

| ProbeName | FC ([Tumor] vs [Normal]) | Log FC ([Tumor] vs [Normal]) | FC (abs) ([Tumor] vs [Normal]) | Regulation ([Tumor] vs [Normal]) | GeneSymbol | Chromosome Number_Avadis_ |
|------------------|--------------------------|------------------------------|--------------------------------|----------------------------------|------------|---------------------------|
| A_11_P052641 | 3.447695 | 1.7856321 | 3.447695 | up | DLA-DQB1 | chr12 |
| A_11_P0000015451 | 9.570811 | 3.2586412 | 9.570811 | up | GATM | chr30 |
| A_11_P0000030446 | 3.7579975 | 1.9099641 | 3.7579975 | up | | chr27 |
| A_11_P0000028827 | -5.5751257 | -2.4790044 | 5.5751257 | down | SHISA5 | chr20 |
| A_11_P0000014584 | -4.5315633 | -2.180009 | 4.5315633 | down | DEFB1 | chr16 |
| A_11_P0000019501 | 6.5731883 | 2.7165933 | 6.5731883 | up | GAL | chr18 |
| A_11_P069376 | -5.122228 | -2.3567715 | 5.122228 | down | | chr21 |
| A_11_P152618 | 6.983482 | 2.8039465 | 6.983482 | up | IGF2 | chr18 |
| A_11_P148368 | -301.61325 | -8.236556 | 301.61325 | down | MYL1 | chr37 |
| A_11_P060201 | -3.56325 | -1.8331938 | 3.56325 | down | | chr26 |
| A_11_P055696 | 3.0133958 | 1.5913901 | 3.0133958 | up | PBX1 | chr38 |
| A_11_P0000020106 | 3.8580215 | 1.9478612 | 3.8580215 | up | CCL8 | chr9 |
| A_11_P0000016202 | 3.5610027 | 1.8322835 | 3.5610027 | up | | chr27 |
| A_11_P107736 | -3.659825 | -1.8717747 | 3.659825 | down | GPR157 | chr5 |
| A_11_P050666 | 25.716404 | 4.684617 | 25.716404 | up | PTGS2 | chr7 |
| A_11_P0000023925 | -3.9012728 | -1.9639449 | 3.9012728 | down | ITPRID2 | chr36 |
| A_11_P0000033278 | 4.43172 | 2.1478667 | 4.43172 | up | LRRC8D | chr6 |
| A_11_P152143 | 3.605228 | 1.8500905 | 3.605228 | up | MLXIPL | chr6 |
| A_11_P077906 | 3.2211063 | 1.6875563 | 3.2211063 | up | RARRES2 | chr16 |
| A_11_P0000032442 | 3.5985363 | 1.8474102 | 3.5985363 | up | ESM1 | chr4 |
| A_11_P0000030339 | -3.5924044 | -1.8449497 | 3.5924044 | down | AMIGO2 | chr27 |
| A_11_P069586 | 3.0945308 | 1.6297207 | 3.0945308 | up | SERGEF | chr21 |
| A_11_P0000023492 | -3.5037951 | -1.8089185 | 3.5037951 | down | FBN1 | chr30 |
| A_11_P060506 | 4.9993286 | 2.3217344 | 4.9993286 | up | DEPDC5 | chr26 |
| A_11_P0000025269 | -8.140691 | -3.0251513 | 8.140691 | down | | chr8 |
| A_11_P0000019760 | 3.2131016 | 1.6839666 | 3.2131016 | up | SOD1 | chr31 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P062231 | 4.1660237 | 2.058671 | 4.1660237 | up | SECISBP2L | chr30 |
| A_11_P0000023370 | 4.7846513 | 2.2584138 | 4.7846513 | up | FABP3 | chr2 |
| A_11_P166633 | 106.04959 | 6.7285953 | 106.04959 | up | | chr20 |
| A_11_P201423 | 3.1962497 | 1.6763802 | 3.1962497 | up | DAB2 | chr4 |
| A_11_P109066 | -4.398503 | -2.1370125 | 4.398503 | down | CERS3 | chr3 |
| A_11_P0000038891 | 12.859754 | 3.684791 | 12.859754 | up | | chr33 |
| A_11_P169713 | 4.4888296 | 2.1663394 | 4.4888296 | up | | chr8 |
| A_11_P0000034661 | 3.237383 | 1.694828 | 3.237383 | up | ERAS | chrX |
| A_11_P0000020089 | -3.769082 | -1.9142132 | 3.769082 | down | KRT2 | chr27 |
| A_11_P082456 | 4.6313457 | 2.2114315 | 4.6313457 | up | CCL14 | chr9 |
| A_11_P0000019268 | -3.1294565 | -1.6459122 | 3.1294565 | down | | chr9 |
| A_11_P083011 | 3.3623586 | 1.7494736 | 3.3623586 | up | NSMF | chr9 |
| A_11_P0000025489 | -3.959319 | -1.9852524 | 3.959319 | down | CLIC3 | chr9 |
| A_11_P058311 | -4.3980813 | -2.1368742 | 4.3980813 | down | TMEM45A | chr33 |
| A_11_P140731 | -3.3706636 | -1.7530327 | 3.3706636 | down | LOC607776 | chrX |
| A_11_P0000031482 | -6.4245768 | -2.6836014 | 6.4245768 | down | CSTA | chr33 |
| A_11_P138501 | 6.00358 | 2.585823 | 6.00358 | up | | |
| A_11_P197573 | 6.274147 | 2.6494193 | 6.274147 | up | | chr9 |
| A_11_P183038 | 9.578944 | 3.2598667 | 9.578944 | up | GATM | chr30 |
| A_11_P164513 | 4.017981 | 2.0064707 | 4.017981 | up | TEX2 | chr9 |
| A_11_P0000019770 | -3.5674028 | -1.8348742 | 3.5674028 | down | TMEM47 | chrX |
| A_11_P197298 | -3.434881 | -1.7802601 | 3.434881 | down | | chr16 |
| A_11_P0000018997 | 3.1321657 | 1.6471605 | 3.1321657 | up | | chr5 |
| A_11_P0000029457 | -3.304939 | -1.7246237 | 3.304939 | down | ABHD5 | chr23 |
| A_11_P0000013221 | -3.000696 | -1.5852971 | 3.000696 | down | | chr17 |
| A_11_P0000014629 | 9.866458 | 3.3025322 | 9.866458 | up | | chr6 |
| A_11_P078161 | 3.0445597 | 1.6062336 | 3.0445597 | up | PLAT | chr16 |
| A_11_P0000039420 | -3.9072359 | -1.9661484 | 3.9072359 | down | | chr22 |

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|------------------|------------|------------|-----------|------|--------------|----------------|
| A_11_P0000022922 | -4.445522 | -2.1523528 | 4.445522 | down | | chr27 |
| A_11_P051016 | 5.3365993 | 2.4159207 | 5.3365993 | up | IL13RA2 | chrX |
| A_11_P149338 | -17.52139 | -4.1310453 | 17.52139 | down | PGAM2 | chrUn_JH373336 |
| A_11_P0000031571 | -3.8092659 | -1.929513 | 3.8092659 | down | LOC102152005 | chr34 |
| A_11_P0000024694 | -3.793746 | -1.9236231 | 3.793746 | down | AZGP1 | chr6 |
| A_11_P0000017392 | 5.9607024 | 2.5754824 | 5.9607024 | up | | chr2 |
| A_11_P192543 | 3.5271325 | 1.8184958 | 3.5271325 | up | APOE | chr1 |
| A_11_P0000016593 | 10.48474 | 3.3902192 | 10.48474 | up | TTYH1 | chr1 |
| A_11_P053416 | 3.4172409 | 1.7728319 | 3.4172409 | up | CXCL8 | chr13 |
| A_11_P0000031595 | -3.6216629 | -1.8566523 | 3.6216629 | down | PPM1L | chr34 |
| A_11_P0000024453 | -4.2216988 | -2.0778236 | 4.2216988 | down | ENO3 | chr5 |
| A_11_P000009106 | -5.978972 | -2.5798974 | 5.978972 | down | | chr13 |
| A_11_P0000024710 | -4.193389 | -2.0681167 | 4.193389 | down | LOC479761 | chr6 |
| A_11_P051251 | -5.625101 | -2.491879 | 5.625101 | down | KRT12 | chr9 |
| A_11_P110201 | -3.046587 | -1.607194 | 3.046587 | down | SERPINB5 | chr1 |
| A_11_P000006383 | -3.5277038 | -1.8187294 | 3.5277038 | down | | |
| A_11_P057906 | -4.8327546 | -2.2728457 | 4.8327546 | down | ABCA12 | chr37 |
| A_11_P0000034188 | 4.602566 | 2.2024384 | 4.602566 | up | DIPK1B | chr9 |
| A_11_P106336 | 63.90129 | 5.997773 | 63.90129 | up | MMP1 | chr5 |
| A_11_P0000029880 | 4.289849 | 2.1009269 | 4.289849 | up | HPGD | chr25 |
| A_11_P0000031934 | 4.9079294 | 2.2951145 | 4.9079294 | up | TGFB2 | chr38 |
| A_11_P0000039279 | -4.5239835 | -2.1775937 | 4.5239835 | down | LOC478001 | chr2 |
| A_11_P090541 | -4.9005527 | -2.2929444 | 4.9005527 | down | ENPP3 | chr12 |
| A_11_P107456 | 10.505858 | 3.3931222 | 10.505858 | up | TNFRSF18 | chr5 |
| A_11_P000004046 | 5.6061544 | 2.4870114 | 5.6061544 | up | | chr2 |
| A_11_P0000026463 | -3.8382983 | -1.9404669 | 3.8382983 | down | ELOVL4 | chr12 |
| A_11_P108001 | 9.248121 | 3.2091603 | 9.248121 | up | PLCG2 | chr5 |
| A_11_P0000030745 | -9.682277 | -3.2753463 | 9.682277 | down | BAMBI | chr2 |

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|------------------|------------|------------|-----------|------|--------|-------|
| A_11_P114506 | 3.0573077 | 1.6122618 | 3.0573077 | up | CASK | chrX |
| A_11_P149413 | -4.656392 | -2.2192125 | 4.656392 | down | | chr25 |
| A_11_P098171 | -5.1257067 | -2.357751 | 5.1257067 | down | | chr6 |
| A_11_P0000030608 | -5.814404 | -2.5396314 | 5.814404 | down | EMX2 | chr28 |
| A_11_P000003754 | 3.1972694 | 1.6768403 | 3.1972694 | up | | chr24 |
| A_11_P127286 | 3.173613 | 1.6661263 | 3.173613 | up | TP73 | chr5 |
| A_11_P0000032142 | -3.7934225 | -1.9235001 | 3.7934225 | down | KLF3 | chr3 |
| A_11_P098371 | -5.239756 | -2.3894997 | 5.239756 | down | CTH | chr6 |
| A_11_P056091 | 6.5540605 | 2.712389 | 6.5540605 | up | GMDS | chr35 |
| A_11_P0000014339 | 3.3284762 | 1.7348619 | 3.3284762 | up | SCD | chr28 |
| A_11_P213013 | -5.1285214 | -2.358543 | 5.1285214 | down | | chr12 |
| A_11_P064686 | 3.1618876 | 1.6607862 | 3.1618876 | up | SEMA5A | chr34 |
| A_11_P125021 | 3.013109 | 1.5912528 | 3.013109 | up | | chr4 |
| A_11_P0000039078 | -5.4061832 | -2.4346104 | 5.4061832 | down | | chr25 |
| A_11_P050096 | -3.0815747 | -1.6236677 | 3.0815747 | down | TMEM47 | chrX |
| A_11_P059826 | -5.0386205 | -2.3330288 | 5.0386205 | down | HCAR2 | chr26 |
| A_11_P0000020059 | 5.228935 | 2.386517 | 5.228935 | up | LAMC2 | chr7 |
| A_11_P0000029648 | 3.2453194 | 1.6983604 | 3.2453194 | up | CPXM1 | chr24 |
| A_11_P059271 | 3.7687619 | 1.9140906 | 3.7687619 | up | SNCA | chr32 |
| A_11_P0000034272 | 3.5589893 | 1.8314676 | 3.5589893 | up | NEK6 | chr9 |
| A_11_P0000014989 | 4.715133 | 2.2372985 | 4.715133 | up | CCL24 | chr6 |
| A_11_P121921 | 4.1266837 | 2.044983 | 4.1266837 | up | | chr18 |
| A_11_P073221 | 7.407935 | 2.8890715 | 7.407935 | up | RCN1 | chr18 |
| A_11_P081631 | -139.72263 | -7.126422 | 139.72263 | down | KRT33B | chr9 |
| A_11_P0000021557 | 5.839945 | 2.5459547 | 5.839945 | up | RCN1 | chr18 |
| A_11_P0000017935 | -3.0872223 | -1.6263094 | 3.0872223 | down | | chr28 |
| A_11_P069726 | -7.00087 | -2.8075342 | 7.00087 | down | MUC15 | chr21 |
| A_11_P190608 | 5.214779 | 2.382606 | 5.214779 | up | | chr4 |

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|------------------|------------|------------|-----------|------|----------|----------------|
| A_11_P0000033174 | -3.3669393 | -1.7514377 | 3.3669393 | down | ZSCAN10 | chr6 |
| A_11_P0000029369 | -10.999237 | -3.4593315 | 10.999237 | down | KCTD4 | chr22 |
| A_11_P0000026507 | 4.960091 | 2.3103666 | 4.960091 | up | BEND3 | chr12 |
| A_11_P051036 | 3.3035738 | 1.7240276 | 3.3035738 | up | EMR4 | chr20 |
| A_11_P056961 | -3.2754688 | -1.7117014 | 3.2754688 | down | DPP4 | chr36 |
| A_11_P072341 | -3.0410528 | -1.6045709 | 3.0410528 | down | TFCP2L1 | chr19 |
| A_11_P000002831 | 3.116518 | 1.639935 | 3.116518 | up | ABCA1 | chr11 |
| A_11_P065996 | -8.604939 | -3.105165 | 8.604939 | down | IRAG2 | chr27 |
| A_11_P0000017998 | 3.1197674 | 1.6414385 | 3.1197674 | up | | chr24 |
| A_11_P0000021828 | -3.0633392 | -1.6151052 | 3.0633392 | down | RSPO3 | chr1 |
| A_11_P105476 | 3.2763696 | 1.7120981 | 3.2763696 | up | | chr5 |
| A_11_P217703 | -44.04847 | -5.46102 | 44.04847 | down | PGAM2 | chrUn_JH373336 |
| A_11_P00000865 | -6.087069 | -2.6057477 | 6.087069 | down | CARM1 | chr20 |
| A_11_P0000027549 | 3.0677924 | 1.6172009 | 3.0677924 | up | EGFR | chr18 |
| A_11_P166853 | 8.063957 | 3.011488 | 8.063957 | up | | chr17 |
| A_11_P097641 | 4.8182616 | 2.2685127 | 4.8182616 | up | MSRB1 | chr6 |
| A_11_P0000024439 | -3.8440852 | -1.9426403 | 3.8440852 | down | GUCY1A2 | chr5 |
| A_11_P085986 | 5.8936143 | 2.5591526 | 5.8936143 | up | DUSP6 | chr15 |
| A_11_P079306 | 5.5652375 | 2.4764433 | 5.5652375 | up | ETV1 | chr14 |
| A_11_P0000026808 | -3.1782928 | -1.668252 | 3.1782928 | down | SOSTDC1 | chr14 |
| A_11_P0000021647 | -5.925424 | -2.5669184 | 5.925424 | down | SCGB1A1 | chr18 |
| A_11_P148363 | 4.1448092 | 2.0513058 | 4.1448092 | up | | chr9 |
| A_11_P0000033733 | -4.4202805 | -2.1441379 | 4.4202805 | down | DAAM1 | chr8 |
| A_11_P069791 | 5.202287 | 2.379146 | 5.202287 | up | MS4A7 | chr21 |
| A_11_P0000013643 | -3.2399166 | -1.6959567 | 3.2399166 | down | | chr20 |
| A_11_P179123 | 3.8895423 | 1.9596004 | 3.8895423 | up | | chr3 |
| A_11_P126726 | 5.2022686 | 2.3791409 | 5.2022686 | up | | chr1 |
| A_11_P107926 | -3.247987 | -1.6995459 | 3.247987 | down | KIAA0513 | chr5 |

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|------------------|------------|------------|-----------|------|----------|----------------|
| A_11_P0000020093 | -4.318693 | -2.1105947 | 4.318693 | down | KRT1 | chr27 |
| A_11_P0000031639 | 3.2921367 | 1.7190242 | 3.2921367 | up | GMDS | chr35 |
| A_11_P0000023795 | -3.1980727 | -1.6772027 | 3.1980727 | down | FETUB | chr34 |
| A_11_P097921 | -3.061747 | -1.6143551 | 3.061747 | down | ELAPOR1 | chr6 |
| A_11_P0000027165 | 4.896421 | 2.2917275 | 4.896421 | up | RAB19 | chr16 |
| A_11_P0000013647 | -3.0931044 | -1.6290555 | 3.0931044 | down | | |
| A_11_P071611 | -8.201933 | -3.035964 | 8.201933 | down | ACKR4 | chr23 |
| A_11_P158328 | 3.2255447 | 1.6895428 | 3.2255447 | up | ARHGEF28 | chr2 |
| A_11_P107871 | 3.6399565 | 1.8639212 | 3.6399565 | up | SLC7A5 | chr5 |
| A_11_P0000041102 | 3.6093915 | 1.8517556 | 3.6093915 | up | | chrUn_JH373316 |
| A_11_P0000034346 | -3.927569 | -1.9736366 | 3.927569 | down | LY6D | chrUn_JH373372 |
| A_11_P134501 | -4.2022977 | -2.0711784 | 4.2022977 | down | | chr12 |
| A_11_P059406 | -5.0833797 | -2.345788 | 5.0833797 | down | SLC39A8 | chr32 |
| A_11_P091771 | -3.6919847 | -1.8843966 | 3.6919847 | down | | chr12 |
| A_11_P0000034085 | -3.717208 | -1.8942194 | 3.717208 | down | DUSP14 | chr9 |
| A_11_P0000019114 | 3.0600595 | 1.6135597 | 3.0600595 | up | | chr5 |
| A_11_P0000038911 | -4.209674 | -2.0737085 | 4.209674 | down | | chr30 |
| A_11_P105456 | 32.304417 | 5.0136595 | 32.304417 | up | | chr5 |
| A_11_P122951 | 7.1339664 | 2.8347044 | 7.1339664 | up | DLC1 | chr16 |
| A_11_P051646 | 26.246683 | 4.714063 | 26.246683 | up | LYZF2 | chr27 |
| A_11_P190653 | 3.3627653 | 1.7496481 | 3.3627653 | up | | chr1 |
| A_11_P0000030776 | -4.472325 | -2.161025 | 4.472325 | down | NMT2 | chr2 |
| A_11_P0000033212 | 9.577216 | 3.2596064 | 9.577216 | up | GNG13 | chr6 |
| A_11_P000006343 | 20.175583 | 4.3345385 | 20.175583 | up | | chr18 |
| A_11_P0000031538 | -3.1787958 | -1.6684804 | 3.1787958 | down | TPPP | chr34 |
| A_11_P186938 | -3.3799365 | -1.7569962 | 3.3799365 | down | NIBAN1 | chr7 |
| A_11_P205298 | 8.991304 | 3.1685305 | 8.991304 | up | | chr15 |
| A_11_P0000024739 | -23.380247 | -4.5472183 | 23.380247 | down | ATP2A1 | chr6 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P173368 | 4.770208 | 2.2540522 | 4.770208 | up | | chr7 |
| A_11_P099136 | -4.1698613 | -2.0599995 | 4.1698613 | down | FMO2 | chr7 |
| A_11_P0000027350 | 4.736144 | 2.243713 | 4.736144 | up | CGREF1 | chr17 |
| A_11_P076161 | 3.2712526 | 1.7098432 | 3.2712526 | up | CRLF1 | chr20 |
| A_11_P0000015816 | -9.291794 | -3.2159572 | 9.291794 | down | | chr2 |
| A_11_P162053 | 4.1450615 | 2.0513935 | 4.1450615 | up | | chr16 |
| A_11_P170543 | -5.5520535 | -2.4730215 | 5.5520535 | down | | chr9 |
| A_11_P0000034446 | 6.1575804 | 2.6223636 | 6.1575804 | up | PDGFA | chr6 |
| A_11_P0000016626 | -4.8765616 | -2.2858644 | 4.8765616 | down | | chr28 |
| A_11_P174428 | -5.3797474 | -2.4275384 | 5.3797474 | down | | chr32 |
| A_11_P0000023949 | -7.177375 | -2.8434563 | 7.177375 | down | TMEFF2 | chr37 |
| A_11_P0000016911 | -6.4832954 | -2.6967273 | 6.4832954 | down | | chr26 |
| A_11_P172128 | 3.4948826 | 1.805244 | 3.4948826 | up | | chr16 |
| A_11_P052916 | -3.4736228 | -1.7964411 | 3.4736228 | down | DSG1 | chr7 |
| A_11_P064896 | 7.2562914 | 2.8592324 | 7.2562914 | up | CLCN2 | chr34 |
| A_11_P0000033068 | -3.4509509 | -1.786994 | 3.4509509 | down | PYCARD | chr6 |
| A_11_P0000016891 | -3.0281563 | -1.5984397 | 3.0281563 | down | | chrX |
| A_11_P174433 | -3.524677 | -1.817491 | 3.524677 | down | | chr22 |
| A_11_P0000031096 | -7.093715 | -2.8265414 | 7.093715 | down | | chr30 |
| A_11_P179173 | 3.35676 | 1.7470694 | 3.35676 | up | | chr9 |
| A_11_P085481 | -7.181962 | -2.844378 | 7.181962 | down | LOC475367 | chr15 |
| A_11_P0000041529 | 3.1194263 | 1.6412807 | 3.1194263 | up | ART3 | chr32 |
| A_11_P106346 | -5.7080636 | -2.5130014 | 5.7080636 | down | MMP7 | chr5 |
| A_11_P138641 | -64.89205 | -6.01997 | 64.89205 | down | | chr24 |
| A_11_P0000015158 | -3.2101922 | -1.6826596 | 3.2101922 | down | | |
| A_11_P0000019993 | 5.7951646 | 2.5348496 | 5.7951646 | up | ADORA1 | chr7 |
| A_11_P0000034181 | 5.202958 | 2.379332 | 5.202958 | up | | chr9 |
| A_11_P0000040120 | -5.889521 | -2.5581503 | 5.889521 | down | MARCHF3 | chr11 |

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|------------------|------------|------------|-----------|------|------------|-------|
| A_11_P115356 | 3.9602091 | 1.9855766 | 3.9602091 | up | | chrX |
| A_11_P000001229 | -3.8294005 | -1.9371185 | 3.8294005 | down | | |
| A_11_P00000115 | -4.1183257 | -2.042058 | 4.1183257 | down | VLDLR | chr1 |
| A_11_P0000015621 | -3.209252 | -1.6822371 | 3.209252 | down | | chr2 |
| A_11_P000009018 | -3.6892474 | -1.8833265 | 3.6892474 | down | | chr15 |
| A_11_P059411 | 3.6337047 | 1.8614411 | 3.6337047 | up | SLC9B1 | chr32 |
| A_11_P0000030927 | -3.604138 | -1.8496542 | 3.604138 | down | | chr2 |
| A_11_P0000022671 | -6.0181108 | -2.5893106 | 6.0181108 | down | POSTN | chr25 |
| A_11_P0000040801 | 3.33496 | 1.7376695 | 3.33496 | up | | chr17 |
| A_11_P0000020166 | 4.8205333 | 2.2691927 | 4.8205333 | up | CXCL10 | chr32 |
| A_11_P0000040669 | -3.160729 | -1.6602573 | 3.160729 | down | MYOM1 | chr7 |
| A_11_P0000029946 | -4.4468164 | -2.152773 | 4.4468164 | down | LOC486151 | chr25 |
| A_11_P128391 | -3.9591386 | -1.9851866 | 3.9591386 | down | | chr33 |
| A_11_P065446 | -8.652475 | -3.113113 | 8.652475 | down | KRT73 | chr27 |
| A_11_P0000025459 | -4.119671 | -2.042529 | 4.119671 | down | BLMH | chr9 |
| A_11_P0000020551 | -4.0479527 | -2.0171924 | 4.0479527 | down | DNAI1 | chr11 |
| A_11_P0000029161 | -4.8514924 | -2.2784286 | 4.8514924 | down | DLG2 | chr21 |
| A_11_P179698 | -3.9490664 | -1.9815116 | 3.9490664 | down | GALNT14 | chr17 |
| A_11_P0000030169 | 3.966817 | 1.9879818 | 3.966817 | up | GGT1 | chr26 |
| A_11_P0000030711 | -4.080989 | -2.0289187 | 4.080989 | down | MMP16 | chr29 |
| A_11_P160268 | -259.7931 | -8.021219 | 259.7931 | down | ACTA1 | chr4 |
| A_11_P128171 | 3.842411 | 1.9420118 | 3.842411 | up | ART3 | chr32 |
| A_11_P107911 | -3.1846535 | -1.6711364 | 3.1846535 | down | C5H16orf74 | chr5 |
| A_11_P085781 | -3.1222162 | -1.6425705 | 3.1222162 | down | RNASE4 | chr15 |
| A_11_P071681 | -3.4593046 | -1.790482 | 3.4593046 | down | IL20RB | chr23 |
| A_11_P0000028448 | -4.021393 | -2.0076952 | 4.021393 | down | KLK9 | chr1 |
| A_11_P089691 | -3.6569376 | -1.870636 | 3.6569376 | down | TCP11L2 | chr10 |
| A_11_P117651 | -8.820874 | -3.1409216 | 8.820874 | down | | chr14 |

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| A_11_P0000015569 | -5.351088 | -2.4198322 | 5.351088 | down | | |
| A_11_P188048 | 4.1343617 | 2.0476646 | 4.1343617 | up | | chr1 |
| A_11_P000002722 | -4.417089 | -2.143096 | 4.417089 | down | | |
| A_11_P0000031385 | 4.177893 | 2.0627756 | 4.177893 | up | DDIT4L | chr32 |
| A_11_P058316 | -4.1919312 | -2.067615 | 4.1919312 | down | ABI3BP | chr33 |
| A_11_P114961 | -3.191934 | -1.6744308 | 3.191934 | down | GDPD2 | chrX |
| A_11_P0000020054 | 3.6243405 | 1.8577185 | 3.6243405 | up | LGALS9 | chr9 |
| A_11_P137521 | 4.8524046 | 2.2786999 | 4.8524046 | up | | chr12 |
| A_11_P0000029111 | -9.088775 | -3.1840858 | 9.088775 | down | | chr20 |
| A_11_P090621 | -6.8722486 | -2.7807822 | 6.8722486 | down | CDSN | chr12 |
| A_11_P0000027376 | 14.830809 | 3.8905253 | 14.830809 | up | VIT | chr17 |
| A_11_P0000022713 | -4.697281 | -2.2318258 | 4.697281 | down | ATP12A | chr25 |
| A_11_P192353 | 3.4510262 | 1.7870255 | 3.4510262 | up | | chr18 |
| A_11_P111176 | 3.0687275 | 1.6176405 | 3.0687275 | up | TMEM200A | chr1 |
| A_11_P0000041309 | -10.777233 | -3.429915 | 10.777233 | down | | chr22 |
| A_11_P0000016374 | 10.565911 | 3.4013453 | 10.565911 | up | | chr20 |
| A_11_P098666 | 4.8091803 | 2.265791 | 4.8091803 | up | C4BPA | chr7 |
| A_11_P0000032909 | 4.128217 | 2.0455189 | 4.128217 | up | LOC489748 | chr5 |
| A_11_P129001 | -4.8757915 | -2.2856364 | 4.8757915 | down | | chr27 |
| A_11_P190123 | -306.9216 | -8.261726 | 306.9216 | down | ACTA1 | chr4 |
| A_11_P0000035026 | -6.4031973 | -2.6787925 | 6.4031973 | down | | chr9 |
| A_11_P000001298 | -3.580683 | -1.8402348 | 3.580683 | down | | chr28 |
| A_11_P0000017005 | -4.1955004 | -2.068843 | 4.1955004 | down | | chr6 |
| A_11_P190853 | 11.103931 | 3.4729986 | 11.103931 | up | | chr18 |
| A_11_P0000019712 | 3.0271957 | 1.5979819 | 3.0271957 | up | KLRA1 | chr27 |
| A_11_P052526 | -3.482 | -1.7999163 | 3.482 | down | QPCT | chr17 |
| A_11_P154608 | 5.9174976 | 2.5649872 | 5.9174976 | up | | chr20 |
| A_11_P120681 | -3.0631104 | -1.6149974 | 3.0631104 | down | | |

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| A_11_P125761 | -3.205583 | -1.6805868 | 3.205583 | down | | chr21 |
| A_11_P0000020149 | -3.6207426 | -1.8562856 | 3.6207426 | down | SLC5A1 | chr26 |
| A_11_P0000026702 | 13.659145 | 3.7717953 | 13.659145 | up | RASSF6 | chr13 |
| A_11_P218663 | 5.288434 | 2.4028406 | 5.288434 | up | BPI | chr24 |
| A_11_P0000031113 | -7.0045433 | -2.808291 | 7.0045433 | down | TGM5 | chr30 |
| A_11_P000008413 | 8.757493 | 3.130518 | 8.757493 | up | | chr1 |
| A_11_P097646 | -3.204059 | -1.6799006 | 3.204059 | down | | chr6 |
| A_11_P085686 | -3.3173254 | -1.7300205 | 3.3173254 | down | ELOVL1 | chr15 |
| A_11_P064971 | -5.12874 | -2.3586044 | 5.12874 | down | FETUB | chr34 |
| A_11_P000002439 | -3.1928658 | -1.6748519 | 3.1928658 | down | CREB5 | chr14 |
| A_11_P050991 | 10.143258 | 3.3424492 | 10.143258 | up | CEACAM23 | chr1 |
| A_11_P0000010694 | -3.0409713 | -1.6045322 | 3.0409713 | down | | chr6 |
| A_11_P097076 | -5.310216 | -2.4087706 | 5.310216 | down | | chr6 |
| A_11_P184733 | 10.594355 | 3.4052238 | 10.594355 | up | C1QC | chr2 |
| A_11_P0000023699 | -3.0783007 | -1.6221342 | 3.0783007 | down | ABI3BP | chr33 |
| A_11_P181433 | 25.88183 | 4.6938677 | 25.88183 | up | VIL1 | chr37 |
| A_11_P0000033981 | -10.509822 | -3.3936663 | 10.509822 | down | KRT25 | chr9 |
| A_11_P109361 | -5.624822 | -2.4918075 | 5.624822 | down | ADAMTSL3 | chr3 |
| A_11_P0000021165 | 6.8594747 | 2.778098 | 6.8594747 | up | MYL7 | chrUn_JH373316 |
| A_11_P072816 | -4.7361484 | -2.2437143 | 4.7361484 | down | SLC26A4 | chr18 |
| A_11_P0000031495 | -3.1801138 | -1.6690784 | 3.1801138 | down | MUC4 | chr33 |
| A_11_P076936 | 111.69483 | 6.8034186 | 111.69483 | up | C3 | chr20 |
| A_11_P127291 | -7.7001 | -2.9448771 | 7.7001 | down | | chr10 |
| A_11_P0000038822 | -3.7305229 | -1.8993778 | 3.7305229 | down | | chr10 |
| A_11_P000001058 | 11.631641 | 3.5399828 | 11.631641 | up | LOC609288 | chr18 |
| A_11_P0000020370 | -3.9015758 | -1.964057 | 3.9015758 | down | APOL5 | chr10 |
| A_11_P0000019508 | 4.917152 | 2.297823 | 4.917152 | up | ICAM1 | chr20 |
| A_11_P0000034630 | 5.653168 | 2.4990597 | 5.653168 | up | | chrX |

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| A_11_P136836 | -218.69893 | -7.7728024 | 218.69893 | down | ACTA1 | chr4 |
| A_11_P0000025622 | -3.1925387 | -1.6747041 | 3.1925387 | down | ASB9 | chrX |
| A_11_P0000020211 | 4.509433 | 2.172946 | 4.509433 | up | SLC11A1 | chr37 |
| A_11_P0000020727 | -3.2256682 | -1.6895981 | 3.2256682 | down | FAM135A | chr12 |
| A_11_P0000025508 | 3.4186065 | 1.7734084 | 3.4186065 | up | AK8 | chr9 |
| A_11_P107976 | 7.1759706 | 2.843174 | 7.1759706 | up | CDH13 | chr5 |
| A_11_P0000019808 | -4.673485 | -2.2244987 | 4.673485 | down | CES1 | chr2 |
| A_11_P0000021114 | -3.5951397 | -1.8460479 | 3.5951397 | down | | chr15 |
| A_11_P172678 | 3.0107236 | 1.5901103 | 3.0107236 | up | | chr7 |
| A_11_P120536 | 7.0943084 | 2.826662 | 7.0943084 | up | | chr15 |
| A_11_P200833 | 4.158775 | 2.0561585 | 4.158775 | up | | chr5 |
| A_11_P183733 | -10.412153 | -3.3801966 | 10.412153 | down | HSD17B14 | chr1 |
| A_11_P104036 | 4.267684 | 2.0934534 | 4.267684 | up | RHO | chr4 |
| A_11_P0000033970 | -10.620425 | -3.4087696 | 10.620425 | down | KRT35 | chr9 |
| A_11_P081046 | -3.5966659 | -1.8466601 | 3.5966659 | down | MAPT | chr9 |
| A_11_P000008526 | 3.2837732 | 1.7153544 | 3.2837732 | up | | chr1 |
| A_11_P166993 | 6.2034526 | 2.6330714 | 6.2034526 | up | | chr15 |
| A_11_P181438 | 3.3924134 | 1.7623119 | 3.3924134 | up | PAX6 | |
| A_11_P00000285 | 3.2342248 | 1.6934199 | 3.2342248 | up | CHRD2 | chr21 |
| A_11_P069706 | 3.428672 | 1.7776499 | 3.428672 | up | UBE2D3 | chr32 |
| A_11_P0000022561 | -5.2589836 | -2.394784 | 5.2589836 | down | | chrUn_JH373528 |
| A_11_P123486 | 33.036064 | 5.04597 | 33.036064 | up | | chr12 |
| A_11_P053541 | 3.6170883 | 1.8548288 | 3.6170883 | up | BPI | chr24 |
| A_11_P123306 | 4.215094 | 2.0755649 | 4.215094 | up | | chr30 |
| A_11_P153108 | 3.180857 | 1.6694155 | 3.180857 | up | APOE | chr1 |
| A_11_P0000025428 | -4.543219 | -2.1837149 | 4.543219 | down | LOC480601 | chr9 |
| A_11_P0000014995 | -3.809898 | -1.9297523 | 3.809898 | down | | chr5 |
| A_11_P0000028130 | -7.1981096 | -2.847618 | 7.1981096 | down | | chr1 |

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|------------------|------------|------------|-----------|------|--------------|-------|
| A_11_P0000041951 | 3.530594 | 1.819911 | 3.530594 | up | | chr9 |
| A_11_P0000021954 | -80.0981 | -6.323696 | 80.0981 | down | CKM | chr1 |
| A_11_P111316 | 5.0565414 | 2.338151 | 5.0565414 | up | NTRK2 | chr1 |
| A_11_P0000028602 | -3.0029204 | -1.5863662 | 3.0029204 | down | FBXO27 | chr1 |
| A_11_P122596 | -6.885465 | -2.783554 | 6.885465 | down | LMOD2 | chr14 |
| A_11_P0000014853 | 3.112202 | 1.6379356 | 3.112202 | up | | chr11 |
| A_11_P0000019730 | 4.2594585 | 2.09067 | 4.2594585 | up | GNB3 | chr27 |
| A_11_P0000021155 | -3.3711784 | -1.753253 | 3.3711784 | down | FNIP2 | chr15 |
| A_11_P169683 | -3.657658 | -1.8709202 | 3.657658 | down | CHL1 | chr20 |
| A_11_P112481 | 3.006248 | 1.587964 | 3.006248 | up | LOC484343 | chr1 |
| A_11_P176058 | -3.4880729 | -1.8024302 | 3.4880729 | down | SERPINB5 | chr1 |
| A_11_P0000034802 | -3.1692305 | -1.6641326 | 3.1692305 | down | CHRD1 | chrX |
| A_11_P0000018029 | -3.0203786 | -1.5947294 | 3.0203786 | down | | chr27 |
| A_11_P102366 | 5.5348215 | 2.4685369 | 5.5348215 | up | PPP2R2B | chr2 |
| A_11_P054946 | 3.8462229 | 1.9434423 | 3.8462229 | up | FCER1G | chr38 |
| A_11_P176748 | -3.1523294 | -1.6564183 | 3.1523294 | down | | chr23 |
| A_11_P102396 | -6.023458 | -2.590592 | 6.023458 | down | C2H5orf46 | chr2 |
| A_11_P0000019976 | -3.9310703 | -1.9749222 | 3.9310703 | down | KLK1 | chr1 |
| A_11_P0000016394 | 14.744006 | 3.8820567 | 14.744006 | up | | chr28 |
| A_11_P0000038750 | -7.2520766 | -2.8583941 | 7.2520766 | down | | chr8 |
| A_11_P0000038820 | -6.198667 | -2.631958 | 6.198667 | down | | chr11 |
| A_11_P113191 | -3.3315303 | -1.7361851 | 3.3315303 | down | PINLYP | chr1 |
| A_11_P0000010651 | 3.767535 | 1.913621 | 3.767535 | up | | chr24 |
| A_11_P125391 | -13.881069 | -3.7950468 | 13.881069 | down | LOC100683419 | chr17 |
| A_11_P0000038858 | -4.312465 | -2.1085129 | 4.312465 | down | | chr26 |
| A_11_P0000028907 | -5.1679454 | -2.3695908 | 5.1679454 | down | EPHX3 | chr20 |
| A_11_P0000033275 | 4.239189 | 2.0837884 | 4.239189 | up | TGFBR3 | chr6 |
| A_11_P143073 | 34.574654 | 5.111643 | 34.574654 | up | APOC1 | chr1 |

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| A_11_P155918 | -4.4508634 | -2.1540852 | 4.4508634 | down | | chr9 |
| A_11_P0000013960 | 3.8018498 | 1.9267015 | 3.8018498 | up | C3H4orf48 | chr3 |
| A_11_P0000040386 | 28.253689 | 4.8203673 | 28.253689 | up | | chr23 |
| A_11_P0000015369 | -4.0997877 | -2.0355492 | 4.0997877 | down | NMT2 | chr2 |
| A_11_P117041 | 4.816434 | 2.2679653 | 4.816434 | up | | chr17 |
| A_11_P0000020204 | 14.317838 | 3.8397417 | 14.317838 | up | PLP1 | chrX |
| A_11_P0000040377 | -4.4973345 | -2.1690702 | 4.4973345 | down | | chr3 |
| A_11_P000005569 | -6.164671 | -2.624024 | 6.164671 | down | | chr37 |
| A_11_P0000024014 | -3.0771055 | -1.6215739 | 3.0771055 | down | WDFY1 | chr37 |
| A_11_P0000020109 | -5.5387616 | -2.4695635 | 5.5387616 | down | CCL21 | chr11 |
| A_11_P143758 | 3.9293194 | 1.9742794 | 3.9293194 | up | SAA1 | chr21 |
| A_11_P169198 | 4.6927714 | 2.2304401 | 4.6927714 | up | | chr10 |
| A_11_P164213 | 3.4017067 | 1.7662587 | 3.4017067 | up | | chr8 |
| A_11_P0000026054 | -4.87785 | -2.2862453 | 4.87785 | down | | chr10 |
| A_11_P062681 | -3.440528 | -1.78263 | 3.440528 | down | PAQR5 | chr30 |
| A_11_P174863 | 3.0826688 | 1.6241798 | 3.0826688 | up | | chr6 |
| A_11_P116486 | -4.1783447 | -2.0629315 | 4.1783447 | down | KHDRBS3 | chr13 |
| A_11_P0000024871 | 4.430734 | 2.1475458 | 4.430734 | up | BCAR3 | chr6 |
| A_11_P070001 | -5.035582 | -2.3321586 | 5.035582 | down | MEDAG | chr25 |
| A_11_P088751 | -5.205996 | -2.3801742 | 5.205996 | down | MYRFL | chr10 |
| A_11_P00000760 | -7.556781 | -2.9177718 | 7.556781 | down | | chr37 |
| A_11_P082721 | 4.3683243 | 2.12708 | 4.3683243 | up | ABHD15 | chr9 |
| A_11_P0000031268 | -82.184074 | -6.360787 | 82.184074 | down | KRTAP11-1 | chr31 |
| A_11_P0000026057 | 5.203742 | 2.3795495 | 5.203742 | up | | chr10 |
| A_11_P0000029552 | -4.276481 | -2.096424 | 4.276481 | down | ESYT3 | chr23 |
| A_11_P058851 | -3.0956674 | -1.6302505 | 3.0956674 | down | FBXO45 | chr33 |
| A_11_P102986 | -3.8521895 | -1.9456787 | 3.8521895 | down | TMEM54 | chr2 |
| A_11_P0000024032 | -4.5596495 | -2.188923 | 4.5596495 | down | CFH | chr38 |

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| A_11_P050916 | -4.6213546 | -2.2083158 | 4.6213546 | down | ANGPT2 | chr16 |
| A_11_P073931 | 8.999501 | 3.169845 | 8.999501 | up | IGF2 | chr18 |
| A_11_P111001 | -3.2103949 | -1.6827507 | 3.2103949 | down | FAM162B | chr1 |
| A_11_P0000013744 | 3.1345248 | 1.6482468 | 3.1345248 | up | | chr11 |
| A_11_P066811 | -3.5753884 | -1.8381 | 3.5753884 | down | SPTLC3 | chr24 |
| A_11_P0000031274 | 3.3672786 | 1.7515831 | 3.3672786 | up | | chr31 |
| A_11_P0000014985 | -3.3632154 | -1.7498412 | 3.3632154 | down | RAPGEF4 | chr36 |
| A_11_P123291 | 4.5838637 | 2.1965642 | 4.5838637 | up | C4BPA | chr7 |
| A_11_P051256 | 3.366722 | 1.7513447 | 3.366722 | up | LGALS9 | chr9 |
| A_11_P0000023928 | 3.9866087 | 1.995162 | 3.9866087 | up | FRZB | chr36 |
| A_11_P0000020738 | -3.9124076 | -1.9680567 | 3.9124076 | down | SH3BGRL2 | chr12 |
| A_11_P163053 | -3.3420496 | -1.7407331 | 3.3420496 | down | | chr25 |
| A_11_P121006 | 4.50063 | 2.170127 | 4.50063 | up | | chr18 |
| A_11_P102926 | 3.26479 | 1.7069902 | 3.26479 | up | | chr2 |
| A_11_P0000039403 | 15.002993 | 3.9071784 | 15.002993 | up | | chr10 |
| A_11_P159268 | -3.307435 | -1.7257128 | 3.307435 | down | | chr5 |
| A_11_P084951 | -3.038542 | -1.6033792 | 3.038542 | down | | chr15 |
| A_11_P051101 | 4.177574 | 2.0626655 | 4.177574 | up | KLRD1 | chr27 |
| A_11_P076996 | -6.0989666 | -2.6085649 | 6.0989666 | down | ACER1 | chr20 |
| A_11_P0000027695 | 4.8497686 | 2.277916 | 4.8497686 | up | B4GALNT4 | chr18 |
| A_11_P088026 | -3.3590462 | -1.7480516 | 3.3590462 | down | HJV | chr17 |
| A_11_P0000018738 | 3.3104272 | 1.7270174 | 3.3104272 | up | | chr12 |
| A_11_P0000031372 | -10.031362 | -3.3264456 | 10.031362 | down | MMRN1 | chr32 |
| A_11_P084936 | -3.321209 | -1.7317085 | 3.321209 | down | EREG | chr13 |
| A_11_P0000016871 | 6.4745884 | 2.6947885 | 6.4745884 | up | TCEAL5 | chrX |
| A_11_P140476 | 3.2878642 | 1.7171507 | 3.2878642 | up | IFGGB1 | chr11 |
| A_11_P0000027369 | -5.1082172 | -2.35282 | 5.1082172 | down | GALNT14 | chr17 |
| A_11_P0000011111 | -3.949885 | -1.9818106 | 3.949885 | down | | chr37 |

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|------------------|------------|------------|-----------|------|---------|-------|
| A_11_P112546 | -4.3357124 | -2.116269 | 4.3357124 | down | KLK10 | chr1 |
| A_11_P088276 | -12.101529 | -3.5971174 | 12.101529 | down | TCHH | chr17 |
| A_11_P0000040883 | -4.9264894 | -2.30056 | 4.9264894 | down | | chr3 |
| A_11_P199318 | -3.5545657 | -1.8296733 | 3.5545657 | down | | chr5 |
| A_11_P050701 | 3.6588356 | 1.8713846 | 3.6588356 | up | OAS2 | chr26 |
| A_11_P0000025225 | 3.7173812 | 1.8942866 | 3.7173812 | up | PLEKHH1 | chr8 |
| A_11_P196633 | 3.4826722 | 1.8001947 | 3.4826722 | up | COL12A1 | chr12 |
| A_11_P153288 | 3.7136025 | 1.8928194 | 3.7136025 | up | | chr22 |
| A_11_P0000028716 | -4.9134545 | -2.2967377 | 4.9134545 | down | TRH | chr20 |
| A_11_P190213 | 3.7127779 | 1.892499 | 3.7127779 | up | | chr20 |
| A_11_P0000019743 | -3.8708158 | -1.9526377 | 3.8708158 | down | RHBG | chr7 |
| A_11_P0000040346 | 6.3965573 | 2.6772957 | 6.3965573 | up | | chr10 |
| A_11_P154853 | 8.376099 | 3.0662785 | 8.376099 | up | | chr38 |
| A_11_P0000016622 | -3.1274672 | -1.6449947 | 3.1274672 | down | | chr3 |
| A_11_P050886 | 4.1246943 | 2.0442872 | 4.1246943 | up | MMP3 | chr5 |
| A_11_P0000016966 | -3.6769633 | -1.8785148 | 3.6769633 | down | | chr36 |
| A_11_P165173 | 18.163834 | 4.1829967 | 18.163834 | up | CIDEA | chr7 |
| A_11_P175003 | 27.944584 | 4.804497 | 27.944584 | up | | chr7 |
| A_11_P0000033360 | -4.522242 | -2.1770382 | 4.522242 | down | YOD1 | chr7 |
| A_11_P189053 | -63.10131 | -5.979598 | 63.10131 | down | | chr24 |
| A_11_P114341 | 8.92452 | 3.1577744 | 8.92452 | up | DMD | chrX |
| A_11_P0000011863 | 3.5775907 | 1.8389883 | 3.5775907 | up | | chr33 |
| A_11_P099226 | -5.4805236 | -2.4543138 | 5.4805236 | down | | chr7 |
| A_11_P057301 | -3.043954 | -1.6059465 | 3.043954 | down | ITPRID2 | chr36 |
| A_11_P0000016349 | -3.1995676 | -1.677877 | 3.1995676 | down | SLC13A2 | chr9 |
| A_11_P000005639 | 5.036676 | 2.3324718 | 5.036676 | up | | chr15 |
| A_11_P056906 | -5.322868 | -2.4122038 | 5.322868 | down | DAPL1 | chr36 |
| A_11_P0000026535 | 4.2128267 | 2.0747886 | 4.2128267 | up | OSR2 | chr13 |

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|------------------|------------|------------|-----------|------|-----------|----------------|
| A_11_P0000019718 | -4.4068074 | -2.1397338 | 4.4068074 | down | TFF1 | chr31 |
| A_11_P0000019869 | -25.463228 | -4.6703434 | 25.463228 | down | MT4 | chr2 |
| A_11_P0000025605 | 3.316522 | 1.729671 | 3.316522 | up | FN3K | chrUn_JH373243 |
| A_11_P0000033972 | -13.01028 | -3.70158 | 13.01028 | down | KRT31 | chr9 |
| A_11_P210773 | -4.4897184 | -2.166625 | 4.4897184 | down | | chr1 |
| A_11_P0000016551 | -3.9176352 | -1.9699831 | 3.9176352 | down | | chr33 |
| A_11_P0000023452 | 3.5104442 | 1.8116536 | 3.5104442 | up | SCG5 | chr30 |
| A_11_P093771 | -8.804158 | -3.138185 | 8.804158 | down | SERPINA9 | chr8 |
| A_11_P0000018275 | 4.841436 | 2.275435 | 4.841436 | up | | chr34 |
| A_11_P126391 | 17.658607 | 4.1422997 | 17.658607 | up | VIT | chr17 |
| A_11_P194538 | 9.236208 | 3.2073007 | 9.236208 | up | STC1 | chr25 |
| A_11_P0000039633 | -10.097679 | -3.3359518 | 10.097679 | down | | chr5 |
| A_11_P138311 | 3.5414562 | 1.8243427 | 3.5414562 | up | | chr24 |
| A_11_P00000977 | 8.401038 | 3.0705676 | 8.401038 | up | CDH13 | chr5 |
| A_11_P155233 | 3.437192 | 1.7812304 | 3.437192 | up | | chr14 |
| A_11_P0000016126 | 4.1916943 | 2.0675335 | 4.1916943 | up | | chr20 |
| A_11_P073018 | 3.1929681 | 1.6748981 | 3.1929681 | up | | chr18 |
| A_11_P0000024108 | 10.379954 | 3.3757281 | 10.379954 | up | AP3B2 | chr3 |
| A_11_P0000039747 | 5.792447 | 2.534173 | 5.792447 | up | | chr3 |
| A_11_P0000031685 | -3.1820042 | -1.6699357 | 3.1820042 | down | | chr35 |
| A_11_P107731 | 5.652664 | 2.498931 | 5.652664 | up | LOC489640 | chr5 |
| A_11_P198223 | -6.9270296 | -2.7922368 | 6.9270296 | down | POSTN | chr25 |
| A_11_P000006271 | 5.808755 | 2.538229 | 5.808755 | up | | chr4 |
| A_11_P0000016684 | -5.078582 | -2.3444257 | 5.078582 | down | | chrX |
| A_11_P0000014179 | -20.567673 | -4.3623066 | 20.567673 | down | | chrUn_JH373728 |
| A_11_P0000026598 | -5.3809547 | -2.4278622 | 5.3809547 | down | SLURP1 | chr13 |
| A_11_P0000025321 | 3.8365405 | 1.939806 | 3.8365405 | up | LIMD2 | chr9 |
| A_11_P182663 | -3.7476082 | -1.9059701 | 3.7476082 | down | RBP4 | chr28 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P187508 | 3.8995984 | 1.9633255 | 3.8995984 | up | RPSA | chr23 |
| A_11_P143123 | -29.158907 | -4.8658648 | 29.158907 | down | | chr24 |
| A_11_P160483 | -482.80746 | -8.915304 | 482.80746 | down | MYL1 | chr37 |
| A_11_P0000021233 | 3.9639976 | 1.9869561 | 3.9639976 | up | FGFR1 | chr16 |
| A_11_P145193 | -3.8686619 | -1.9518347 | 3.8686619 | down | DUSP14 | chr9 |
| A_11_P0000032500 | -3.4906447 | -1.8034935 | 3.4906447 | down | BARX2 | chr5 |
| A_11_P0000032082 | 3.657044 | 1.870678 | 3.657044 | up | BCL2A1 | chr3 |
| A_11_P084836 | -3.2296646 | -1.6913843 | 3.2296646 | down | | chr13 |
| A_11_P0000020102 | 3.6840968 | 1.8813109 | 3.6840968 | up | CCL3 | chr9 |
| A_11_P197508 | -3.2664416 | -1.7077198 | 3.2664416 | down | | chr11 |
| A_11_P0000027663 | 3.1677716 | 1.6634684 | 3.1677716 | up | SLC38A10 | chr9 |
| A_11_P00000112 | -3.157101 | -1.6586003 | 3.157101 | down | KANK1 | chr1 |
| A_11_P200538 | -3.1436074 | -1.652421 | 3.1436074 | down | EMP1 | chr27 |
| A_11_P069326 | 3.427487 | 1.7771511 | 3.427487 | up | ZNF215 | chr21 |
| A_11_P0000040384 | -8.234599 | -3.0416985 | 8.234599 | down | | chr28 |
| A_11_P0000016647 | -4.03006 | -2.0108013 | 4.03006 | down | | chrX |
| A_11_P051981 | 3.2707682 | 1.7096295 | 3.2707682 | up | CP | chr23 |
| A_11_P0000039717 | -3.0987763 | -1.6316986 | 3.0987763 | down | | chr36 |
| A_11_P150868 | -6.8615584 | -2.7785363 | 6.8615584 | down | | chr2 |
| A_11_P000004647 | -13.096104 | -3.7110658 | 13.096104 | down | | |
| A_11_P131441 | -8.250643 | -3.0445065 | 8.250643 | down | SNX29 | chr6 |
| A_11_P176223 | 9.493723 | 3.246974 | 9.493723 | up | | chr6 |
| A_11_P0000021904 | 3.169812 | 1.6643972 | 3.169812 | up | TMEM190 | chr1 |
| A_11_P0000020374 | -4.1446285 | -2.0512428 | 4.1446285 | down | BPIFC | chr10 |
| A_11_P0000023718 | -6.464959 | -2.6926413 | 6.464959 | down | CCDC80 | chr33 |
| A_11_P181593 | 3.3572083 | 1.747262 | 3.3572083 | up | LOC607937 | chr8 |
| A_11_P157538 | -9.874153 | -3.303657 | 9.874153 | down | EHD2 | chr1 |
| A_11_P053163 | -3.4311128 | -1.7786765 | 3.4311128 | down | VNN1 | chr1 |

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| A_11_P0000026751 | -11.937425 | -3.5774198 | 11.937425 | down | CPA4 | chr14 |
| A_11_P199403 | -58.018356 | -5.8584375 | 58.018356 | down | | chr24 |
| A_11_P0000034261 | -8.094787 | -3.016993 | 8.094787 | down | TTC16 | chr9 |
| A_11_P081236 | -3.9559717 | -1.9840322 | 3.9559717 | down | SLC16A6 | chr9 |
| A_11_P0000033039 | -3.6293032 | -1.8596926 | 3.6293032 | down | TMEM184A | chr6 |
| A_11_P0000016413 | -3.7075698 | -1.8904738 | 3.7075698 | down | GNMT | chr12 |
| A_11_P0000021261 | -3.4666631 | -1.7935476 | 3.4666631 | down | FGL1 | chr16 |
| A_11_P079491 | -4.3066597 | -2.1065693 | 4.3066597 | down | HOXA6 | chr14 |
| A_11_P148198 | 9.155062 | 3.1945696 | 9.155062 | up | | chr4 |
| A_11_P153818 | 3.3650923 | 1.7506461 | 3.3650923 | up | CASK | chrX |
| A_11_P145218 | -24.787777 | -4.631557 | 24.787777 | down | | chr6 |
| A_11_P153483 | 4.713377 | 2.236761 | 4.713377 | up | | chr18 |
| A_11_P185718 | 4.520798 | 2.1765776 | 4.520798 | up | | chr33 |
| A_11_P149703 | -3.2381973 | -1.6951909 | 3.2381973 | down | | chr2 |
| A_11_P0000018507 | -4.649536 | -2.2170868 | 4.649536 | down | | chr20 |
| A_11_P0000024240 | 5.014421 | 2.3260832 | 5.014421 | up | RHOU | chr4 |
| A_11_P143313 | -4.913055 | -2.2966204 | 4.913055 | down | ACTA1 | chr4 |
| A_11_P0000020676 | -3.2168717 | -1.6856585 | 3.2168717 | down | | chr12 |
| A_11_P0000015138 | -4.7283826 | -2.2413468 | 4.7283826 | down | | chr24 |
| A_11_P0000030654 | -3.4544156 | -1.7884417 | 3.4544156 | down | CA8 | chr29 |
| A_11_P0000026523 | -4.1241584 | -2.0440998 | 4.1241584 | down | RFPL4B | chr12 |
| A_11_P106986 | 3.951248 | 1.9823084 | 3.951248 | up | ALDH3A2 | chr5 |
| A_11_P0000021306 | -4.114934 | -2.0408692 | 4.114934 | down | CYRIA | chr17 |
| A_11_P0000021115 | -7.870346 | -2.976427 | 7.870346 | down | HAL | chr15 |
| A_11_P127736 | -6.61922 | -2.7266612 | 6.61922 | down | MYOZ1 | chr4 |
| A_11_P088306 | -27.811907 | -4.797631 | 27.811907 | down | PRR9 | chr17 |
| A_11_P144693 | -5.1731267 | -2.3710365 | 5.1731267 | down | ACTA1 | chr4 |
| A_11_P0000040479 | -5.1447554 | -2.3631024 | 5.1447554 | down | | chr13 |

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| A_11_P066316 | 3.5009823 | 1.8077598 | 3.5009823 | up | RIMKLB | chr27 |
| A_11_P201098 | -8.177176 | -3.0316029 | 8.177176 | down | TPM1 | chr30 |
| A_11_P204798 | 3.6994994 | 1.88733 | 3.6994994 | up | | chr9 |
| A_11_P090946 | -5.436086 | -2.4425683 | 5.436086 | down | SPDEF | chr12 |
| A_11_P0000037144 | -3.3282583 | -1.7347674 | 3.3282583 | down | RASD2 | chr10 |
| A_11_P000004032 | -5.3748116 | -2.4262142 | 5.3748116 | down | | chr32 |
| A_11_P0000014216 | -4.037685 | -2.0135283 | 4.037685 | down | | chr16 |
| A_11_P088376 | 3.0460513 | 1.6069403 | 3.0460513 | up | C17H1orf162 | chr17 |
| A_11_P0000041364 | 5.2590756 | 2.3948092 | 5.2590756 | up | | chr18 |
| A_11_P0000024275 | -10.50549 | -3.3930717 | 10.50549 | down | MYOZ1 | chr4 |
| A_11_P148283 | 4.643864 | 2.2153258 | 4.643864 | up | | chr1 |
| A_11_P088516 | -3.5970747 | -1.8468242 | 3.5970747 | down | RDH16 | chr10 |
| A_11_P0000017318 | -3.7475362 | -1.9059424 | 3.7475362 | down | | chrX |
| A_11_P190678 | 5.567843 | 2.4771185 | 5.567843 | up | FRMD4A | chr2 |
| A_11_P0000030235 | 3.350629 | 1.744432 | 3.350629 | up | LIPA | chr26 |
| A_11_P0000040953 | 7.463068 | 2.8997688 | 7.463068 | up | | chr12 |
| A_11_P181188 | -59.00588 | -5.8827868 | 59.00588 | down | | chr24 |
| A_11_P051156 | -6.183075 | -2.6283245 | 6.183075 | down | PTGS1 | chr9 |
| A_11_P206293 | -192.7376 | -7.590494 | 192.7376 | down | ACTA1 | chr4 |
| A_11_P0000040658 | -3.3137233 | -1.7284532 | 3.3137233 | down | MYPN | chr4 |
| A_11_P179953 | -222.71326 | -7.7990437 | 222.71326 | down | ACTA1 | chr4 |
| A_11_P0000034543 | -12.736475 | -3.6708941 | 12.736475 | down | ARSF | chrX |
| A_11_P0000019918 | 7.5828013 | 2.922731 | 7.5828013 | up | CXCL8 | chr13 |
| A_11_P0000027938 | -4.9872284 | -2.3182383 | 4.9872284 | down | CD248 | chr18 |
| A_11_P0000023651 | -3.8346224 | -1.9390845 | 3.8346224 | down | HPGDS | chr32 |
| A_11_P193673 | -5.1840744 | -2.3740864 | 5.1840744 | down | OTUD5 | chrX |
| A_11_P051191 | 5.2378445 | 2.3889732 | 5.2378445 | up | SAA1 | chr21 |
| A_11_P0000039106 | 4.811492 | 2.2664843 | 4.811492 | up | | chr18 |

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| A_11_P053576 | -3.1645267 | -1.6619897 | 3.1645267 | down | EDN1 | chr35 |
| A_11_P0000026942 | -5.4455576 | -2.4450798 | 5.4455576 | down | GJB4 | chr15 |
| A_11_P0000023062 | -3.712503 | -1.8923922 | 3.712503 | down | RBP4 | chr28 |
| A_11_P0000030687 | -3.0892076 | -1.6272368 | 3.0892076 | down | PI15 | chr29 |
| A_11_P0000039652 | -3.9108586 | -1.9674854 | 3.9108586 | down | | chr30 |
| A_11_P0000019855 | 3.2398095 | 1.695909 | 3.2398095 | up | MX1 | chr31 |
| A_11_P0000021299 | -3.0663185 | -1.6165075 | 3.0663185 | down | | chr17 |
| A_11_P217273 | -13.413853 | -3.7456517 | 13.413853 | down | LOC100683419 | chr17 |
| A_11_P0000032694 | -3.1857345 | -1.6716261 | 3.1857345 | down | MYH8 | chr5 |
| A_11_P095756 | -3.331396 | -1.7361269 | 3.331396 | down | | chr11 |
| A_11_P0000040689 | -7.6877103 | -2.942554 | 7.6877103 | down | | chr26 |
| A_11_P0000026277 | -3.6334453 | -1.8613381 | 3.6334453 | down | SLC31A2 | chr11 |
| A_11_P00000876 | 9.203157 | 3.202129 | 9.203157 | up | | chrX |
| A_11_P153778 | -4.214926 | -2.0755072 | 4.214926 | down | | chr21 |
| A_11_P175733 | 5.9292088 | 2.5678396 | 5.9292088 | up | | chr8 |
| A_11_P109826 | 3.9096322 | 1.9670329 | 3.9096322 | up | TLR1 | chr3 |
| A_11_P155108 | -3.4019866 | -1.7663774 | 3.4019866 | down | WFDC5 | chr24 |
| A_11_P069501 | 3.5937605 | 1.8454943 | 3.5937605 | up | ARNTL | chr21 |
| A_11_P0000017224 | 3.1702583 | 1.6646004 | 3.1702583 | up | | chr11 |
| A_11_P0000033760 | -3.6579676 | -1.8710423 | 3.6579676 | down | RDH12 | chr8 |
| A_11_P115341 | 4.5993648 | 2.2014346 | 4.5993648 | up | GPRASP2 | chrX |
| A_11_P0000019865 | 3.161404 | 1.6605654 | 3.161404 | up | CD86 | chr33 |
| A_11_P0000028608 | -4.9288282 | -2.3012447 | 4.9288282 | down | | chr1 |
| A_11_P0000032925 | 3.4129007 | 1.7709985 | 3.4129007 | up | HSF4 | chr5 |
| A_11_P058961 | 5.6958117 | 2.5099015 | 5.6958117 | up | CXCL10 | chr32 |
| A_11_P143643 | 3.197896 | 1.6771231 | 3.197896 | up | | chr17 |
| A_11_P0000031865 | -4.1704364 | -2.0601983 | 4.1704364 | down | MAP2 | chr37 |
| A_11_P168338 | -4.683663 | -2.2276373 | 4.683663 | down | | chr1 |

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| A_11_P0000018380 | 5.174818 | 2.3715081 | 5.174818 | up | | chr1 |
| A_11_P0000027732 | 3.4731772 | 1.7962561 | 3.4731772 | up | PAX6 | |
| A_11_P0000039074 | 3.4203606 | 1.7741485 | 3.4203606 | up | | chr30 |
| A_11_P086661 | -3.6566691 | -1.8705301 | 3.6566691 | down | ATP6V1C2 | chr17 |
| A_11_P0000040812 | 5.905544 | 2.56207 | 5.905544 | up | BMX | chrX |
| A_11_P0000032406 | 3.0031664 | 1.5864844 | 3.0031664 | up | | chr4 |
| A_11_P195190 | 4.936592 | 2.3035154 | 4.936592 | up | | chr18 |
| A_11_P0000039621 | -3.2765527 | -1.7121787 | 3.2765527 | down | KLK4 | chr1 |
| A_11_P0000017078 | 3.6244004 | 1.8577423 | 3.6244004 | up | | chr6 |
| A_11_P0000016656 | 3.607675 | 1.8510695 | 3.607675 | up | FXYD6 | chr5 |
| A_11_P161123 | -3.229197 | -1.6911755 | 3.229197 | down | OSBPL1A | chr7 |
| A_11_P195453 | -16.461966 | -4.0410647 | 16.461966 | down | CACNA1S | chr7 |
| A_11_P111146 | -7.58018 | -2.9222322 | 7.58018 | down | | chr1 |
| A_11_P138231 | 5.735804 | 2.5199957 | 5.735804 | up | MGST1 | chr27 |
| A_11_P0000027088 | 25.211119 | 4.655988 | 25.211119 | up | TMEM144 | chr15 |
| A_11_P166943 | 3.2399316 | 1.6959634 | 3.2399316 | up | | chr8 |
| A_11_P0000037025 | 3.1157238 | 1.6395674 | 3.1157238 | up | | chr13 |
| A_11_P000003923 | 16.441471 | 4.0392675 | 16.441471 | up | | chr5 |
| A_11_P090746 | 9.162417 | 3.1957283 | 9.162417 | up | C2 | chr12 |
| A_11_P104211 | 3.211973 | 1.6834598 | 3.211973 | up | FAM241B | chr4 |
| A_11_P146158 | -6.249384 | -2.643714 | 6.249384 | down | DCN | chr15 |
| A_11_P137406 | -8.872101 | -3.1492758 | 8.872101 | down | TCAP | chr9 |
| A_11_P0000040699 | -4.483898 | -2.1647534 | 4.483898 | down | | chr25 |
| A_11_P0000026287 | -3.2965224 | -1.7209449 | 3.2965224 | down | KIF12 | chr11 |
| A_11_P0000019862 | 3.4257777 | 1.7764316 | 3.4257777 | up | CD38 | chr3 |
| A_11_P198953 | 3.3599522 | 1.7484407 | 3.3599522 | up | PALM2AKAP2 | chr11 |
| A_11_P105661 | 8.275639 | 3.0488706 | 8.275639 | up | ROBO3 | chr5 |
| A_11_P0000016844 | -3.9041843 | -1.9650211 | 3.9041843 | down | | chr25 |

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| A_11_P0000029534 | -4.721519 | -2.2392511 | 4.721519 | down | ACP3 | chr23 |
| A_11_P0000032628 | -5.107439 | -2.3526 | 5.107439 | down | MMP27 | chr5 |
| A_11_P0000034008 | 3.2863789 | 1.7164989 | 3.2863789 | up | CISD3 | chr9 |
| A_11_P0000025427 | 9.758464 | 3.286654 | 9.758464 | up | LOC480600 | chr9 |
| A_11_P063241 | 6.370292 | 2.6713595 | 6.370292 | up | ANKRD2 | chr28 |
| A_11_P0000030994 | 5.702469 | 2.5115867 | 5.702469 | up | EPHB2 | chr2 |
| A_11_P0000027189 | -6.728955 | -2.7503824 | 6.728955 | down | | chr16 |
| A_11_P0000018701 | -6.2917295 | -2.6534567 | 6.2917295 | down | | chr30 |
| A_11_P150478 | -5.7188993 | -2.5157375 | 5.7188993 | down | | chr18 |
| A_11_P0000027998 | 4.664032 | 2.2215776 | 4.664032 | up | SLC3A2 | chr18 |
| A_11_P051166 | 105.86822 | 6.7261257 | 105.86822 | up | PPARG | chr20 |
| A_11_P0000024409 | 3.2029884 | 1.6794186 | 3.2029884 | up | CD3D | chr5 |
| A_11_P0000038794 | 414.09366 | 8.693813 | 414.09366 | up | | chr34 |
| A_11_P137761 | -4.710234 | -2.2357988 | 4.710234 | down | DAAM1 | chr8 |
| A_11_P0000019937 | 22.214674 | 4.473441 | 22.214674 | up | MMP9 | chr24 |
| A_11_P0000022297 | -4.33677 | -2.116621 | 4.33677 | down | HPX | chr21 |
| A_11_P103781 | 16.014454 | 4.0013027 | 16.014454 | up | FBXO2 | chr2 |
| A_11_P00000805 | -14.273673 | -3.8352847 | 14.273673 | down | TCAP | chr9 |
| A_11_P073151 | -3.8588033 | -1.9481535 | 3.8588033 | down | ELF5 | chr18 |
| A_11_P151618 | -111.94353 | -6.8066273 | 111.94353 | down | | chr4 |
| A_11_P212963 | 3.6857104 | 1.8819427 | 3.6857104 | up | MYEF2 | chr30 |
| A_11_P063271 | -4.5393467 | -2.1824846 | 4.5393467 | down | CRTAC1 | chr28 |
| A_11_P054136 | 4.5605083 | 2.1891947 | 4.5605083 | up | TGFB2 | chr38 |
| A_11_P099616 | -3.9850357 | -1.9945927 | 3.9850357 | down | TMEM79 | chr7 |
| A_11_P0000028664 | 3.6802619 | 1.8798084 | 3.6802619 | up | HPN | chr1 |
| A_11_P000004074 | -3.707925 | -1.8906121 | 3.707925 | down | TAL1 | chr15 |
| A_11_P0000015868 | 3.1734977 | 1.6660738 | 3.1734977 | up | | chr6 |
| A_11_P081626 | -81.16068 | -6.342709 | 81.16068 | down | KRT34 | chr9 |

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|------------------|------------|------------|-----------|------|---------|-------|
| A_11_P0000015292 | 19.81603 | 4.308596 | 19.81603 | up | | chr27 |
| A_11_P000004855 | 3.1807811 | 1.6693811 | 3.1807811 | up | COL12A1 | chr12 |
| A_11_P0000023709 | 3.1727028 | 1.6657124 | 3.1727028 | up | TRAT1 | chr33 |
| A_11_P178938 | -3.584979 | -1.8419647 | 3.584979 | down | | chr30 |
| A_11_P0000025419 | -5.909234 | -2.562971 | 5.909234 | down | CA4 | chr9 |
| A_11_P00000209 | -3.658398 | -1.871212 | 3.658398 | down | KCNS3 | chr17 |
| A_11_P0000014550 | 3.7197657 | 1.8952117 | 3.7197657 | up | GIMAP8 | chr16 |
| A_11_P193453 | 7.480884 | 2.9032087 | 7.480884 | up | C1QC | chr2 |
| A_11_P054146 | -3.3762476 | -1.7554207 | 3.3762476 | down | SCN9A | chr36 |
| A_11_P138566 | 12.405905 | 3.632955 | 12.405905 | up | GATM | chr30 |
| A_11_P0000031576 | -5.1032696 | -2.3514218 | 5.1032696 | down | LIPH | chr34 |
| A_11_P0000030406 | -3.4399345 | -1.782381 | 3.4399345 | down | EMP1 | chr27 |
| A_11_P066126 | -3.1798878 | -1.6689758 | 3.1798878 | down | PDE6H | chr27 |
| A_11_P093161 | -4.2480693 | -2.0868073 | 4.2480693 | down | HSPA2 | chr8 |
| A_11_P0000024758 | -10.560461 | -3.400601 | 10.560461 | down | CRYM | chr6 |
| A_11_P0000013056 | -5.6064672 | -2.487092 | 5.6064672 | down | CCL21 | chr11 |
| A_11_P0000030796 | -8.977069 | -3.1662445 | 8.977069 | down | | chr2 |
| A_11_P051306 | -4.147382 | -2.0522008 | 4.147382 | down | HMG2 | chr2 |
| A_11_P0000034042 | 4.23866 | 2.0836082 | 4.23866 | up | ITGA3 | chr9 |
| A_11_P166668 | 6.089385 | 2.6062965 | 6.089385 | up | MGST1 | chr27 |
| A_11_P0000029610 | 8.8839 | 3.1511931 | 8.8839 | up | BFSP1 | chr24 |
| A_11_P221303 | -3.8260074 | -1.9358397 | 3.8260074 | down | GPX3 | chr4 |
| A_11_P0000029872 | -4.015116 | -2.0054417 | 4.015116 | down | AADAT | chr25 |
| A_11_P0000016385 | 3.1279614 | 1.6452227 | 3.1279614 | up | TECPR1 | chr6 |
| A_11_P124561 | -4.753721 | -2.2490573 | 4.753721 | down | | chr17 |
| A_11_P093341 | 4.90267 | 2.2935677 | 4.90267 | up | SIPA1L1 | chr8 |
| A_11_P00000688 | -3.2378817 | -1.6950502 | 3.2378817 | down | LTF | chr20 |
| A_11_P076931 | 121.35141 | 6.923047 | 121.35141 | up | C3 | chr20 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P060816 | 3.206416 | 1.6809616 | 3.206416 | up | | chr26 |
| A_11_P136716 | -198.68745 | -7.634357 | 198.68745 | down | LOC476825 | chr21 |
| A_11_P182203 | 4.528524 | 2.179041 | 4.528524 | up | FXVD6 | chr5 |
| A_11_P0000031755 | 4.332137 | 2.115079 | 4.332137 | up | PLA2R1 | chr36 |
| A_11_P077131 | 4.818225 | 2.2685018 | 4.818225 | up | MATK | chr20 |
| A_11_P110206 | -3.0882561 | -1.6267924 | 3.0882561 | down | | chr1 |
| A_11_P201093 | -3.515401 | -1.8136892 | 3.515401 | down | | chr20 |
| A_11_P0000026663 | -10.999306 | -3.4593406 | 10.999306 | down | CWH43 | chr13 |
| A_11_P0000033980 | -7.36898 | -2.881465 | 7.36898 | down | KRT27 | chr9 |
| A_11_P206608 | 4.224753 | 2.078867 | 4.224753 | up | | chr5 |
| A_11_P0000015228 | 10.734679 | 3.4242072 | 10.734679 | up | | chr3 |
| A_11_P053921 | 15.979373 | 3.998139 | 15.979373 | up | EDNRA | chr15 |
| A_11_P0000030230 | -5.2835507 | -2.4015079 | 5.2835507 | down | | chr26 |
| A_11_P081681 | -8.043687 | -3.0078568 | 8.043687 | down | KRT28 | chr9 |
| A_11_P0000024881 | -4.016985 | -2.006113 | 4.016985 | down | KIAA1107 | chr6 |
| A_11_P0000034855 | 3.5031652 | 1.8086591 | 3.5031652 | up | GPC4 | chrX |
| A_11_P0000010441 | -9.183802 | -3.1990914 | 9.183802 | down | | |
| A_11_P0000017798 | -4.1739373 | -2.061409 | 4.1739373 | down | | chr25 |
| A_11_P0000023104 | 18.89473 | 4.239912 | 18.89473 | up | ACSL5 | chr28 |
| A_11_P0000017264 | 3.4174068 | 1.772902 | 3.4174068 | up | | chr14 |
| A_11_P0000015406 | -3.4357257 | -1.7806149 | 3.4357257 | down | | chr37 |
| A_11_P099836 | -3.2427547 | -1.6972198 | 3.2427547 | down | S100A14 | chr7 |
| A_11_P157263 | 3.1703327 | 1.6646342 | 3.1703327 | up | ART3 | chr32 |
| A_11_P0000030995 | 9.725939 | 3.2818375 | 9.725939 | up | C1QB | chr2 |
| A_11_P0000030897 | -4.202792 | -2.0713482 | 4.202792 | down | CAPNS2 | chr2 |
| A_11_P000002531 | -39.601852 | -5.307496 | 39.601852 | down | | chr36 |
| A_11_P178478 | -11.195111 | -3.484797 | 11.195111 | down | TCAP | chr9 |
| A_11_P179373 | 3.903467 | 1.964756 | 3.903467 | up | | chr3 |

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|------------------|------------|------------|-----------|------|--------------|----------------|
| A_11_P052941 | 3.0656831 | 1.6162086 | 3.0656831 | up | LOC100683387 | chrUn_JH373254 |
| A_11_P149958 | 6.6905994 | 2.7421355 | 6.6905994 | up | SLC6A1 | chr20 |
| A_11_P067036 | -24.271454 | -4.6011887 | 24.271454 | down | | chr24 |
| A_11_P0000028733 | 4.3340163 | 2.1157045 | 4.3340163 | up | | chr20 |
| A_11_P078486 | -3.4219923 | -1.7748365 | 3.4219923 | down | | chr16 |
| A_11_P0000020455 | 5.426694 | 2.4400735 | 5.426694 | up | MEIS1 | chr10 |
| A_11_P111651 | 4.0007257 | 2.0002618 | 4.0007257 | up | CD274 | chr1 |
| A_11_P0000028525 | 4.682971 | 2.2274241 | 4.682971 | up | CCDC8 | chr1 |
| A_11_P0000019827 | 3.0794344 | 1.6226654 | 3.0794344 | up | CTLA4 | chr37 |
| A_11_P0000017220 | 5.032027 | 2.3311396 | 5.032027 | up | | chr5 |
| A_11_P0000027957 | -8.078771 | -3.0141358 | 8.078771 | down | KCNK7 | chr18 |
| A_11_P171573 | -3.07113 | -1.6187696 | 3.07113 | down | | chr6 |
| A_11_P075046 | 6.6688223 | 2.737432 | 6.6688223 | up | | chr20 |
| A_11_P067796 | -67.51303 | -6.077094 | 67.51303 | down | | chr24 |
| A_11_P110666 | -3.0024736 | -1.5861516 | 3.0024736 | down | PPP1R14C | chr1 |
| A_11_P100511 | -4.497882 | -2.1692457 | 4.497882 | down | ZNF750 | chrUn_JH373243 |
| A_11_P145263 | 4.0303946 | 2.010921 | 4.0303946 | up | | chrX |
| A_11_P196218 | -11.965099 | -3.5807605 | 11.965099 | down | COX6A2 | chr6 |
| A_11_P057066 | -4.9866743 | -2.318078 | 4.9866743 | down | LRP2 | chr36 |
| A_11_P081611 | -6.322664 | -2.6605325 | 6.322664 | down | KRT36 | chr9 |
| A_11_P164308 | 3.630876 | 1.8603177 | 3.630876 | up | MPP6 | chr14 |
| A_11_P076446 | -8.054967 | -3.0098786 | 8.054967 | down | CASP14 | chr20 |
| A_11_P161638 | 3.5599446 | 1.8318548 | 3.5599446 | up | | chr38 |
| A_11_P0000033561 | -9.156042 | -3.194724 | 9.156042 | down | DSC1 | chr7 |
| A_11_P0000023127 | -3.784307 | -1.9200292 | 3.784307 | down | PLPP4 | chr28 |
| A_11_P0000039311 | -3.1924427 | -1.6746607 | 3.1924427 | down | GPX3 | chr4 |
| A_11_P0000034926 | -3.027622 | -1.5981851 | 3.027622 | down | L1CAM | chrX |
| A_11_P0000020825 | -9.9120245 | -3.3091798 | 9.9120245 | down | CCN3 | chr13 |

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|------------------|-------------|------------|------------|------|----------|----------------|
| A_11_P087376 | -12.453129 | -3.6384363 | 12.453129 | down | IL37 | chr17 |
| A_11_P000001689 | -3.8341827 | -1.9389191 | 3.8341827 | down | | chr32 |
| A_11_P120071 | 3.4966884 | 1.8059893 | 3.4966884 | up | | chrUn_JH373990 |
| A_11_P0000032858 | -3.8566535 | -1.9473495 | 3.8566535 | down | GAN | chr5 |
| A_11_P0000015282 | 17.760666 | 4.150614 | 17.760666 | up | | chrX |
| A_11_P0000038862 | -3.287171 | -1.7168465 | 3.287171 | down | MFSD13A | chr28 |
| A_11_P221863 | 4.1496935 | 2.0530047 | 4.1496935 | up | | chr3 |
| A_11_P119781 | -3.5895605 | -1.8438072 | 3.5895605 | down | CERS3 | chr3 |
| A_11_P086601 | -6.2141995 | -2.6355686 | 6.2141995 | down | MBOAT2 | chr17 |
| A_11_P095621 | -3.2163455 | -1.6854224 | 3.2163455 | down | LPAR1 | chr11 |
| A_11_P0000022860 | -3.3800147 | -1.7570295 | 3.3800147 | down | | chr26 |
| A_11_P0000034122 | 6.0790086 | 2.603836 | 6.0790086 | up | | chr9 |
| A_11_P219313 | -5.7719183 | -2.5290508 | 5.7719183 | down | KRT12 | chr9 |
| A_11_P071401 | 3.5715392 | 1.836546 | 3.5715392 | up | | |
| A_11_P176483 | -190.90987 | -7.576748 | 190.90987 | down | | chr4 |
| A_11_P096681 | -13.9251375 | -3.7996197 | 13.9251375 | down | MYLPF | chr6 |
| A_11_P0000039619 | -3.4331262 | -1.7795229 | 3.4331262 | down | | chr16 |
| A_11_P0000032631 | 3.4610407 | 1.7912059 | 3.4610407 | up | BIRC3 | chr5 |
| A_11_P057471 | 7.0732274 | 2.8223686 | 7.0732274 | up | STAT4 | chr37 |
| A_11_P0000024446 | 3.3507829 | 1.7444983 | 3.3507829 | up | MMP12 | chr5 |
| A_11_P081606 | 19.27139 | 4.2683887 | 19.27139 | up | KRT13 | chr9 |
| A_11_P076226 | -5.0818005 | -2.3453398 | 5.0818005 | down | FCHO1 | chr20 |
| A_11_P143498 | 6.2939844 | 2.6539736 | 6.2939844 | up | | chr18 |
| A_11_P0000039283 | 3.2871993 | 1.7168589 | 3.2871993 | up | SERPINH1 | chr21 |
| A_11_P165578 | -3.641369 | -1.864481 | 3.641369 | down | | chr24 |
| A_11_P075246 | -4.1016636 | -2.036209 | 4.1016636 | down | CHL1 | chr20 |
| A_11_P0000031353 | 9.8686495 | 3.3028526 | 9.8686495 | up | SCD5 | chr32 |
| A_11_P193378 | -3.566996 | -1.8347096 | 3.566996 | down | ENO3 | chr5 |

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| A_11_P0000023402 | 6.5765367 | 2.717328 | 6.5765367 | up | C1QA | chr2 |
| A_11_P081186 | 3.8494837 | 1.944665 | 3.8494837 | up | TEX2 | chr9 |
| A_11_P0000033381 | -3.0732646 | -1.619772 | 3.0732646 | down | KCNK2 | chr7 |
| A_11_P000001494 | -5.1701818 | -2.370215 | 5.1701818 | down | COL6A1 | chr31 |
| A_11_P0000020203 | -4.860755 | -2.2811804 | 4.860755 | down | KRT10 | chr9 |
| A_11_P154268 | 4.8646154 | 2.2823257 | 4.8646154 | up | | chr2 |
| A_11_P0000021536 | -5.8551574 | -2.549708 | 5.8551574 | down | SEMA3D | chr18 |
| A_11_P162378 | -6.0146766 | -2.5884871 | 6.0146766 | down | | chr4 |
| A_11_P184913 | -6.0704775 | -2.60181 | 6.0704775 | down | | chr6 |
| A_11_P0000031137 | 3.4758806 | 1.7973785 | 3.4758806 | up | SECISBP2L | chr30 |
| A_11_P0000021670 | -3.1201098 | -1.6415968 | 3.1201098 | down | HSPA4L | chr19 |
| A_11_P070296 | -6.149817 | -2.6205435 | 6.149817 | down | LOC477365 | chr25 |
| A_11_P0000039664 | -4.150157 | -2.053166 | 4.150157 | down | | chr11 |
| A_11_P092916 | -3.6813178 | -1.8802223 | 3.6813178 | down | | chr8 |
| A_11_P000002492 | 4.8138013 | 2.2671766 | 4.8138013 | up | | chr1 |
| A_11_P0000022986 | 6.265147 | 2.6473484 | 6.265147 | up | MGST1 | chr27 |
| A_11_P085606 | -3.0670016 | -1.6168289 | 3.0670016 | down | PLK3 | chr15 |
| A_11_P0000028540 | -3.6291711 | -1.8596401 | 3.6291711 | down | KLC3 | chr1 |
| A_11_P0000031265 | -3.5021524 | -1.8082418 | 3.5021524 | down | | chr31 |
| A_11_P000001054 | 4.3766646 | 2.1298318 | 4.3766646 | up | | chr18 |
| A_11_P0000031203 | 3.3756652 | 1.7551718 | 3.3756652 | up | | chr30 |
| A_11_P214643 | -7.9852486 | -2.9973373 | 7.9852486 | down | MARCHF3 | chr11 |
| A_11_P0000033205 | -3.8888521 | -1.9593444 | 3.8888521 | down | UNKL | chr6 |
| A_11_P0000030706 | -4.3713746 | -2.128087 | 4.3713746 | down | CA13 | chr29 |
| A_11_P091981 | -3.0329382 | -1.6007161 | 3.0329382 | down | POPDC3 | chr12 |
| A_11_P080166 | -3.4948282 | -1.8052216 | 3.4948282 | down | SCEL | chr22 |
| A_11_P0000033780 | -4.0270243 | -2.0097141 | 4.0270243 | down | PAPLN | chr8 |
| A_11_P093776 | -12.480026 | -3.641549 | 12.480026 | down | SERPINA12 | chr8 |

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| A_11_P0000034315 | -5.1149297 | -2.3547144 | 5.1149297 | down | RGS19 | chr24 |
| A_11_P0000026796 | -5.0476546 | -2.3356133 | 5.0476546 | down | DLX5 | chr14 |
| A_11_P162343 | -3.5425918 | -1.8248053 | 3.5425918 | down | FGL1 | chr16 |
| A_11_P105996 | 4.265322 | 2.0926547 | 4.265322 | up | FXVD6 | chr5 |
| A_11_P0000021743 | -3.510362 | -1.8116198 | 3.510362 | down | SERPINB5 | chr1 |
| A_11_P000004838 | -3.4615543 | -1.79142 | 3.4615543 | down | | |
| A_11_P000001138 | 4.7948146 | 2.261475 | 4.7948146 | up | LOC609288 | chr18 |
| A_11_P084571 | -6.06284 | -2.5999937 | 6.06284 | down | | chr13 |
| A_11_P172003 | -4.0083947 | -2.0030246 | 4.0083947 | down | PCP4 | chr31 |
| A_11_P0000025075 | 6.6939087 | 2.7428489 | 6.6939087 | up | ABHD3 | chr7 |
| A_11_P196393 | -7.619511 | -2.9296985 | 7.619511 | down | | chr17 |
| A_11_P0000041087 | -3.06047 | -1.6137533 | 3.06047 | down | | chr5 |
| A_11_P0000027726 | 4.9501076 | 2.3074598 | 4.9501076 | up | DEPDC7 | chr18 |
| A_11_P053036 | -6.0418696 | -2.594995 | 6.0418696 | down | | chr4 |
| A_11_P087381 | -5.419703 | -2.4382138 | 5.419703 | down | IL36G | chr17 |
| A_11_P0000020638 | 16.344604 | 4.0307426 | 16.344604 | up | CFB | chr12 |
| A_11_P0000016630 | -9.476888 | -3.2444134 | 9.476888 | down | | chr3 |
| A_11_P0000021687 | -3.0512388 | -1.609395 | 3.0512388 | down | DBI | chr19 |
| A_11_P0000034117 | -3.469123 | -1.7945709 | 3.469123 | down | FOXN1 | chr9 |
| A_11_P187243 | 3.138462 | 1.6500578 | 3.138462 | up | | chr12 |
| A_11_P0000017470 | 5.068832 | 2.3416533 | 5.068832 | up | | chr34 |
| A_11_P054861 | 6.2982607 | 2.6549535 | 6.2982607 | up | DMD | chrX |
| A_11_P084236 | -3.688194 | -1.8829145 | 3.688194 | down | KHDRBS3 | chr13 |
| A_11_P217073 | 6.461746 | 2.691924 | 6.461746 | up | | chr13 |
| A_11_P0000033430 | -7.5350156 | -2.9136105 | 7.5350156 | down | DPT | chr7 |
| A_11_P109626 | -3.3287854 | -1.7349958 | 3.3287854 | down | LDB2 | chr3 |
| A_11_P110831 | -3.5910296 | -1.8443975 | 3.5910296 | down | AGPAT4 | chr1 |
| A_11_P00000687 | -4.3470154 | -2.1200252 | 4.3470154 | down | | chr37 |

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| A_11_P080121 | 5.0892467 | 2.3474522 | 5.0892467 | up | | chr22 |
| A_11_P058156 | 6.9851484 | 2.8042908 | 6.9851484 | up | | chr37 |
| A_11_P0000021872 | -8.182733 | -3.0325828 | 8.182733 | down | | chr1 |
| A_11_P123086 | 8.800105 | 3.1375208 | 8.800105 | up | LAIR1 | chr1 |
| A_11_P0000030933 | 4.1192217 | 2.0423717 | 4.1192217 | up | ADGRB2 | chr2 |
| A_11_P109756 | 3.061574 | 1.6142735 | 3.061574 | up | APBB2 | chr3 |
| A_11_P0000038322 | -4.1714673 | -2.060555 | 4.1714673 | down | | chr12 |
| A_11_P191488 | -33.83882 | -5.0806074 | 33.83882 | down | | chr6 |
| A_11_P151283 | 3.0230253 | 1.595993 | 3.0230253 | up | | chr27 |
| A_11_P106551 | -4.22082 | -2.0775232 | 4.22082 | down | | chr5 |
| A_11_P0000023353 | -4.007389 | -2.0026627 | 4.007389 | down | ABCC11 | chr2 |
| A_11_P155013 | 3.0902278 | 1.6277132 | 3.0902278 | up | | chr1 |
| A_11_P066856 | -3.4891474 | -1.8028746 | 3.4891474 | down | BMP2 | chr24 |
| A_11_P110161 | 3.0832465 | 1.6244502 | 3.0832465 | up | CD226 | chr1 |
| A_11_P194318 | 23.890757 | 4.5783806 | 23.890757 | up | | chr37 |
| A_11_P167308 | -3.1967263 | -1.6765952 | 3.1967263 | down | | chr11 |
| A_11_P0000026686 | 6.6224456 | 2.727364 | 6.6224456 | up | TMPRSS11D | chr13 |
| A_11_P0000033986 | 3.4698465 | 1.7948718 | 3.4698465 | up | IGFBP4 | chr9 |
| A_11_P211568 | -3.7057922 | -1.889782 | 3.7057922 | down | | chr20 |
| A_11_P0000024685 | 3.7915635 | 1.9227929 | 3.7915635 | up | SERPINE1 | chr6 |
| A_11_P186903 | -3.8146987 | -1.9315691 | 3.8146987 | down | ENO3 | chr5 |
| A_11_P187358 | -23.246864 | -4.5389643 | 23.246864 | down | | chr24 |
| A_11_P0000029960 | -3.6345623 | -1.8617816 | 3.6345623 | down | NGEF | chr25 |
| A_11_P0000022341 | -8.9194145 | -3.156949 | 8.9194145 | down | BBOX1 | chr21 |
| A_11_P128001 | -3.4712436 | -1.7954526 | 3.4712436 | down | GRHL1 | chr17 |
| A_11_P0000034918 | -4.002654 | -2.000957 | 4.002654 | down | TREX2 | chrX |
| A_11_P0000035125 | -3.6298022 | -1.8598909 | 3.6298022 | down | ECSCR | chr2 |
| A_11_P0000022889 | 8.136793 | 3.0244603 | 8.136793 | up | | chr26 |

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|------------------|------------|------------|-----------|------|--------------|-------|
| A_11_P093731 | -4.4897275 | -2.166628 | 4.4897275 | down | | chr8 |
| A_11_P059266 | 3.7108138 | 1.8917356 | 3.7108138 | up | SNCA | chr32 |
| A_11_P161958 | 3.683745 | 1.8811731 | 3.683745 | up | | chr26 |
| A_11_P0000021493 | 6.456456 | 2.6907425 | 6.456456 | up | LAMB1 | chr18 |
| A_11_P196068 | -5.312906 | -2.409501 | 5.312906 | down | | chr36 |
| A_11_P0000024462 | -3.586534 | -1.8425903 | 3.586534 | down | | chr5 |
| A_11_P0000024339 | -4.908716 | -2.2953458 | 4.908716 | down | HSPB3 | chr4 |
| A_11_P148078 | 4.3262477 | 2.1131163 | 4.3262477 | up | IL13RA2 | chrX |
| A_11_P0000015115 | 3.5267222 | 1.8183279 | 3.5267222 | up | | chr6 |
| A_11_P0000041401 | 4.901455 | 2.29321 | 4.901455 | up | | chr30 |
| A_11_P079036 | -4.934111 | -2.3027902 | 4.934111 | down | LMOD2 | chr14 |
| A_11_P148353 | -5.236162 | -2.3885098 | 5.236162 | down | | chr28 |
| A_11_P053206 | 3.6812205 | 1.8801842 | 3.6812205 | up | TLE1 | chr1 |
| A_11_P207758 | -3.146836 | -1.653902 | 3.146836 | down | OSBPL1A | chr7 |
| A_11_P186588 | 9.817267 | 3.2953215 | 9.817267 | up | LAMB1 | chr18 |
| A_11_P195673 | 4.1476765 | 2.0523033 | 4.1476765 | up | | chr22 |
| A_11_P067516 | 3.603989 | 1.8495946 | 3.603989 | up | | chr24 |
| A_11_P0000031402 | -3.411871 | -1.7705631 | 3.411871 | down | ELOVL6 | chr32 |
| A_11_P0000019854 | 4.5426903 | 2.183547 | 4.5426903 | up | MX2 | chr31 |
| A_11_P088281 | -8.685096 | -3.1185417 | 8.685096 | down | LOC102157231 | chr17 |
| A_11_P0000033881 | 5.676152 | 2.5049133 | 5.676152 | up | JAG2 | chr8 |
| A_11_P0000015620 | -4.097101 | -2.0346036 | 4.097101 | down | PDLIM3 | chr16 |
| A_11_P000008882 | 3.3629076 | 1.7497091 | 3.3629076 | up | | chr9 |
| A_11_P062161 | 3.0584903 | 1.6128197 | 3.0584903 | up | TRIM69 | chr30 |
| A_11_P050941 | -7.0827346 | -2.8243065 | 7.0827346 | down | HSD17B14 | chr1 |
| A_11_P156838 | 3.3401039 | 1.739893 | 3.3401039 | up | | chr19 |
| A_11_P0000038837 | -3.518358 | -1.8149023 | 3.518358 | down | | chr24 |
| A_11_P090656 | 3.1199489 | 1.6415224 | 3.1199489 | up | AIF1 | chr12 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P0000039495 | -3.191569 | -1.6742659 | 3.191569 | down | | chr37 |
| A_11_P055811 | -4.797581 | -2.2623072 | 4.797581 | down | NECTIN4 | chr38 |
| A_11_P064186 | -4.4439425 | -2.1518402 | 4.4439425 | down | | chr29 |
| A_11_P0000031106 | -4.3679214 | -2.126947 | 4.3679214 | down | PLA2G4D | chr30 |
| A_11_P139171 | -3.5741181 | -1.8375874 | 3.5741181 | down | CLDN22 | chr16 |
| A_11_P0000030354 | 5.1238165 | 2.3572187 | 5.1238165 | up | PKP2 | chr27 |
| A_11_P156648 | -11.827597 | -3.564085 | 11.827597 | down | ACTN2 | chr4 |
| A_11_P166378 | 21.630022 | 4.434963 | 21.630022 | up | | chr15 |
| A_11_P0000034753 | -5.231834 | -2.3873167 | 5.231834 | down | POF1B | chrX |
| A_11_P0000033888 | 3.9093041 | 1.9669118 | 3.9093041 | up | | chr9 |
| A_11_P065126 | -6.1887383 | -2.6296453 | 6.1887383 | down | SPTSSB | chr34 |
| A_11_P103886 | -13.085729 | -3.7099223 | 13.085729 | down | ACTN2 | chr4 |
| A_11_P0000033597 | 3.0504813 | 1.6090369 | 3.0504813 | up | TWSG1 | chr7 |
| A_11_P051116 | 3.1328988 | 1.6474981 | 3.1328988 | up | CD40 | chr24 |
| A_11_P0000033963 | 5.6278977 | 2.4925961 | 5.6278977 | up | FKBP10 | chr9 |
| A_11_P050496 | -9.938045 | -3.312962 | 9.938045 | down | ADORA2A | chr26 |
| A_11_P0000016618 | -11.777983 | -3.5580206 | 11.777983 | down | | chr2 |
| A_11_P000003744 | -7.718122 | -2.9482498 | 7.718122 | down | | chr36 |
| A_11_P161778 | 6.535764 | 2.708356 | 6.535764 | up | ST3GAL6 | chr33 |
| A_11_P076891 | -4.6433163 | -2.2151556 | 4.6433163 | down | KANK3 | chr20 |
| A_11_P0000015997 | -4.859219 | -2.2807245 | 4.859219 | down | PKDCC | chr17 |
| A_11_P0000020896 | 6.3669977 | 2.6706133 | 6.3669977 | up | SULT1D1 | chr13 |
| A_11_P133001 | 3.1322205 | 1.6471858 | 3.1322205 | up | RASGRP2 | chr18 |
| A_11_P000006760 | 4.474941 | 2.1618686 | 4.474941 | up | | chr31 |
| A_11_P0000029562 | 8.188923 | 3.0336738 | 8.188923 | up | | chr23 |
| A_11_P0000030832 | 5.065432 | 2.3406854 | 5.065432 | up | FGF1 | chr2 |
| A_11_P114041 | -3.093913 | -1.6294327 | 3.093913 | down | CLCN4 | chrX |
| A_11_P104221 | 5.446436 | 2.4453125 | 5.446436 | up | MACROH2A2 | chr4 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P137386 | 4.9808946 | 2.3164048 | 4.9808946 | up | IGFBP4 | chr9 |
| A_11_P0000032682 | -3.57538 | -1.8380966 | 3.57538 | down | ALOX12B | chr5 |
| A_11_P0000030112 | 16.132904 | 4.0119343 | 16.132904 | up | CRYBB1 | chr26 |
| A_11_P102481 | -3.5237672 | -1.8171186 | 3.5237672 | down | | chr2 |
| A_11_P0000021194 | 3.2446394 | 1.6980581 | 3.2446394 | up | RARRES2 | chr16 |
| A_11_P0000016794 | 4.839318 | 2.2748036 | 4.839318 | up | | chr20 |
| A_11_P085581 | 3.3374875 | 1.7387624 | 3.3374875 | up | HPDL | chr15 |
| A_11_P0000025913 | 4.3301744 | 2.1144252 | 4.3301744 | up | | chr10 |
| A_11_P091531 | 4.7436905 | 2.2460098 | 4.7436905 | up | LOC610304 | chr12 |
| A_11_P140451 | -3.2209978 | -1.6875076 | 3.2209978 | down | SBSN | chr1 |
| A_11_P208723 | -140.54921 | -7.1349316 | 140.54921 | down | MB | chr10 |
| A_11_P132361 | 5.1825395 | 2.3736591 | 5.1825395 | up | | chr10 |
| A_11_P0000019666 | 3.8780947 | 1.955348 | 3.8780947 | up | CTSS | chr17 |
| A_11_P0000023801 | -5.061103 | -2.3394518 | 5.061103 | down | TPRG1 | chr34 |
| A_11_P0000033710 | -5.3912907 | -2.4306307 | 5.3912907 | down | ABHD12B | chr8 |
| A_11_P0000020127 | -3.4145832 | -1.7717094 | 3.4145832 | down | P2RY1 | chr23 |
| A_11_P0000017028 | 4.966886 | 2.3123417 | 4.966886 | up | | chr2 |
| A_11_P168463 | -3.8516612 | -1.9454808 | 3.8516612 | down | | chr21 |
| A_11_P0000041358 | -5.086247 | -2.3466015 | 5.086247 | down | | chr13 |
| A_11_P066311 | -6.11914 | -2.613329 | 6.11914 | down | A2ML1 | chr27 |
| A_11_P0000017073 | 65.55726 | 6.0346837 | 65.55726 | up | | chr7 |
| A_11_P090481 | -3.4107277 | -1.7700796 | 3.4107277 | down | MXD1 | chr10 |
| A_11_P0000029955 | -3.914869 | -1.9689641 | 3.914869 | down | NPPC | chr25 |
| A_11_P0000030457 | 4.712338 | 2.236443 | 4.712338 | up | NTF3 | chr27 |
| A_11_P110926 | -6.273923 | -2.6493678 | 6.273923 | down | UNC93A | chr1 |
| A_11_P168558 | 6.5904346 | 2.7203736 | 6.5904346 | up | FN1 | chr37 |
| A_11_P0000022914 | -3.1938663 | -1.6753039 | 3.1938663 | down | GTSF1 | chr27 |
| A_11_P090941 | 3.1220894 | 1.6425118 | 3.1220894 | up | PACSIN1 | chr12 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P166843 | 6.634802 | 2.7300534 | 6.634802 | up | | chr38 |
| A_11_P103091 | 6.6908474 | 2.742189 | 6.6908474 | up | TINAGL1 | chr2 |
| A_11_P0000021252 | 6.240585 | 2.6416812 | 6.240585 | up | DLC1 | chr16 |
| A_11_P0000018410 | -3.6938913 | -1.8851414 | 3.6938913 | down | | chr1 |
| A_11_P201458 | -299.30695 | -8.225482 | 299.30695 | down | MYL1 | chr37 |
| A_11_P086176 | -15.119488 | -3.9183373 | 15.119488 | down | MYBPC1 | chr15 |
| A_11_P00000888 | 3.4421248 | 1.7832994 | 3.4421248 | up | | chr30 |
| A_11_P0000016463 | 3.1748972 | 1.6667099 | 3.1748972 | up | | chr9 |
| A_11_P190203 | 3.6099486 | 1.8519783 | 3.6099486 | up | SLC44A5 | chr6 |
| A_11_P0000033235 | -5.904423 | -2.5617962 | 5.904423 | down | | chr6 |
| A_11_P064416 | 14.219795 | 3.8298287 | 14.219795 | up | FABP12 | chr29 |
| A_11_P206693 | -3.9197826 | -1.9707737 | 3.9197826 | down | DUSP14 | chr9 |
| A_11_P155428 | -5.0006757 | -2.322123 | 5.0006757 | down | | chrX |
| A_11_P093621 | 4.5207014 | 2.1765466 | 4.5207014 | up | GPR65 | chr8 |
| A_11_P0000031136 | 10.330068 | 3.3687778 | 10.330068 | up | SHC4 | chr30 |
| A_11_P0000026955 | -17.47119 | -4.126906 | 17.47119 | down | SLC5A9 | chr15 |
| A_11_P0000028131 | -7.6869965 | -2.94242 | 7.6869965 | down | SERPINB13 | chr1 |
| A_11_P0000023989 | -339.1283 | -8.405687 | 339.1283 | down | MYL1 | chr37 |
| A_11_P127181 | -4.4609957 | -2.1573658 | 4.4609957 | down | | chr9 |
| A_11_P051576 | -3.7876456 | -1.9213014 | 3.7876456 | down | RBP4 | chr28 |
| A_11_P084791 | 3.7008874 | 1.8878713 | 3.7008874 | up | LOC611685 | chr13 |
| A_11_P076146 | 4.2815213 | 2.0981236 | 4.2815213 | up | COMP | chr20 |
| A_11_P0000019696 | 10.995206 | 3.4588027 | 10.995206 | up | MAOB | chrX |
| A_11_P094566 | -5.375007 | -2.4262667 | 5.375007 | down | MARCHF3 | chr11 |
| A_11_P0000040925 | -3.6791492 | -1.8793721 | 3.6791492 | down | | chr1 |
| A_11_P0000032266 | 3.1864138 | 1.6719337 | 3.1864138 | up | CABCOC01 | chr4 |
| A_11_P0000039088 | 6.281374 | 2.6510801 | 6.281374 | up | | chr18 |
| A_11_P114161 | 3.1001613 | 1.6323433 | 3.1001613 | up | SCML2 | chrX |

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| A_11_P0000017580 | 9.103305 | 3.1863904 | 9.103305 | up | | chr17 |
| A_11_P055916 | -3.4765127 | -1.7976408 | 3.4765127 | down | ACKR1 | chr38 |
| A_11_P0000030834 | 3.1963122 | 1.6764083 | 3.1963122 | up | KCTD16 | chr2 |
| A_11_P0000041135 | 4.975591 | 2.314868 | 4.975591 | up | NTRK2 | chr1 |
| A_11_P192188 | 4.231847 | 2.0812874 | 4.231847 | up | SECISBP2L | chr30 |
| A_11_P073181 | -3.6443925 | -1.8656783 | 3.6443925 | down | CD59 | chr18 |
| A_11_P126441 | -3.4953885 | -1.8054528 | 3.4953885 | down | FLRT3 | chr24 |
| A_11_P086446 | 4.565294 | 2.1907077 | 4.565294 | up | | chr15 |
| A_11_P0000030548 | 3.105683 | 1.6349106 | 3.105683 | up | SCD | chr28 |
| A_11_P212593 | -4.0162134 | -2.005836 | 4.0162134 | down | | chr15 |
| A_11_P0000028498 | -3.968443 | -1.9885731 | 3.968443 | down | SULT2B1 | chr1 |
| A_11_P0000018357 | 4.8276668 | 2.271326 | 4.8276668 | up | | chr1 |
| A_11_P053796 | 28.459026 | 4.8308144 | 28.459026 | up | MMP9 | chr24 |
| A_11_P200298 | 4.3158617 | 2.1096487 | 4.3158617 | up | | chr15 |
| A_11_P0000023629 | 4.0422745 | 2.0151672 | 4.0422745 | up | | chr32 |
| A_11_P0000033974 | -153.63127 | -7.263328 | 153.63127 | down | KRT33A | chr9 |
| A_11_P0000033719 | -4.5176616 | -2.1755762 | 4.5176616 | down | BMP4 | chr8 |
| A_11_P0000034917 | -5.002855 | -2.3227515 | 5.002855 | down | | chrX |
| A_11_P00000996 | 3.9967399 | 1.9988236 | 3.9967399 | up | SLC12A4 | chr5 |
| A_11_P208413 | 3.5429583 | 1.8249545 | 3.5429583 | up | TGFBR3 | chr6 |
| A_11_P0000025302 | 6.021927 | 2.5902252 | 6.021927 | up | FAM20A | chr9 |
| A_11_P200708 | -5.2946568 | -2.4045372 | 5.2946568 | down | | chr11 |
| A_11_P190298 | -247.26488 | -7.9499135 | 247.26488 | down | LOC609402 | chr21 |
| A_11_P054821 | 3.4075413 | 1.7687311 | 3.4075413 | up | TACR1 | chr17 |
| A_11_P0000020193 | 3.1118295 | 1.637763 | 3.1118295 | up | GFI1 | chr6 |
| A_11_P054732 | 8.851905 | 3.145988 | 8.851905 | up | | |
| A_11_P0000022890 | 12.112958 | 3.5984793 | 12.112958 | up | | chr26 |
| A_11_P051621 | 3.0522997 | 1.6098967 | 3.0522997 | up | ABCC5 | chr34 |

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| A_11_P058891 | -3.7109277 | -1.8917799 | 3.7109277 | down | | chr33 |
| A_11_P152968 | -6.524985 | -2.7059746 | 6.524985 | down | | chr4 |
| A_11_P098866 | 3.887729 | 1.9589276 | 3.887729 | up | NPL | chr7 |
| A_11_P074441 | 3.6866572 | 1.8823133 | 3.6866572 | up | RASGRP2 | chr18 |
| A_11_P119056 | -3.6254044 | -1.8581419 | 3.6254044 | down | LOC612422 | chr6 |
| A_11_P132936 | 5.6069064 | 2.487205 | 5.6069064 | up | | chr9 |
| A_11_P148513 | -5.3976235 | -2.4323244 | 5.3976235 | down | ALDH3A1 | chr5 |
| A_11_P0000019145 | -4.1916747 | -2.0675268 | 4.1916747 | down | | chrX |
| A_11_P105831 | -5.2187443 | -2.3837028 | 5.2187443 | down | | chr5 |
| A_11_P114521 | 8.1405 | 3.0251174 | 8.1405 | up | MAOB | chrX |
| A_11_P136986 | 3.5889578 | 1.843565 | 3.5889578 | up | CDH11 | chr5 |
| A_11_P122961 | -11.54352 | -3.5290112 | 11.54352 | down | | chr14 |
| A_11_P0000031327 | -3.1224651 | -1.6426854 | 3.1224651 | down | DNMT3L | chr31 |
| A_11_P158243 | -4.6009355 | -2.2019272 | 4.6009355 | down | FHL1 | chrX |
| A_11_P0000021121 | -3.6248555 | -1.8579235 | 3.6248555 | down | MYBPC1 | chr15 |
| A_11_P0000019725 | -6.7906775 | -2.7635555 | 6.7906775 | down | CA6 | chr5 |
| A_11_P0000011137 | -3.0893333 | -1.6272955 | 3.0893333 | down | | chr21 |
| A_11_P0000027237 | -4.240459 | -2.0842204 | 4.240459 | down | RAB11FIP1 | chr16 |
| A_11_P0000024341 | 8.540117 | 3.094256 | 8.540117 | up | | chr4 |
| A_11_P177233 | 4.528211 | 2.1789412 | 4.528211 | up | | chr37 |
| A_11_P0000014199 | 6.791351 | 2.7636986 | 6.791351 | up | | chr2 |
| A_11_P054906 | 3.3290484 | 1.7351098 | 3.3290484 | up | CXCL8 | chr13 |
| A_11_P148318 | 3.5520394 | 1.8286476 | 3.5520394 | up | CCDC136 | chr14 |
| A_11_P0000017295 | -14.917574 | -3.898941 | 14.917574 | down | H19 | chr18 |
| A_11_P104019 | -22.527124 | -4.4935913 | 22.527124 | down | ACTA1 | chr4 |
| A_11_P181168 | 5.5744534 | 2.4788303 | 5.5744534 | up | | chr32 |
| A_11_P157558 | -90.632195 | -6.5019517 | 90.632195 | down | TNNT3 | chr18 |
| A_11_P186363 | 3.9057136 | 1.9655862 | 3.9057136 | up | FZD7 | chr37 |

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|------------------|------------|------------|------------|------|-----------|----------------|
| A_11_P220888 | 3.7042882 | 1.8891964 | 3.7042882 | up | TTC38 | chr10 |
| A_11_P0000018892 | 3.6900363 | 1.883635 | 3.6900363 | up | LOC606786 | chr5 |
| A_11_P0000016348 | 3.4282823 | 1.7774858 | 3.4282823 | up | | chr4 |
| A_11_P174683 | 100.469536 | 6.6506143 | 100.469536 | up | C3 | chr20 |
| A_11_P093426 | -10.286875 | -3.362733 | 10.286875 | down | SYNDIG1L | chr8 |
| A_11_P0000027067 | 10.299252 | 3.3644676 | 10.299252 | up | EDNRA | chr15 |
| A_11_P0000028132 | -5.0180187 | -2.327118 | 5.0180187 | down | SERPINB12 | chr1 |
| A_11_P202593 | 5.060201 | 2.3391948 | 5.060201 | up | NR1H3 | chr18 |
| A_11_P067391 | -3.4063702 | -1.7682352 | 3.4063702 | down | FAM83C | chr24 |
| A_11_P066321 | -11.300471 | -3.498311 | 11.300471 | down | MFAP5 | chr27 |
| A_11_P0000026065 | -8.875864 | -3.1498876 | 8.875864 | down | | chr10 |
| A_11_P121561 | 5.108361 | 2.3528605 | 5.108361 | up | STC1 | chr25 |
| A_11_P0000040066 | 5.4288826 | 2.4406552 | 5.4288826 | up | | |
| A_11_P0000023525 | -5.148334 | -2.3641057 | 5.148334 | down | RORA | chr30 |
| A_11_P159703 | -3.600021 | -1.8480053 | 3.600021 | down | | chr24 |
| A_11_P0000021044 | 9.229483 | 3.2062497 | 9.229483 | up | SHISAL2A | chr15 |
| A_11_P061306 | 7.117033 | 2.831276 | 7.117033 | up | EVA1C | chr31 |
| A_11_P081561 | 4.7574606 | 2.2501917 | 4.7574606 | up | TTC25 | chr9 |
| A_11_P062401 | -4.548476 | -2.1853833 | 4.548476 | down | MYZAP | chr30 |
| A_11_P122931 | 3.3870769 | 1.7600408 | 3.3870769 | up | FN3K | chrUn_JH373243 |
| A_11_P113736 | -5.498684 | -2.4590864 | 5.498684 | down | DMKN | chr1 |
| A_11_P0000020593 | 3.6895692 | 1.8834524 | 3.6895692 | up | CTNNAL1 | chr11 |
| A_11_P000009909 | -3.103282 | -1.6337948 | 3.103282 | down | | chr1 |
| A_11_P129021 | 4.900953 | 2.2930622 | 4.900953 | up | | chr37 |
| A_11_P140676 | -4.3566103 | -2.1232061 | 4.3566103 | down | DMKN | chr1 |
| A_11_P0000014560 | -3.7959032 | -1.9244432 | 3.7959032 | down | EPHX3 | chr20 |
| A_11_P000003929 | 3.5465248 | 1.826406 | 3.5465248 | up | | chr22 |
| A_11_P0000021897 | 3.960361 | 1.985632 | 3.960361 | up | PEG3 | chr1 |

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|------------------|------------|------------|------------|------|-----------|-------|
| A_11_P0000027256 | 3.3728302 | 1.7539597 | 3.3728302 | up | | chr16 |
| A_11_P0000020189 | 4.327247 | 2.1134496 | 4.327247 | up | TACR1 | chr17 |
| A_11_P0000017228 | -20.242926 | -4.339346 | 20.242926 | down | | chr6 |
| A_11_P183753 | 13.6393585 | 3.7697039 | 13.6393585 | up | | chr1 |
| A_11_P0000028128 | -12.762327 | -3.6738195 | 12.762327 | down | SERPINB7 | chr1 |
| A_11_P169513 | 6.661929 | 2.73594 | 6.661929 | up | | chr2 |
| A_11_P216118 | 3.0582354 | 1.6126995 | 3.0582354 | up | | chr35 |
| A_11_P173688 | 7.6929517 | 2.9435372 | 7.6929517 | up | | chr1 |
| A_11_P095631 | -8.380045 | -3.066958 | 8.380045 | down | SHOC1 | chr11 |
| A_11_P0000016691 | -10.346941 | -3.3711324 | 10.346941 | down | | chr6 |
| A_11_P140156 | 10.172346 | 3.3465805 | 10.172346 | up | LOC608848 | chr38 |
| A_11_P089646 | -3.2348256 | -1.6936879 | 3.2348256 | down | TIMP3 | chr10 |
| A_11_P058556 | -3.2588618 | -1.7043681 | 3.2588618 | down | IGSF11 | chr33 |
| A_11_P201883 | 4.280214 | 2.097683 | 4.280214 | up | FRZB | chr36 |
| A_11_P163993 | -3.7497802 | -1.906806 | 3.7497802 | down | ALPK2 | chr1 |
| A_11_P081686 | -70.87912 | -6.147289 | 70.87912 | down | KRT26 | chr9 |
| A_11_P0000019803 | -3.112813 | -1.6382189 | 3.112813 | down | TGM1 | chr8 |
| A_11_P136266 | 23.405338 | 4.5487657 | 23.405338 | up | | chr21 |
| A_11_P168033 | 19.03307 | 4.2504363 | 19.03307 | up | | chr27 |
| A_11_P0000024726 | 4.3758965 | 2.1295786 | 4.3758965 | up | ZG16 | chr6 |
| A_11_P059081 | 3.7086508 | 1.8908944 | 3.7086508 | up | | chr32 |
| A_11_P0000020023 | 3.0162566 | 1.5927591 | 3.0162566 | up | SLC6A6 | chr20 |
| A_11_P0000039153 | 3.5082092 | 1.8107347 | 3.5082092 | up | | chr8 |
| A_11_P0000022217 | 3.2361057 | 1.6942587 | 3.2361057 | up | ARRDC5 | chr20 |
| A_11_P0000023879 | -3.8535635 | -1.9461932 | 3.8535635 | down | SCN3A | chr36 |
| A_11_P0000039117 | 18.813694 | 4.2337112 | 18.813694 | up | SPEG | chr37 |
| A_11_P194313 | -5.442729 | -2.4443302 | 5.442729 | down | | chr1 |
| A_11_P086306 | 27.615229 | 4.787392 | 27.615229 | up | TTC29 | chr15 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P0000015488 | -3.753598 | -1.9082742 | 3.753598 | down | ARHGEF18 | chr20 |
| A_11_P0000040016 | -5.440326 | -2.4436932 | 5.440326 | down | | chr2 |
| A_11_P0000041070 | 5.6276393 | 2.4925299 | 5.6276393 | up | | chr1 |
| A_11_P125081 | 4.0178413 | 2.0064206 | 4.0178413 | up | NPR3 | chr4 |
| A_11_P156263 | -289.87228 | -8.179274 | 289.87228 | down | ACTA1 | chr4 |
| A_11_P151018 | 3.7513742 | 1.9074192 | 3.7513742 | up | | chr28 |
| A_11_P070381 | -3.314202 | -1.7286615 | 3.314202 | down | SCARA5 | chr25 |
| A_11_P0000025430 | 4.4015408 | 2.1380086 | 4.4015408 | up | | chr9 |
| A_11_P125891 | -3.4487252 | -1.7860632 | 3.4487252 | down | HSPA2 | chr8 |
| A_11_P209873 | 3.4884348 | 1.8025799 | 3.4884348 | up | | chr38 |
| A_11_P0000011241 | -4.012635 | -2.00455 | 4.012635 | down | | chr26 |
| A_11_P0000027526 | -7.668102 | -2.9388695 | 7.668102 | down | LOC483211 | chr17 |
| A_11_P0000026624 | -8.645971 | -3.1120281 | 8.645971 | down | SLC39A4 | chr13 |
| A_11_P182633 | 3.2116504 | 1.6833148 | 3.2116504 | up | | chr2 |
| A_11_P00000915 | 45.189877 | 5.4979277 | 45.189877 | up | NOS2 | chr9 |
| A_11_P154078 | -5.1173983 | -2.3554106 | 5.1173983 | down | | chr1 |
| A_11_P167388 | 3.2271857 | 1.6902766 | 3.2271857 | up | SLC6A6 | chr20 |
| A_11_P0000041779 | 5.2513065 | 2.3926764 | 5.2513065 | up | | chr15 |
| A_11_P0000041990 | 3.4577763 | 1.7898445 | 3.4577763 | up | | chr16 |
| A_11_P0000021957 | 3.340552 | 1.7400866 | 3.340552 | up | APOE | chr1 |
| A_11_P0000030231 | -3.5193326 | -1.8153019 | 3.5193326 | down | LIPM | chr26 |
| A_11_P0000039087 | 3.2153795 | 1.684989 | 3.2153795 | up | | chr26 |
| A_11_P0000024648 | -7.80682 | -2.964735 | 7.80682 | down | TPPP3 | chr5 |
| A_11_P130601 | 5.298447 | 2.4055696 | 5.298447 | up | | chr27 |
| A_11_P0000028288 | 4.338971 | 2.117353 | 4.338971 | up | GNA14 | chr1 |
| A_11_P0000018648 | 3.7404952 | 1.9032292 | 3.7404952 | up | | chr1 |
| A_11_P0000026397 | 5.084672 | 2.3461547 | 5.084672 | up | PTK7 | chr12 |
| A_11_P0000019749 | -5.947863 | -2.5723715 | 5.947863 | down | PTGS1 | chr9 |

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| A_11_P0000021722 | 7.568547 | 2.9200163 | 7.568547 | up | ENPP1 | chr1 |
| A_11_P0000019699 | 3.61493 | 1.8539677 | 3.61493 | up | BHLHE41 | chr27 |
| A_11_P133726 | 3.047595 | 1.6076713 | 3.047595 | up | | chr24 |
| A_11_P0000030336 | -3.1856735 | -1.6715984 | 3.1856735 | down | ENDOU | chr27 |
| A_11_P0000017174 | -4.7199526 | -2.2387724 | 4.7199526 | down | | chr10 |
| A_11_P000002811 | 12.568251 | 3.651712 | 12.568251 | up | | chr10 |
| A_11_P210608 | 3.0069597 | 1.5883055 | 3.0069597 | up | TNNI3 | chr1 |
| A_11_P112196 | 9.677497 | 3.274634 | 9.677497 | up | TTYH1 | chr1 |
| A_11_P0000022296 | -3.9184046 | -1.9702663 | 3.9184046 | down | | chr21 |
| A_11_P076921 | 3.232172 | 1.6925039 | 3.232172 | up | VAV1 | chr20 |
| A_11_P051431 | 4.700381 | 2.2327776 | 4.700381 | up | FN1 | chr37 |
| A_11_P0000027228 | 12.179591 | 3.6063938 | 12.179591 | up | PLAT | chr16 |
| A_11_P113241 | -4.997082 | -2.321086 | 4.997082 | down | CNFN | chr1 |
| A_11_P111771 | -4.1179733 | -2.0419345 | 4.1179733 | down | BARX1 | chr1 |
| A_11_P000002695 | -3.6367998 | -1.8626695 | 3.6367998 | down | HSPB8 | chr26 |
| A_11_P0000030985 | -3.072645 | -1.6194811 | 3.072645 | down | GRHL3 | chr2 |
| A_11_P057871 | -251.40695 | -7.973881 | 251.40695 | down | MYL1 | chr37 |
| A_11_P0000015444 | 4.639699 | 2.2140312 | 4.639699 | up | | chr11 |
| A_11_P203808 | 6.956701 | 2.7984033 | 6.956701 | up | FGF1 | chr2 |
| A_11_P087396 | -10.881048 | -3.4437456 | 10.881048 | down | IL1F10 | chr17 |
| A_11_P0000020162 | -12.6021595 | -3.655599 | 12.6021595 | down | CYP1A2 | chr30 |
| A_11_P156993 | 3.6647854 | 1.8737288 | 3.6647854 | up | FXVD6 | chr5 |
| A_11_P079496 | -3.0164628 | -1.5928578 | 3.0164628 | down | HOXA7 | chr14 |
| A_11_P0000016445 | 4.3413033 | 2.1181283 | 4.3413033 | up | | chr12 |
| A_11_P0000016545 | 6.0272555 | 2.5915012 | 6.0272555 | up | IZUMO4 | chr20 |
| A_11_P087386 | -4.9502645 | -2.3075056 | 4.9502645 | down | IL36B | chr17 |
| A_11_P0000041971 | 19.595623 | 4.2924595 | 19.595623 | up | CIDEA | chr7 |
| A_11_P210858 | 3.8532426 | 1.946073 | 3.8532426 | up | | chr3 |

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| A_11_P0000030229 | -3.6845753 | -1.8814983 | 3.6845753 | down | | chr26 |
| A_11_P0000028070 | 10.208948 | 3.3517623 | 10.208948 | up | CYP27C1 | chr19 |
| A_11_P050456 | 5.9228473 | 2.5662909 | 5.9228473 | up | PTHLH | chr27 |
| A_11_P207018 | 3.254185 | 1.7022963 | 3.254185 | up | | chr24 |
| A_11_P100761 | -5.472997 | -2.452331 | 5.472997 | down | MUSTN1 | chrUn_AAEX03020161 |
| A_11_P086071 | -3.8191595 | -1.9332552 | 3.8191595 | down | | chr15 |
| A_11_P0000016813 | 14.81303 | 3.888795 | 14.81303 | up | | chr20 |
| A_11_P0000021956 | 27.441236 | 4.7782736 | 27.441236 | up | APOC1 | chr1 |
| A_11_P138721 | 3.2911248 | 1.7185807 | 3.2911248 | up | | chr26 |
| A_11_P0000014896 | 7.863913 | 2.9752474 | 7.863913 | up | DUSP6 | chr15 |
| A_11_P0000022666 | -3.2210019 | -1.6875095 | 3.2210019 | down | THSD1 | chr25 |
| A_11_P0000041077 | -5.203304 | -2.379428 | 5.203304 | down | | chr15 |
| A_11_P176078 | 7.9882054 | 2.9978714 | 7.9882054 | up | | chr4 |
| A_11_P0000040930 | 5.303039 | 2.4068193 | 5.303039 | up | | chr3 |
| A_11_P0000035030 | 3.0084128 | 1.5890026 | 3.0084128 | up | | chr18 |
| A_11_P190393 | 4.4432287 | 2.1516085 | 4.4432287 | up | | chr2 |
| A_11_P0000029420 | 5.7589755 | 2.5258121 | 5.7589755 | up | UGGT2 | chr22 |
| A_11_P0000011339 | -3.0691726 | -1.6178498 | 3.0691726 | down | | chr11 |
| A_11_P0000029567 | -4.0185065 | -2.0066595 | 4.0185065 | down | | chr23 |
| A_11_P0000019197 | -4.9642243 | -2.3115683 | 4.9642243 | down | | chr18 |
| A_11_P0000019821 | -4.7766323 | -2.2559938 | 4.7766323 | down | MSX2 | chr4 |
| A_11_P0000025218 | -3.330709 | -1.7358294 | 3.330709 | down | HSPA2 | chr8 |
| A_11_P0000028153 | 5.6289916 | 2.4928765 | 5.6289916 | up | MOXD1 | chr1 |
| A_11_P0000016840 | 5.340192 | 2.4168916 | 5.340192 | up | GPRASP2 | chrX |
| A_11_P0000030842 | 5.473326 | 2.4524179 | 5.473326 | up | GZMA | chr2 |
| A_11_P0000017272 | 3.6409636 | 1.8643203 | 3.6409636 | up | | chr17 |
| A_11_P148528 | -4.8779144 | -2.2862644 | 4.8779144 | down | NCCRP1 | chr1 |
| A_11_P0000033967 | -3.2873144 | -1.7169094 | 3.2873144 | down | KRT19 | chr9 |

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| A_11_P0000036218 | 3.473246 | 1.7962847 | 3.473246 | up | ST6GALNAC2 | chr9 |
| A_11_P0000023168 | -6.11928 | -2.6133618 | 6.11928 | down | | chr29 |
| A_11_P0000013975 | -3.280563 | -1.7139435 | 3.280563 | down | FAM160A1 | chr15 |
| A_11_P0000026847 | -3.7759123 | -1.9168253 | 3.7759123 | down | GGCT | chr14 |
| A_11_P0000030914 | -28.768772 | -4.8464317 | 28.768772 | down | PHC2 | chr2 |
| A_11_P116391 | 3.1256588 | 1.6441603 | 3.1256588 | up | | chr11 |
| A_11_P185903 | -4.167814 | -2.059291 | 4.167814 | down | | chr5 |
| A_11_P066181 | -145.49193 | -7.1847954 | 145.49193 | down | | chr27 |
| A_11_P000006038 | 3.2400978 | 1.6960373 | 3.2400978 | up | | chr23 |
| A_11_P0000032746 | -3.722987 | -1.8964605 | 3.722987 | down | TACSTD2 | chr5 |
| A_11_P050901 | 3.2062476 | 1.6808858 | 3.2062476 | up | PPARA | chr10 |
| A_11_P196893 | -5.317582 | -2.4107704 | 5.317582 | down | ACADVL | chr5 |
| A_11_P0000020841 | -3.4260383 | -1.7765412 | 3.4260383 | down | KHDRBS3 | chr13 |
| A_11_P210488 | -6.8030424 | -2.76618 | 6.8030424 | down | | chr25 |
| A_11_P0000018969 | 5.8077416 | 2.5379772 | 5.8077416 | up | | chr38 |
| A_11_P123881 | 5.865991 | 2.5523748 | 5.865991 | up | MAP1B | chr2 |
| A_11_P223878 | -3.6547928 | -1.8697896 | 3.6547928 | down | PLPP4 | chr28 |
| A_11_P0000039297 | 4.536686 | 2.1816387 | 4.536686 | up | FBLIM1 | chr2 |
| A_11_P181473 | 6.8322954 | 2.7723703 | 6.8322954 | up | | chrX |
| A_11_P095571 | 3.8346643 | 1.9391003 | 3.8346643 | up | CTNNAL1 | chr11 |
| A_11_P0000024914 | -3.3685877 | -1.7521439 | 3.3685877 | down | CTH | chr6 |
| A_11_P0000020962 | -3.1880224 | -1.6726618 | 3.1880224 | down | | chr14 |
| A_11_P186293 | -4.2943873 | -2.1024523 | 4.2943873 | down | BLMH | chr9 |
| A_11_P0000023648 | 3.1386023 | 1.6501222 | 3.1386023 | up | SNCA | chr32 |
| A_11_P050331 | 3.0148144 | 1.5920691 | 3.0148144 | up | CD8A | chr17 |
| A_11_P197073 | 19.239258 | 4.265981 | 19.239258 | up | | chr3 |
| A_11_P118791 | -6.626047 | -2.7281485 | 6.626047 | down | | chrX |
| A_11_P133951 | -6.3292894 | -2.6620436 | 6.3292894 | down | | chrX |

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| A_11_P0000019667 | -3.3340573 | -1.7372789 | 3.3340573 | down | DSG1 | chr7 |
| A_11_P0000014427 | 3.2701392 | 1.709352 | 3.2701392 | up | | chr29 |
| A_11_P0000021998 | -5.4538755 | -2.4472818 | 5.4538755 | down | DMKN | chr1 |
| A_11_P0000029047 | -7.771383 | -2.9581714 | 7.771383 | down | | chr20 |
| A_11_P170683 | 3.340085 | 1.7398849 | 3.340085 | up | COL12A1 | chr12 |
| A_11_P0000020562 | 4.232268 | 2.081431 | 4.232268 | up | NPR2 | chr11 |
| A_11_P169348 | 3.379634 | 1.7568669 | 3.379634 | up | CFAP70 | chr4 |
| A_11_P108791 | -3.6141224 | -1.8536453 | 3.6141224 | down | SERINC5 | chr3 |
| A_11_P0000040087 | 3.3017292 | 1.7232218 | 3.3017292 | up | | chrX |
| A_11_P0000016953 | 3.0202768 | 1.5946808 | 3.0202768 | up | | chr14 |
| A_11_P069466 | -7.4833198 | -2.9036784 | 7.4833198 | down | LYVE1 | chr21 |
| A_11_P0000021417 | -5.302236 | -2.406601 | 5.302236 | down | | chr17 |
| A_11_P050776 | 8.362838 | 3.0639925 | 8.362838 | up | DMD | chrX |
| A_11_P0000021302 | -3.8943636 | -1.9613876 | 3.8943636 | down | ATP6V1C2 | chr17 |
| A_11_P0000024992 | 3.5906188 | 1.8442326 | 3.5906188 | up | F5 | chr7 |
| A_11_P058281 | 5.8268223 | 2.5427094 | 5.8268223 | up | ST3GAL6 | chr33 |
| A_11_P204043 | -3.81515 | -1.9317398 | 3.81515 | down | NUAK2 | chr38 |
| A_11_P095951 | -6.3373003 | -2.6638684 | 6.3373003 | down | CLDN4 | chr6 |
| A_11_P054956 | -4.39761 | -2.1367197 | 4.39761 | down | HSPB8 | chr26 |
| A_11_P059116 | 4.00144 | 2.0005193 | 4.00144 | up | PLAC8A | chr32 |
| A_11_P065455 | -7.4443474 | -2.8961453 | 7.4443474 | down | KRT71 | chr27 |
| A_11_P169253 | -3.5365272 | -1.8223333 | 3.5365272 | down | | chr1 |
| A_11_P0000018737 | 3.1587594 | 1.659358 | 3.1587594 | up | | chr16 |
| A_11_P0000018739 | 4.466038 | 2.1589956 | 4.466038 | up | | chr1 |
| A_11_P0000017953 | -3.030337 | -1.5994782 | 3.030337 | down | PKP1 | chr7 |
| A_11_P157453 | -168.78548 | -7.399047 | 168.78548 | down | | chr4 |
| A_11_P193163 | -3.3308654 | -1.7358971 | 3.3308654 | down | | chr17 |
| A_11_P222143 | -3.9923737 | -1.9972467 | 3.9923737 | down | FETUB | chr34 |

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| A_11_P058821 | 7.1036186 | 2.8285542 | 7.1036186 | up | SLC51A | chr33 |
| A_11_P057981 | 6.36965 | 2.671214 | 6.36965 | up | VIL1 | chr37 |
| A_11_P0000033738 | 13.317205 | 3.7352195 | 13.317205 | up | SIX1 | chr8 |
| A_11_P0000021552 | -3.1090312 | -1.6364651 | 3.1090312 | down | CD59 | chr18 |
| A_11_P105091 | 3.1724007 | 1.665575 | 3.1724007 | up | ESM1 | chr4 |
| A_11_P154368 | -3.6044798 | -1.849791 | 3.6044798 | down | | chr16 |
| A_11_P141095 | -3.1056542 | -1.6348972 | 3.1056542 | down | CXXC4 | chr32 |
| A_11_P0000022720 | -4.858267 | -2.2804418 | 4.858267 | down | MFAP3L | chr25 |
| A_11_P0000037206 | -5.11232 | -2.3539782 | 5.11232 | down | | chr35 |
| A_11_P0000027330 | -4.6654286 | -2.2220097 | 4.6654286 | down | KCNS3 | chr17 |
| A_11_P167858 | -93.130974 | -6.541189 | 93.130974 | down | ACTA1 | chr4 |
| A_11_P0000019878 | 3.1233516 | 1.643095 | 3.1233516 | up | DHDH | chr1 |
| A_11_P091461 | -4.1240754 | -2.0440707 | 4.1240754 | down | ADGRF4 | chr12 |
| A_11_P137026 | -6.530042 | -2.7070923 | 6.530042 | down | | chr17 |
| A_11_P0000026443 | 3.9888625 | 1.9959774 | 3.9888625 | up | EYS | chr12 |
| A_11_P193768 | 5.8888435 | 2.5579844 | 5.8888435 | up | | chr27 |
| A_11_P102086 | 4.729094 | 2.2415638 | 4.729094 | up | | chr2 |
| A_11_P093346 | 4.271249 | 2.094658 | 4.271249 | up | | chr8 |
| A_11_P0000016988 | 4.643783 | 2.2153006 | 4.643783 | up | | chr1 |
| A_11_P000004762 | 3.8294334 | 1.9371309 | 3.8294334 | up | LIPA | chr26 |
| A_11_P180573 | 4.240341 | 2.0841804 | 4.240341 | up | | chr4 |
| A_11_P000005138 | -4.4457145 | -2.1524153 | 4.4457145 | down | BLMH | chr9 |
| A_11_P168778 | 5.2239995 | 2.3851547 | 5.2239995 | up | | chr9 |
| A_11_P0000011183 | 3.1064355 | 1.6352601 | 3.1064355 | up | | chr27 |
| A_11_P050581 | -3.8922071 | -1.9605885 | 3.8922071 | down | EDN2 | chr15 |
| A_11_P0000015420 | 4.6644526 | 2.2217078 | 4.6644526 | up | MSRB1 | chr6 |
| A_11_P0000020096 | -4.2485886 | -2.0869837 | 4.2485886 | down | CCL27 | chr11 |
| A_11_P174728 | -8.445907 | -3.0782523 | 8.445907 | down | | chr28 |

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| A_11_P0000028408 | -4.845385 | -2.2766113 | 4.845385 | down | EPS8L1 | chr1 |
| A_11_P050876 | -4.6673813 | -2.2226133 | 4.6673813 | down | AOX4 | chr37 |
| A_11_P0000040543 | 3.7916574 | 1.9228287 | 3.7916574 | up | | chr1 |
| A_11_P206063 | -111.497536 | -6.800868 | 111.497536 | down | | chr10 |
| A_11_P0000023938 | -7.0489907 | -2.8174167 | 7.0489907 | down | SLC40A1 | chr37 |
| A_11_P165918 | 4.3128657 | 2.1086469 | 4.3128657 | up | | chr9 |
| A_11_P071406 | 3.1332426 | 1.6476564 | 3.1332426 | up | NEK10 | chr23 |
| A_11_P055886 | -3.0773914 | -1.6217079 | 3.0773914 | down | VSIG8 | chr38 |
| A_11_P0000021321 | -5.0636396 | -2.3401747 | 5.0636396 | down | | chr17 |
| A_11_P138356 | -3.2593517 | -1.7045851 | 3.2593517 | down | | chr17 |
| A_11_P202793 | -5.027103 | -2.3297272 | 5.027103 | down | | chr30 |
| A_11_P059076 | 4.831985 | 2.272616 | 4.831985 | up | TMEM150C | chr32 |
| A_11_P183898 | 3.2549088 | 1.7026172 | 3.2549088 | up | | chr1 |
| A_11_P109071 | -3.2884684 | -1.7174158 | 3.2884684 | down | | chr3 |
| A_11_P0000013965 | 3.5430696 | 1.8249998 | 3.5430696 | up | | chr3 |
| A_11_P112591 | -3.658543 | -1.8712692 | 3.658543 | down | | chr1 |
| A_11_P090711 | -4.976473 | -2.3151236 | 4.976473 | down | LY6G6C | chr12 |
| A_11_P00000293 | 3.3421435 | 1.7407737 | 3.3421435 | up | NEK10 | chr23 |
| A_11_P064131 | -3.2796829 | -1.7135563 | 3.2796829 | down | SDR16C5 | chr29 |
| A_11_P0000020101 | 3.5381699 | 1.8230033 | 3.5381699 | up | CCL4 | chr9 |
| A_11_P087391 | -8.318179 | -3.0562677 | 8.318179 | down | IL36RN | chr17 |
| A_11_P078496 | -3.46467 | -1.7927179 | 3.46467 | down | | chr16 |
| A_11_P103881 | 3.4276183 | 1.7772064 | 3.4276183 | up | RYS2 | chr4 |
| A_11_P162178 | 5.1976657 | 2.377864 | 5.1976657 | up | | chr36 |
| A_11_P063781 | 4.476349 | 2.1623225 | 4.476349 | up | RGS10 | chr28 |
| A_11_P112551 | -6.637274 | -2.7305908 | 6.637274 | down | KLK11 | chr1 |
| A_11_P0000016665 | -3.3571937 | -1.7472558 | 3.3571937 | down | | chr36 |
| A_11_P0000017317 | 4.4592195 | 2.1567912 | 4.4592195 | up | | chrX |

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| A_11_P126586 | -13.063823 | -3.7075052 | 13.063823 | down | | chr22 |
| A_11_P0000034762 | -3.2520013 | -1.7013278 | 3.2520013 | down | PCDH19 | chrX |
| A_11_P0000016910 | 41.718517 | 5.382616 | 41.718517 | up | CHI3L1 | chr7 |
| A_11_P126116 | -3.1135795 | -1.6385741 | 3.1135795 | down | | chr9 |
| A_11_P0000014057 | -3.6819773 | -1.8804808 | 3.6819773 | down | | chr13 |
| A_11_P0000029777 | 3.019129 | 1.5941324 | 3.019129 | up | ZBP1 | chr24 |
| A_11_P119216 | 3.5316703 | 1.8203506 | 3.5316703 | up | | chr17 |
| A_11_P0000026427 | 5.2253566 | 2.3855295 | 5.2253566 | up | LOC610304 | chr12 |
| A_11_P190758 | -9.049265 | -3.1778007 | 9.049265 | down | CRYM | chr6 |
| A_11_P0000032654 | 3.9948406 | 1.998138 | 3.9948406 | up | VMO1 | chr5 |
| A_11_P095421 | 3.7557685 | 1.9091082 | 3.7557685 | up | HEMGN | chr11 |
| A_11_P0000031874 | 20.686544 | 4.3706207 | 20.686544 | up | IGFBP2 | chr37 |
| A_11_P0000027921 | -3.067183 | -1.6169143 | 3.067183 | down | RPS6KB2 | chr18 |
| A_11_P138456 | 4.3348327 | 2.1159763 | 4.3348327 | up | | chr13 |
| A_11_P055506 | -5.2147183 | -2.3825893 | 5.2147183 | down | CFH | chr38 |
| A_11_P098071 | -3.4426608 | -1.783524 | 3.4426608 | down | KIAA1107 | chr6 |
| A_11_P069866 | -7.4658732 | -2.900311 | 7.4658732 | down | POSTN | chr25 |
| A_11_P154223 | 7.6402583 | 2.9336214 | 7.6402583 | up | | chr6 |
| A_11_P0000019331 | 3.491442 | 1.803823 | 3.491442 | up | | chr22 |
| A_11_P0000027853 | 3.5279953 | 1.8188486 | 3.5279953 | up | NR1H3 | chr18 |
| A_11_P155538 | 5.4868546 | 2.4559793 | 5.4868546 | up | | chr21 |
| A_11_P088246 | -6.731157 | -2.7508545 | 6.731157 | down | THEM5 | chr17 |
| A_11_P217733 | -3.2980602 | -1.7216177 | 3.2980602 | down | | chr5 |
| A_11_P135131 | -3.4145718 | -1.7717047 | 3.4145718 | down | | chr5 |
| A_11_P0000016284 | 3.2787876 | 1.7131624 | 3.2787876 | up | | chr29 |
| A_11_P062281 | 4.634583 | 2.2124395 | 4.634583 | up | GLDN | chr30 |
| A_11_P0000040246 | 4.8240557 | 2.2702465 | 4.8240557 | up | | chr10 |
| A_11_P0000017140 | -4.3143115 | -2.1091304 | 4.3143115 | down | | chr25 |

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|------------------|------------|------------|-----------|------|--------------|-------|
| A_11_P057056 | -5.9574666 | -2.574699 | 5.9574666 | down | ABCB11 | chr36 |
| A_11_P108796 | -3.3224936 | -1.7322664 | 3.3224936 | down | THBS4 | chr3 |
| A_11_P091916 | 4.8294635 | 2.271863 | 4.8294635 | up | EPHA7 | chr12 |
| A_11_P050501 | -10.621507 | -3.4089165 | 10.621507 | down | MYOZ1 | chr4 |
| A_11_P0000026837 | -3.9830592 | -1.9938769 | 3.9830592 | down | SKAP2 | chr14 |
| A_11_P00000343 | 6.0698957 | 2.6016717 | 6.0698957 | up | PPP2R2B | chr2 |
| A_11_P210929 | -131.12865 | -7.034839 | 131.12865 | down | MYLPF | chr6 |
| A_11_P0000016153 | -3.739783 | -1.9029546 | 3.739783 | down | | chr16 |
| A_11_P107726 | -7.000241 | -2.8074045 | 7.000241 | down | CA6 | chr5 |
| A_11_P0000023284 | 5.053137 | 2.3371792 | 5.053137 | up | PPP2R2B | chr2 |
| A_11_P0000028449 | -4.2145553 | -2.0753803 | 4.2145553 | down | KLK8 | chr1 |
| A_11_P164978 | 19.664474 | 4.2975197 | 19.664474 | up | KRT13 | chr9 |
| A_11_P0000033011 | -5.515439 | -2.4634757 | 5.515439 | down | TMEM130 | chr6 |
| A_11_P0000019683 | -3.254244 | -1.7023225 | 3.254244 | down | EDN1 | chr35 |
| A_11_P093786 | 6.0742626 | 2.6027093 | 6.0742626 | up | LOC480425 | chr8 |
| A_11_P074591 | -3.1601012 | -1.6599708 | 3.1601012 | down | SLC22A10 | chr18 |
| A_11_P199098 | -14.803609 | -3.887877 | 14.803609 | down | SLC39A4 | chr13 |
| A_11_P211833 | -3.6406038 | -1.8641777 | 3.6406038 | down | | chr23 |
| A_11_P0000030814 | 6.59609 | 2.721611 | 6.59609 | up | LOC106557817 | chr2 |
| A_11_P0000017190 | 6.2046113 | 2.6333408 | 6.2046113 | up | | chr23 |
| A_11_P0000017070 | -3.430828 | -1.7785568 | 3.430828 | down | | chr16 |
| A_11_P202683 | -5.3478737 | -2.4189653 | 5.3478737 | down | GDA | chr1 |
| A_11_P162078 | 3.8466983 | 1.9436207 | 3.8466983 | up | PIAS2 | chr7 |
| A_11_P055261 | 4.48553 | 2.1652784 | 4.48553 | up | SAA1 | chr21 |
| A_11_P0000016404 | 10.498572 | 3.3921213 | 10.498572 | up | REEP2 | chr11 |
| A_11_P051436 | 6.271947 | 2.6489134 | 6.271947 | up | FN1 | chr37 |
| A_11_P212938 | 3.4992795 | 1.8070579 | 3.4992795 | up | | chr25 |
| A_11_P0000015943 | -3.7455378 | -1.9051728 | 3.7455378 | down | | chr5 |

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| A_11_P071806 | -3.19388 | -1.6753101 | 3.19388 | down | PLSCR4 | chr23 |
| A_11_P141210 | 3.0469837 | 1.6073818 | 3.0469837 | up | GTF2IRD1 | chr6 |
| A_11_P0000021963 | 3.276441 | 1.7121296 | 3.276441 | up | PLAUR | chr1 |
| A_11_P0000032683 | -6.5906024 | -2.7204103 | 6.5906024 | down | ALOXE3 | chr5 |
| A_11_P0000032712 | 3.11731 | 1.6403017 | 3.11731 | up | | chr5 |
| A_11_P0000026817 | -3.0078163 | -1.5887165 | 3.0078163 | down | MACC1 | chr14 |
| A_11_P0000028752 | -3.9681609 | -1.9884706 | 3.9681609 | down | PDZRN3 | chr20 |
| A_11_P0000026224 | -4.049114 | -2.0176063 | 4.049114 | down | FRMPD1 | chr11 |
| A_11_P081791 | -8.573339 | -3.0998573 | 8.573339 | down | TCAP | chr9 |
| A_11_P0000017223 | 11.069402 | 3.4685054 | 11.069402 | up | LAMC3 | chr9 |
| A_11_P0000032046 | 9.089694 | 3.1842318 | 9.089694 | up | HAPLN3 | chr3 |
| A_11_P063651 | 19.862312 | 4.3119617 | 19.862312 | up | ACSL5 | chr28 |
| A_11_P051416 | -17.768333 | -4.1512365 | 17.768333 | down | TTN | chr36 |
| A_11_P0000034640 | 7.175043 | 2.8429875 | 7.175043 | up | NDP | chrX |
| A_11_P098671 | -3.7756205 | -1.9167137 | 3.7756205 | down | CD55 | chr7 |
| A_11_P0000019992 | 4.3352065 | 2.1161008 | 4.3352065 | up | ADORA2A | chr26 |
| A_11_P054836 | 10.447118 | 3.3850331 | 10.447118 | up | FN1 | chr37 |
| A_11_P0000019723 | -4.3343515 | -2.115816 | 4.3343515 | down | SLC46A2 | chr11 |
| A_11_P0000028298 | -5.9860506 | -2.5816045 | 5.9860506 | down | GDA | chr1 |
| A_11_P000001659 | -15.930315 | -3.993703 | 15.930315 | down | HOXA3 | chr14 |
| A_11_P177918 | -3.3504906 | -1.7443724 | 3.3504906 | down | TIMP3 | chr10 |
| A_11_P0000022200 | -3.8916295 | -1.9603744 | 3.8916295 | down | KANK3 | chr20 |
| A_11_P050186 | -5.7478814 | -2.5230303 | 5.7478814 | down | SLC6A4 | chr9 |
| A_11_P0000027928 | -3.761472 | -1.9112973 | 3.761472 | down | KDM2A | chr18 |
| A_11_P062276 | -4.3889704 | -2.1338825 | 4.3889704 | down | TNFAIP8L3 | chr30 |
| A_11_P0000032103 | -6.01718 | -2.5890875 | 6.01718 | down | CPZ | chr3 |
| A_11_P0000039789 | -3.0572724 | -1.6122451 | 3.0572724 | down | | chr17 |
| A_11_P190843 | -3.0855596 | -1.6255322 | 3.0855596 | down | MYOZ1 | chr4 |

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| A_11_P085421 | -5.071421 | -2.34239 | 5.071421 | down | PDZK1IP1 | chr15 |
| A_11_P0000023436 | 18.106182 | 4.1784105 | 18.106182 | up | FBXO2 | chr2 |
| A_11_P0000021444 | -3.2088501 | -1.6820564 | 3.2088501 | down | ANKRD35 | chr17 |
| A_11_P179153 | -4.3574386 | -2.1234803 | 4.3574386 | down | RGS4 | chr38 |
| A_11_P055156 | 3.8975766 | 1.9625773 | 3.8975766 | up | SLC12A4 | chr5 |
| A_11_P0000028442 | 3.1218407 | 1.6423969 | 3.1218407 | up | LOC100686511 | chr1 |
| A_11_P0000021537 | -4.076855 | -2.0274568 | 4.076855 | down | SEMA3C | chr18 |
| A_11_P147853 | -4.7595067 | -2.250812 | 4.7595067 | down | EDN2 | chr15 |
| A_11_P0000015072 | -9.513852 | -3.2500296 | 9.513852 | down | | chr13 |
| A_11_P0000033971 | -10.591124 | -3.4047837 | 10.591124 | down | KRT32 | chr9 |
| A_11_P0000032805 | 3.2944038 | 1.7200174 | 3.2944038 | up | ESPN | chr5 |
| A_11_P0000039043 | 3.3379407 | 1.7389584 | 3.3379407 | up | RANBP17 | chr4 |
| A_11_P134571 | 117.3354 | 6.8744946 | 117.3354 | up | STRA6 | chr30 |
| A_11_P0000028601 | -6.1589847 | -2.6226926 | 6.1589847 | down | ACP7 | chr1 |
| A_11_P000004807 | 4.921109 | 2.2989836 | 4.921109 | up | | chr2 |
| A_11_P0000019946 | -8.840838 | -3.1441832 | 8.840838 | down | DCN | chr15 |
| A_11_P167743 | -3.3385444 | -1.7392192 | 3.3385444 | down | CD248 | chr18 |
| A_11_P087991 | 6.1239514 | 2.6144629 | 6.1239514 | up | CD160 | chr17 |
| A_11_P0000025562 | 4.8950763 | 2.2913313 | 4.8950763 | up | | chr21 |
| A_11_P0000037079 | 3.5204356 | 1.8157539 | 3.5204356 | up | | chr3 |
| A_11_P208458 | -3.5530047 | -1.8290396 | 3.5530047 | down | | chr12 |
| A_11_P0000027554 | 3.1372912 | 1.6495194 | 3.1372912 | up | INHBA | chr18 |
| A_11_P000007321 | 16.40082 | 4.035696 | 16.40082 | up | | chr7 |
| A_11_P148433 | 4.554138 | 2.1871781 | 4.554138 | up | TCP11 | chr12 |
| A_11_P148608 | 4.384777 | 2.1325035 | 4.384777 | up | MPP6 | chr14 |
| A_11_P0000024717 | -147.04932 | -7.200156 | 147.04932 | down | MYLPF | chr6 |
| A_11_P0000025429 | 7.646839 | 2.9348636 | 7.646839 | up | CCL23 | chr9 |
| A_11_P0000031821 | -5.650036 | -2.49826 | 5.650036 | down | | chr37 |

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|------------------|------------|------------|-----------|------|-----------|-------|
| A_11_P178153 | 4.729413 | 2.241661 | 4.729413 | up | | chr8 |
| A_11_P0000026403 | 4.9741774 | 2.314458 | 4.9741774 | up | DLK2 | chr12 |
| A_11_P0000025274 | 7.2650723 | 2.8609772 | 7.2650723 | up | LOC480425 | chr8 |
| A_11_P0000018601 | 3.1393232 | 1.6504536 | 3.1393232 | up | | chr7 |
| A_11_P0000015383 | 4.7006326 | 2.2328548 | 4.7006326 | up | ZNF423 | chr2 |
| A_11_P0000010601 | -4.26473 | -2.0924544 | 4.26473 | down | | chr1 |
| A_11_P0000019116 | 3.3294246 | 1.7352729 | 3.3294246 | up | TMEM98 | chr9 |
| A_11_P0000027528 | -4.052953 | -2.0189734 | 4.052953 | down | CRNN | chr17 |
| A_11_P171413 | 4.252431 | 2.0882878 | 4.252431 | up | DPEP1 | chr5 |
| A_11_P0000025856 | -3.063711 | -1.6152802 | 3.063711 | down | RAB3IP | chr10 |
| A_11_P0000016517 | -3.3595603 | -1.7482724 | 3.3595603 | down | | chr7 |
| A_11_P057186 | -5.916197 | -2.56467 | 5.916197 | down | GPR155 | chr36 |
| A_11_P0000025698 | -3.4089763 | -1.7693386 | 3.4089763 | down | GDPD2 | chrX |
| A_11_P0000021997 | -3.413316 | -1.771174 | 3.413316 | down | GAPDHS | chr1 |
| A_11_P123561 | -3.6834235 | -1.8810472 | 3.6834235 | down | | chr35 |
| A_11_P0000026943 | -3.9526718 | -1.9828281 | 3.9526718 | down | GJB5 | chr15 |
| A_11_P188463 | -256.1205 | -8.000679 | 256.1205 | down | ACTA1 | chr4 |
| A_11_P119426 | -7.7482104 | -2.9538631 | 7.7482104 | down | DPT | chr7 |
| A_11_P110326 | -4.5148225 | -2.1746693 | 4.5148225 | down | RAB27B | chr1 |
| A_11_P115366 | 5.4463224 | 2.4452825 | 5.4463224 | up | TCEAL3 | chrX |
| A_11_P157873 | -7.982528 | -2.9968457 | 7.982528 | down | OTUB2 | chr8 |
| A_11_P059526 | -3.0917735 | -1.6284347 | 3.0917735 | down | FAM241A | chr32 |
| A_11_P187738 | -3.8088617 | -1.9293599 | 3.8088617 | down | | chr16 |
| A_11_P053266 | 6.2401576 | 2.6415825 | 6.2401576 | up | DMD | chrX |
| A_11_P0000039955 | 3.1472242 | 1.6540799 | 3.1472242 | up | ADGRB1 | chr13 |
| A_11_P0000024763 | 3.6784024 | 1.8790793 | 3.6784024 | up | | chr6 |
| A_11_P0000029428 | -5.0171137 | -2.3268576 | 5.0171137 | down | ITGBL1 | chr22 |
| A_11_P201108 | 16.000645 | 4.000058 | 16.000645 | up | TMEM144 | chr15 |

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| A_11_P0000030363 | 3.894078 | 1.9612818 | 3.894078 | up | ARNTL2 | chr27 |
| A_11_P0000033641 | 3.5335746 | 1.8211284 | 3.5335746 | up | | chr8 |
| A_11_P0000031894 | 10.220531 | 3.3533983 | 10.220531 | up | SLC4A3 | chr37 |
| A_11_P053366 | -247.02104 | -7.94849 | 247.02104 | down | LOC609402 | chr21 |
| A_11_P218668 | -250.0255 | -7.9659314 | 250.0255 | down | HBE1 | chr21 |
| A_11_P058981 | -3.3985307 | -1.7649112 | 3.3985307 | down | SHROOM3 | chr32 |
| A_11_P072691 | 3.0983348 | 1.6314931 | 3.0983348 | up | EGFR | chr18 |
| A_11_P103946 | -3.4252174 | -1.7761955 | 3.4252174 | down | DISC1 | chr4 |
| A_11_P114966 | -3.515487 | -1.8137245 | 3.515487 | down | GDPD2 | chrX |
| A_11_P225193 | 4.9737926 | 2.3143463 | 4.9737926 | up | MEIS1 | chr10 |
| A_11_P0000028434 | -7.4370995 | -2.89474 | 7.4370995 | down | PPP2R1A | chr1 |
| A_11_P0000027175 | -3.8289247 | -1.9369392 | 3.8289247 | down | ATP6V0A4 | chr16 |
| A_11_P0000039507 | 4.6272545 | 2.2101564 | 4.6272545 | up | | chr18 |
| A_11_P0000039298 | 8.576072 | 3.100317 | 8.576072 | up | | chr4 |
| A_11_P209323 | -5.5694094 | -2.4775243 | 5.5694094 | down | RORA | chr30 |
| A_11_P0000017128 | 5.1946707 | 2.3770323 | 5.1946707 | up | | chr26 |
| A_11_P0000023162 | -3.4715316 | -1.7955723 | 3.4715316 | down | SDR16C5 | chr29 |
| A_11_P128516 | -3.2681584 | -1.708478 | 3.2681584 | down | | chr9 |
| A_11_P205438 | -281.38733 | -8.136414 | 281.38733 | down | MYL1 | chr37 |
| A_11_P0000017310 | 7.8116183 | 2.9656215 | 7.8116183 | up | | chr6 |
| A_11_P0000019999 | -4.6414704 | -2.214582 | 4.6414704 | down | TSHR | chr8 |
| A_11_P111461 | -3.4498403 | -1.7865295 | 3.4498403 | down | ALDH1A1 | chr1 |
| A_11_P077596 | -3.118755 | -1.6409702 | 3.118755 | down | TRPV6 | chr16 |
| A_11_P152253 | -3.9282753 | -1.973896 | 3.9282753 | down | DGAT2 | chr21 |
| A_11_P0000034628 | 3.334883 | 1.7376361 | 3.334883 | up | CYBB | chrX |
| A_11_P000005504 | -3.1818748 | -1.669877 | 3.1818748 | down | | chr30 |
| A_11_P0000031676 | -4.0803347 | -2.0286875 | 4.0803347 | down | RNF144B | chr35 |
| A_11_P103101 | 5.4095325 | 2.435504 | 5.4095325 | up | FABP3 | chr2 |

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| A_11_P195718 | 3.7022393 | 1.8883982 | 3.7022393 | up | | chr14 |
| A_11_P0000035525 | -4.2369833 | -2.0830374 | 4.2369833 | down | | chr6 |
| A_11_P0000017261 | 6.3218007 | 2.6603355 | 6.3218007 | up | | chr1 |
| A_11_P160783 | -4.5066347 | -2.1720505 | 4.5066347 | down | CYP1B1 | chr17 |
| A_11_P0000028450 | -4.0675454 | -2.0241585 | 4.0675454 | down | KLK5 | chr1 |
| A_11_P0000017263 | 10.352643 | 3.3719273 | 10.352643 | up | | chr8 |
| A_11_P071426 | 7.708783 | 2.9465032 | 7.708783 | up | RARB | chr23 |
| A_11_P0000019755 | -4.151541 | -2.053647 | 4.151541 | down | HSPB8 | chr26 |
| A_11_P135386 | 3.9687984 | 1.9887023 | 3.9687984 | up | | chr7 |
| A_11_P0000021542 | 3.5145807 | 1.8133526 | 3.5145807 | up | | chr18 |
| A_11_P107806 | 5.022227 | 2.3283272 | 5.022227 | up | DPEP1 | chr5 |
| A_11_P113426 | -6.159109 | -2.6227217 | 6.159109 | down | NCCRP1 | chr1 |
| A_11_P0000013005 | -3.1234848 | -1.6431565 | 3.1234848 | down | | |
| A_11_P189778 | 3.0042038 | 1.5869827 | 3.0042038 | up | CNTLN | chr11 |
| A_11_P155533 | 6.274269 | 2.6494474 | 6.274269 | up | DLC1 | chr16 |
| A_11_P000005612 | 3.7406 | 1.9032698 | 3.7406 | up | | chr3 |
| A_11_P138631 | -12.740319 | -3.6713295 | 12.740319 | down | | chr6 |
| A_11_P157393 | -3.1368184 | -1.649302 | 3.1368184 | down | | chr5 |
| A_11_P0000040799 | 8.981889 | 3.167019 | 8.981889 | up | | chr6 |
| A_11_P0000025328 | -4.127303 | -2.0451994 | 4.127303 | down | MAPT | chr9 |
| A_11_P112556 | -4.6959395 | -2.2314138 | 4.6959395 | down | KLK8 | chr1 |
| A_11_P0000031134 | 4.2002816 | 2.070486 | 4.2002816 | up | MYEF2 | chr30 |
| A_11_P0000022534 | -3.078669 | -1.6223068 | 3.078669 | down | FLRT3 | chr24 |
| A_11_P000004969 | -3.628646 | -1.8594313 | 3.628646 | down | | chr8 |
| A_11_P072776 | -6.634471 | -2.7299814 | 6.634471 | down | SFRP4 | chr18 |
| A_11_P131461 | 4.3697743 | 2.1275587 | 4.3697743 | up | | chr9 |
| A_11_P0000017408 | -5.3002667 | -2.406065 | 5.3002667 | down | | chr1 |
| A_11_P167523 | -3.6454115 | -1.8660817 | 3.6454115 | down | | chr20 |

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|------------------|------------|------------|-----------|------|---------|-------|
| A_11_P174508 | -3.4125566 | -1.770853 | 3.4125566 | down | | chr20 |
| A_11_P154413 | 4.417155 | 2.1431174 | 4.417155 | up | GLDC | chr11 |
| A_11_P0000030996 | 13.459533 | 3.7505565 | 13.459533 | up | C1QC | chr2 |
| A_11_P174363 | 3.8360105 | 1.9396067 | 3.8360105 | up | | chr2 |
| A_11_P0000013324 | -3.2336838 | -1.6931787 | 3.2336838 | down | | chr20 |
| A_11_P159578 | -3.371321 | -1.753314 | 3.371321 | down | THSD1 | chr25 |
| A_11_P068066 | 3.1488879 | 1.6548424 | 3.1488879 | up | CTSZ | chr24 |
| A_11_P172273 | 4.071099 | 2.0254183 | 4.071099 | up | | chr24 |
| A_11_P107991 | 4.6502247 | 2.2173004 | 4.6502247 | up | HSD17B2 | chr5 |
| A_11_P0000016300 | 7.7947254 | 2.9624982 | 7.7947254 | up | | chr10 |
| A_11_P224678 | -3.0164678 | -1.5928602 | 3.0164678 | down | | chr11 |