|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Most Influential | Sum | Gene Symbol | Most Influenced | Sum | Gene Symbol |
| 224761\_at | -2409.38 | GNA13 | **203001\_s\_at** | 4519.62 | STMN2 |
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| 1554479\_a\_at | -1895.43 | CARD8 | **205278\_at** | 3350.46 | GAD1 |
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| 200613\_at | 1859.31 | AP2M1 | **202961\_s\_at** | 3213.12 | ARMC2-AS1 /// ATP5J2 |
| 225504\_at | -1828.94 | HMBOX1 | **219532\_at** | 2988.75 | ELOVL4 |
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| 215728\_s\_at | 1721.58 | ACOT7 | **213558\_at** | 2559.68 | PCLO |
| 230258\_at | -1693.09 | GLIS3 | **218935\_at** | 2516.49 | EHD3 |
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| 218248\_at | -1647.98 | FAM111A | **238504\_at** | 2390.11 | C6orf57 |
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| 208999\_at | -1635.52 | SEPT8 | **242317\_at** | 2314.09 | HIGD1A |
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| 202120\_x\_at | 1606.68 | AP2S1 | **205608\_s\_at** | -2116.07 | ANGPT1 |
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| 215052\_at | 1563.17 | FRMPD4 | **227444\_at** | 1974.61 | ARMCX4 |
| 202553\_s\_at | -1550.16 | SYF2 | **201082\_s\_at** | 1968.20 | DCTN1 /// SLC4A5 |
| 209074\_s\_at | -1543.89 | FAM107A | **218597\_s\_at** | 1961.04 | CISD1 |
| 201241\_at | 1542.89 | DDX1 | **241758\_at** | 1959.48 | NUP93 |
| 211986\_at | -1537.67 | AHNAK | **232148\_at** | -1945.48 | NSMAF |
| 207842\_s\_at | -1535.92 | CASC3 /// MIR6866 | **204471\_at** | 1928.30 | GAP43 |
| 219688\_at | 1529.93 | BBS7 | **210532\_s\_at** | 1914.70 | C14orf2 |
| 222099\_s\_at | -1529.27 | LSM14A | **218568\_at** | -1905.41 | AGK |
| 203567\_s\_at | -1519.09 | TRIM38 | **201410\_at** | 1898.73 | PLEKHB2 |
| 240532\_at | 1510.46 | SLC32A1 | **202233\_s\_at** | 1886.58 | UQCRH /// UQCRHL |
| 208813\_at | 1506.16 | GOT1 | **211071\_s\_at** | 1880.61 | MLLT11 |
| 204964\_s\_at | -1500.45 | SSPN | **226086\_at** | 1875.81 | SYT13 |
| 208002\_s\_at | 1493.10 | ACOT7 | **202395\_at** | 1874.33 | LOC101930324 /// NSF |
| 223708\_at | 1490.02 | C1QTNF4 | **232791\_at** | -1852.85 | --- |
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| 1555889\_a\_at | -1482.93 | CRTAP | **238466\_at** | 1845.09 | --- |
| 212383\_at | 1481.02 | ATP6V0A1 | **214924\_s\_at** | -1827.21 | TRAK1 |
| 202822\_at | -1479.30 | LPP | **207508\_at** | 1811.43 | ATP5G3 |
| 1554592\_a\_at | 1473.03 | SLC1A6 | **207507\_s\_at** | 1772.06 | ATP5G3 |
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| 1556940\_at | 1444.87 | LOC283484 | **214998\_at** | 1737.51 | AAK1 |
| 205751\_at | 1435.24 | SH3GL2 | **202947\_s\_at** | -1732.84 | GYPC |
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| 201714\_at | 1432.51 | TUBG1 | **202120\_x\_at** | 1719.37 | AP2S1 |
| 244647\_at | 1427.37 | WBP11 | **1553096\_s\_at** | -1709.14 | BCL2L11 |
| 229770\_at | 1425.82 | GLT1D1 | **204953\_at** | 1689.97 | SNAP91 |
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| 201387\_s\_at | 1419.42 | UCHL1 | **203020\_at** | -1679.72 | RABGAP1L |
| 202133\_at | -1417.18 | WWTR1 | **202927\_at** | 1678.85 | PIN1 |
| 214260\_at | 1411.17 | COPS8 | **200906\_s\_at** | -1668.35 | PALLD |
| 201962\_s\_at | 1408.40 | RNF41 | **203069\_at** | 1667.33 | SV2A |
| 208451\_s\_at | -1404.13 | C4A /// C4B /// C4B\_2 | **205348\_s\_at** | 1658.01 | DYNC1I1 |
| 207772\_s\_at | 1403.76 | PRMT8 | **224761\_at** | -1655.73 | GNA13 |
| 233036\_at | -1400.30 | --- | **201519\_at** | 1641.89 | TOMM70A |
| 202927\_at | 1399.03 | PIN1 | **214762\_at** | 1639.83 | ATP6V1G2 |
| 210108\_at | 1396.17 | CACNA1D | **213451\_x\_at** | -1636.32 | TNXA /// TNXB |
| 208457\_at | 1394.38 | GABRD | **208898\_at** | 1621.08 | ATP6V1D |
| 233337\_s\_at | 1389.22 | SEZ6L2 | **207593\_at** | 1613.40 | ABCG4 |
| 200907\_s\_at | -1387.24 | PALLD | **214722\_at** | -1602.86 | NOTCH2NL |
| 215143\_at | 1384.45 | DPY19L2P2 | **218477\_at** | -1587.64 | TMEM14A |
| 211679\_x\_at | 1382.08 | GABBR2 | **211615\_s\_at** | 1576.26 | LRPPRC |
| 212878\_s\_at | 1379.18 | KLC1 | **202486\_at** | 1572.92 | AFG3L2 |
| 203745\_at | 1377.26 | HCCS | **223239\_at** | 1565.23 | GSKIP |
| 207547\_s\_at | -1374.19 | FAM107A | **202132\_at** | -1551.40 | WWTR1 |
| 219208\_at | 1367.85 | FBXO11 | **207853\_s\_at** | 1532.88 | SNCB |
| 1564706\_s\_at | 1366.05 | GLS2 | **212508\_at** | 1521.30 | MOAP1 |
| 208308\_s\_at | 1363.62 | GPI | **203517\_at** | 1515.35 | MTX2 |
| 202947\_s\_at | -1363.04 | GYPC | **203723\_at** | -1513.18 | ITPKB |
| 244463\_at | 1362.38 | ADAM23 | **233036\_at** | -1503.43 | --- |
| 206046\_at | 1354.65 | ADAM23 | **224955\_at** | -1502.01 | TEAD1 |
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| 205531\_s\_at | 1343.15 | GLS2 | **213386\_at** | 1490.46 | TMEM246 |
| 223174\_at | 1340.77 | BTBD10 | **201387\_s\_at** | 1488.01 | UCHL1 |
| 217077\_s\_at | 1334.28 | GABBR2 | **226767\_s\_at** | 1480.03 | FAHD1 |
| 235253\_at | 1332.12 | RAD1 | **218163\_at** | 1477.12 | MCTS1 |
| 225781\_at | 1326.54 | MAPK9 | **214230\_at** | 1472.39 | CDC42 |
| 205257\_s\_at | 1325.90 | AMPH | **212291\_at** | -1465.79 | HIPK1 |
| 236465\_at | 1312.43 | RNF175 | **213366\_x\_at** | 1463.78 | ATP5C1 |
| 201938\_at | -1310.79 | CDK2AP1 | **202941\_at** | 1458.36 | NDUFV2 |
| 218720\_x\_at | 1305.01 | SEZ6L2 | **226470\_at** | 1452.20 | GGT7 |
| 214812\_s\_at | -1303.36 | MOB1A | **216056\_at** | -1449.74 | CD44 |
| 225817\_at | -1303.17 | CGNL1 /// LOC101930344 /// LOC101930349 | **226653\_at** | 1447.06 | MARK1 |
| 1555800\_at | 1301.58 | ZNF385B | **211887\_x\_at** | -1427.58 | MSR1 |
| 235066\_at | 1299.22 | MAP4 | **228297\_at** | -1425.41 | --- |
| 209991\_x\_at | 1298.78 | GABBR2 | **202016\_at** | 1420.61 | MEST |
| 211047\_x\_at | 1291.28 | AP2S1 | **222699\_s\_at** | -1408.45 | PLEKHF2 |
| 227669\_at | 1288.39 | MPC2 | **233888\_s\_at** | -1400.38 | SRGAP1 |
| 235852\_at | -1274.77 | STON2 | **206369\_s\_at** | -1398.95 | PIK3CG |
| 227444\_at | 1272.03 | ARMCX4 | **202078\_at** | 1398.84 | COPS3 |
| 202683\_s\_at | 1267.34 | RNMT | **214306\_at** | 1376.18 | OPA1 |
| 232688\_at | -1261.38 | BMP2K | **224811\_at** | -1371.96 | LPP |
| 1553096\_s\_at | -1260.14 | BCL2L11 | **210742\_at** | -1356.85 | CDC14A |
| 212041\_at | 1257.50 | ATP6V0D1 | **212383\_at** | 1349.15 | ATP6V0A1 |
| 208074\_s\_at | 1256.01 | AP2S1 | **1553211\_at** | -1335.22 | ANKFN1 |
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| 225111\_s\_at | 1251.72 | NAPB | **203685\_at** | -1318.40 | BCL2 |
| 232011\_s\_at | 1251.34 | MAP1LC3A | **204749\_at** | 1311.55 | NAP1L3 |
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| 223532\_at | 1248.37 | ANKRD39 | **202128\_at** | 1292.22 | AREL1 |
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| 219894\_at | 1237.79 | MAGEL2 | **212877\_at** | 1280.05 | KLC1 |
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| 213293\_s\_at | -1227.46 | TRIM22 | **225841\_at** | 1273.08 | HENMT1 |
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| 204953\_at | 1197.34 | SNAP91 | **203157\_s\_at** | 1212.14 | GLS |
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| 203396\_at | 465.34 | PSMA4 | **207842\_s\_at** | -183.70 | CASC3 /// MIR6866 |
| 236838\_at | 464.22 | SRCIN1 | **218300\_at** | 179.25 | PAGR1 |
| 217782\_s\_at | 464.06 | GPS1 | **213486\_at** | 178.30 | COPG2IT1 |
| 213720\_s\_at | 463.75 | SMARCA4 | **231763\_at** | 175.80 | POLR3A |
| 230137\_at | 457.39 | TMEM155 | **213720\_s\_at** | 175.71 | SMARCA4 |
| 239265\_at | 451.10 | SLC35G1 | **208999\_at** | -163.82 | SEPT8 |
| 226767\_s\_at | 445.67 | FAHD1 | **1554524\_a\_at** | -161.56 | OLFM3 |
| 212686\_at | 438.35 | PPM1H | **208430\_s\_at** | -153.98 | DTNA |
| 208752\_x\_at | -436.27 | NAP1L1 | **205230\_at** | -153.34 | RPH3A |
| 207984\_s\_at | 432.46 | MPP2 | **214436\_at** | -148.53 | FBXL2 |
| 219907\_at | 428.90 | FRS3 | **1557286\_at** | -144.32 | --- |
| 213366\_x\_at | 418.93 | ATP5C1 | **230137\_at** | -144.25 | TMEM155 |
| 218671\_s\_at | 416.88 | ATPIF1 | **233910\_at** | -142.07 | TMEFF2 |
| 215440\_s\_at | 407.31 | BEX4 | **212425\_at** | 141.58 | SCAMP1 |
| 206408\_at | 406.62 | LRRTM2 | **225779\_at** | -139.92 | SLC27A4 |
| 225485\_at | 401.23 | CEP41 | **204514\_at** | 137.69 | DPH2 |
| 238504\_at | 396.51 | C6orf57 | **222125\_s\_at** | -134.63 | P4HTM |
| 1559257\_a\_at | 393.65 | MAGI1 | **209796\_s\_at** | -131.07 | CNPY2 |
| 228109\_at | 385.75 | RASGRF2 | **218969\_at** | -127.54 | PAM16 |
| 219271\_at | 381.32 | GALNT14 | **229649\_at** | -126.30 | NRXN3 |
| 238115\_at | 380.56 | DNAJC18 | **218087\_s\_at** | 118.86 | SORBS1 |
| 201410\_at | 377.71 | PLEKHB2 | **208751\_at** | 117.27 | NAPA |
| 209444\_at | 377.47 | RAP1GDS1 | **214170\_x\_at** | -112.87 | FH |
| 210650\_s\_at | 374.17 | PCLO | **219659\_at** | -111.40 | ATP8A2 |
| 202961\_s\_at | 366.79 | ARMC2-AS1 /// ATP5J2 | **227455\_at** | 111.28 | C6orf136 |
| 203020\_at | 363.15 | RABGAP1L | **1554592\_a\_at** | 111.03 | SLC1A6 |
| 214306\_at | 356.44 | OPA1 | **204721\_s\_at** | 104.67 | DNAJC6 |
| 204514\_at | 354.13 | DPH2 | **227219\_x\_at** | 98.01 | MAP1LC3A |
| 203862\_s\_at | 352.47 | ACTN2 | **206046\_at** | 95.42 | ADAM23 |
| 218477\_at | 340.71 | TMEM14A | **201431\_s\_at** | 94.72 | DPYSL3 |
| 208678\_at | 335.38 | ATP6V1E1 | **221880\_s\_at** | -93.62 | FAM174B |
| 226154\_at | 312.59 | DNM1L | **231935\_at** | 92.22 | ARPP21 |
| 244739\_at | 302.38 | RDX | **226752\_at** | -89.86 | FAM174A |
| 209935\_at | 300.35 | ATP2C1 | **204365\_s\_at** | -85.40 | REEP1 |
| 226822\_at | 291.48 | STOX2 | **224869\_s\_at** | 84.45 | MRPS25 |
| 238466\_at | 284.75 | --- | **1556151\_at** | 84.07 | ITFG1 |
| 211072\_x\_at | 280.46 | TUBA1B | **1555800\_at** | 76.31 | ZNF385B |
| 201873\_s\_at | -267.17 | ABCE1 | **216903\_s\_at** | 73.47 | MICU1 |
| 231967\_at | 263.51 | PHF20L1 | **229925\_at** | -71.90 | SLC6A17 |
| 226813\_at | -251.62 | NTPCR | **244099\_at** | 66.20 | CACNG2 |
| 223518\_at | 250.71 | DFFA | **213149\_at** | 64.88 | DLAT |
| 225535\_s\_at | 239.31 | TIMM23 /// TIMM23B | **224913\_s\_at** | -61.54 | TIMM50 |
| 226752\_at | 239.07 | FAM174A | **203862\_s\_at** | 61.13 | ACTN2 |
| 209902\_at | 216.63 | ATR | **239935\_at** | 59.94 | MDGA2 |
| 238871\_at | 198.33 | MLLT4 | **219752\_at** | -51.13 | RASAL1 |
| 1554133\_at | -181.61 | RUFY2 | **244463\_at** | 46.62 | ADAM23 |
| 218760\_at | -177.18 | COQ6 | **227401\_at** | 41.56 | IL17D |
| 217942\_at | 174.33 | MRPS35 | **223461\_at** | 35.45 | TBC1D7 |
| 209589\_s\_at | -143.68 | EPHB2 | **219660\_s\_at** | 34.85 | ATP8A2 |
| 208845\_at | 142.16 | VDAC3 | **225719\_s\_at** | -34.74 | MRPL55 |
| 209796\_s\_at | 126.04 | CNPY2 | **236277\_at** | 24.56 | AF070581 |
| 219752\_at | 89.03 | RASAL1 | **209902\_at** | 23.57 | ATR |
| 213270\_at | -87.46 | MPP2 | **635\_s\_at** | 23.03 | PPP2R5B |
| 214170\_x\_at | 66.19 | FH | **215021\_s\_at** | 20.07 | NRXN3 |
| 241758\_at | 44.32 | NUP93 | **208451\_s\_at** | -16.22 | C4A /// C4B /// C4B\_2 |
| 204720\_s\_at | -10.99 | DNAJC6 | **213808\_at** | 13.17 | ADAM23 |
| 212072\_s\_at | 10.95 | CSNK2A1 | **218901\_at** | -10.09 | PLSCR4 |
| 203724\_s\_at | -6.01 | RUFY3 | **206343\_s\_at** | -3.26 | NRG1 |
| 1557820\_at | 0.02 | AFG3L2 | **238462\_at** | -3.05 | UBASH3B |