbol** | **Regulation** | **Log2 Fold change** |
| **Intrinsic prothrombin activation pathway** | | | | |
| 462 | Serpin peptidase inhibitor, clade C (antithrombin), member 1 | SERPINC1 | down | -13.0921 |
| 2153 | Coagulation factor V (proaccelerin, labile factor) | F5 | down | -5.24843 |
| 2158 | Coagulation factor IX | F9 | down | -17.7723 |
| 2159 | Coagulation factor X | F10 | down | -5.46418 |
| 2160 | Coagulation factor XI | F11 | down | -5.57311 |
| 2161 | Coagulation factor XII (Hageman factor) | F12 | down | -15.7184 |
| 3818 | Kallikrein B, plasma (Fletcher factor) 1 | KLKB1 | down | -18.5081 |
| 3827 | Kininogen 1 | KNG1 | down | -17.7226 |
| 5624 | Protein C (inactivator of coagulation factors Va and VIIIa) | PROC | down | -16.7012 |
| 285440 | Cytochrome P450, family 4, subfamily V, polypeptide 2 | CYP4V2 | down | -4.48251 |
|  |  |  |  |  |
| **Complement pathway** | | | | |
| 715 | Complement component 1, r subcomponent | C1R | down | -4.22714 |
| 716 | Complement component 1, s subcomponent | C1S | down | -3.3986 |
| 727 | Complement component 5 | C5 | down | -3.69137 |
| 729 | Complement component 6 | C6 | down | -6.58531 |
| 735 | Complement component 9 | C9 | down | -6.46105 |
| 629 | Complement factor B | CFB | down | -2.17218 |
| 1675 | Complement factor D (adipsin) | CFD | up | 3.184366 |
| 5648 | Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) | MASP1 | down | -4.62649 |
| 10747 | Mannan-binding lectin serine peptidase 2 | MASP2 | down | -14.6803 |
| 718 | Similar to complement C3 precursor; complement component 3 | C3 | down | -4.60885 |
| 653879 | Similar to complement C3 precursor; complement component 3 | LOC653879 | down | -4.2577 |
|  |  |  |  |  |
| **Nuclear receptors in lipid metabolism and toxicity** | | | | |
| 8647 | ATP-binding cassette, sub-family B (MDR/TAP), member 11 | ABCB11 | down | -5.7369 |
| 9619 | ATP-binding cassette, sub-family G (WHITE), member 1 | ABCG1 | up | 2.369804 |
| 64240 | ATP-binding cassette, sub-family G (WHITE), member 5 | ABCG5 | down | -4.03572 |
| 1544 | Cytochrome P450, family 1, subfamily A, polypeptide 2 | CYP1A2 | down | -64.3747 |
| 1555 | Cytochrome P450, family 2, subfamily B, polypeptide 6 | CYP2B6 | down | -2.29336 |
| 1559 | Cytochrome P450, family 2, subfamily C, polypeptide 9 | CYP2C9 | down | -16.7184 |
| 1576 | Cytochrome P450, family 3, subfamily A, polypeptide 4 | CYP3A4 | down | -82.1265 |
| 64816 | Cytochrome P450, family 3, subfamily A, polypeptide 43 | CYP3A43 | down | -7.34186 |
| 1579 | Cytochrome P450, family 4, subfamily A, polypeptide 11 | CYP4A11 | down | -14.0125 |
| 8856 | Nuclear receptor subfamily 1, group I, member 2 | NR1I2 | down | -5.7214 |
| 9970 | Nuclear receptor subfamily 1, group I, member 3 | NR1I3 | down | -25.8733 |
| 5465 | Peroxisome proliferator-activated receptor alpha | PPARA | down | -2.4711 |
| 7421 | Vitamin D (1,25- dihydroxyvitamin D3) receptor | VDR | up | 2.441054 |
|  |  |  |  |  |
| **Alternative complement pathway** | | | | |
| 727 | Complement component 5 | C5 | down | -3.69137 |
| 729 | Complement component 6 | C6 | down | -6.58531 |
| 735 | Complement component 9 | C9 | down | -6.46105 |
| 629 | Complement factor B | CFB | down | -2.17218 |
| 1675 | Complement factor D (adipsin) | CFD | up | 3.184366 |
| 718 | Similar to Complement C3 precursor; complement component 3 | C3 | down | -4.60885 |
| 653879 | Similar to Complement C3 precursor; complement component 3 | LOC653879 | down | -4.2577 |
|  |  |  |  |  |
| **Extrinsic prothrombin activation pathway** | | | | |
| 462 | Serpin peptidase inhibitor, clade C (antithrombin), member 1 | SERPINC1 | down | -13.0921 |
| 2152 | Coagulation factor III (thromboplastin, tissue factor) | F3 | up | 2.309957 |
| 2153 | Coagulation factor V (proaccelerin, labile factor) | F5 | down | -5.24843 |
| 2155 | Coagulation factor VII (serum prothrombin conversion accelerator) | F7 | down | -17.138 |
| 2159 | Coagulation factor X | F10 | down | -5.46418 |
| 5624 | Protein C (inactivator of coagulation factors Va and VIIIa) | PROC | down | -16.7012 |
|  |  |  |  |  |
| **Classical complement pathway** | |  |  |  |
| 715 | Complement component 1, r subcomponent | C1R | down | -4.22714 |
| 716 | Complement component 1, s subcomponent | C1S | down | -3.3986 |
| 727 | Complement component 5 | C5 | down | -3.69137 |
| 729 | Complement component 6 | C6 | down | -6.58531 |
| 735 | Complement component 9 | C9 | down | -6.46105 |
| 718 | Similar to Complement C3 precursor; complement component 3 | C3 | down | -4.60885 |
| 653879 | Similar to Complement C3 precursor; complement component 3 | LOC653879 | down | -4.2577 |
|  |  |  |  |  |
| **Lectin induced complement pathway** | |  |  |  |
| 727 | Complement component 5 | C5 | down | -3.69137 |
| 729 | Complement component 6 | C6 | down | -6.58531 |
| 735 | Complement component 9 | C9 | down | -6.46105 |
| 5648 | Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) | MASP1 | down | -4.62649 |
| 10747 | Mannan-binding lectin serine peptidase 2 | MASP2 | down | -14.6803 |
| 718 | Similar to Complement C3 precursor; complement component 3 | C3 | down | -4.60885 |
| 653879 | Similar to Complement C3 precursor; complement component 3 | LOC653879 | down | -4.2577 |
|  |  |  |  |  |
| **Acute myocardial infarction** | |  |  |  |
| 2155 | Coagulation factor VII (serum prothrombin conversion accelerator) | F7 | down | -17.138 |
| 2159 | Coagulation factor X | F10 | down | -5.46418 |
| 5340 | Plasminogen | PLG | down | -21.7506 |
| 5327 | Plasminogen activator, tissue | PLAT | up | 3.108569 |
| 5624 | Protein C (inactivator of coagulation factors Va and VIIIa) | PROC | down | -16.7012 |
| 462 | Serpin peptidase inhibitor, clade C (antithrombin), member 1 | SERPINC1 | down | -13.0921 |
|  |  |  |  |  |
| **Vitamin c in the brain** | |  |  |  |
| 6515 | Solute carrier family 2 (facilitated glucose transporter), member 3 | SLC2A3 | up | 4.01492 |
| 9963 | Solute carrier family 23 (nucleobase transporters), member 1 | SLC23A1 | down | -2.7013 |
| 9962 | Solute carrier family 23 (nucleobase transporters), member 2 | SLC23A2 | down | -4.5407 |
|  |  |  |  |  |

**Appendix 6 Functional annotation of pathways whose genes were found to be over-represented among entities differentially expressed in fulminant hepatitis E, but not in fulminant hepatitis B (derived using BioCarta through DAVID resource)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene ID** | **Gene name** | **Symbol** | **Regulation** | **Fold change** |
| **T Cytotoxic Cell Surface Molecules** | |  |  |  |
| 914 | CD2 molecule | CD2 | up | 2.973769 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 925 | CD8a molecule | CD8A | up | 3.971118 |
| 3683 | Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) | ITGAL | up | 2.266012 |
| 3689 | Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) | ITGB2 | up | 2.773316 |
| **CTL mediated immune response against target cells** | | | | |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 3105 | Major histocompatibility complex, class I, A | HLA-A | up | 2.050494 |
| 3683 | Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) | ITGAL | up | 2.266012 |
| 3689 | Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) | ITGB2 | up | 2.773316 |
| 5551 | Perforin 1 (pore forming protein) | PRF1 | up | 3.330668 |
| **T Helper Cell Surface Molecules** | |  |  |  |
| 914 | CD2 molecule | CD2 | up | 2.973769 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 3683 | Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) | ITGAL | up | 2.266012 |
| 3689 | Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) | ITGB2 | up | 2.773316 |
| **T Cell Receptor Signaling Pathway** | |  |  |  |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 2534 | FYN oncogene related to SRC, FGR, YES | FYN | up | 2.994839 |
| 4790 | Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 | NFKB1 | up | 2.530153 |
| 4792 | Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha | NFKBIA | up | 2.0999 |
| 5335 | Phospholipase C, gamma 1 | PLCG1 | up | 2.230064 |
| 5579 | Protein kinase C, beta | PRKCB1 | up | 2.343893 |
| 5879 | Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) | RAC1 | up | 2.000976 |
| 2353 | V-fos FBJ murine osteosarcoma viral oncogene homolog | FOS | down | -3.55058 |
| **Co-Stimulatory signal during T-cell activation** | |  |  |  |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 942 | CD86 molecule | CD86 | up | 3.253172 |
| 3702 | IL2-inducible T-cell kinase | ITK | up | 3.028494 |
| 1493 | Cytotoxic T-lymphocyte-associated protein 4 | CTLA4 | up | 2.151734 |
| 3122 | Major histocompatibility complex, class II, DR alpha | HLA-DRA | up | 2.218532 |
| **Lck and Fyn tyrosine kinases in initiation of TCR Activation** | | | | |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 2534 | FYN oncogene related to SRC, FGR, YES | FYN | up | 2.994839 |
| 3122 | Major histocompatibility complex, class II, DR alpha | HLA-DRA | up | 2.218532 |
| **IL-7 Signal Transduction** | | | | |
| 596 | B-cell CLL/lymphoma 2 | BCL2 | up | 3.127162 |
| 2534 | FYN oncogene related to SRC, FGR, YES | FYN | up | 2.994839 |
| 3561 | Interleukin 2 receptor, gamma (severe combined immunodeficiency) | IL2RG | up | 2.091531 |
| 3575 | Interleukin 7 receptor | IL7R | up | 3.219576 |
| 6776 | Signal transducer and activator of transcription 5A | STAT5A | up | 2.387428 |
| **T Cell Receptor and CD3 Complex** | |  |  |  |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| **IL 17 Signaling Pathway** | |  |  |  |
| 914 | CD2 molecule | CD2 | up | 2.973769 |
| 919 | CD247 molecule | CD247 | up | 3.769588 |
| 915 | CD3d molecule, delta (CD3-TCR complex) | CD3D | up | 2.544555 |
| 917 | CD3g molecule, gamma (CD3-TCR complex) | CD3G | up | 2.557324 |
| 925 | CD8a molecule | CD8A | up | 3.971118 |