**Table S1 Differentially expressed genes of GSE10006**

|  |  |  |  |
| --- | --- | --- | --- |
| GSE10006 |log2(FC)| >1 and p-value <0.05 | | | |
| Gene.Symbol | logFC | P.Value | Up/Down |
| CYP1B1 | 6.494282838 | 4.48E-14 | Upregulated |
| CYP1A1 | 5.955373585 | 3.24E-09 | Upregulated |
| UCHL1 | 5.396963873 | 4.76E-13 | Upregulated |
| AKR1B10 | 5.126217794 | 2.58E-13 | Upregulated |
| SPP1 | 3.558405438 | 1.46E-05 | Upregulated |
| GAD1 | 3.523370784 | 4.27E-08 | Upregulated |
| LOC284825 | 3.502553678 | 1.33E-11 | Upregulated |
| LOC344887 | 3.198576767 | 4.91E-08 | Upregulated |
| SLC7A11 | 3.148207663 | 4.51E-09 | Upregulated |
| AHRR | 3.127484923 | 1.04E-08 | Upregulated |
| CLEC5A | 2.945459173 | 1.41E-05 | Upregulated |
| CABYR | 2.890114463 | 8.54E-10 | Upregulated |
| GPX2 | 2.874173732 | 7.04E-12 | Upregulated |
| MEP1A | 2.845624967 | 9.50E-10 | Upregulated |
| MUCL1 | 2.820096113 | 9.30E-12 | Upregulated |
| CCL2 | 2.781126922 | 0.000553045 | Upregulated |
| ST3GAL4-AS1 | 2.721656632 | 1.15E-07 | Upregulated |
| SPRR1B | 2.715827304 | 9.03E-07 | Upregulated |
| STATH | 2.688639378 | 2.47E-05 | Upregulated |
| SFRP2 | 2.602668895 | 6.08E-05 | Upregulated |
| B3GNT6 | 2.579314422 | 2.14E-05 | Upregulated |
| ADH7 | 2.534498299 | 3.52E-10 | Upregulated |
| HOTS | 2.522641656 | 0.000322521 | Upregulated |
| CEACAM5 | 2.501405527 | 2.38E-06 | Upregulated |
| ALDH3A1 | 2.480464142 | 1.08E-10 | Upregulated |
| TCN1 | 2.472400443 | 8.93E-09 | Upregulated |
| JAKMIP3 | 2.458055081 | 2.17E-05 | Upregulated |
| SLC38A11 | 2.44633163 | 7.50E-06 | Upregulated |
| DNASE2B | 2.417363977 | 4.74E-05 | Upregulated |
| SPRR3 | 2.390585283 | 0.000315436 | Upregulated |
| BMP4 | 2.344220277 | 0.001136393 | Upregulated |
| EPHB1 | 2.336516851 | 2.88E-05 | Upregulated |
| NWD2 | 2.3064255 | 9.41E-05 | Upregulated |
| DTNA | 2.294529478 | 1.17E-07 | Upregulated |
| ME1 | 2.255771856 | 1.26E-12 | Upregulated |
| BPIFB2 | 2.242435829 | 0.001456552 | Upregulated |
| PPARG | 2.218966622 | 0.000707 | Upregulated |
| MUC12 | 2.21349758 | 8.11E-05 | Upregulated |
| SCG3 | 2.19829228 | 0.005790342 | Upregulated |
| C10orf126 | 2.194974933 | 0.002293122 | Upregulated |
| DAB2 | 2.188241673 | 4.90E-05 | Upregulated |
| LINC00309 | 2.179452706 | 0.002520864 | Upregulated |
| HTR2B | 2.155608314 | 0.001464213 | Upregulated |
| CXCL14 | 2.13356993 | 0.003360033 | Upregulated |
| PRO2964 | 2.133204468 | 0.002051431 | Upregulated |
| MCEMP1 | 2.127216501 | 0.000527232 | Upregulated |
| RTKN2 | 2.118233637 | 0.006119347 | Upregulated |
| OTOGL | 2.117855802 | 0.001086026 | Upregulated |
| ELFN2 | 2.101003971 | 3.12E-06 | Upregulated |
| CREG2 | 2.091704819 | 0.000233462 | Upregulated |
| C10orf40 | 2.087566059 | 0.000297572 | Upregulated |
| PHEX | 2.084538324 | 6.08E-08 | Upregulated |
| ASIP | 2.071978465 | 0.000317964 | Upregulated |
| LINC00942 | 2.051445993 | 7.31E-05 | Upregulated |
| LOC101928405 | 2.042247705 | 0.002038861 | Upregulated |
| TNIP3 | 2.038975905 | 0.002315107 | Upregulated |
| LOC100130815 | 2.03226614 | 0.000213956 | Upregulated |
| EGF | 2.031324104 | 2.52E-07 | Upregulated |
| PANX3 | 2.029524039 | 0.00112153 | Upregulated |
| EXD1 | 2.016696451 | 0.000198986 | Upregulated |
| HS3ST3A1 | 2.012283331 | 0.000148383 | Upregulated |
| CAGE1 | 2.002103422 | 0.009034592 | Upregulated |
| PTPRH | 2.001135766 | 5.20E-05 | Upregulated |
| LOC101928443 | 1.997169184 | 0.000266716 | Upregulated |
| NOL4 | 1.980752517 | 0.001428934 | Upregulated |
| RP11-278J20.2 | 1.979752185 | 0.0008681 | Upregulated |
| AK054988 | 1.977638671 | 0.001069526 | Upregulated |
| SLC17A4 | 1.97719872 | 3.34E-05 | Upregulated |
| PCDH8 | 1.972272036 | 0.000227382 | Upregulated |
| CTC-384G19.1 | 1.956504831 | 0.001574784 | Upregulated |
| ACTL9 | 1.947486068 | 0.001462798 | Upregulated |
| ITGAX | 1.932873695 | 0.004955594 | Upregulated |
| IL4 | 1.925128733 | 0.000795839 | Upregulated |
| TREM2 | 1.923670445 | 0.00189325 | Upregulated |
| MRC1 | 1.916445015 | 0.000319507 | Upregulated |
| LINC01242 | 1.913369376 | 0.000904834 | Upregulated |
| FSIP2 | 1.904761816 | 0.003747938 | Upregulated |
| LOC102467079 | 1.885515138 | 0.000370122 | Upregulated |
| BC042374 | 1.88339568 | 0.000287884 | Upregulated |
| RP11-203B7.1 | 1.879040335 | 0.001291394 | Upregulated |
| HOXA1 | 1.878631678 | 0.000457124 | Upregulated |
| HMGCS2 | 1.877224753 | 0.009225705 | Upregulated |
| TMEM26 | 1.876813939 | 0.001610091 | Upregulated |
| LOC101927829 | 1.854116352 | 0.004937726 | Upregulated |
| RP11-456P18.2 | 1.853445626 | 0.002807246 | Upregulated |
| CCL7 | 1.842716531 | 0.001575057 | Upregulated |
| LOC101926963 | 1.838054778 | 0.001894451 | Upregulated |
| LOC101593348 | 1.828670783 | 6.10E-05 | Upregulated |
| AMER2 | 1.823181341 | 0.008314042 | Upregulated |
| CYP4F3 | 1.819378236 | 2.92E-07 | Upregulated |
| LOC101928429 | 1.813653905 | 0.005702739 | Upregulated |
| VWA5B1 | 1.812531781 | 0.000266612 | Upregulated |
| EPYC | 1.80961302 | 0.001027175 | Upregulated |
| LOC101927508 | 1.80780335 | 0.009595546 | Upregulated |
| ATXN8OS | 1.805208937 | 0.001886438 | Upregulated |
| AC124997.1 | 1.804944241 | 0.002458712 | Upregulated |
| MYH16 | 1.797655381 | 0.003904633 | Upregulated |
| LOC101927690 | 1.79489333 | 0.004462267 | Upregulated |
| PRICKLE2-AS3 | 1.793580744 | 0.006759234 | Upregulated |
| CPE | 1.79039333 | 1.61E-06 | Upregulated |
| LOC101929591 | 1.790034709 | 0.000399572 | Upregulated |
| ADCY8 | 1.781135953 | 0.000453582 | Upregulated |
| NNAT | 1.778727754 | 0.000674975 | Upregulated |
| KCND2 | 1.775663643 | 0.00165682 | Upregulated |
| JAZF1-AS1 | 1.77444671 | 0.000665089 | Upregulated |
| HAGLR | 1.773658336 | 0.001884142 | Upregulated |
| RP11-945A11.2 | 1.773493283 | 0.004894401 | Upregulated |
| GUCA2B | 1.770983145 | 0.000600938 | Upregulated |
| EBF2 | 1.770929892 | 0.003411604 | Upregulated |
| DEFB126 | 1.770075483 | 0.000658946 | Upregulated |
| PEAR1 | 1.769054266 | 5.48E-05 | Upregulated |
| BC034444 | 1.761099873 | 0.001966092 | Upregulated |
| CLIP4 | 1.752067859 | 3.59E-09 | Upregulated |
| CBR1 | 1.749324231 | 5.54E-06 | Upregulated |
| SRPX2 | 1.745295648 | 5.51E-08 | Upregulated |
| AL132709.8 | 1.742524195 | 0.003055235 | Upregulated |
| FAM150B | 1.736296259 | 0.00354925 | Upregulated |
| LOC101928700 | 1.730153497 | 0.007727993 | Upregulated |
| PCSK2 | 1.729375168 | 0.003839968 | Upregulated |
| GRIA2 | 1.725841406 | 0.006918576 | Upregulated |
| LOC100126784 | 1.724671401 | 0.001228739 | Upregulated |
| ETV1 | 1.724246116 | 0.000193147 | Upregulated |
| FOXD3-AS1 | 1.723687801 | 5.92E-07 | Upregulated |
| C9orf50 | 1.72185988 | 0.002880619 | Upregulated |
| SIGLEC11 | 1.717001326 | 0.000614993 | Upregulated |
| LINC00486 | 1.716184259 | 0.009928755 | Upregulated |
| RP1-6P5.2 | 1.712407954 | 0.001315259 | Upregulated |
| LINC00970 | 1.705482337 | 0.001287348 | Upregulated |
| LOC101927273 | 1.704029079 | 0.000299309 | Upregulated |
| PSMA8 | 1.700551079 | 0.001601194 | Upregulated |
| PRAMEF10 | 1.69778855 | 0.01988904 | Upregulated |
| GNAT3 | 1.697216108 | 0.009878533 | Upregulated |
| OR5E1P | 1.696406411 | 0.001651062 | Upregulated |
| TPRXL | 1.69555455 | 3.97E-06 | Upregulated |
| TRAV12-2 | 1.694765281 | 0.001047824 | Upregulated |
| KRT40 | 1.690034336 | 0.003129824 | Upregulated |
| TSPEAR | 1.689734725 | 0.000613631 | Upregulated |
| BC039487 | 1.689038387 | 0.005607296 | Upregulated |
| LOC100505878 | 1.688484284 | 0.0148372 | Upregulated |
| CALCA | 1.687235296 | 1.76E-06 | Upregulated |
| OSGIN1 | 1.679633951 | 3.51E-05 | Upregulated |
| ARPP21 | 1.67705316 | 0.011613697 | Upregulated |
| KRT84 | 1.674751502 | 0.001792411 | Upregulated |
| C1orf220 | 1.671503378 | 0.010746307 | Upregulated |
| WDR72 | 1.669611903 | 0.000258402 | Upregulated |
| LINC00358 | 1.668647941 | 0.013832534 | Upregulated |
| GCSAML | 1.668600266 | 0.003220245 | Upregulated |
| LCTL | 1.66644715 | 0.019111315 | Upregulated |
| ZNF620 | 1.66184552 | 0.009083271 | Upregulated |
| LINC00327 | 1.661656043 | 0.005032334 | Upregulated |
| SCGB1D2 | 1.659337086 | 0.005104072 | Upregulated |
| LOC101929717 | 1.654553871 | 0.001048494 | Upregulated |
| INHBE | 1.653390211 | 0.002860292 | Upregulated |
| TSPYL6 | 1.652592898 | 0.016812912 | Upregulated |
| LOC285000 | 1.651759564 | 0.000208269 | Upregulated |
| HAND2-AS1 | 1.649406889 | 0.021344584 | Upregulated |
| PRO2958 | 1.640237283 | 0.013783956 | Upregulated |
| CYP4F11 | 1.639477331 | 0.00401356 | Upregulated |
| RASL12 | 1.632365952 | 0.001228183 | Upregulated |
| RP11-510C10.4 | 1.631982265 | 0.021823568 | Upregulated |
| RPTN | 1.6315751 | 0.006744569 | Upregulated |
| SPTA1 | 1.626986607 | 0.00115937 | Upregulated |
| FN1 | 1.623669122 | 0.013276568 | Upregulated |
| ADAM3A | 1.622299418 | 0.004566348 | Upregulated |
| SHD | 1.622274018 | 0.002459592 | Upregulated |
| LOC646736 | 1.620857266 | 0.011367892 | Upregulated |
| OR5K1 | 1.620643761 | 0.005093584 | Upregulated |
| LINC01448 | 1.619788005 | 0.008611122 | Upregulated |
| HGD | 1.619399155 | 8.77E-06 | Upregulated |
| KRMP1 | 1.618993093 | 0.000226508 | Upregulated |
| ATP8B5P | 1.618902962 | 0.001154588 | Upregulated |
| LOC101929210 | 1.616973881 | 0.01738662 | Upregulated |
| DQ580846 | 1.614244953 | 0.005500215 | Upregulated |
| MGAT4C | 1.613842413 | 0.011252531 | Upregulated |
| ERVMER61-1 | 1.613011801 | 0.019667595 | Upregulated |
| LOC101929050 | 1.610723237 | 0.00680659 | Upregulated |
| CACNB2 | 1.610410684 | 0.000477756 | Upregulated |
| LOC101927438 | 1.609423616 | 0.011242482 | Upregulated |
| AJAP1 | 1.60599382 | 0.000474259 | Upregulated |
| BPIFB4 | 1.604464093 | 0.000598658 | Upregulated |
| AK024936 | 1.602244454 | 0.001279479 | Upregulated |
| RP11-245P10.8 | 1.599108682 | 0.000185492 | Upregulated |
| NBEAP1 | 1.59448116 | 0.016763261 | Upregulated |
| RP11-502N13.2 | 1.594473869 | 3.91E-05 | Upregulated |
| FAM47B | 1.591923528 | 0.008313583 | Upregulated |
| SHISA7 | 1.591520832 | 0.000254718 | Upregulated |
| FRRS1 | 1.587012741 | 0.013143321 | Upregulated |
| AMBN | 1.586618213 | 0.002104932 | Upregulated |
| LOC100653086 | 1.586328801 | 0.000240333 | Upregulated |
| CNGB1 | 1.585806118 | 7.83E-07 | Upregulated |
| STL | 1.584312132 | 0.010294556 | Upregulated |
| KRT19P2 | 1.583084774 | 0.017324671 | Upregulated |
| SI | 1.582930881 | 0.023725404 | Upregulated |
| OBP2A | 1.582213164 | 0.000708155 | Upregulated |
| LINC00529 | 1.581160779 | 0.001256901 | Upregulated |
| LOC101927592 | 1.579727245 | 0.000702481 | Upregulated |
| BPIFA2 | 1.57896367 | 0.001988424 | Upregulated |
| KRT6A | 1.577500993 | 0.001417358 | Upregulated |
| CELA1 | 1.577442657 | 0.000913349 | Upregulated |
| LYVE1 | 1.577007812 | 0.000869028 | Upregulated |
| UGT1A1 | 1.576433138 | 0.006068884 | Upregulated |
| C3orf79 | 1.575878363 | 0.020196637 | Upregulated |
| LOC101929949 | 1.574850057 | 0.006962305 | Upregulated |
| TLR8 | 1.573947248 | 0.005129873 | Upregulated |
| BNC1 | 1.572877727 | 0.001348352 | Upregulated |
| LINC00314 | 1.572790719 | 0.014557192 | Upregulated |
| LOC101928809 | 1.572276294 | 0.022711676 | Upregulated |
| NFE4 | 1.571210989 | 0.008146439 | Upregulated |
| GFRA3 | 1.568949737 | 0.000330641 | Upregulated |
| LOC646241 | 1.568303752 | 0.020449758 | Upregulated |
| CFHR3 | 1.567301347 | 0.003922261 | Upregulated |
| LOC284788 | 1.562614473 | 0.002154379 | Upregulated |
| THPO | 1.562116318 | 0.009036179 | Upregulated |
| LOC285423 | 1.558593767 | 0.006294932 | Upregulated |
| NXF3 | 1.557615368 | 0.002118694 | Upregulated |
| LOC100506236 | 1.556491316 | 0.003031932 | Upregulated |
| SLC26A9 | 1.555778947 | 3.98E-06 | Upregulated |
| HOXD12 | 1.55327662 | 0.002237507 | Upregulated |
| DSG1 | 1.548845251 | 0.000523251 | Upregulated |
| SLCO5A1 | 1.548731184 | 0.031924507 | Upregulated |
| RP13-238F13.5 | 1.547238412 | 0.003855965 | Upregulated |
| NEFL | 1.546871288 | 0.001685028 | Upregulated |
| FW340027 | 1.546166014 | 0.002004064 | Upregulated |
| IL19 | 1.545431436 | 0.000291608 | Upregulated |
| GNGT2 | 1.545052697 | 0.002806852 | Upregulated |
| C9orf57 | 1.544985227 | 0.036272232 | Upregulated |
| AKR1C3 | 1.543068695 | 1.90E-08 | Upregulated |
| RBM34 | 1.538284857 | 0.012970507 | Upregulated |
| CAPN6 | 1.537399171 | 0.009594259 | Upregulated |
| SPANXB1 | 1.535635477 | 0.016051825 | Upregulated |
| RP11-218F4.1 | 1.53343203 | 0.007286361 | Upregulated |
| SLC39A5 | 1.533375375 | 0.00058824 | Upregulated |
| LOC100507461 | 1.531355143 | 0.001519523 | Upregulated |
| ENAM | 1.53114269 | 0.000840309 | Upregulated |
| SLITRK4 | 1.530912437 | 0.021043669 | Upregulated |
| LOC100286922 | 1.528909059 | 0.002707242 | Upregulated |
| LOC151760 | 1.527204538 | 0.009687452 | Upregulated |
| SCG5 | 1.525647992 | 0.008874308 | Upregulated |
| C9orf47 | 1.525059203 | 0.001695263 | Upregulated |
| TLR6 | 1.52502029 | 0.003069437 | Upregulated |
| CAPN14 | 1.52404672 | 0.023583761 | Upregulated |
| HTRA4 | 1.522625578 | 0.015708117 | Upregulated |
| SERPINA2 | 1.520873307 | 0.004825633 | Upregulated |
| MUSK | 1.520198872 | 0.011741052 | Upregulated |
| GNG13 | 1.519842449 | 0.001992723 | Upregulated |
| AL832163 | 1.518455505 | 0.003252646 | Upregulated |
| JPH3 | 1.518240171 | 0.004684834 | Upregulated |
| LINC00445 | 1.514595729 | 0.010147543 | Upregulated |
| SLC22A12 | 1.512883259 | 0.000715973 | Upregulated |
| LOC101928614 | 1.512445167 | 0.007779208 | Upregulated |
| TMEM262 | 1.510916637 | 0.001215367 | Upregulated |
| CHRNE | 1.506357184 | 0.000407024 | Upregulated |
| KCNIP2-AS1 | 1.504683139 | 0.001743114 | Upregulated |
| BC043356 | 1.504182971 | 0.000754225 | Upregulated |
| LOC101928420 | 1.499534723 | 0.018992165 | Upregulated |
| GPR113 | 1.495943506 | 0.002737385 | Upregulated |
| C18orf61 | 1.495193587 | 0.003328799 | Upregulated |
| ZNF215 | 1.494326244 | 0.000883291 | Upregulated |
| ASCL1 | 1.493363028 | 0.002767239 | Upregulated |
| OSTM1-AS1 | 1.49165504 | 0.004845298 | Upregulated |
| CTHRC1 | 1.491481219 | 0.003624152 | Upregulated |
| FAM19A4 | 1.491413585 | 0.025077387 | Upregulated |
| CBR3 | 1.489276165 | 3.27E-06 | Upregulated |
| LOXHD1 | 1.487674471 | 0.004138517 | Upregulated |
| KB-1000E4.2 | 1.486720902 | 0.004613343 | Upregulated |
| MLK7-AS1 | 1.485526648 | 0.01858809 | Upregulated |
| GABRR3 | 1.485160105 | 0.007500879 | Upregulated |
| FAM20C | 1.484282642 | 0.002436708 | Upregulated |
| OMD | 1.48400174 | 0.012626835 | Upregulated |
| RP11-550I24.2 | 1.482563822 | 0.001521232 | Upregulated |
| KCNV1 | 1.48115348 | 0.007015209 | Upregulated |
| PLA2G7 | 1.48078914 | 0.039381268 | Upregulated |
| CXorf67 | 1.480199152 | 0.010940743 | Upregulated |
| LOC102723757 | 1.47945853 | 0.004287103 | Upregulated |
| CYP4F2 | 1.476462305 | 0.004295022 | Upregulated |
| CASC6 | 1.474225924 | 0.016083742 | Upregulated |
| LOC100506379 | 1.473946895 | 0.016323775 | Upregulated |
| LOC101928009 | 1.47366224 | 0.009185224 | Upregulated |
| AQPEP | 1.473395194 | 0.01057196 | Upregulated |
| CEND1 | 1.473259108 | 0.006137765 | Upregulated |
| CBX2 | 1.471242391 | 0.00308754 | Upregulated |
| ESX1 | 1.470361129 | 0.016172101 | Upregulated |
| LINC01393 | 1.468672387 | 0.002663079 | Upregulated |
| LOC100128175 | 1.466234367 | 0.016892467 | Upregulated |
| GLYATL1 | 1.466083994 | 0.027356691 | Upregulated |
| LOC101930541 | 1.465194746 | 0.004539056 | Upregulated |
| OR51I2 | 1.464151251 | 0.000178059 | Upregulated |
| PDC | 1.460145763 | 0.002702361 | Upregulated |
| C17orf98 | 1.459908532 | 0.001402139 | Upregulated |
| PYDC1 | 1.458547759 | 0.002366715 | Upregulated |
| LINC01087 | 1.458464435 | 0.00842355 | Upregulated |
| TRPM5 | 1.457231661 | 0.00133555 | Upregulated |
| LOC101929154 | 1.456359528 | 0.00453064 | Upregulated |
| SH2D4B | 1.456307463 | 0.022673549 | Upregulated |
| MSR1 | 1.453785491 | 0.001504805 | Upregulated |
| FAM230C | 1.452630047 | 0.002921558 | Upregulated |
| BC036209 | 1.452284648 | 0.017262051 | Upregulated |
| LILRB2 | 1.45204157 | 0.025738369 | Upregulated |
| LOC101928837 | 1.451475593 | 0.002486933 | Upregulated |
| LOC647323 | 1.451057189 | 0.024579038 | Upregulated |
| SLC22A24 | 1.450973171 | 0.006917839 | Upregulated |
| CDO1 | 1.450234356 | 0.006313184 | Upregulated |
| CBLN2 | 1.449960919 | 0.001387087 | Upregulated |
| FSHR | 1.447327036 | 0.004183355 | Upregulated |
| TMPRSS11E | 1.446722591 | 0.00375999 | Upregulated |
| TCERG1L | 1.446108033 | 0.000197003 | Upregulated |
| LINC00403 | 1.444460008 | 0.012291172 | Upregulated |
| LOC728099 | 1.442267833 | 0.000165535 | Upregulated |
| LOC441081 | 1.438437511 | 0.000377596 | Upregulated |
| MMP12 | 1.437136855 | 0.020890773 | Upregulated |
| SNORD114-3 | 1.43547293 | 0.024667739 | Upregulated |
| LEPREL1 | 1.434924345 | 0.008061064 | Upregulated |
| GHRLOS | 1.433207279 | 0.000361951 | Upregulated |
| MMP19 | 1.433084561 | 0.029451693 | Upregulated |
| FCRL1 | 1.432326872 | 0.029696071 | Upregulated |
| CYP2C19 | 1.431834416 | 0.001572966 | Upregulated |
| RP11-429B14.4 | 1.431153717 | 0.000787283 | Upregulated |
| TMEM75 | 1.426833227 | 0.0198964 | Upregulated |
| CPNE4 | 1.426578184 | 0.007792238 | Upregulated |
| PIR | 1.424495025 | 2.60E-08 | Upregulated |
| NEUROG2 | 1.423920446 | 0.005502551 | Upregulated |
| C11orf96 | 1.423145501 | 0.027056109 | Upregulated |
| LOC101928047 | 1.423077726 | 0.026792729 | Upregulated |
| OR11A1 | 1.422756589 | 0.003024766 | Upregulated |
| RP11-998D10.7 | 1.421936725 | 0.002744251 | Upregulated |
| LOC102724165 | 1.421530368 | 0.006247419 | Upregulated |
| NQO1 | 1.421248986 | 8.50E-10 | Upregulated |
| PAQR5 | 1.420068833 | 0.000396514 | Upregulated |
| IVL | 1.420012191 | 0.012549117 | Upregulated |
| MURC | 1.419604319 | 0.029490622 | Upregulated |
| EN2 | 1.417507743 | 0.005326822 | Upregulated |
| CDC14C | 1.417114832 | 0.025887077 | Upregulated |
| SVOP | 1.414545824 | 0.002446029 | Upregulated |
| CSN1S2AP | 1.413837537 | 0.002388854 | Upregulated |
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| RP11-1109M24.16 | 1.334954319 | 0.007037089 | Upregulated |
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| AC005606.14 | 1.175768965 | 0.035204502 | Upregulated |
| ADCY4 | 1.175496764 | 0.005147076 | Upregulated |
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| FAM3B | 1.172271992 | 5.54E-06 | Upregulated |
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| SOSTDC1 | 1.170847958 | 0.014272713 | Upregulated |
| TAS1R1 | 1.170816505 | 0.014471115 | Upregulated |
| EPS8L3 | 1.170288155 | 0.03343457 | Upregulated |
| MSX1 | 1.169743382 | 0.008960365 | Upregulated |
| PNOC | 1.169671562 | 0.029433712 | Upregulated |
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| SKAP2 | 1.169097227 | 4.51E-06 | Upregulated |
| USP44 | 1.167350349 | 0.014570206 | Upregulated |
| KRTAP8-1 | 1.167212324 | 0.002653887 | Upregulated |
| NR5A2 | 1.166178741 | 0.009590482 | Upregulated |
| DUOX2 | 1.166116213 | 0.005461694 | Upregulated |
| C1orf167 | 1.16458812 | 0.004815107 | Upregulated |
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| LINC00669 | 1.163040243 | 0.022102775 | Upregulated |
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| RP11-619L19.1 | 1.162308957 | 0.007167005 | Upregulated |
| RP11-63D14.1 | 1.161879881 | 0.043320071 | Upregulated |
| CST9L | 1.160925153 | 0.024246498 | Upregulated |
| RP11-524D16\_\_A.3 | 1.160303294 | 0.005548374 | Upregulated |
| FAM205B | 1.160095227 | 0.012775865 | Upregulated |
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| BCAT1 | 1.156357637 | 0.019235534 | Upregulated |
| TMEM158 | 1.155981981 | 0.026903035 | Upregulated |
| RP1-58B11.1 | 1.155262497 | 0.00280543 | Upregulated |
| STXBP5L | 1.153706236 | 0.027074398 | Upregulated |
| ASCL3 | 1.153460787 | 1.91E-05 | Upregulated |
| RP1-28C20.1 | 1.153354839 | 0.049017327 | Upregulated |
| RP11-362K14.7 | 1.15164966 | 0.00018103 | Upregulated |
| TSGA10IP | 1.15126217 | 0.010285966 | Upregulated |
| MATR3 | 1.150859606 | 0.000712164 | Upregulated |
| KRTAP17-1 | 1.150719781 | 0.00270795 | Upregulated |
| ASIC2 | 1.150651172 | 0.006244116 | Upregulated |
| OR10C1 | 1.150367813 | 0.014989016 | Upregulated |
| BTK | 1.150353001 | 4.59E-05 | Upregulated |
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| TXNRD1 | 1.14664307 | 5.58E-07 | Upregulated |
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| CNTD2 | 1.146094033 | 0.035037875 | Upregulated |
| RP11-375I20.6 | 1.145937671 | 0.026347366 | Upregulated |
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| RP11-222K16.1 | 1.142165457 | 0.016260087 | Upregulated |
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| RP11-109E24.2 | 1.140009429 | 0.038877625 | Upregulated |
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| CACNG1 | 1.139467291 | 0.014915398 | Upregulated |
| TAS2R4 | 1.139177002 | 0.01015806 | Upregulated |
| MGC32805 | 1.137929486 | 0.00415526 | Upregulated |
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| NHEG1 | 1.132503758 | 0.000575739 | Upregulated |
| GNA14-AS1 | 1.132411484 | 0.012078848 | Upregulated |
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| C17orf74 | 1.130970909 | 0.02028836 | Upregulated |
| KHDC1L | 1.130403765 | 0.017483604 | Upregulated |
| C2orf70 | 1.129332684 | 7.60E-08 | Upregulated |
| POM121L12 | 1.128472289 | 0.017000006 | Upregulated |
| CATX-1 | 1.127778311 | 0.04240472 | Upregulated |
| CYMP | 1.127135855 | 0.008502182 | Upregulated |
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| FAM83C-AS1 | 1.126937971 | 0.033172635 | Upregulated |
| DIAPH2-AS1 | 1.126577849 | 0.003103403 | Upregulated |
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| FAM71F1 | 1.123127933 | 0.0083982 | Upregulated |
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| LOC280665 | 1.121138521 | 0.022641428 | Upregulated |
| FAM26D | 1.120817609 | 0.045164164 | Upregulated |
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| TMEM132B | 1.119086532 | 0.027364859 | Upregulated |
| RPL27A | 1.118948996 | 0.003739349 | Upregulated |
| LINC00687 | 1.118777528 | 0.046072694 | Upregulated |
| NKX2-3 | 1.117182474 | 0.004846682 | Upregulated |
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| ENTPD2 | 1.115498091 | 0.03425804 | Upregulated |
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| FCHO1 | 1.110366725 | 0.026618582 | Upregulated |
| CCR4 | 1.109056152 | 0.018776263 | Upregulated |
| RP11-680F20.10 | 1.108773259 | 0.00529639 | Upregulated |
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| CTSG | 1.10193219 | 0.014458784 | Upregulated |
| BSN-AS2 | 1.09920875 | 0.010038092 | Upregulated |
| LINC00841 | 1.099110712 | 0.029300215 | Upregulated |
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| LOC90246 | 1.098401486 | 0.048886674 | Upregulated |
| KAAG1 | 1.098293932 | 0.009134711 | Upregulated |
| CBX5 | 1.097853396 | 0.000477475 | Upregulated |
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| FAM71F2 | 1.095644318 | 0.033031156 | Upregulated |
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| FAM178B | 1.080613625 | 0.009621814 | Upregulated |
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| RP11-118G23.2 | 1.077329649 | 0.017285405 | Upregulated |
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| NR2E1 | 1.072442248 | 0.01353085 | Upregulated |
| COX6A2 | 1.072254928 | 0.006661991 | Upregulated |
| HOXB13 | 1.071255104 | 0.015156459 | Upregulated |
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| RP5-1154L15.2 | 1.06828868 | 0.021948633 | Upregulated |
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| EDNRB-AS1 | 1.050497212 | 0.047480762 | Upregulated |
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| RP13-122B23.8 | 1.04399487 | 0.003718492 | Upregulated |
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| RNF185-AS1 | 1.04242543 | 0.002273506 | Upregulated |
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| LRRC4B | 1.040626721 | 0.016201735 | Upregulated |
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| ARHGAP22 | 1.040376055 | 0.028635044 | Upregulated |
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| NTRK3-AS1 | 1.038738099 | 0.011611309 | Upregulated |
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| LINC01013 | 1.036520586 | 0.030602011 | Upregulated |
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| KRT2 | 1.036218477 | 0.037441442 | Upregulated |
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| RP11-410E4.1 | 1.030838259 | 0.026670656 | Upregulated |
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| GMFG | 1.019921785 | 0.015842825 | Upregulated |
| HAS1 | 1.019447482 | 0.008793495 | Upregulated |
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| TSPAN7 | 1.016855987 | 0.022246686 | Upregulated |
| SMOC1 | 1.016260038 | 0.026107372 | Upregulated |
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| AURKB | 1.008160529 | 0.042540108 | Upregulated |
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| C9orf53 | 1.006525733 | 0.03190595 | Upregulated |
| OR10H1 | 1.006253867 | 0.010432564 | Upregulated |
| CRYGA | 1.005914921 | 0.00161018 | Upregulated |
| ACTRT2 | 1.005886347 | 0.008844708 | Upregulated |
| DUSP9 | 1.005709566 | 0.043508258 | Upregulated |
| ACTL7B | 1.005419122 | 0.003047856 | Upregulated |
| XKR4 | 1.00518576 | 0.039106484 | Upregulated |
| LOC729224 | 1.004611792 | 0.043533431 | Upregulated |
| EPHA10 | 1.004357466 | 0.04880353 | Upregulated |
| HOXB6 | 1.00356276 | 0.030592954 | Upregulated |
| TUBB2B | 1.00336873 | 0.033011251 | Upregulated |
| ZG16 | 1.003203114 | 0.031508814 | Upregulated |
| LINC01300 | 1.002922065 | 0.047828005 | Upregulated |
| NAT16 | 1.002621941 | 0.003602127 | Upregulated |
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| KCNMB1 | 1.000577876 | 0.042099589 | Upregulated |
| BACH2 | 1.000560575 | 0.000746043 | Upregulated |
| GABRA2 | 1.000522516 | 0.046511542 | Upregulated |
| MLKL | 1.000485054 | 6.45E-05 | Upregulated |
| STEAP4 | -1.000216226 | 5.48E-05 | downregulated |
| CYP2F1 | -1.000803908 | 0.000478205 | downregulated |
| CD72 | -1.003129866 | 0.012416079 | downregulated |
| LOC100506014 | -1.009453082 | 0.014352906 | downregulated |
| TFEB | -1.009829173 | 9.24E-05 | downregulated |
| C15orf56 | -1.009883376 | 0.001055778 | downregulated |
| TCF7L1 | -1.010674056 | 1.92E-07 | downregulated |
| NTN1 | -1.011078443 | 1.39E-06 | downregulated |
| PNMAL1 | -1.012577463 | 0.000244953 | downregulated |
| SUSD4 | -1.01272941 | 1.68E-06 | downregulated |
| UFSP1 | -1.013686829 | 0.034736239 | downregulated |
| EDARADD | -1.013988397 | 0.022334221 | downregulated |
| ALDH4A1 | -1.015487937 | 0.022465903 | downregulated |
| NTS | -1.015932044 | 0.041821776 | downregulated |
| SNRPF | -1.020008545 | 9.27E-08 | downregulated |
| NPTX2 | -1.022423518 | 0.035394041 | downregulated |
| GHR | -1.022682794 | 0.009935879 | downregulated |
| IL12A | -1.022730576 | 5.88E-05 | downregulated |
| SERPINB3 | -1.023221812 | 0.004252932 | downregulated |
| POU5F1P4 | -1.024833974 | 0.013543569 | downregulated |
| MMP7 | -1.025123415 | 0.029356856 | downregulated |
| TMCC2 | -1.026627604 | 0.003067059 | downregulated |
| NR4A2 | -1.028783529 | 2.96E-05 | downregulated |
| ERAP2 | -1.030036323 | 0.03376982 | downregulated |
| IRS2 | -1.0386015 | 2.33E-05 | downregulated |
| RP11-354I10.1 | -1.039285652 | 0.032065273 | downregulated |
| LOC441179 | -1.040819044 | 0.008507127 | downregulated |
| MGP | -1.041170589 | 0.000418234 | downregulated |
| ANO1 | -1.041248385 | 0.019276289 | downregulated |
| RHOBTB3 | -1.044794791 | 0.000106039 | downregulated |
| TOB1-AS1 | -1.046356098 | 0.002820044 | downregulated |
| SLC5A11 | -1.04898453 | 0.006564406 | downregulated |
| SUGCT | -1.049825157 | 0.015031167 | downregulated |
| SCUBE3 | -1.051383118 | 0.002610282 | downregulated |
| IL6 | -1.053056515 | 0.041673031 | downregulated |
| ATP12A | -1.053821503 | 0.000192365 | downregulated |
| KLHDC7A | -1.054165613 | 1.70E-05 | downregulated |
| SAMD1 | -1.054519993 | 0.021037184 | downregulated |
| SYT2 | -1.055822734 | 0.019302003 | downregulated |
| SGCE | -1.056367873 | 8.11E-06 | downregulated |
| BTBD19 | -1.0565093 | 0.019143874 | downregulated |
| LOC101928068 | -1.056579432 | 0.013001933 | downregulated |
| DRD1 | -1.058023048 | 0.000698845 | downregulated |
| MALL | -1.059154233 | 8.87E-05 | downregulated |
| CSTL1 | -1.05993679 | 0.048849566 | downregulated |
| MSRB3 | -1.060200073 | 0.042122834 | downregulated |
| VGLL3 | -1.068955311 | 0.02343189 | downregulated |
| SLC5A7 | -1.069019376 | 0.021251753 | downregulated |
| C14orf132 | -1.072477801 | 7.42E-05 | downregulated |
| ZBTB16 | -1.073957731 | 0.002477452 | downregulated |
| VEGFA | -1.07402028 | 0.001031332 | downregulated |
| WNT4 | -1.076213217 | 0.003076891 | downregulated |
| NTSR1 | -1.079071549 | 0.040163918 | downregulated |
| PAX1 | -1.083462505 | 0.000960115 | downregulated |
| MGC34800 | -1.083889345 | 0.030710965 | downregulated |
| HES6 | -1.084581911 | 0.016421281 | downregulated |
| ITGB2-AS1 | -1.089350091 | 0.03482915 | downregulated |
| MT1F | -1.089441869 | 2.72E-05 | downregulated |
| LAG3 | -1.090395317 | 0.01571116 | downregulated |
| H2BFXP | -1.091121276 | 0.040137594 | downregulated |
| PRKAR2B | -1.0913679 | 1.97E-06 | downregulated |
| PYGO1 | -1.093203041 | 0.043889268 | downregulated |
| ZFP36 | -1.093851167 | 9.04E-05 | downregulated |
| MIR100HG | -1.094105997 | 0.028767423 | downregulated |
| NEURL1B | -1.094974735 | 8.40E-06 | downregulated |
| HOXC-AS3 | -1.095735322 | 0.020177538 | downregulated |
| PCDH17 | -1.096775797 | 3.04E-05 | downregulated |
| CLDN16 | -1.097337249 | 0.000505163 | downregulated |
| EFHD1 | -1.09804845 | 1.16E-05 | downregulated |
| NR4A1 | -1.10034791 | 0.004247947 | downregulated |
| NOS2 | -1.101591297 | 0.007630977 | downregulated |
| KGFLP2 | -1.103980764 | 0.020998986 | downregulated |
| LOC101927164 | -1.1044211 | 0.011414575 | downregulated |
| RTKN | -1.110194291 | 0.011338827 | downregulated |
| PANK1 | -1.111552112 | 1.50E-06 | downregulated |
| RP11-373D23.2 | -1.115077394 | 0.00985156 | downregulated |
| ZNF76 | -1.115239727 | 0.02577717 | downregulated |
| ZNF154 | -1.117118112 | 0.015839625 | downregulated |
| CYP4X1 | -1.120664944 | 9.34E-08 | downregulated |
| SORCS2 | -1.120950296 | 0.005344136 | downregulated |
| PVRL3-AS1 | -1.121824363 | 0.032400419 | downregulated |
| ONECUT1 | -1.125234382 | 0.01788156 | downregulated |
| C2orf82 | -1.125544161 | 0.020064823 | downregulated |
| C6orf123 | -1.126424099 | 0.004768667 | downregulated |
| FAM107A | -1.133721879 | 5.88E-05 | downregulated |
| CSGALNACT1 | -1.136194775 | 0.00227209 | downregulated |
| CTB-12O2.1 | -1.143548646 | 0.022669491 | downregulated |
| CLCA2 | -1.148650482 | 1.30E-05 | downregulated |
| FAS-AS1 | -1.149300344 | 0.040116264 | downregulated |
| FCGBP | -1.153179613 | 0.00077472 | downregulated |
| FJX1 | -1.155364101 | 0.001694693 | downregulated |
| RPRML | -1.161913456 | 0.020936358 | downregulated |
| LINC00423 | -1.163561079 | 0.012682195 | downregulated |
| LINC00173 | -1.164396543 | 0.002058043 | downregulated |
| SMIM1 | -1.165640206 | 0.032245968 | downregulated |
| TPM2 | -1.165690417 | 0.00368976 | downregulated |
| C21orf128 | -1.168398859 | 0.008798962 | downregulated |
| BTG2 | -1.168665973 | 2.18E-05 | downregulated |
| CDH11 | -1.170689218 | 0.007494941 | downregulated |
| LOC100505776 | -1.171551306 | 0.030223047 | downregulated |
| ZNF423 | -1.177360293 | 0.000625219 | downregulated |
| LOC100288911 | -1.178608273 | 2.41E-05 | downregulated |
| TSHB | -1.179942175 | 0.012856465 | downregulated |
| TMEM150C | -1.181384138 | 5.46E-07 | downregulated |
| MAP3K12 | -1.188798866 | 0.001619869 | downregulated |
| ATP13A4 | -1.192541083 | 3.00E-07 | downregulated |
| PI3 | -1.194282968 | 0.00480503 | downregulated |
| LOC100996583 | -1.195455826 | 0.000179374 | downregulated |
| CXCL10 | -1.19863125 | 0.003126306 | downregulated |
| DLL1 | -1.20672388 | 4.68E-07 | downregulated |
| RP11-355F16.1 | -1.218974964 | 0.020686512 | downregulated |
| MORN1 | -1.220009667 | 0.00418317 | downregulated |
| ZNF821 | -1.223094786 | 0.003260709 | downregulated |
| GRM5 | -1.244098293 | 0.001928697 | downregulated |
| RP1-265C24.8 | -1.244602119 | 0.00398488 | downregulated |
| MTUS2 | -1.251193543 | 0.000579781 | downregulated |
| SCNN1G | -1.255312838 | 7.97E-05 | downregulated |
| DUSP1 | -1.259709755 | 2.44E-06 | downregulated |
| C17orf50 | -1.263075476 | 0.007140819 | downregulated |
| RP11-727F15.11 | -1.277152063 | 0.007552512 | downregulated |
| CAMP | -1.278712551 | 0.001030878 | downregulated |
| CHSY3 | -1.283101467 | 0.003057024 | downregulated |
| CXCL3 | -1.289792512 | 0.000830604 | downregulated |
| PROS1 | -1.300502019 | 3.19E-05 | downregulated |
| ST7-AS1 | -1.309996586 | 0.010810117 | downregulated |
| TMEM178A | -1.310783735 | 9.59E-07 | downregulated |
| THSD7A | -1.319646857 | 2.89E-05 | downregulated |
| PCSK6 | -1.339033235 | 0.001187893 | downregulated |
| SLC29A1 | -1.346593577 | 1.81E-05 | downregulated |
| CDH12 | -1.347583007 | 0.000572821 | downregulated |
| CCL20 | -1.348356086 | 0.039038563 | downregulated |
| ANO4 | -1.356540844 | 0.002880455 | downregulated |
| CES1P1 | -1.376105834 | 0.012930579 | downregulated |
| SLAMF7 | -1.377741338 | 0.000210139 | downregulated |
| C1QTNF4 | -1.383715369 | 0.008629596 | downregulated |
| PNMA2 | -1.3884614 | 0.01596504 | downregulated |
| LOC100507560 | -1.395762507 | 0.000820355 | downregulated |
| RASD1 | -1.397416389 | 0.002791674 | downregulated |
| SERPINH1 | -1.399644579 | 0.000952659 | downregulated |
| SLC6A20 | -1.401769445 | 0.000258369 | downregulated |
| EPB41L2 | -1.426842902 | 0.000362573 | downregulated |
| SERPINB10 | -1.428491008 | 0.005564997 | downregulated |
| FOXA2 | -1.434451563 | 0.000112687 | downregulated |
| VGLL1 | -1.442973803 | 0.012440646 | downregulated |
| SLC26A4 | -1.45970308 | 0.011437732 | downregulated |
| EIF5A | -1.486416657 | 0.001620701 | downregulated |
| SIAH3 | -1.503314238 | 0.001803408 | downregulated |
| EGR1 | -1.519864375 | 0.000201911 | downregulated |
| FHOD3 | -1.521308237 | 2.38E-07 | downregulated |
| SLIT2 | -1.53494382 | 3.61E-05 | downregulated |
| MUC5B | -1.542005038 | 0.000307713 | downregulated |
| ITM2A | -1.55136549 | 1.02E-05 | downregulated |
| PLK2 | -1.551497636 | 3.51E-08 | downregulated |
| C8orf12 | -1.577454867 | 0.017924311 | downregulated |
| LOC283177 | -1.582730969 | 1.66E-06 | downregulated |
| AVPR1A | -1.586918207 | 0.0231493 | downregulated |
| RTN4RL1 | -1.614983404 | 0.000413136 | downregulated |
| SHISA9 | -1.615667182 | 0.000272143 | downregulated |
| CNN3 | -1.623237773 | 7.65E-06 | downregulated |
| WNK4 | -1.627260027 | 6.78E-07 | downregulated |
| GEM | -1.631225231 | 1.98E-07 | downregulated |
| NPAS3 | -1.635335658 | 1.06E-05 | downregulated |
| AFAP1L1 | -1.640824644 | 4.23E-05 | downregulated |
| CXCL2 | -1.645114287 | 1.42E-05 | downregulated |
| FAM71E1 | -1.681225122 | 0.000121137 | downregulated |
| ASB2 | -1.692713755 | 0.000885459 | downregulated |
| LOC100505874 | -1.740169319 | 0.001646673 | downregulated |
| LOC338667 | -1.745031771 | 0.000471499 | downregulated |
| FAM65C | -1.746734371 | 0.001047024 | downregulated |
| PSPH | -1.770681829 | 0.044640969 | downregulated |
| GMNC | -1.792096376 | 0.000773707 | downregulated |
| DUSP5 | -1.812585119 | 2.82E-05 | downregulated |
| RP11-1260E13.2 | -1.815232461 | 0.000363764 | downregulated |
| ZSCAN4 | -1.815242965 | 0.003714457 | downregulated |
| NT5E | -1.846563293 | 4.01E-10 | downregulated |
| MAOB | -1.857806559 | 1.66E-07 | downregulated |
| FOSB | -1.862874037 | 0.003530039 | downregulated |
| CDKAL1 | -1.872746589 | 0.000243483 | downregulated |
| CX3CL1 | -1.933856687 | 2.02E-09 | downregulated |
| TMEM45A | -1.956109202 | 1.72E-08 | downregulated |
| KCNA1 | -1.981028304 | 3.78E-06 | downregulated |
| PPP1R16B | -1.988427413 | 2.27E-07 | downregulated |
| LOC100130744 | -1.995725899 | 0.000422603 | downregulated |
| HSD17B2 | -2.002816148 | 0.000778951 | downregulated |
| TFPI2 | -2.172217815 | 0.000735669 | downregulated |
| C3 | -2.177021675 | 7.78E-07 | downregulated |
| SEC14L3 | -2.181603337 | 0.000188426 | downregulated |
| DUSP2 | -2.196077801 | 2.39E-06 | downregulated |
| CHP2 | -2.302886462 | 0.003562497 | downregulated |
| MT1M | -2.308662093 | 0.000166255 | downregulated |
| LTF | -2.390805068 | 2.05E-07 | downregulated |
| TACR1 | -2.487198824 | 2.01E-05 | downregulated |
| FOS | -2.571381737 | 1.98E-06 | downregulated |
| NAV3 | -2.589264366 | 3.07E-05 | downregulated |
| ITLN1 | -2.605159487 | 7.29E-05 | downregulated |

**Table S2 Differentially expressed genes of GSE11784**

|  |  |  |  |
| --- | --- | --- | --- |
| GSE11784 |log2(FC)| >1 and p-value <0.05 | | | |
| Gene.Symbol | logFC | P.Value | Up/Down |
| CYP1B1 | 6.258863973 | 2.25E-28 | Upregulated |
| CYP1A1 | 6.039008791 | 2.67E-25 | Upregulated |
| AKR1B10 | 5.224404388 | 1.96E-27 | Upregulated |
| UCHL1 | 4.463446033 | 1.66E-18 | Upregulated |
| GAD1 | 3.740144223 | 4.60E-13 | Upregulated |
| CEACAM5 | 3.627166107 | 2.70E-14 | Upregulated |
| SPP1 | 3.314839679 | 8.01E-15 | Upregulated |
| MUCL1 | 3.188709057 | 5.34E-24 | Upregulated |
| GPX2 | 3.115874683 | 1.72E-30 | Upregulated |
| LOC284825 | 3.063218767 | 2.09E-21 | Upregulated |
| SPRR3 | 3.05406335 | 4.96E-11 | Upregulated |
| TPRXL | 3.041548819 | 3.28E-15 | Upregulated |
| CCL2 | 3.039581844 | 1.24E-10 | Upregulated |
| SLC7A11 | 2.976021572 | 1.31E-18 | Upregulated |
| CXCL14 | 2.934988297 | 9.35E-10 | Upregulated |
| ALDH3A1 | 2.903472896 | 3.01E-21 | Upregulated |
| CABYR | 2.898092126 | 3.00E-24 | Upregulated |
| SFRP2 | 2.817764428 | 5.01E-13 | Upregulated |
| ST3GAL4-AS1 | 2.739080876 | 5.33E-13 | Upregulated |
| ADH7 | 2.734976381 | 5.43E-21 | Upregulated |
| HOTS | 2.708435503 | 1.81E-09 | Upregulated |
| TCN1 | 2.675660456 | 3.06E-13 | Upregulated |
| CLEC5A | 2.652938961 | 3.14E-08 | Upregulated |
| B3GNT6 | 2.59758562 | 3.14E-09 | Upregulated |
| JAKMIP3 | 2.563922053 | 7.99E-10 | Upregulated |
| MUC12 | 2.563099356 | 8.05E-10 | Upregulated |
| DTNA | 2.439212673 | 1.04E-15 | Upregulated |
| KRT6A | 2.338789205 | 5.70E-08 | Upregulated |
| MEP1A | 2.328270908 | 1.83E-11 | Upregulated |
| AHRR | 2.27935172 | 6.12E-14 | Upregulated |
| BPIFB2 | 2.270730016 | 1.12E-07 | Upregulated |
| HS3ST3A1 | 2.252432423 | 4.11E-07 | Upregulated |
| SRPX2 | 2.243501533 | 5.14E-14 | Upregulated |
| KRT13 | 2.225577805 | 2.15E-07 | Upregulated |
| ELFN2 | 2.196594972 | 7.12E-15 | Upregulated |
| LOC344887 | 2.194251862 | 2.95E-10 | Upregulated |
| LOC102724094 | 2.193963059 | 1.97E-08 | Upregulated |
| ME1 | 2.164802104 | 1.68E-27 | Upregulated |
| SCG3 | 2.156079571 | 8.34E-06 | Upregulated |
| PHEX | 2.152363813 | 7.77E-21 | Upregulated |
| CBR1 | 2.117245153 | 2.42E-16 | Upregulated |
| STATH | 2.10783411 | 2.55E-07 | Upregulated |
| NR4A3 | 2.09465315 | 2.01E-08 | Upregulated |
| SPRR1B | 2.078256018 | 3.40E-07 | Upregulated |
| DUOXA2 | 2.067669656 | 1.26E-07 | Upregulated |
| CYP4F11 | 2.064914199 | 8.59E-09 | Upregulated |
| PTPRH | 2.061967214 | 1.67E-08 | Upregulated |
| EGF | 2.060668419 | 6.52E-12 | Upregulated |
| DUOX2 | 2.055262898 | 2.33E-09 | Upregulated |
| MUC5AC | 2.047886418 | 2.85E-10 | Upregulated |
| SCEL | 1.964747599 | 6.56E-06 | Upregulated |
| IL1R2 | 1.962117402 | 3.15E-06 | Upregulated |
| HOXA1 | 1.949887233 | 1.76E-06 | Upregulated |
| TFF1 | 1.914356245 | 8.44E-11 | Upregulated |
| NR0B1 | 1.908465925 | 6.83E-06 | Upregulated |
| LRRC31 | 1.88988883 | 9.17E-08 | Upregulated |
| AKR1C3 | 1.873263055 | 4.64E-24 | Upregulated |
| CNGB1 | 1.872945101 | 1.01E-08 | Upregulated |
| CYP4F2 | 1.838373274 | 6.98E-08 | Upregulated |
| RP11-619L19.1 | 1.83285727 | 3.52E-07 | Upregulated |
| BMP4 | 1.819014206 | 4.78E-05 | Upregulated |
| 4-Mar | 1.818402981 | 3.61E-08 | Upregulated |
| MMP12 | 1.799992703 | 7.18E-09 | Upregulated |
| RP11-203B7.1 | 1.795618898 | 1.07E-05 | Upregulated |
| ENAM | 1.746515642 | 5.18E-09 | Upregulated |
| TMEM117 | 1.730726677 | 7.17E-06 | Upregulated |
| CYP4F3 | 1.727842504 | 2.27E-12 | Upregulated |
| TREM2 | 1.712398681 | 1.43E-05 | Upregulated |
| CLDN10 | 1.708931287 | 2.10E-21 | Upregulated |
| CGREF1 | 1.706386827 | 1.88E-06 | Upregulated |
| WFDC1 | 1.704094902 | 2.83E-08 | Upregulated |
| NQO1 | 1.659046011 | 9.54E-21 | Upregulated |
| CTCFL | 1.641451085 | 4.66E-05 | Upregulated |
| FCGR2B | 1.63600421 | 1.01E-07 | Upregulated |
| DEFB1 | 1.634338514 | 5.15E-13 | Upregulated |
| UPK1B | 1.608333204 | 1.08E-08 | Upregulated |
| RP11-524D16\_\_A.3 | 1.603022783 | 4.85E-06 | Upregulated |
| PIR | 1.601553286 | 5.76E-22 | Upregulated |
| OSM | 1.576588008 | 4.28E-06 | Upregulated |
| PHLDA1 | 1.542877068 | 3.48E-15 | Upregulated |
| CBR3 | 1.535388079 | 7.15E-15 | Upregulated |
| BPIFA2 | 1.530714163 | 2.70E-05 | Upregulated |
| ITGA5 | 1.522402758 | 0.000230255 | Upregulated |
| AKR1C1 | 1.50975457 | 2.94E-19 | Upregulated |
| C22orf42 | 1.497417479 | 4.40E-05 | Upregulated |
| COL8A1 | 1.495526683 | 0.000243435 | Upregulated |
| BPIFA1 | 1.493180307 | 0.015828887 | Upregulated |
| ADM | 1.488786901 | 1.87E-07 | Upregulated |
| NOS3 | 1.487226143 | 0.000537233 | Upregulated |
| KDM5D | 1.487119351 | 0.033134582 | Upregulated |
| LY6D | 1.481544724 | 0.001644374 | Upregulated |
| SRXN1 | 1.481362073 | 9.46E-22 | Upregulated |
| G6PD | 1.472926401 | 1.61E-12 | Upregulated |
| CYP26A1 | 1.472787063 | 7.26E-05 | Upregulated |
| mir-223 | 1.468136668 | 0.000220307 | Upregulated |
| TRIM7 | 1.467877439 | 6.81E-08 | Upregulated |
| IL19 | 1.465475796 | 1.57E-06 | Upregulated |
| DNAJC12 | 1.444335223 | 2.05E-08 | Upregulated |
| SIX3 | 1.432359167 | 1.01E-05 | Upregulated |
| PANX3 | 1.426289815 | 0.000514744 | Upregulated |
| CALCA | 1.413697698 | 5.29E-07 | Upregulated |
| RP13-238F13.5 | 1.411888445 | 0.000480045 | Upregulated |
| SPHK1 | 1.410033333 | 1.58E-05 | Upregulated |
| KRT40 | 1.403953637 | 9.41E-05 | Upregulated |
| CDH2 | 1.402634001 | 0.000115333 | Upregulated |
| CLIP4 | 1.396233426 | 1.46E-15 | Upregulated |
| LOC101927869 | 1.38275791 | 0.003921838 | Upregulated |
| CCL7 | 1.382100091 | 0.000413291 | Upregulated |
| PLA2G7 | 1.373235423 | 3.64E-05 | Upregulated |
| ASCL3 | 1.371793383 | 3.21E-06 | Upregulated |
| EPHA7 | 1.368990758 | 3.20E-05 | Upregulated |
| REG3G | 1.364601831 | 6.84E-05 | Upregulated |
| CPA3 | 1.35144374 | 0.004406378 | Upregulated |
| MFSD2A | 1.350873256 | 4.45E-09 | Upregulated |
| OSGIN1 | 1.346605722 | 9.24E-06 | Upregulated |
| CCRL2 | 1.339648666 | 0.000123248 | Upregulated |
| TIFAB | 1.337289132 | 0.000125024 | Upregulated |
| HTR2B | 1.330258123 | 0.001087893 | Upregulated |
| IL1RN | 1.324883343 | 4.22E-05 | Upregulated |
| FAM3B | 1.320879635 | 4.85E-15 | Upregulated |
| KIAA1211 | 1.317089613 | 1.17E-05 | Upregulated |
| SIGLEC11 | 1.315745181 | 0.000112809 | Upregulated |
| TXNRD1 | 1.311822558 | 4.43E-22 | Upregulated |
| S100A10 | 1.310733805 | 1.63E-11 | Upregulated |
| SIX3-AS1 | 1.303982585 | 0.000191891 | Upregulated |
| TIMP4 | 1.303037138 | 1.89E-05 | Upregulated |
| LINC00862 | 1.299130531 | 0.00224536 | Upregulated |
| ACP5 | 1.298051721 | 0.000257066 | Upregulated |
| CDC42EP5 | 1.28983359 | 2.15E-09 | Upregulated |
| TMPRSS11E | 1.289405247 | 0.00042305 | Upregulated |
| SAMD5 | 1.289114477 | 0.000301132 | Upregulated |
| PRSS50 | 1.284410327 | 0.001145888 | Upregulated |
| LRRD1 | 1.278787467 | 0.003050961 | Upregulated |
| FOXI1 | 1.2777818 | 0.000113501 | Upregulated |
| BCL2A1 | 1.274436081 | 4.74E-05 | Upregulated |
| ATP6V0A4 | 1.271678096 | 2.80E-13 | Upregulated |
| TFF3 | 1.271415335 | 1.10E-07 | Upregulated |
| HRK | 1.267203533 | 6.91E-08 | Upregulated |
| CEMIP | 1.264865454 | 0.000249721 | Upregulated |
| LHX6 | 1.264302039 | 4.45E-09 | Upregulated |
| AGPAT9 | 1.26405661 | 6.82E-09 | Upregulated |
| BAALC | 1.25010621 | 6.80E-06 | Upregulated |
| CEL | 1.249416881 | 6.25E-05 | Upregulated |
| GFRA3 | 1.249079647 | 2.61E-05 | Upregulated |
| SDSL | 1.248707837 | 0.000719491 | Upregulated |
| FGFBP1 | 1.247059148 | 2.52E-10 | Upregulated |
| DPYSL3 | 1.244427274 | 7.14E-09 | Upregulated |
| PROK2 | 1.241924957 | 0.007476684 | Upregulated |
| LOXHD1 | 1.238592011 | 3.40E-05 | Upregulated |
| PLAT | 1.238326219 | 3.67E-06 | Upregulated |
| PCDHB13 | 1.230791977 | 0.000406818 | Upregulated |
| LOC100996756 | 1.225403454 | 0.001715605 | Upregulated |
| CRLF2 | 1.223877109 | 0.000721164 | Upregulated |
| RP11-96H17.1 | 1.220661143 | 0.002656405 | Upregulated |
| ABCB6 | 1.220282506 | 1.14E-13 | Upregulated |
| LINC00403 | 1.21432542 | 0.001995057 | Upregulated |
| AKR1B1 | 1.210656115 | 4.78E-17 | Upregulated |
| ITGAX | 1.2090867 | 0.001998228 | Upregulated |
| PYCR1 | 1.206424661 | 1.65E-07 | Upregulated |
| FCN1 | 1.205765937 | 0.002623204 | Upregulated |
| AX746830 | 1.203872158 | 2.77E-06 | Upregulated |
| MCEMP1 | 1.203595576 | 0.004806608 | Upregulated |
| LOC101927494 | 1.202282055 | 0.001120432 | Upregulated |
| OSTM1-AS1 | 1.202241819 | 0.000859387 | Upregulated |
| C2orf70 | 1.197218114 | 1.17E-16 | Upregulated |
| TAS2R1 | 1.194991883 | 0.000518888 | Upregulated |
| ASRGL1 | 1.19279788 | 4.39E-05 | Upregulated |
| HGD | 1.18939006 | 4.31E-12 | Upregulated |
| S1PR4 | 1.188522499 | 0.000102121 | Upregulated |
| ST8SIA5 | 1.186441947 | 0.000132081 | Upregulated |
| TMCC3 | 1.183872695 | 0.000123668 | Upregulated |
| ATXN8OS | 1.181364352 | 0.00087608 | Upregulated |
| ENG | 1.177653809 | 0.001224425 | Upregulated |
| DKK2 | 1.176673168 | 0.001339494 | Upregulated |
| MRC1 | 1.171025626 | 0.00073261 | Upregulated |
| TIMP1 | 1.1674223 | 1.07E-10 | Upregulated |
| PTGS2 | 1.164199258 | 4.64E-05 | Upregulated |
| PSG7 | 1.162408569 | 0.000564375 | Upregulated |
| LINC00942 | 1.161747518 | 0.000181611 | Upregulated |
| GAFA3 | 1.160037371 | 0.009619432 | Upregulated |
| RNASE6 | 1.156601401 | 0.000161442 | Upregulated |
| LOC101929591 | 1.155860141 | 0.001766364 | Upregulated |
| CREB3L1 | 1.155519812 | 1.96E-08 | Upregulated |
| CSTA | 1.153928872 | 5.49E-10 | Upregulated |
| DUSP5P1 | 1.15049216 | 0.002049183 | Upregulated |
| SERPINB13 | 1.149254686 | 2.32E-09 | Upregulated |
| NLRP3 | 1.148219997 | 0.004674693 | Upregulated |
| BVES-AS1 | 1.147673772 | 0.006552429 | Upregulated |
| SPIN2A | 1.145755196 | 0.000220152 | Upregulated |
| HTATIP2 | 1.145391201 | 6.24E-15 | Upregulated |
| LINC01082 | 1.14512073 | 0.001626058 | Upregulated |
| GRIK2 | 1.143716797 | 1.89E-05 | Upregulated |
| DNASE2B | 1.141643122 | 0.004818931 | Upregulated |
| GPT2 | 1.138830487 | 1.49E-09 | Upregulated |
| S100P | 1.138268651 | 8.57E-09 | Upregulated |
| RASAL1 | 1.132895077 | 6.82E-06 | Upregulated |
| CLMP | 1.129231413 | 0.000399414 | Upregulated |
| ZNF467 | 1.128823339 | 9.65E-09 | Upregulated |
| MMP19 | 1.126793344 | 0.004880732 | Upregulated |
| C1QTNF9B-AS1 | 1.124411533 | 1.29E-05 | Upregulated |
| FOXD3-AS1 | 1.124275599 | 0.00312051 | Upregulated |
| TKT | 1.123213609 | 4.68E-12 | Upregulated |
| CXCL8 | 1.114855972 | 4.23E-06 | Upregulated |
| RNFT2 | 1.113152646 | 1.38E-12 | Upregulated |
| WDR72 | 1.109757483 | 0.000197095 | Upregulated |
| C3orf43 | 1.106670787 | 0.004685431 | Upregulated |
| ABHD2 | 1.104263883 | 5.75E-13 | Upregulated |
| PP14571 | 1.103057389 | 1.48E-06 | Upregulated |
| SERPINB5 | 1.102705323 | 3.23E-06 | Upregulated |
| SPINK5 | 1.100423495 | 3.84E-07 | Upregulated |
| LOC101927363 | 1.099209067 | 0.002159412 | Upregulated |
| GALNT6 | 1.097018771 | 1.43E-07 | Upregulated |
| NAV1 | 1.095344613 | 6.99E-12 | Upregulated |
| IL10RB-AS1 | 1.095323492 | 0.00547274 | Upregulated |
| LOC102723721 | 1.094690338 | 0.000143655 | Upregulated |
| CPNE4 | 1.090874465 | 0.002820675 | Upregulated |
| KDELR3 | 1.090343444 | 1.37E-09 | Upregulated |
| CHAD | 1.089861403 | 0.000160113 | Upregulated |
| PLG | 1.087843412 | 0.01709925 | Upregulated |
| PMAIP1 | 1.08617042 | 8.41E-07 | Upregulated |
| AZGP1 | 1.084186991 | 3.95E-06 | Upregulated |
| RP1-28O17.1 | 1.082715371 | 0.002566064 | Upregulated |
| SMPX | 1.081930391 | 0.001826571 | Upregulated |
| FAM20C | 1.080762052 | 0.000391293 | Upregulated |
| LOC728690 | 1.080139481 | 0.00370317 | Upregulated |
| ADRB3 | 1.079962575 | 0.000400381 | Upregulated |
| MTHFD2 | 1.078986476 | 1.11E-09 | Upregulated |
| POU4F3 | 1.078922545 | 0.002513236 | Upregulated |
| FES | 1.077309988 | 0.007142862 | Upregulated |
| TMEM45B | 1.077193179 | 3.89E-15 | Upregulated |
| CYSRT1 | 1.074666215 | 1.24E-06 | Upregulated |
| MIR7-3HG | 1.072881366 | 0.002468656 | Upregulated |
| DHX35 | 1.071822073 | 6.41E-06 | Upregulated |
| CHST1 | 1.071129815 | 0.000183368 | Upregulated |
| GCNT3 | 1.070074609 | 1.69E-07 | Upregulated |
| SLC51A | 1.068955338 | 2.34E-11 | Upregulated |
| MZB1 | 1.066393148 | 0.001409044 | Upregulated |
| RP11-400N13.1 | 1.065597553 | 0.00041448 | Upregulated |
| OR8D2 | 1.065144727 | 0.001226881 | Upregulated |
| RGS20 | 1.064747079 | 0.004470701 | Upregulated |
| CD86 | 1.06341502 | 7.41E-05 | Upregulated |
| LHFPL5 | 1.062129553 | 0.003447042 | Upregulated |
| AQP10 | 1.060678997 | 0.003100204 | Upregulated |
| MDFI | 1.060108931 | 0.001238778 | Upregulated |
| LINC00643 | 1.059667517 | 7.45E-11 | Upregulated |
| TIMP3 | 1.059253443 | 0.000546284 | Upregulated |
| RAB9BP1 | 1.056895437 | 0.008691318 | Upregulated |
| MSX1 | 1.054012236 | 0.005618431 | Upregulated |
| CD163L1 | 1.05243683 | 0.00016535 | Upregulated |
| GNGT1 | 1.051405624 | 0.0064512 | Upregulated |
| TALDO1 | 1.050841987 | 3.17E-19 | Upregulated |
| SOSTDC1 | 1.049872439 | 0.015533166 | Upregulated |
| SPDEF | 1.048418888 | 1.28E-07 | Upregulated |
| CD109 | 1.048274798 | 7.55E-09 | Upregulated |
| SMOC1 | 1.04826038 | 0.00266316 | Upregulated |
| SFN | 1.048240616 | 1.29E-10 | Upregulated |
| LHX1 | 1.047859619 | 0.002011 | Upregulated |
| FUT3 | 1.046873749 | 9.56E-09 | Upregulated |
| BTBD11 | 1.046741064 | 5.07E-05 | Upregulated |
| EPHB1 | 1.046381947 | 0.001535164 | Upregulated |
| CPE | 1.045652765 | 7.79E-05 | Upregulated |
| AGAP2-AS1 | 1.044582735 | 0.003889068 | Upregulated |
| TCRBV15S1 | 1.044031424 | 0.005213926 | Upregulated |
| GJB6 | 1.043837668 | 0.000985517 | Upregulated |
| CST6 | 1.043210636 | 6.51E-09 | Upregulated |
| ATP8B5P | 1.043077878 | 0.002729509 | Upregulated |
| FAM83C | 1.042463776 | 0.002799819 | Upregulated |
| LRRC16B | 1.041595969 | 0.009309611 | Upregulated |
| RP11-118G23.2 | 1.036923094 | 0.004014234 | Upregulated |
| AC007680.2 | 1.036133794 | 0.003635932 | Upregulated |
| FKBP11 | 1.034936255 | 5.60E-13 | Upregulated |
| NPR1 | 1.034816454 | 0.000118662 | Upregulated |
| CACNA2D3 | 1.034341563 | 0.000102327 | Upregulated |
| FAM71A | 1.033739975 | 0.003671244 | Upregulated |
| SLC7A5 | 1.033713322 | 0.000696992 | Upregulated |
| PTPRG-AS1 | 1.033556839 | 0.008881142 | Upregulated |
| HK3 | 1.03216313 | 0.005945121 | Upregulated |
| RP11-116O18.1 | 1.031498283 | 0.021366453 | Upregulated |
| SLC2A3 | 1.031043721 | 0.000419792 | Upregulated |
| HN1 | 1.029436041 | 2.79E-14 | Upregulated |
| TEPP | 1.027978511 | 0.0003171 | Upregulated |
| ZNF876P | 1.02740601 | 0.019823701 | Upregulated |
| LOC101928554 | 1.026509437 | 0.00775207 | Upregulated |
| IQCF2 | 1.025316459 | 0.003929849 | Upregulated |
| LOC101927690 | 1.023399939 | 0.011883527 | Upregulated |
| IGSF6 | 1.021911897 | 7.45E-06 | Upregulated |
| ST8SIA1 | 1.021789685 | 1.50E-09 | Upregulated |
| TMEM178B | 1.021695035 | 4.22E-05 | Upregulated |
| LOC101928135 | 1.021353727 | 0.010656278 | Upregulated |
| LOC285423 | 1.021288132 | 0.004881196 | Upregulated |
| MLKL | 1.020735665 | 1.02E-07 | Upregulated |
| PRRX2 | 1.018085938 | 0.000266576 | Upregulated |
| FCGR2C | 1.017341342 | 0.002799603 | Upregulated |
| LOC100130815 | 1.01704703 | 0.004350218 | Upregulated |
| AMELY | 1.016665645 | 0.006647635 | Upregulated |
| CABS1 | 1.015790385 | 0.000439442 | Upregulated |
| SHROOM1 | 1.015761138 | 1.90E-07 | Upregulated |
| LYPD3 | 1.015501342 | 0.001006561 | Upregulated |
| CTHRC1 | 1.014679786 | 0.001131241 | Upregulated |
| LRRTM1 | 1.013649378 | 0.011638531 | Upregulated |
| TNFSF8 | 1.013277903 | 0.002201802 | Upregulated |
| CELP | 1.011431668 | 0.02014826 | Upregulated |
| ZNF385D | 1.011227861 | 0.002670763 | Upregulated |
| TRIM16 | 1.011173321 | 2.69E-10 | Upregulated |
| LILRB1 | 1.011166135 | 0.010172833 | Upregulated |
| TUBB2B | 1.010970258 | 0.006127235 | Upregulated |
| ABO | 1.009912383 | 0.005507114 | Upregulated |
| SMIM17 | 1.00903244 | 0.007657872 | Upregulated |
| SLC1A2 | 1.007981606 | 0.002919127 | Upregulated |
| LOC101929154 | 1.007789295 | 0.002149139 | Upregulated |
| DIO1 | 1.007515434 | 1.91E-09 | Upregulated |
| EPO | 1.006789558 | 0.001172203 | Upregulated |
| TXNDC2 | 1.006359714 | 0.007949163 | Upregulated |
| IZUMO1 | 1.005341055 | 0.002199047 | Upregulated |
| MSRB1 | 1.003474144 | 9.55E-12 | Upregulated |
| UGT1A6 | 1.003099189 | 4.47E-07 | Upregulated |
| C4orf17 | 1.00025984 | 0.001934231 | Upregulated |
| NXPH1 | -1.000100698 | 0.012491519 | Downregulated |
| PTCHD1 | -1.000168702 | 0.002296136 | Downregulated |
| GCM2 | -1.001623092 | 0.013031085 | Downregulated |
| MAS1 | -1.006365463 | 0.007308568 | Downregulated |
| GSTT2 | -1.006718998 | 0.019145872 | Downregulated |
| IL33 | -1.009860141 | 4.84E-06 | Downregulated |
| SERPINA3 | -1.010448608 | 0.02226849 | Downregulated |
| CDKAL1 | -1.013033851 | 0.012549236 | Downregulated |
| TSIX | -1.013484535 | 0.036160716 | Downregulated |
| LOC554207 | -1.013953623 | 0.011819844 | Downregulated |
| DPY19L2P3 | -1.016166737 | 0.002464301 | Downregulated |
| SMIM1 | -1.02018549 | 0.01136456 | Downregulated |
| ZNF821 | -1.020504571 | 0.001380924 | Downregulated |
| POTEM | -1.022596421 | 0.000109694 | Downregulated |
| LOC101928211 | -1.02882503 | 0.020415392 | Downregulated |
| SERPINB10 | -1.029401387 | 0.007902611 | Downregulated |
| D2HGDH | -1.029566852 | 1.33E-07 | Downregulated |
| SACS-AS1 | -1.029574471 | 0.006287891 | Downregulated |
| GLYAT | -1.030185718 | 0.000646605 | Downregulated |
| SLC6A13 | -1.030778122 | 1.14E-06 | Downregulated |
| SOX9 | -1.030918278 | 1.69E-08 | Downregulated |
| OR10J1 | -1.030960692 | 0.000658188 | Downregulated |
| ATF6B | -1.031415607 | 2.50E-05 | Downregulated |
| RPL13AP17 | -1.034020791 | 1.55E-05 | Downregulated |
| ICOSLG | -1.034743912 | 4.60E-05 | Downregulated |
| CNN3 | -1.03591428 | 5.68E-07 | Downregulated |
| LOC100294362 | -1.038919188 | 3.04E-06 | Downregulated |
| LOC101929552 | -1.0389934 | 0.000242649 | Downregulated |
| CT55 | -1.039089965 | 0.001330955 | Downregulated |
| WFDC6 | -1.03970998 | 1.89E-09 | Downregulated |
| RP11-1217F2.1 | -1.040542396 | 0.006873145 | Downregulated |
| DNM3OS | -1.052836423 | 0.00978843 | Downregulated |
| ZBTB16 | -1.055288641 | 3.03E-07 | Downregulated |
| SGCE | -1.055814358 | 7.12E-09 | Downregulated |
| RP11-157B13.7 | -1.056556798 | 0.000767685 | Downregulated |
| LINC00277 | -1.061676016 | 0.001699369 | Downregulated |
| GPR137C | -1.06182995 | 0.000326115 | Downregulated |
| LOC100506538 | -1.061956149 | 0.000429362 | Downregulated |
| ITIH5 | -1.06263482 | 0.002623836 | Downregulated |
| TMEM178A | -1.070199479 | 3.08E-11 | Downregulated |
| BC113958 | -1.0709196 | 0.002348668 | Downregulated |
| ATP13A4-AS1 | -1.071483787 | 0.000429816 | Downregulated |
| PF4 | -1.079655756 | 0.001493743 | Downregulated |
| SLITRK6 | -1.082055576 | 3.12E-13 | Downregulated |
| KCNJ2-AS1 | -1.083003024 | 3.46E-07 | Downregulated |
| LOC100506699 | -1.087348347 | 3.04E-05 | Downregulated |
| BTBD19 | -1.088967468 | 5.55E-05 | Downregulated |
| TIMD4 | -1.089314427 | 0.007655456 | Downregulated |
| SLC4A1 | -1.090326957 | 0.003499881 | Downregulated |
| XXYLT1 | -1.091898094 | 0.002207659 | Downregulated |
| CCDC7 | -1.09831554 | 0.000312543 | Downregulated |
| MATN3 | -1.103695182 | 0.019868987 | Downregulated |
| TMOD2 | -1.103735795 | 1.56E-08 | Downregulated |
| LCAT | -1.103791515 | 0.001597886 | Downregulated |
| PPBP | -1.104735617 | 0.043694004 | Downregulated |
| MUC5B | -1.114368041 | 2.67E-05 | Downregulated |
| RP3-412A9.16 | -1.121827828 | 0.000360075 | Downregulated |
| RP13-20L14.1 | -1.122413882 | 0.001440342 | Downregulated |
| SLC6A1 | -1.130287257 | 0.001137881 | Downregulated |
| LOC100505920 | -1.13527781 | 0.001188363 | Downregulated |
| CRISP3 | -1.136717502 | 0.040636958 | Downregulated |
| LOC100506834 | -1.142258541 | 0.000400756 | Downregulated |
| PRKAG2-AS1 | -1.143247395 | 0.00026439 | Downregulated |
| CCL20 | -1.150318802 | 0.016338574 | Downregulated |
| ATP6V1B1 | -1.15328683 | 9.50E-08 | Downregulated |
| PAX1 | -1.155888954 | 9.56E-08 | Downregulated |
| LOC100130744 | -1.15841128 | 0.003040019 | Downregulated |
| SLC26A4 | -1.159173016 | 0.003908333 | Downregulated |
| PWAR5 | -1.165397271 | 0.000329783 | Downregulated |
| CYP4F30P | -1.16786955 | 0.000384825 | Downregulated |
| PRKAR2B | -1.168863527 | 1.39E-15 | Downregulated |
| PEG10 | -1.173160666 | 4.57E-09 | Downregulated |
| ST3GAL6 | -1.176703979 | 7.41E-10 | Downregulated |
| LAG3 | -1.180269169 | 0.000137441 | Downregulated |
| ERP27 | -1.185417736 | 2.62E-06 | Downregulated |
| PANK1 | -1.187196477 | 6.14E-15 | Downregulated |
| PLK2 | -1.192707157 | 3.34E-12 | Downregulated |
| EMR1 | -1.193127908 | 0.000973419 | Downregulated |
| ADAMTS15 | -1.194755694 | 8.65E-13 | Downregulated |
| VEPH1 | -1.196957594 | 3.47E-09 | Downregulated |
| FOXA2 | -1.197029596 | 7.73E-07 | Downregulated |
| ZNF549 | -1.198111818 | 0.001447313 | Downregulated |
| FHOD3 | -1.199992647 | 4.22E-09 | Downregulated |
| CLDN8 | -1.202012224 | 3.41E-11 | Downregulated |
| ARHGAP28 | -1.220833753 | 0.000905516 | Downregulated |
| KLHDC8A | -1.22115521 | 0.000117343 | Downregulated |
| CTB-167B5.2 | -1.221956568 | 1.08E-09 | Downregulated |
| KCNC4 | -1.226342636 | 2.19E-07 | Downregulated |
| CYP4X1 | -1.229449238 | 1.23E-14 | Downregulated |
| MYH7B | -1.234186384 | 0.000476354 | Downregulated |
| MMP7 | -1.24189485 | 5.08E-05 | Downregulated |
| GRM5 | -1.243545209 | 1.15E-08 | Downregulated |
| ITGB2-AS1 | -1.245996683 | 1.86E-06 | Downregulated |
| ZSCAN4 | -1.247327092 | 0.001518112 | Downregulated |
| PDLIM3 | -1.248300704 | 0.000416249 | Downregulated |
| PCSK6 | -1.248679 | 6.52E-07 | Downregulated |
| LSAMP | -1.257134589 | 0.000186084 | Downregulated |
| TMEFF2 | -1.258696398 | 0.003784717 | Downregulated |
| PLEKHG4B | -1.259006436 | 6.71E-09 | Downregulated |
| C1QTNF4 | -1.261230509 | 0.000363775 | Downregulated |
| CX3CL1 | -1.28044107 | 1.31E-09 | Downregulated |
| TPM2 | -1.280814263 | 9.56E-08 | Downregulated |
| RTN4RL1 | -1.296989124 | 1.73E-07 | Downregulated |
| C8orf12 | -1.307228107 | 1.54E-05 | Downregulated |
| EVC | -1.309454283 | 7.21E-09 | Downregulated |
| NCKAP5 | -1.317797565 | 0.006382928 | Downregulated |
| SLIT2-IT1 | -1.319472628 | 0.000292484 | Downregulated |
| LOC338667 | -1.323619143 | 4.27E-05 | Downregulated |
| AFAP1L1 | -1.333098513 | 6.55E-11 | Downregulated |
| INMT | -1.360071085 | 0.000474645 | Downregulated |
| MAOB | -1.38510526 | 1.82E-13 | Downregulated |
| PCDH17 | -1.388373099 | 8.81E-11 | Downregulated |
| LOC283177 | -1.3946848 | 6.21E-11 | Downregulated |
| TFPI2 | -1.404590914 | 0.000295574 | Downregulated |
| SLC29A1 | -1.410239956 | 5.10E-10 | Downregulated |
| LIPF | -1.418919032 | 2.80E-06 | Downregulated |
| LOC100505874 | -1.437802648 | 0.000458478 | Downregulated |
| SLC44A5 | -1.446676066 | 0.000242625 | Downregulated |
| WIF1 | -1.460083193 | 9.64E-06 | Downregulated |
| CSGALNACT1 | -1.474317693 | 9.31E-08 | Downregulated |
| PIEZO2 | -1.475239056 | 3.11E-10 | Downregulated |
| NT5E | -1.48078525 | 8.18E-18 | Downregulated |
| PROS1 | -1.502900128 | 6.85E-16 | Downregulated |
| RP11-305O6.3 | -1.516206895 | 4.48E-06 | Downregulated |
| CES1P1 | -1.527717304 | 0.000917867 | Downregulated |
| TRIM58 | -1.555494456 | 0.006970184 | Downregulated |
| PPP1R16B | -1.557674528 | 5.04E-14 | Downregulated |
| MGP | -1.581191758 | 1.06E-07 | Downregulated |
| SFTPB | -1.602680281 | 0.001687441 | Downregulated |
| LOC100507560 | -1.614024144 | 7.00E-07 | Downregulated |
| MT1M | -1.614190269 | 2.15E-05 | Downregulated |
| AVPR1A | -1.634331023 | 0.000458946 | Downregulated |
| KCNA1 | -1.659213903 | 2.03E-10 | Downregulated |
| HBM | -1.683815287 | 0.00636298 | Downregulated |
| PYGO1 | -1.705126894 | 2.55E-06 | Downregulated |
| ITM2A | -1.706564939 | 7.75E-12 | Downregulated |
| FAM65C | -1.719672539 | 6.95E-10 | Downregulated |
| NPAS3 | -1.729338311 | 3.19E-19 | Downregulated |
| ANO4 | -1.740449336 | 1.84E-08 | Downregulated |
| LRP2 | -1.781275498 | 1.24E-07 | Downregulated |
| HSD17B2 | -1.782223994 | 2.40E-05 | Downregulated |
| APELA | -1.797316383 | 0.000240501 | Downregulated |
| XIST | -1.810219895 | 0.044992387 | Downregulated |
| THSD7A | -1.844129144 | 1.67E-17 | Downregulated |
| WNK4 | -1.84721312 | 6.18E-13 | Downregulated |
| PNMA2 | -1.864644756 | 1.65E-05 | Downregulated |
| SLIT2 | -1.917219393 | 1.50E-17 | Downregulated |
| SHISA9 | -1.918015745 | 8.48E-10 | Downregulated |
| VGLL3 | -1.945285672 | 3.98E-09 | Downregulated |
| TMEM45A | -1.967216485 | 1.88E-14 | Downregulated |
| TACR1 | -2.052507097 | 7.25E-07 | Downregulated |
| C3 | -2.058687906 | 2.32E-14 | Downregulated |
| RP11-355F16.1 | -2.294027415 | 1.02E-10 | Downregulated |
| SEC14L3 | -2.362006485 | 1.06E-12 | Downregulated |
| ITLN1 | -2.461797937 | 3.44E-07 | Downregulated |
| NAV3 | -2.678700904 | 2.18E-13 | Downregulated |
| SCGB3A2 | -2.709410637 | 0.001667094 | Downregulated |
| LTF | -3.028371939 | 1.52E-16 | Downregulated |

**Table S3** Differentially expressed genes of GSE20257

|  |  |  |  |
| --- | --- | --- | --- |
| GSE20257 |log2(FC)| >1 and p-value <0.05 | | | |
| Gene.Symbol | logFC | P.Value | Up/Down |
| CYP1B1 | 6.100282864 | 1.50E-27 | Upregulated |
| CYP1A1 | 5.779083497 | 1.48E-20 | Upregulated |
| AKR1B10 | 4.929228039 | 1.83E-21 | Upregulated |
| UCHL1 | 4.528099595 | 3.97E-18 | Upregulated |
| GAD1 | 3.932681714 | 4.92E-15 | Upregulated |
| CEACAM5 | 3.762853371 | 1.75E-15 | Upregulated |
| SPRR3 | 3.206183158 | 1.05E-11 | Upregulated |
| TPRXL | 3.183625286 | 1.66E-16 | Upregulated |
| MUCL1 | 3.110819447 | 3.20E-22 | Upregulated |
| SPP1 | 3.083738852 | 3.85E-14 | Upregulated |
| GPX2 | 2.992164865 | 1.09E-26 | Upregulated |
| LTF | 2.930641924 | 6.94E-17 | Upregulated |
| SLC7A11 | 2.884770926 | 3.33E-09 | Upregulated |
| SCGB3A2 | 2.84894277 | 2.01E-21 | Upregulated |
| CXCL14 | 2.830634291 | 6.79E-20 | Upregulated |
| LOC284825 | 2.8247704 | 2.60E-11 | Upregulated |
| ALDH3A1 | 2.813385635 | 1.66E-08 | Upregulated |
| B3GNT6 | 2.772762886 | 1.31E-08 | Upregulated |
| CLEC5A | 2.726140949 | 4.23E-20 | Upregulated |
| CCL2 | 2.719838865 | 1.79E-09 | Upregulated |
| CABYR | 2.712652071 | 6.84E-10 | Upregulated |
| HOTS | 2.615698665 | 7.83E-13 | Upregulated |
| MUC12 | 2.601028137 | 2.96E-21 | Upregulated |
| NAV3 | 2.53923021 | 5.89E-11 | Upregulated |
| TCN1 | 2.5335606 | 1.11E-08 | Upregulated |
| ADH7 | 2.479339751 | 1.72E-12 | Upregulated |
| SFRP2 | 2.452730981 | 6.68E-13 | Upregulated |
| KRT6A | 2.431434875 | 3.68E-08 | Upregulated |
| ST3GAL4-AS1 | 2.385007192 | 2.71E-08 | Upregulated |
| MEP1A | 2.37738837 | 2.09E-06 | Upregulated |
| SEC14L3 | 2.351623048 | 7.17E-14 | Upregulated |
| ITLN1 | 2.32812499 | 2.27E-07 | Upregulated |
| JAKMIP3 | 2.268425023 | 2.42E-14 | Upregulated |
| KRT13 | 2.242444067 | 1.33E-13 | Upregulated |
| SCG3 | 2.202823404 | 9.13E-12 | Upregulated |
| DTNA | 2.147548436 | 1.77E-13 | Upregulated |
| HS3ST3A1 | 2.127267477 | 2.87E-26 | Upregulated |
| SRPX2 | 2.126949187 | 8.14E-07 | Upregulated |
| AHRR | 2.121932208 | 1.93E-09 | Upregulated |
| RP11-355F16.1 | 2.069365101 | 2.51E-18 | Upregulated |
| MUC5AC | 2.065613327 | 1.15E-06 | Upregulated |
| ELFN2 | 2.060057235 | 4.35E-12 | Upregulated |
| ME1 | 2.038411299 | 3.43E-07 | Upregulated |
| BPIFB2 | 2.037131705 | 8.04E-09 | Upregulated |
| DUOX2 | 2.014846522 | 1.26E-09 | Upregulated |
| PHEX | 1.95472695 | 3.98E-06 | Upregulated |
| STATH | 1.953376249 | 4.98E-09 | Upregulated |
| EGF | 1.932615125 | 1.16E-09 | Upregulated |
| DUOXA2 | 1.902125903 | 1.28E-05 | Upregulated |
| LOC102724094 | 1.891058639 | 7.09E-08 | Upregulated |
| VGLL3 | 1.877152343 | 7.67E-07 | Upregulated |
| LOC344887 | 1.873577194 | 5.56E-10 | Upregulated |
| PYGO1 | 1.869913223 | 6.76E-06 | Upregulated |
| APELA | 1.853819593 | 1.72E-05 | Upregulated |
| HOXA1 | 1.842576516 | 2.28E-08 | Upregulated |
| 4-Mar | 1.839968828 | 2.22E-08 | Upregulated |
| CNGB1 | 1.816953534 | 1.35E-06 | Upregulated |
| SLC44A5 | 1.802081884 | 1.10E-08 | Upregulated |
| C3 | 1.801317386 | 9.21E-12 | Upregulated |
| HSD17B2 | 1.76446054 | 3.23E-21 | Upregulated |
| TACR1 | 1.727289045 | 0.000104764 | Upregulated |
| SPRR1B | 1.722426217 | 5.51E-05 | Upregulated |
| LRRC31 | 1.692861167 | 1.16E-05 | Upregulated |
| RP11-619L19.1 | 1.690982726 | 1.59E-11 | Upregulated |
| TFF1 | 1.686338249 | 5.25E-06 | Upregulated |
| IL1R2 | 1.656082694 | 5.71E-18 | Upregulated |
| TMEM45A | 1.654576087 | 4.94E-08 | Upregulated |
| NR0B1 | 1.653592978 | 7.40E-09 | Upregulated |
| SLIT2 | 1.64749899 | 4.40E-06 | Upregulated |
| SHISA9 | 1.633820966 | 7.11E-05 | Upregulated |
| ANO4 | 1.609729916 | 3.04E-12 | Upregulated |
| CYP4F11 | 1.607650675 | 6.89E-06 | Upregulated |
| MMP12 | 1.592111561 | 2.97E-05 | Upregulated |
| PTPRH | 1.586307763 | 0.001192918 | Upregulated |
| LRP2 | 1.580932152 | 2.29E-06 | Upregulated |
| WFDC1 | 1.574665274 | 1.45E-19 | Upregulated |
| CBR1 | 1.565306241 | 7.84E-07 | Upregulated |
| THSD7A | 1.551627795 | 4.27E-19 | Upregulated |
| TFPI2 | 1.539018748 | 2.28E-14 | Upregulated |
| NPAS3 | 1.527316408 | 5.46E-07 | Upregulated |
| AKR1C3 | 1.526952233 | 1.50E-05 | Upregulated |
| WNK4 | 1.520521835 | 0.000295814 | Upregulated |
| BMP4 | 1.517257629 | 5.32E-05 | Upregulated |
| MT1M | 1.51291803 | 0.000224322 | Upregulated |
| SCEL | 1.500366863 | 0.000104992 | Upregulated |
| HBM | 1.495964783 | 1.47E-07 | Upregulated |
| LOC100507560 | 1.492202641 | 3.80E-05 | Upregulated |
| FAM65C | 1.485503967 | 2.12E-18 | Upregulated |
| PNMA2 | 1.458975067 | 2.15E-05 | Upregulated |
| TREM2 | 1.450045075 | 3.59E-05 | Upregulated |
| CYP4F3 | 1.441970258 | 0.000384298 | Upregulated |
| TMEM117 | 1.438799822 | 2.17E-06 | Upregulated |
| ITM2A | 1.420014075 | 1.08E-05 | Upregulated |
| CLDN10 | 1.419371082 | 9.40E-05 | Upregulated |
| ENAM | 1.418577084 | 6.63E-07 | Upregulated |
| UPK1B | 1.391901432 | 3.43E-08 | Upregulated |
| MGP | 1.388855419 | 9.66E-06 | Upregulated |
| CGREF1 | 1.378264582 | 0.000292978 | Upregulated |
| ITGA5 | 1.372334796 | 3.99E-06 | Upregulated |
| NT5E | 1.371694607 | 1.23E-17 | Upregulated |
| DEFB1 | 1.369974978 | 3.17E-17 | Upregulated |
| CDH2 | 1.367395039 | 2.33E-05 | Upregulated |
| KCNA1 | 1.359528688 | 1.80E-10 | Upregulated |
| CTCFL | 1.355895637 | 0.00013228 | Upregulated |
| LY6D | 1.355458077 | 2.71E-08 | Upregulated |
| CYP4F2 | 1.354498264 | 0.002447912 | Upregulated |
| NQO1 | 1.351256185 | 1.67E-08 | Upregulated |
| TRIM58 | 1.345688393 | 0.000164412 | Upregulated |
| FCGR2B | 1.344016689 | 0.000374067 | Upregulated |
| AVPR1A | 1.342375476 | 2.74E-05 | Upregulated |
| PPP1R16B | 1.3408035 | 0.001115428 | Upregulated |
| PIR | 1.334693633 | 0.000203089 | Upregulated |
| PHLDA1 | 1.334596044 | 1.33E-05 | Upregulated |
| IL19 | 1.322887545 | 0.000758428 | Upregulated |
| OSM | 1.320588377 | 2.06E-10 | Upregulated |
| SLC29A1 | 1.320416145 | 0.003861451 | Upregulated |
| RP13-238F13.5 | 1.320158075 | 0.000125301 | Upregulated |
| C22orf42 | 1.319344339 | 2.40E-09 | Upregulated |
| PIEZO2 | 1.315370567 | 6.55E-05 | Upregulated |
| RP11-203B7.1 | 1.314367245 | 0.034725371 | Upregulated |
| CES1P1 | 1.312535701 | 0.006466935 | Upregulated |
| BPIFA2 | 1.312468265 | 9.81E-08 | Upregulated |
| CSGALNACT1 | 1.306986801 | 6.09E-14 | Upregulated |
| TRIM7 | 1.30268142 | 3.12E-05 | Upregulated |
| PLA2G7 | 1.291890721 | 1.67E-10 | Upregulated |
| AKR1C1 | 1.288402219 | 0.002253839 | Upregulated |
| PROS1 | 1.287511373 | 0.003905401 | Upregulated |
| SFTPB | 1.280597109 | 1.09E-08 | Upregulated |
| LOC338667 | 1.276483765 | 0.001569258 | Upregulated |
| EPHA7 | 1.269421647 | 1.11E-07 | Upregulated |
| MAOB | 1.265476007 | 1.08E-08 | Upregulated |
| CEMIP | 1.263066404 | 0.004455891 | Upregulated |
| ITGAX | 1.262560871 | 0.000318719 | Upregulated |
| ADM | 1.26236631 | 0.000522888 | Upregulated |
| LOC283177 | 1.258072756 | 7.32E-09 | Upregulated |
| SPHK1 | 1.248566239 | 5.75E-06 | Upregulated |
| SDSL | 1.243291058 | 0.00209339 | Upregulated |
| BAALC | 1.241180261 | 0.003621934 | Upregulated |
| NCKAP5 | 1.24078408 | 2.98E-07 | Upregulated |
| C8orf12 | 1.239067417 | 0.000173185 | Upregulated |
| DNAJC12 | 1.236285194 | 2.07E-05 | Upregulated |
| C1QTNF4 | 1.234825483 | 5.60E-05 | Upregulated |
| ST8SIA5 | 1.230785112 | 1.77E-14 | Upregulated |
| LOC101928386 | 1.229510554 | 9.41E-11 | Upregulated |
| CALCA | 1.226639723 | 0.001047099 | Upregulated |
| SRXN1 | 1.220669353 | 0.000824015 | Upregulated |
| CLIP4 | 1.220130199 | 0.001645374 | Upregulated |
| SIX3 | 1.218677574 | 2.37E-09 | Upregulated |
| G6PD | 1.216745951 | 1.40E-05 | Upregulated |
| AFAP1L1 | 1.215432188 | 4.24E-18 | Upregulated |
| RP11-524D16\_\_A.3 | 1.214869146 | 8.22E-07 | Upregulated |
| HRK | 1.213899385 | 5.91E-09 | Upregulated |
| TNIP3 | 1.21350545 | 0.000711356 | Upregulated |
| MFSD2A | 1.205186656 | 1.44E-07 | Upregulated |
| SIX3-AS1 | 1.203341565 | 0.000145981 | Upregulated |
| DUSP5P1 | 1.202889446 | 2.44E-10 | Upregulated |
| IL1RN | 1.201539044 | 4.54E-12 | Upregulated |
| CCL7 | 1.197951022 | 0.003232561 | Upregulated |
| WIF1 | 1.197481941 | 8.45E-05 | Upregulated |
| ATXN8OS | 1.194361882 | 1.06E-16 | Upregulated |
| OSGIN1 | 1.19353569 | 8.45E-05 | Upregulated |
| EVC | 1.190639758 | 5.10E-08 | Upregulated |
| ZSCAN4 | 1.18885937 | 0.010501895 | Upregulated |
| COL8A1 | 1.187951866 | 1.59E-05 | Upregulated |
| GALNT6 | 1.186479326 | 0.000246622 | Upregulated |
| CPA3 | 1.181947805 | 0.000257913 | Upregulated |
| CCRL2 | 1.179752333 | 1.94E-15 | Upregulated |
| CDC42EP5 | 1.178483389 | 0.000238782 | Upregulated |
| REG3G | 1.172122915 | 0.00017479 | Upregulated |
| BPIFA1 | 1.170453571 | 0.006774704 | Upregulated |
| PROK2 | 1.167092784 | 0.002545665 | Upregulated |
| TFF3 | 1.162896478 | 0.000169474 | Upregulated |
| FAM3B | 1.159789864 | 6.18E-10 | Upregulated |
| BCL2A1 | 1.159399177 | 4.97E-11 | Upregulated |
| ARHGAP28 | 1.153232581 | 0.000116696 | Upregulated |
| ERP27 | 1.151820332 | 0.004865791 | Upregulated |
| SMIM1 | 1.151111336 | 6.28E-05 | Upregulated |
| LOC100505874 | 1.151049816 | 0.000391804 | Upregulated |
| CBR3 | 1.150433419 | 0.00015411 | Upregulated |
| PCDH17 | 1.148509494 | 0.000905731 | Upregulated |
| NOS3 | 1.148099313 | 0.002382948 | Upregulated |
| MCEMP1 | 1.146603955 | 8.22E-05 | Upregulated |
| RTN4RL1 | 1.144797468 | 0.000627216 | Upregulated |
| CX3CL1 | 1.142735593 | 4.71E-13 | Upregulated |
| AGPAT9 | 1.14170242 | 0.001034804 | Upregulated |
| PANX3 | 1.139351016 | 3.78E-05 | Upregulated |
| KLHDC8A | 1.137062197 | 0.001683918 | Upregulated |
| RP11-305O6.3 | 1.135152732 | 2.82E-08 | Upregulated |
| ASCL3 | 1.133304394 | 2.07E-09 | Upregulated |
| TPM2 | 1.133015524 | 1.78E-09 | Upregulated |
| PLEKHG4B | 1.132927679 | 0.000328986 | Upregulated |
| LHX6 | 1.12834761 | 0.005972155 | Upregulated |
| MMP7 | 1.126596116 | 0.00511827 | Upregulated |
| HTR2B | 1.12475924 | 5.08E-10 | Upregulated |
| KRT40 | 1.122714719 | 0.000980067 | Upregulated |
| MRC1 | 1.122406764 | 0.002990835 | Upregulated |
| DPYSL3 | 1.122098756 | 0.001536756 | Upregulated |
| VEPH1 | 1.121991331 | 1.21E-08 | Upregulated |
| CLDN8 | 1.121526445 | 8.28E-10 | Upregulated |
| MATN3 | 1.121429197 | 0.000223668 | Upregulated |
| INMT | 1.118731684 | 0.001226131 | Upregulated |
| FHOD3 | 1.116849681 | 3.97E-05 | Upregulated |
| PLAT | 1.114612904 | 0.001405216 | Upregulated |
| CTB-167B5.2 | 1.113672925 | 0.001257505 | Upregulated |
| PRSS50 | 1.107166079 | 0.000524666 | Upregulated |
| ZNF549 | 1.107125952 | 0.008115254 | Upregulated |
| LINC00862 | 1.107125594 | 0.003935155 | Upregulated |
| RASAL1 | 1.102704496 | 0.00419695 | Upregulated |
| SIGLEC11 | 1.101225028 | 0.003282943 | Upregulated |
| GFRA3 | 1.100991498 | 0.004764286 | Upregulated |
| PLK2 | 1.100605904 | 0.000616493 | Upregulated |
| LOXHD1 | 1.095399881 | 0.00071995 | Upregulated |
| NAV1 | 1.092290784 | 0.03501975 | Upregulated |
| ATP6V0A4 | 1.089958237 | 1.04E-14 | Upregulated |
| CYP26A1 | 1.088809466 | 1.84E-05 | Upregulated |
| LAG3 | 1.086050178 | 0.017983429 | Upregulated |
| ENG | 1.085755649 | 0.008471787 | Upregulated |
| mir-223 | 1.085468137 | 0.003885677 | Upregulated |
| ATP6V1B1 | 1.085257216 | 1.47E-05 | Upregulated |
| FGFBP1 | 1.084760273 | 1.33E-12 | Upregulated |
| ASRGL1 | 1.08447743 | 0.000713695 | Upregulated |
| TXNRD1 | 1.084168302 | 9.64E-06 | Upregulated |
| CXCL8 | 1.083776398 | 0.004053694 | Upregulated |
| CREB3L1 | 1.08220554 | 0.002389389 | Upregulated |
| TIFAB | 1.082076035 | 8.26E-06 | Upregulated |
| PP14571 | 1.080491669 | 0.000507793 | Upregulated |
| CYP4X1 | 1.079481705 | 4.30E-09 | Upregulated |
| SERPINE1 | 1.077330407 | 0.003601043 | Upregulated |
| S100A10 | 1.076839904 | 0.001844122 | Upregulated |
| ABCB6 | 1.076667598 | 2.73E-07 | Upregulated |
| FAM150B | 1.071429363 | 5.99E-11 | Upregulated |
| TIMP4 | 1.07141273 | 0.009366207 | Upregulated |
| PRKAR2B | 1.070831466 | 7.29E-09 | Upregulated |
| ADAMTS15 | 1.070352911 | 2.83E-05 | Upregulated |
| C2orf70 | 1.070212114 | 0.003266228 | Upregulated |
| KIAA1211 | 1.069038144 | 0.007031519 | Upregulated |
| PEG10 | 1.068355835 | 1.66E-06 | Upregulated |
| PYCR1 | 1.068054272 | 6.54E-12 | Upregulated |
| WFDC6 | 1.065544634 | 0.003592927 | Upregulated |
| PLG | 1.06431821 | 0.00240387 | Upregulated |
| CPE | 1.064215668 | 5.07E-09 | Upregulated |
| RNASE6 | 1.063860395 | 7.19E-13 | Upregulated |
| SLC6A1 | 1.060002045 | 6.67E-05 | Upregulated |
| CTHRC1 | 1.05890882 | 0.00455799 | Upregulated |
| ITGB2-AS1 | 1.056711585 | 8.40E-06 | Upregulated |
| HTATIP2 | 1.055324773 | 0.002624948 | Upregulated |
| PWAR5 | 1.054845322 | 0.000475958 | Upregulated |
| CLMP | 1.053119748 | 0.002623472 | Upregulated |
| PAX1 | 1.052717723 | 2.13E-09 | Upregulated |
| SLC2A3 | 1.050891198 | 0.000271091 | Upregulated |
| RAG2 | 1.050446323 | 7.79E-06 | Upregulated |
| SERPINB10 | 1.045216484 | 1.32E-13 | Upregulated |
| GRM5 | 1.045081329 | 0.000188427 | Upregulated |
| LOC100130744 | 1.043680541 | 4.31E-05 | Upregulated |
| HK3 | 1.040647375 | 0.011653504 | Upregulated |
| AKAP4 | 1.039570732 | 0.001033262 | Upregulated |
| SERPINB13 | 1.038867351 | 5.48E-06 | Upregulated |
| MTHFD2 | 1.038803068 | 0.002909784 | Upregulated |
| SLC4A1 | 1.037747651 | 2.61E-17 | Upregulated |
| CHAD | 1.033780548 | 0.007524741 | Upregulated |
| PDLIM3 | 1.033116115 | 0.008578126 | Upregulated |
| LINC00403 | 1.032919926 | 0.001367758 | Upregulated |
| CD163L1 | 1.031947022 | 7.13E-05 | Upregulated |
| FAM20C | 1.030734808 | 0.002268608 | Upregulated |
| TMCC3 | 1.02996371 | 0.01094219 | Upregulated |
| RP11-732A19.1 | 1.029498727 | 3.92E-07 | Upregulated |
| TUBB2B | 1.026515905 | 0.0012128 | Upregulated |
| LOC100506834 | 1.025883095 | 0.005985126 | Upregulated |
| PTGS2 | 1.024611789 | 3.47E-10 | Upregulated |
| DPY19L2P4 | 1.024260404 | 0.002267897 | Upregulated |
| CEL | 1.023761686 | 0.007738456 | Upregulated |
| SFN | 1.023746864 | 0.008509207 | Upregulated |
| TAS2R1 | 1.021042816 | 0.001934486 | Upregulated |
| CNN3 | 1.020252951 | 0.000297141 | Upregulated |
| CHST1 | 1.015829634 | 0.001706121 | Upregulated |
| SAMD5 | 1.014785974 | 0.001880974 | Upregulated |
| ZNF467 | 1.01473029 | 0.021618821 | Upregulated |
| FUT3 | 1.014593132 | 2.20E-09 | Upregulated |
| GPT2 | 1.011882814 | 2.78E-07 | Upregulated |
| CASQ2 | 1.009128433 | 7.22E-09 | Upregulated |
| ST3GAL6 | 1.007906165 | 0.00045799 | Upregulated |
| ATP13A4-AS1 | 1.006187011 | 0.005578143 | Upregulated |
| RP11-96H17.1 | 1.005375348 | 0.022950816 | Upregulated |
| KCNJ2-AS1 | 1.004600464 | 0.030850001 | Upregulated |
| PF4 | 1.004085132 | 0.000851199 | Upregulated |
| RAB9BP1 | 1.003465869 | 0.016370269 | Upregulated |
| TIMP1 | 1.002585103 | 0.003314326 | Upregulated |
| SGCE | 1.001414974 | 0.000146731 | Upregulated |
| PSG7 | 1.001121662 | 0.047693416 | Upregulated |
| FN1 | 1.000613854 | 3.09E-10 | Upregulated |
| SLITRK6 | 1.000443719 | 0.00235294 | Downregulated |
| CDS1 | -1.001023754 | 0.010806687 | Downregulated |
| MTA3 | -1.001148181 | 1.21E-05 | Downregulated |
| NDUFB8 | -1.007641946 | 0.002951795 | Downregulated |
| PNPLA3 | -1.007841445 | 2.24E-12 | Downregulated |
| RTEL1 | -1.01261772 | 2.56E-06 | Downregulated |
| VPS8 | -1.015981293 | 0.004267524 | Downregulated |
| C20orf203 | -1.016832849 | 0.004270115 | Downregulated |
| SPTBN5 | -1.022933118 | 0.009739424 | Downregulated |
| PRPF8 | -1.025374145 | 0.023582585 | Downregulated |
| ZBED4 | -1.026658834 | 3.96E-07 | Downregulated |
| LOC100507419 | -1.028159127 | 0.00059449 | Downregulated |
| LOC101927377 | -1.035699408 | 3.46E-07 | Downregulated |
| BC039686 | -1.035828292 | 0.002403863 | Downregulated |
| TMEM254 | -1.03683082 | 0.001713941 | Downregulated |
| CDK17 | -1.037364043 | 3.22E-05 | Downregulated |
| C16orf59 | -1.03833282 | 0.012058843 | Downregulated |
| ZGRF1 | -1.040705148 | 0.008179581 | Downregulated |
| CLCC1 | -1.043656312 | 0.004305833 | Downregulated |
| ZNF225 | -1.046363115 | 0.001976638 | Downregulated |
| SLC25A5 | -1.046638415 | 0.000239182 | Downregulated |
| THUMPD3 | -1.051553383 | 0.009237101 | Downregulated |
| SOX21 | -1.053248078 | 1.79E-05 | Downregulated |
| CDC23 | -1.053611799 | 0.00223329 | Downregulated |
| LOC100506299 | -1.057808318 | 0.00072069 | Downregulated |
| LOC728084 | -1.059950486 | 0.007124695 | Downregulated |
| DMXL1 | -1.06249281 | 0.001546132 | Downregulated |
| BRCC3 | -1.064893514 | 0.000222734 | Downregulated |
| NFX1 | -1.067528514 | 0.000170354 | Downregulated |
| SRSF1 | -1.070520863 | 0.000375116 | Downregulated |
| OR2L13 | -1.070662571 | 0.00304455 | Downregulated |
| TCAP | -1.071474009 | 0.004130584 | Downregulated |
| FIRRE | -1.07188595 | 0.012623143 | Downregulated |
| ADAM33 | -1.071905821 | 0.001264193 | Downregulated |
| KLHL35 | -1.072081642 | 0.00108636 | Downregulated |
| SNX12 | -1.074314905 | 0.001878801 | Downregulated |
| SEPW1 | -1.080157991 | 0.016549717 | Downregulated |
| C14orf80 | -1.082879661 | 1.84E-05 | Downregulated |
| GSC2 | -1.084420572 | 0.004925891 | Downregulated |
| BLOC1S4 | -1.084432198 | 0.012384093 | Downregulated |
| BRINP1 | -1.085485391 | 0.006809443 | Downregulated |
| FBXO33 | -1.088013545 | 0.000847767 | Downregulated |
| FNBP1 | -1.090220317 | 7.96E-11 | Downregulated |
| ZNF592 | -1.093079433 | 0.004789822 | Downregulated |
| BCL2L1 | -1.096732937 | 2.07E-12 | Downregulated |
| UPP2 | -1.097596938 | 0.000175037 | Downregulated |
| HSD11B1L | -1.103599216 | 0.002287261 | Downregulated |
| KLK13 | -1.106363095 | 0.004461328 | Downregulated |
| NUDT19 | -1.109551145 | 0.002443823 | Downregulated |
| TADA1 | -1.111918742 | 7.26E-08 | Downregulated |
| PDHX | -1.112419421 | 1.01E-05 | Downregulated |
| RGS17 | -1.115182427 | 0.000777729 | Downregulated |
| RAI1 | -1.116385105 | 0.020510774 | Downregulated |
| SLC25A3 | -1.11907088 | 1.14E-05 | Downregulated |
| MORC1 | -1.122308433 | 1.09E-13 | Downregulated |
| PPP1CC | -1.122843561 | 3.34E-09 | Downregulated |
| PEX11G | -1.126683877 | 0.002046998 | Downregulated |
| LOC100506457 | -1.128044909 | 1.43E-07 | Downregulated |
| GLP2R | -1.128637845 | 0.000231983 | Downregulated |
| LOC220077 | -1.132534092 | 6.46E-09 | Downregulated |
| ZNF606 | -1.139670784 | 4.32E-07 | Downregulated |
| LINC00115 | -1.145704986 | 0.003384524 | Downregulated |
| ENY2 | -1.14748314 | 0.000358677 | Downregulated |
| C14orf2 | -1.152410103 | 0.001860033 | Downregulated |
| RP11-443B7.1 | -1.157091421 | 0.00204549 | Downregulated |
| ELMO3 | -1.167478694 | 0.002873953 | Downregulated |
| SRP54 | -1.168825661 | 2.39E-07 | Downregulated |
| KRT31 | -1.169805163 | 0.002317641 | Downregulated |
| RP1-130G2.1 | -1.17452508 | 1.61E-07 | Downregulated |
| IL1A | -1.179641922 | 0.00028056 | Downregulated |
| ZNF547 | -1.180475121 | 1.26E-05 | Downregulated |
| ANAPC16 | -1.185651291 | 0.001032723 | Downregulated |
| GTPBP3 | -1.190517056 | 5.14E-11 | Downregulated |
| RP11-111J6.2 | -1.192444628 | 6.53E-09 | Downregulated |
| HECW1-IT1 | -1.194573439 | 1.44E-12 | Downregulated |
| MTHFSD | -1.19468725 | 2.53E-15 | Downregulated |
| FBXO10 | -1.203945182 | 2.57E-13 | Downregulated |
| RP11-468E2.5 | -1.219977668 | 7.13E-07 | Downregulated |
| ZBTB4 | -1.221806018 | 0.000217221 | Downregulated |
| ITPA | -1.235966499 | 5.43E-12 | Downregulated |
| PBRM1 | -1.24261026 | 0.000708191 | Downregulated |
| FETUB | -1.243800089 | 8.28E-12 | Downregulated |
| ST7L | -1.249248862 | 3.04E-09 | Downregulated |
| CCNK | -1.249448645 | 0.001255881 | Downregulated |
| LOC101927157 | -1.252575261 | 0.007188439 | Downregulated |
| NNT | -1.252999936 | 4.78E-11 | Downregulated |
| SPRNP1 | -1.254301213 | 7.60E-10 | Downregulated |
| PTPRN | -1.263778421 | 4.73E-05 | Downregulated |
| CXXC4 | -1.266071997 | 5.09E-08 | Downregulated |
| DNAH2 | -1.266815932 | 4.20E-07 | Downregulated |
| CATX-1 | -1.271232415 | 0.000293365 | Downregulated |
| SC5D | -1.27632112 | 0.0001227 | Downregulated |
| DHX9 | -1.283440472 | 3.65E-09 | Downregulated |
| RASGRF2 | -1.286210845 | 6.44E-07 | Downregulated |
| ESD | -1.288528859 | 1.06E-09 | Downregulated |
| POLE | -1.292347808 | 0.001128249 | Downregulated |
| DNAJB8-AS1 | -1.295044591 | 0.000271591 | Downregulated |
| RP11-180N14.1 | -1.302088122 | 7.37E-07 | Downregulated |
| AXL | -1.302622548 | 0.000445298 | Downregulated |
| CAMTA2 | -1.329051514 | 0.000995483 | Downregulated |
| DEFA6 | -1.331070313 | 8.65E-08 | Downregulated |
| SNRNP200 | -1.337560935 | 0.000108336 | Downregulated |
| OSGEPL1 | -1.358305181 | 1.12E-10 | Downregulated |
| DGCR9 | -1.390251342 | 4.95E-05 | Downregulated |
| HIPK1 | -1.40661181 | 9.08E-06 | Downregulated |
| FAXDC2 | -1.413230223 | 0.003584813 | Downregulated |
| C4orf36 | -1.433383446 | 1.14E-10 | Downregulated |
| C6orf195 | -1.451227861 | 6.46E-14 | Downregulated |
| TNFRSF11A | -1.460541729 | 3.05E-06 | Downregulated |
| NPHP3 | -1.479554976 | 0.005787768 | Downregulated |
| JAM2 | -1.483283494 | 7.18E-14 | Downregulated |
| ZFP91 | -1.496129753 | 5.89E-08 | Downregulated |
| PIGG | -1.510524559 | 0.000948528 | Downregulated |
| HIST1H2AC | -1.513671603 | 1.41E-10 | Downregulated |
| TMX4 | -1.521242746 | 3.41E-11 | Downregulated |
| SEPT12 | -1.553912564 | 3.25E-13 | Downregulated |
| PTGER4P2-CDK2AP2P2 | -1.564578486 | 0.00072951 | Downregulated |
| HCRTR1 | -1.569787062 | 0.00819717 | Downregulated |
| GK | -1.600296284 | 3.23E-09 | Downregulated |
| FAM58A | -1.624052565 | 4.30E-18 | Downregulated |
| PTPN12 | -1.648013376 | 8.27E-08 | Downregulated |
| SFXN1 | -1.677854105 | 1.08E-10 | Downregulated |
| LOC101928370 | -1.706454968 | 0.000195615 | Downregulated |
| LOC101927815 | -1.707490083 | 1.02E-08 | Downregulated |
| C14orf142 | -1.708535176 | 2.64E-06 | Downregulated |
| CCDC92 | -1.720214202 | 0.00709624 | Downregulated |
| PIGB | -1.724935404 | 1.57E-05 | Downregulated |
| LOC93622 | -1.748000552 | 2.24E-12 | Downregulated |
| STIM1 | -1.773169227 | 1.83E-17 | Downregulated |
| JDP2 | -1.785960998 | 3.12E-06 | Downregulated |
| CDK16 | -1.789849899 | 3.51E-15 | Downregulated |
| DIRAS1 | -1.810408903 | 1.83E-07 | Downregulated |
| TM2D1 | -1.848642589 | 3.19E-08 | Downregulated |
| TYMS | -1.852259464 | 2.42E-09 | Downregulated |
| RPRD2 | -1.852273923 | 2.09E-14 | Downregulated |
| SEPT6 | -1.863843577 | 7.50E-12 | Downregulated |
| RPS28 | -1.922196222 | 5.65E-06 | Downregulated |
| FUT8-AS1 | -1.923678425 | 1.68E-06 | Downregulated |
| CALD1 | -1.927551909 | 1.28E-12 | Downregulated |
| LINC00648 | -1.92808621 | 1.37E-05 | Downregulated |
| TIGD4 | -1.986655414 | 2.76E-05 | Downregulated |
| NEK3 | -2.00648456 | 1.35E-08 | Downregulated |
| CKAP2L | -2.026112815 | 4.12E-11 | Downregulated |
| CADM2 | -2.232170445 | 7.89E-10 | Downregulated |
| LDHB | -2.448456976 | 7.48E-07 | Downregulated |
| HPCAL4 | -2.451928874 | 2.08E-13 | Downregulated |
| ODF2L | -2.622489193 | 7.59E-12 | Downregulated |
| C18orf25 | -2.922000251 | 0.000793266 | Downregulated |
| PGF | -2.949036302 | 3.98E-15 | Downregulated |