| gene     | HR   | z     | pvalue    |
|----------|------|-------|-----------|
| TOB1-AS1 | 0.383245 | -11.3919 | 4.59E-30  |
| AC004492 | 0.718377 | -6.00938 | 3.25E-16  |
| AL122035.3 | 0.567769 | -7.02986 | 1.37E-23  |
| NNT-AS1  | 0.408502 | -8.16015 | 3.35E-16  |
| AC004817 | 1.121339 | 7.70798  | 1.28E-14  |
| LINC01127 | 1.379821 | 8.25668  | 4.59E-30  |
| AC004492 | 0.718377 | -6.00938 | 3.25E-16  |
| OIP5-AS1 | 0.501118 | -6.72542 | 1.75E-11  |
| AL731563.3 | 0.544913 | -7.32821 | 2.33E-13  |
| AC004908.3 | 0.687769 | -7.02986 | 1.37E-23  |
| LINC01278 | 0.467379 | -5.47322 | 4.42E-08  |
| AL450326.1 | 0.676396 | -8.23038 | 1.87E-16  |
| AC109439.2 | 0.849097 | -13.7349 | 6.27E-43  |
| AC116552.1 | 0.860684 | -5.66106 | 1.50E-08  |
| AC093010 | 0.529048 | -11.9948 | 3.78E-33  |
| AC020905 | 1.173667 | 10.31009 | 6.34E-25  |
| AC079414.3 | 0.369509 | -11.7209 | 9.96E-32  |
| LEF1-AS1 | 1.753214 | 13.75094 | 5.03E-43  |
| LINC01277 | 0.467379 | -5.47322 | 4.42E-08  |
| AC003486 | 0.4275 | -12.1737 | 4.29E-34  |
| AC104083.1 | 0.674704 | -7.49121 | 6.82E-14  |
| AC092119 | 0.752318 | -3.83496 | 0.000126  |
| AC147651 | 1.770096 | 13.85876 | 1.13E-43  |
| AC117339.3 | 0.473186 | -15.9899 | 1.50E-57  |
| AC066202 | 0.684326 | -6.68285 | 2.34E-11  |
| AC105461 | 1.828194 | 8.995484 | 2.35E-19  |
| AC090241 | 0.589913 | -8.73879 | 2.36E-18  |
| Gene  | FPKM   | RPKM   | Log2Folds | p-value |
|-------|--------|--------|-----------|---------|
| AL356019 | 0.471783 | -9.99234 | 1.65E-23 |
| AC027307 | 2.261673 | 12.12773 | 7.53E-34 |
| AC124312 | 0.823315 | -12.2779 | 1.19E-24 |
| AC097359 | 0.783965 | -5.94243 | 2.81E-09 |
| AL353796 | 0.330477 | -14.6769 | 9.07E-49 |
| AC020558 | 0.797571 | -3.50291 | 0.00046 |
| AC127070 | 0.615151 | -14.1478 | 1.94E-49 |

| Gene  | FPKM   | RPKM   | Log2Folds | p-value |
|-------|--------|--------|-----------|---------|
| AC020558 | 0.79789 | -5.5844 | 2.35E-08 |
| AC127070 | 0.797571 | -3.50291 | 0.00046 |
| AC126407 | 0.700107 | -7.90112 | 2.76E-15 |
| PSMB8-A | 2.103217 | 10.87969 | 1.44E-27 |
| TGFB2-AS | 1.438432 | 9.990122 | 1.68E-23 |
| AL391069 | 1.380359 | -4.25471 | 2.09E-05 |
| AC015540 | 0.768148 | -13.5347 | 4.80E-27 |
| SNHG16 | 2.047928 | 7.637085 | 2.22E-14 |
| GUSBP11 | 0.461045 | -9.7152 | 3.00E-27 |
| LINC0178i | 0.714133 | -11.3826 | 5.11E-30 |
| AC120114 | 0.620007 | -14.0567 | 7.01E-45 |
| AL138960 | 0.566336 | -14.1433 | 2.05E-45 |
| AC132938 | 0.387049 | -3.982 | 6.83E-05 |
| AC025162 | 0.642313 | -11.2827 | 1.60E-29 |
| AL731533 | 0.503303 | -13.9148 | 5.15E-44 |
| AC020207 | 1.66421 | 7.642127 | 2.14E-14 |
| AC008124 | 0.374666 | -10.7862 | 4.00E-27 |
| AL139690 | 0.566336 | -11.3826 | 5.11E-30 |
| MIR22HG | 2.070056 | 11.21872 | 3.30E-29 |
| PAXBP1-AS | 0.294921 | -12.1645 | 4.80E-34 |
| AC016555 | 1.612046 | 11.11515 | 1.06E-28 |
| AC078909 | 0.889784 | -5.54173 | 3.00E-08 |
| ENTPD1-AS | 0.380349 | -11.9176 | 9.58E-33 |
| AP001528 | 1.46961 | 5.566331 | 2.60E-08 |
| AC008610 | 0.606771 | -7.5422 | 4.62E-14 |
| LINC0092i | 0.797554 | -9.05834 | 1.32E-19 |
| AL590666 | 0.695047 | -10.3435 | 4.48E-25 |
| AC009126 | 0.444862 | -6.81291 | 9.56E-12 |
| AC010186 | 1.516074 | 5.418769 | 6.00E-08 |
| ADGRA1-AS | 0.71304 | -14.7781 | 2.03E-49 |
| AL355388 | 0.790633 | -3.59146 | 0.000329 |
| AC245052 | 2.34169 | 11.92151 | 9.14E-33 |
| Z83843.1 | 0.623909 | -6.43687 | 1.22E-10 |
| AC087741 | 0.764629 | -4.09293 | 4.26E-05 |
| Gene Name       | Log2FoldChange | p-value   | q-value   |
|-----------------|----------------|-----------|-----------|
| AC068152        | -4.35485       | 1.33E-05  |
| LINCO064        | 0.848487       | 0.000909  |
| AL161457        | -4.89098       | 1.00E-06  |
| AL445309        | -12.9488       | 2.39E-38  |
| AC017002        | 10.24907       | 1.19E-24  |
| LINC00641       | -14.8654       | 5.53E-50  |
| AC120498        | -3.3173        | 8.38E-05  |
| AL161457        | -10.74877      | 6.01E-27  |
| AC005776        | 11.25829       | 2.11E-29  |
| LINC00641       | -12.4447       | 1.49E-35  |
| AC005776        | 13.64888       | 2.05E-42  |
| AC011899        | 13.01095       | 1.06E-38  |
| AC107375        | -11.8805       | 1.50E-32  |
| AC073254        | -10.3937       | 2.65E-25  |
| AL590999        | -8.62217       | 6.57E-18  |
| AC138207        | 11.31367       | 1.12E-29  |
| AC254562        | -15.5782       | 1.02E-54  |
| AL157900        | 7.670753       | 1.71E-14  |
| LINCO0191       | 8.209328       | 2.22E-16  |
| TMPO-AS1        | -14.2622       | 3.76E-46  |
| AC010226        | 13.64888       | 2.05E-42  |
| AC002456        | 13.01095       | 1.06E-38  |
| AC107375        | -11.1144       | 1.07E-28  |
| BX537318        | 11.31367       | 1.12E-29  |
| AC073254        | -8.48581       | 2.14E-17  |
| DDX11-A         | 6.46852        | 9.90E-11  |
| AC007608        | -10.3937       | 2.65E-25  |
| ZNF32-AS1       | 7.85435        | 4.02E-15  |
| AL157900        | -15.4808       | 4.68E-54  |
| AC138207        | -12.144        | 6.17E-34  |
| POLH-AS1        | 4.474183       | 7.67E-06  |
| AC093673        | 14.20124       | 9.01E-46  |
| AL590999        | -8.62217       | 6.57E-18  |
| AC109973        | 9.075728       | 1.13E-19  |
| AL133355        | -9.74326       | 1.97E-22  |
| TSC22D1         | -8.30011       | 1.04E-16  |
| CYTOR           | 16.10648       | 2.30E-58  |
| RAB11B-A        | 7.673868       | 1.67E-14  |
| RNF139-A        | 4.13884        | 3.49E-05  |
| AP001453        | 10.62931       | 2.18E-26  |
| AL158163        | -13.5559       | 7.31E-42  |
| MIR600HC        | 9.50081        | 2.08E-21  |
| AC025917        | 7.81806        | 5.36E-15  |
| N4BP2L2         | -5.21558       | 1.83E-07  |
| RAP2C-A         | 3.45129        | 0.000558  |
| RNU6DC3A        | -12.9501       | 2.35E-38  |
| AL121890        | -9.18163       | 4.25E-20  |
| AC009113        | -11.5663       | 6.11E-31  |
| AP001486        | 15.138         | 9.10E-52  |
| CNDE            | 13.49002       | 1.79E-41  |
| AL512625        | -10.2211       | 1.59E-24  |
| AC093627        | 9.396312       | 5.65E-21  |
| DLEU1           | 5.323173       | 1.02E-07  |
| AL445524        | 14.68804       | 7.69E-49  |
| SGMS1-A         | -14.3901       | 5.97E-47  |
| Gene Symbol | Value1 | Value2 | Value3 |
|-------------|--------|--------|--------|
| LINC0029 | 0.390166 | -9.42521 | 4.29E-21 |
| AC004803 | 0.380193 | -13.7088 | 8.99E-43 |
| LINC0259 | 0.618676 | -14.5777 | 3.89E-48 |
| AC007406 | 0.395662 | -9.8323 | 8.17E-23 |
| AC138207 | 1.51694 | 6.776503 | 1.23E-11 |
| AGAP2-A | 1.532253 | 16.79463 | 2.67E-63 |
| AP000924 | 1.201941 | 6.588994 | 4.43E-11 |
| AC112491 | 1.558897 | 9.847888 | 7.00E-23 |
| AL158212 | 0.394649 | -14.5465 | 6.15E-48 |
| AC010834 | 0.547856 | -9.16204 | 5.09E-20 |
| AC112215 | 0.761909 | -4.59844 | 4.26E-06 |
| AC026271 | 0.741015 | -3.97324 | 7.09E-05 |
| AC124312 | 0.722793 | -12.0694 | 1.53E-33 |
| AL138724 | 2.809964 | 12.43667 | 1.65E-35 |
| VIM-AS1 | 1.773879 | 9.627046 | 6.15E-22 |
| SMIM25 | 1.502732 | 12.11182 | 9.14E-34 |
| LINC0150 | 1.413872 | 7.476272 | 7.65E-14 |
| AC009118 | 0.36588 | -10.5202 | 6.97E-26 |
| RNF219-AS1 | 0.698558 | -12.4955 | 7.90E-36 |
| FP671120 | 1.356397 | 12.11832 | 8.45E-34 |
| DICER1-AS1 | 0.282975 | -12.2789 | 1.18E-34 |
| AC012360 | 0.421365 | -7.69174 | 1.45E-14 |
| HAR1A | 0.748696 | -12.3389 | 5.59E-35 |
| PCED1B-A | 1.550266 | 8.499846 | 1.90E-17 |
| AC017083 | 0.61653 | -10.8031 | 3.33E-29 |
| CTBP1-DT | 0.55774 | -4.6049 | 4.13E-06 |
| SLC16A1-AS1 | 3.278536 | 13.46315 | 2.58E-41 |
| AL512353 | 1.987948 | 9.064533 | 1.25E-19 |
| LINC0228 | 1.405283 | 6.832849 | 8.32E-12 |
| FO393401 | 1.500937 | 6.742413 | 1.56E-11 |
| SEMA6A-AS1 | 0.770389 | -3.85172 | 0.000117 |
| AL359643 | 2.638655 | 12.30602 | 8.41E-35 |
| LPP-AS2 | 1.742865 | 5.980604 | 2.22E-09 |
| AL162741 | 0.797419 | -3.74967 | 0.000177 |
| AC008669 | 0.408425 | -13.9615 | 2.68E-44 |
| AC009148 | 0.620942 | -7.10946 | 26.6E-12 |
| FLJ37035 | 0.371653 | -15.3485 | 3.63E-53 |
| RFPL15 | 0.776877 | -7.35098 | 1.97E-13 |
| LINC0114 | 1.232943 | 7.76183 | 8.37E-15 |
| AC027130 | 0.686484 | -12.2413 | 1.87E-34 |
| MCM3AP-AS1 | 0.584067 | -5.54609 | 2.92E-08 |
| AC132192 | 0.641003 | -5.21472 | 1.84E-07 |
| AC106300 | 0.710084 | -7.78339 | 7.06E-15 |
| AC120053 | 0.422221 | -8.68177 | 3.90E-18 |
| AC110285 | 0.733269 | -5.99628 | 2.02E-09 |
| AC026801 | 1.738261 | 8.659687 | 4.73E-18 |
| AL450384 | 0.462451 | -11.2144 | 3.47E-29 |
| FLJ46284 | 0.561241 | -12.7926 | 1.80E-37 |
| MIR155H | 1.835122 | 16.4789 | 5.20E-61 |
| Gene         | log2 Fold Change | p-value          | FDR             |
|--------------|------------------|------------------|-----------------|
| SOCS2-AS1    | 1.611228         | 13.29555         | 2.46E-40        |
| AC021739     | 0.715622         | -11.8023         | 3.80E-32        |
| AL353751     | 0.501076         | -12.1124         | 9.08E-34        |
| AC009088     | 0.634736         | -7.83733         | 4.60E-15        |
| KIZ-AS1      | 0.743789         | -6.57461         | 4.88E-11        |
| SOCS2-AS1    | 1.611228         | 13.29555         | 2.46E-40        |
| AC021739     | 0.715622         | -11.8023         | 3.80E-32        |
| AL353751     | 0.501076         | -12.1124         | 9.08E-34        |
| AC009088     | 0.634736         | -7.83733         | 4.60E-15        |
| KIZ-AS1      | 0.743789         | -6.57461         | 4.88E-11        |
| AC009088     | 0.634736         | -7.83733         | 4.60E-15        |
| KIZ-AS1      | 0.743789         | -6.57461         | 4.88E-11        |
| AC009088     | 0.634736         | -7.83733         | 4.60E-15        |
| KIZ-AS1      | 0.743789         | -6.57461         | 4.88E-11        |
| AC009088     | 0.634736         | -7.83733         | 4.60E-15        |
| KIZ-AS1      | 0.743789         | -6.57461         | 4.88E-11        |
| Gene Symbol | Fold Change | Log2 Fold Change | p-value   |
|-------------|-------------|------------------|-----------|
| ACVR2B-AS1  | 0.568586    | -7.50005         | 6.38E-14  |
| AC093788    | 0.784234    | -3.64352         | 0.000269  |
| RNF217-A    | 0.700728    | -9.7879          | 5.09E-23  |
| AC026356    | 1.84584     | 9.193874         | 3.79E-20  |
| BHLHE40-    | 1.812674    | 7.77615          | 7.39E-15  |
| KCNK4-TE    | 0.785291    | -11.2938         | 1.41E-29  |
| AL133415    | 1.459265    | 14.36053         | 9.15E-47  |
| AC026356.1  | 1.84589     | 9.193874         | 3.79E-20  |
| BHLHE40-    | 1.812674    | 7.77615          | 7.39E-15  |
| KCNK4-TE    | 0.785291    | -11.2938         | 1.41E-29  |
| AL133415    | 1.459265    | 14.36053         | 9.15E-47  |
| AC026356.1  | 1.84589     | 9.193874         | 3.79E-20  |
| BHLHE40-    | 1.812674    | 7.77615          | 7.39E-15  |
| KCNK4-TE    | 0.785291    | -11.2938         | 1.41E-29  |
| AL133415    | 1.459265    | 14.36053         | 9.15E-47  |
| AC026356.1  | 1.84589     | 9.193874         | 3.79E-20  |
| BHLHE40-    | 1.812674    | 7.77615          | 7.39E-15  |
| KCNK4-TE    | 0.785291    | -11.2938         | 1.41E-29  |
| AL133415    | 1.459265    | 14.36053         | 9.15E-47  |
| AC026356.1  | 1.84589     | 9.193874         | 3.79E-20  |
| BHLHE40-    | 1.812674    | 7.77615          | 7.39E-15  |
| KCNK4-TE    | 0.785291    | -11.2938         | 1.41E-29  |
| AL133415    | 1.459265    | 14.36053         | 9.15E-47  |
| Gene Symbol     | log2 Fold Change | p-Value  |
|-----------------|-----------------|----------|
| AP000866        | 0.697489        | 3.53E-20 |
| AL513217        | 0.638723        | 1.59E-30 |
| STX18-AS        | 0.389343        | 7.13E-15 |
| TMEM220         | 1.762671        | 5.52E-42 |
| ITGB2-AS        | 1.342369        | 9.27E-09 |
| STXB5-P-A       | 0.741897        | 7.63E-08 |
| DNAJC3-1        | 0.396242        | 3.52E-27 |
| LINC01124       | 0.829942        | 3.52E-27 |
| AL160270.1      | 0.831936        | 3.21E-26 |
| AL159169.2      | 0.551855        | 5.15E-22 |
| SNHG18          | 1.759957        | 1.87E-48 |
| NRAV            | 2.587697        | 1.25E-38 |
| AL135999.2      | 0.748037        | 2.14E-43 |
| RAD51-AS        | 0.524027        | 9.27E-09 |
| AL133325.3      | 0.702832        | 5.08E-12 |
| AL713998.1      | 1.179633        | 6.49E-36 |
| ZNF433-A        | 2.434151        | 8.47E-20 |
| AC125807        | 1.242153        | 1.48E-08 |
| BX324167        | 0.699303        | 2.05E-21 |
| AL606970.1      | 1.183666        | 3.05E-41 |
| AC009690.1      | 2.478876        | 1.16E-33 |
| PK3CD-A         | 1.492188        | 7.15E-39 |
| AC018797        | 3.048431        | 2.59E-26 |
| AP002360        | -10.202         | 1.94E-24 |
| AL133325.2      | 0.702832        | 6.9034   |
| AL713998.1      | 1.179633        | 6.51114  |
| LINC01270       | 1.975121        | 1.23E-37 |
| AC060766        | 1.580692        | 12.18    |
| AC084018        | 0.778493        | 4.36E-24 |
| AC245060.6      | 0.722262        | 4.48E-08 |
| LINC0033.1      | 3.249511        | 3.36E-37 |
| AP000350        | 0.5179         | 12.1848  |
| AP000892        | 0.82957         | 1.45076  |
| AC105219        | 0.564455        | 7.30E-26 |
| C1RL-AS1        | 1.840906        | 1.58E-29 |
| LINC01271       | 1.975121        | 2.30E-37 |
| AC060766.1      | 1.647735        | 9.29674  |
| AC018648.1      | 0.500658        | 12.1743  |
| AL357033.1      | 1.821866        | 10.59074 |
| TLME254         | 0.388647        | 12.968   |
| AC1093895       | 1.177507        | 12.60708 |
| AC124312.1      | 0.712542        | 13.817   |
| ZNF571-A        | 0.512385        | 10.277   |
| AC118344        | 0.823159        | 6.14405  |
| DLGAP4-1        | 1.2148999       | 11.20234 |
| MIR4435-1       | 1.630385        | 15.22816 |
| AL55922.1       | 1.138832        | 5.12197  |
| BASP1-AS        | 0.82737         | 11.9508  |
| USP30-AS        | 1.460119        | 10.69904 |
| THFDE-A        | 0.848462        | 12.0138  |
| LINC0096.1      | 1.284216        | 7.701269 |
| AC073389.1      | 0.482745        | 14.1162  |
| DLGAP1-1        | 2.201805        | 10.66771 |
| Gene       | Log2FoldChange | p-value    | q-value   |
|-----------|---------------|------------|-----------|
| AC010319  | 2.773262      | 5.48E-30   |           |
| ZNF252P   | 0.560017      | -7.36996   | 1.71E-13  |
| AC147067  | 1.410022      | 2.33E-10   |           |
| AC010864  | 0.381297      | -11.9176   | 9.58E-33  |
| AC108449  | 0.699315      | -7.20433   | 5.83E-13  |
| AL122035  | 0.453454      | -8.65991   | 4.72E-18  |
| AC015922  | 1.73105       | 10.09623   | 5.74E-24  |
| AC018647  | 1.793352      | 5.749649   | 8.94E-09  |
| AC007344  | 1.248893      | 8.767381   | 1.83E-18  |
| LINCO108f | 0.549846      | -7.97308   | 1.55E-15  |
| AL590644  | 1.196963      | 12.90443   | 4.25E-38  |
| SUCLG2-Δ  | 1.505557      | 5.054198   | 4.32E-07  |
| SNHG12    | 1.879811      | 7.019815   | 2.22E-12  |
| AC026471  | 0.585607      | -5.20706   | 1.92E-07  |
| AL513220  | 0.704965      | -6.15186   | 7.66E-10  |
| AL589935  | 0.736556      | -6.22149   | 4.92E-10  |
| AC090796  | 1.16399       | 11.93204   | 8.06E-33  |
| LINC0122f | 1.65638       | 8.401639   | 4.40E-17  |
| AC002398  | 2.213951      | 11.46284   | 2.03E-30  |
| AL731569  | 0.378787      | -12.7723   | 2.34E-37  |
| AC093726  | 2.003473      | 12.21472   | 2.59E-34  |
| HCG18     | 0.576231      | -4.67567   | 2.93E-06  |
| AL450263  | 0.797794      | -6.61274   | 3.77E-11  |
| SBF2-AS1  | 1.846209      | 12.22569   | 2.27E-34  |
| AC061992  | 1.487155      | 12.3595    | 4.33E-35  |
| TRG-AS1   | 1.62742       | 8.921947   | 4.58E-19  |
| AC007619  | 0.807233      | -9.17111   | 4.68E-20  |
| ID2-AS1   | 0.479899      | -11.5368   | 8.61E-31  |
| AL022328  | 0.608345      | -7.11017   | 1.16E-12  |
| AC004148  | 0.718649      | -4.24806   | 2.16E-05  |
| AL117332  | 3.065339      | 14.78134   | 1.93E-49  |