**Table S1. ChIP-on-chip Significant Bound Genes of Non-stimulated A549 Cells**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene ID | Chromosome | Peak Coordinate | Peak Height | Unigene ID | Entrez ID |
|  NDUFA3  | chr19 | 59297029 |  4.77  |  Hs.198269  |  4696  |
|  OSCAR  | chr19 | 59297029 |  4.77  |  Hs.347655  |  126014  |
|  SLC16A9  | chr10 | 61166536 |  3.52  |  Hs.499709  |  220963  |
|  SERPINE1  | chr7 | 100363210 |  3.47  |  Hs.414795  |  5054  |
|  SRPX2  | chrX | 99698681 |  3.31  |  Hs.306339  |  27286  |
|  COL7A1  | chr3 | 48608337 |  3.08  |  Hs.476218  |  1294  |
|  C1orf43  | chr1 | 151010877 |  2.96  |  Hs.287471  |  25912  |
|  UBAP2L  | chr1 | 151010877 |  2.96  |  Hs.490551  |  9898  |
|  C14orf104  | chr14 | 49173745 |  2.79  |  Hs.231761  |  55172  |
|  TAAR1  | chr6 | 133009406 |  2.75  |  Hs.375030  |  134864  |
|  TAP2  | chr6 | 32915843 |  2.73  |  Hs.502  |  6891  |
|  MTMR7  | chr8 | 17252110 |  2.73  |  Hs.625674  |  9108  |
|  UGCGL1  | chr2 | 128564724 |  2.69  |  Hs.34180  |  56886  |
|  SLITRK2  | chrX | 144601633 |  2.6  |  Hs.320368  |  84631  |
|  CLC  | chr11 | 66898625 |  2.57  |  Hs.889  |  1178  |
|  CD44  | chr11 | 35116202 |  2.5  |  Hs.502328  |  960  |
|  DDX53  | chrX | 22776995 |  2.46  |  Hs.434416  |  168400  |
|  FLJ45248  | chr8 | 103888080 |  2.45  |  Hs.224506  |  401472  |
|  HOXB3  | chr17 | 44007390 |  2.45  |  Hs.654560  |  3213  |
|  LOXHD1  | chr18 | 42435916 |  2.44  |  Hs.345877  |  125336  |
|  KIAA1576  | chr16 | 76379759 |  2.44  |  Hs.461405  |  57687  |
|  PSPC1  | chr13 | 19255871 |  2.43  |  Hs.213198  |  55269  |
|  SMPX  | chrX | 21536243 |  2.42  |  Hs.86492  |  23676  |
|  HEXB  | chr5 | 74015785 |  2.4  |  Hs.69293  |  3074  |
|  CYP7A1  | chr8 | 59575623 |  2.38  |  Hs.1644  |  1581  |
|  ZNF45  | chr19 | 49121634 |  2.38  |  Hs.381285  |  7596  |
|  TEX15  | chr8 | 30826073 |  2.34  |  Hs.458316  |  56154  |
|  CYP2C8  | chr10 | 96819126 |  2.32  |  Hs.282871  |  1558  |
|  OR1L3  | chr9 | 122517087 |  2.32  |  Hs.626839  |  26735  |
|  SMAD6  | chr15 | 64781726 |  2.31  |  Hs.153863  |  4091  |
|  UBAP2  | chr9 | 34039579 |  2.3  |  Hs.493739  |  55833  |
|  OR6S1  | chr14 | 20180227 |  2.25  |  Hs.513132  |  341799  |
|  KIAA1377  | chr11 | 101293218 |  2.24  |  Hs.156352  |  57562  |
|  ANKRD32  | chr5 | 94039688 |  2.24  |  Hs.657315  |  84250  |
|  DOCK7  | chr1 | 62774528 |  2.23  |  Hs.538059  |  85440  |
|  IPO11  | chr5 | 61910383 |  2.21  |  Hs.482269  |  51194  |
|  C21orf84  | chr21 | 43722480 |  2.21  |  Hs.592161  |  114038  |
|  MRC1  | chr10 | 17890333 |  2.21  |  Hs.75182  |  4360  |
|  NR0B1  | chrX | 30088314 |  2.2  |  Hs.268490  |  190  |
|  TCF20  | chr22 | 40936398 |  2.2  |  Hs.475018  |  6942  |
|  CHD1  | chr5 | 98290481 |  2.2  |  Hs.643465  |  1105  |
|  FAM12B  | chr14 | 20305919 |  2.19  |  Hs.525202  |  64184  |
|  SNX12  | chrX | 70071333 |  2.17  |  Hs.260750  |  29934  |
|  ZNF384  | chr12 | 6668862 |  2.16  |  Hs.103315  |  171017  |
|  MITF  | chr3 | 70068270 |  2.14  |  Hs.166017  |  4286  |
|  KPTN  | chr19 | 52679199 |  2.13  |  Hs.25441  |  11133  |
|  ITIH1  | chr3 | 52786553 |  2.13  |  Hs.420257  |  3697  |
|  NEK4  | chr3 | 52786553 |  2.13  |  Hs.631921  |  6787  |
|  MAGEH1  | chrX | 55361134 |  2.12  |  Hs.279819  |  28986  |
|  ADPRHL1  | chr13 | 113151705 |  2.12  |  Hs.98669  |  113622  |
|  C14orf119  | chr14 | 22635264 |  2.1  |  Hs.525238  |  55017  |
|  PTH  | chr11 | 13473995 |  2.09  |  Hs.37045  |  5741  |
|  POU1F1  | chr3 | 87408136 |  2.09  |  Hs.591654  |  5449  |
|  MNDA  | chr1 | 155613593 |  2.08  |  Hs.153837  |  4332  |
|  ATAD2  | chr8 | 124478428 |  2.07  |  Hs.370834  |  29028  |
|  USP9X  | chrX | 40738646 |  2.07  |  Hs.77578  |  8239  |
|  DHX33  | chr17 | 5313841 |  2.06  |  Hs.250456  |  56919  |
|  WDR47  | chr1 | 109297453 |  2.06  |  Hs.654760  |  22911  |
|  IFNA8  | chr9 | 21397590 |  2.06  |  Hs.73890  |  3445  |
|  PLSCR2  | chr3 | 147697009 |  2.05  |  Hs.147305  |  57047  |
|  RANBP2  | chr2 | 108793750 |  2.05  |  Hs.199561  |  5903  |
|  C8B  | chr1 | 57144784 |  2.05  |  Hs.391835  |  732  |
|  OR4D10  | chr11 | 59001576 |  2.04  |  Hs.553756  |  390197  |
|  VNN1  | chr6 | 133077179 |  2.03  |  Hs.12114  |  8876  |
|  PRDM2  | chr1 | 13846293 |  2.02  |  Hs.371823  |  7799  |
|  TMPO  | chr12 | 97411280 |  2.01  |  Hs.11355  |  7112  |
|  WNT16  | chr7 | 120558704 |  2.01  |  Hs.272375  |  51384  |
|  KERA  | chr12 | 89954604 |  2  |  Hs.125750  |  11081  |
|  CDC2  | chr10 | 62113653 |  2  |  Hs.334562  |  983  |
|  ZNF615  | chr19 | 57187289 |  1.99  |  Hs.368355  |  284370  |
|  ZNF519  | chr18 | 14143278 |  1.97  |  Hs.352635  |  162655  |
|  C6orf1  | chr6 | 34325340 |  1.97  |  Hs.381300  |  221491  |
|  IVD  | chr15 | 38484082 |  1.97  |  Hs.449599  |  3712  |
|  GPHN  | chr14 | 66043420 |  1.95  |  Hs.208765  |  10243  |
|  IL20  | chr1 | 203426897 |  1.95  |  Hs.272373  |  50604  |
|  CYP39A1  | chr6 | 46727912 |  1.94  |  Hs.387367  |  51302  |
|  PLCB4  | chr20 | 9024473 |  1.94  |  Hs.472101  |  5332  |
|  CCDC7  | chr10 | 32896086 |  1.93  |  Hs.585464  |  221016  |
|  OR7A5  | chr19 | 14800211 |  1.92  |  Hs.137573  |  26659  |
|  FBXL19  | chr16 | 30867276 |  1.92  |  Hs.152149  |  54620  |
|  PPM1E  | chr17 | 54187524 |  1.92  |  Hs.245044  |  22843  |
|  NOX3  | chr6 | 155869626 |  1.92  |  Hs.247776  |  50508  |
|  NQO1  | chr16 | 68318477 |  1.92  |  Hs.406515  |  1728  |
|  WDR22  | chr14 | 68727664 |  1.92  |  Hs.509780  |  8816  |
|  SCN10A  | chr3 | 38810946 |  1.91  |  Hs.250443  |  6336  |
|  ZNF146  | chr19 | 41411148 |  1.91  |  Hs.643436  |  7705  |
|  C10orf120  | chr10 | 124505639 |  1.9  |  Hs.363649  |  399814  |
|  KDELR2  | chr7 | 6295987 |  1.9  |  Hs.654552  |  11014  |
|  SGCG  | chr13 | 22652816 |  1.89  |  Hs.37167  |  6445  |
|  ABCG2  | chr4 | 89437822 |  1.89  |  Hs.480218  |  9429  |
|  OR4A16  | chr11 | 54866702 |  1.89  |  Hs.554530  |  81327  |
|  CNGB3  | chr8 | 87825115 |  1.88  |  Hs.154433  |  54714  |
|  SUPT6H  | chr17 | 24018952 |  1.87  |  Hs.250429  |  6830  |
|  RECK  | chr9 | 36023213 |  1.87  |  Hs.388918  |  8434  |
|  RCOR3  | chr1 | 207820743 |  1.87  |  Hs.696152  |  55758  |
|  GJA1  | chr6 | 121798652 |  1.87  |  Hs.74471  |  2697  |
|  DLAT  | chr11 | 111400951 |  1.86  |  Hs.335551  |  1737  |
|  DBP  | chr19 | 53832851 |  1.86  |  Hs.414480  |  1628  |
|  OCM  | chr7 | 97264605 |  1.86  |  Hs.571315  |  654231  |
|  SUMF2  | chr7 | 55905471 |  1.85  |  Hs.279696  |  25870  |
|  CCT6A  | chr7 | 55905471 |  1.85  |  Hs.82916  |  908  |
|  NME1  | chr17 | 46586011 |  1.84  |  Hs.463456  |  4830  |
|  MGAT5  | chr2 | 134842456 |  1.84  |  Hs.651869  |  4249  |
|  ARHGAP1  | chr11 | 46678958 |  1.83  |  Hs.138860  |  392  |
|  GPNMB  | chr7 | 23059819 |  1.83  |  Hs.190495  |  10457  |
|  PDZRN4  | chr12 | 40117191 |  1.83  |  Hs.380044  |  29951  |
|  ZNF408  | chr11 | 46678958 |  1.83  |  Hs.656931  |  79797  |
|  SLC31A2  | chr9 | 112992311 |  1.82  |  Hs.24030  |  1318  |
|  WFDC3  | chr20 | 43853533 |  1.82  |  Hs.419126  |  140686  |
|  SCEL  | chr13 | 77007485 |  1.81  |  Hs.534699  |  8796  |
|  DMTF1  | chr7 | 86425809 |  1.81  |  Hs.654981  |  9988  |
|  ADH4  | chr4 | 100423498 |  1.8  |  Hs.1219  |  127  |
|  DDX5  | chr17 | 59933430 |  1.8  |  Hs.279806  |  1655  |
|  P4HA2  | chr5 | 131594940 |  1.8  |  Hs.519568  |  8974  |
|  OR4D9  | chr11 | 59038961 |  1.8  |  Hs.553757  |  390199  |
|  TMEM20  | chr10 | 95643115 |  1.8  |  Hs.632085  |  159371  |
|  CDC14A  | chr1 | 100529425 |  1.79  |  Hs.127411  |  8556  |
|  COTL1  | chr16 | 83210100 |  1.79  |  Hs.289092  |  23406  |
|  RAB11A  | chr15 | 63948553 |  1.79  |  Hs.321541  |  8766  |
|  S100A8  | chr1 | 150177350 |  1.79  |  Hs.416073  |  6279  |
|  MRPL39  | chr21 | 25901604 |  1.79  |  Hs.420696  |  54148  |
|  MCM7  | chr7 | 99342378 |  1.79  |  Hs.438720  |  4176  |
|  ULK1  | chr12 | 131044985 |  1.79  |  Hs.47061  |  8408  |
|  MORF4L2  | chrX | 102749697 |  1.78  |  Hs.326387  |  9643  |
|  SMAD7  | chr18 | 44733137 |  1.78  |  Hs.465087  |  4092  |
|  CSNK1E  | chr22 | 37038496 |  1.78  |  Hs.474833  |  1454  |
|  C6orf170  | chr6 | 121700992 |  1.77  |  Hs.121396  |  221322  |
|  FOXA3  | chr19 | 51061205 |  1.77  |  Hs.36137  |  3171  |
|  LCP1  | chr13 | 45654615 |  1.77  |  Hs.381099  |  3936  |
|  TRIB1  | chr8 | 126511550 |  1.77  |  Hs.444947  |  10221  |
|  GRM8  | chr7 | 126477011 |  1.77  |  Hs.449625  |  2918  |
|  FILIP1  | chr6 | 76260824 |  1.77  |  Hs.696158  |  27145  |
|  RAB2B  | chr14 | 21015028 |  1.76  |  Hs.22399  |  84932  |
|  SLC19A2  | chr1 | 166187466 |  1.76  |  Hs.30246  |  10560  |
|  LECT2  | chr5 | 135318727 |  1.76  |  Hs.512580  |  3950  |
|  KCNJ5  | chr11 | 128280830 |  1.76  |  Hs.632109  |  3762  |
|  SCN2B  | chr11 | 117553038 |  1.75  |  Hs.129783  |  6327  |
|  MBIP  | chr14 | 35860164 |  1.75  |  Hs.368647  |  51562  |
|  C14orf124  | chr14 | 23982004 |  1.75  |  Hs.643552  |  56948  |
|  RPH3AL  | chr17 | 202894 |  1.75  |  Hs.651925  |  9501  |
|  NDUFB2  | chr7 | 139849701 |  1.75  |  Hs.655788  |  4708  |
|  TRIM16  | chr17 | 15486944 |  1.74  |  Hs.123534  |  10626  |
|  XDH  | chr2 | 31549147 |  1.74  |  Hs.250  |  7498  |
|  PSMC3  | chr11 | 47404463 |  1.74  |  Hs.250758  |  5702  |
|  SFTPD  | chr10 | 81698500 |  1.74  |  Hs.253495  |  6441  |
|  RAB1A  | chr2 | 65269496 |  1.74  |  Hs.310645  |  5861  |
|  CLDN11  | chr3 | 171618867 |  1.74  |  Hs.31595  |  5010  |
|  HDHD2  | chr18 | 42917339 |  1.74  |  Hs.465041  |  84064  |
|  OR8H3  | chr11 | 55646721 |  1.74  |  Hs.553745  |  390152  |
|  MLL5  | chr7 | 104248288 |  1.74  |  Hs.592262  |  55904  |
|  TBL1X  | chrX | 9240896 |  1.74  |  Hs.699315  |  6907  |
|  UMPS  | chr3 | 125931372 |  1.73  |  Hs.2057  |  7372  |
|  USP52  | chr12 | 55014107 |  1.73  |  Hs.273397  |  9924  |
|  RPS4Y1  | chrY | 2753385 |  1.73  |  Hs.282376  |  6192  |
|  ENTPD1  | chr10 | 97506244 |  1.73  |  Hs.576612  |  953  |
|  CALM2  | chr2 | 47315534 |  1.73  |  Hs.643483  |  805  |
|  GNRHR  | chr4 | 68450418 |  1.72  |  Hs.407587  |  2798  |
|  POLI  | chr18 | 50046745 |  1.72  |  Hs.438533  |  11201  |
|  OPA3  | chr19 | 50779847 |  1.72  |  Hs.466945  |  80207  |
|  FBXL2  | chr3 | 33293457 |  1.72  |  Hs.475872  |  25827  |
|  MAGEA9  | chrX | 148568579 |  1.72  |  Hs.512582  |  4108  |
|  PJA1  | chrX | 68171297 |  1.72  |  Hs.522679  |  64219  |
|  SUMF1  | chr3 | 4486305 |  1.72  |  Hs.588682  |  285362  |
|  ZDHHC7  | chr16 | 83603064 |  1.72  |  Hs.592065  |  55625  |
|  TMEM41A  | chr3 | 186699766 |  1.72  |  Hs.634586  |  90407  |
|  AKR1C3  | chr10 | 5126801 |  1.72  |  Hs.78183  |  8644  |
|  ARID4A  | chr14 | 57834609 |  1.71  |  Hs.161000  |  5926  |
|  NAP1L3  | chrX | 92734518 |  1.71  |  Hs.21365  |  4675  |
|  WWP2  | chr16 | 68347093 |  1.71  |  Hs.408458  |  11060  |
|  IPO4  | chr14 | 23727940 |  1.71  |  Hs.411865  |  79711  |
|  RRAS  | chr19 | 54835840 |  1.71  |  Hs.515536  |  6237  |
|  HFE2  | chr1 | 142901919 |  1.71  |  Hs.632436  |  148738  |
|  POM121  | chr7 | 71794157 |  1.71  |  Hs.655217  |  9883  |
|  VASP  | chr19 | 50702309 |  1.71  |  Hs.702197  |  7408  |
|  PSMB7  | chr9 | 124257544 |  1.7  |  Hs.213470  |  5695  |
|  ART3  | chr4 | 77352442 |  1.7  |  Hs.24976  |  419  |
|  IL13RA2  | chrX | 114075588 |  1.7  |  Hs.336046  |  3598  |
|  SLC22A9  | chr11 | 62893353 |  1.7  |  Hs.502772  |  114571  |
|  ZNF410  | chr14 | 73423251 |  1.69  |  Hs.270869  |  57862  |
|  PIAS3  | chr1 | 143065373 |  1.69  |  Hs.435761  |  10401  |
|  TPSG1  | chr16 | 1299302 |  1.69  |  Hs.592076  |  25823  |
|  PPM1A  | chr14 | 59783361 |  1.69  |  Hs.592298  |  5494  |
|  ZBTB1  | chr14 | 64041004 |  1.69  |  Hs.655536  |  22890  |
|  HNRPUL1  | chr19 | 46460268 |  1.69  |  Hs.699274  |  11100  |
|  SLITRK4  | chrX | 142450168 |  1.68  |  Hs.272284  |  139065  |
|  USP3  | chr15 | 61583755 |  1.68  |  Hs.458499  |  9960  |
|  HSPA5  | chr9 | 125083587 |  1.68  |  Hs.605502  |  3309  |
|  GABRA3  | chrX | 151291028 |  1.67  |  Hs.123024  |  2556  |
|  USP32  | chr17 | 55824637 |  1.67  |  Hs.132868  |  84669  |
|  MRCL3  | chr18 | 3242386 |  1.67  |  Hs.190086  |  10627  |
|  IL22  | chr12 | 66934123 |  1.67  |  Hs.287369  |  50616  |
|  C5orf15  | chr5 | 133332701 |  1.67  |  Hs.355177  |  56951  |
|  SSX6  | chrX | 47722615 |  1.67  |  Hs.511998  |  280657  |
|  PON2  | chr7 | 94708867 |  1.67  |  Hs.530077  |  5445  |
|  TOB1  | chr17 | 46296731 |  1.67  |  Hs.531550  |  10140  |
|  CCDC9  | chr19 | 52451786 |  1.66  |  Hs.227782  |  26093  |
|  WDR34  | chr9 | 128499213 |  1.66  |  Hs.495240  |  89891  |
|  BRMS1L  | chr14 | 35365290 |  1.66  |  Hs.525299  |  84312  |
|  PTPN22  | chr1 | 114126730 |  1.66  |  Hs.535276  |  26191  |
|  NCOA5  | chr20 | 44152362 |  1.66  |  Hs.654991  |  57727  |
|  PIN4  | chrX | 71184286 |  1.66  |  Hs.655623  |  5303  |
|  SMYD2  | chr1 | 210842355 |  1.66  |  Hs.66170  |  56950  |
|  EDG6  | chr19 | 3128063 |  1.66  |  Hs.662006  |  8698  |
|  CSN1S1  | chr4 | 70977652 |  1.65  |  Hs.3155  |  1446  |
|  CPA2  | chr7 | 129500143 |  1.65  |  Hs.490038  |  1358  |
|  SEMA3E  | chr7 | 82922708 |  1.65  |  Hs.528721  |  9723  |
|  OR1S2  | chr11 | 57728782 |  1.65  |  Hs.553644  |  219958  |
|  OR1S1  | chr11 | 57728782 |  1.65  |  Hs.553645  |  219959  |
|  PRKAB1  | chr12 | 118568560 |  1.65  |  Hs.6061  |  5564  |
|  DHX34  | chr19 | 52544671 |  1.64  |  Hs.151706  |  9704  |
|  DMC1  | chr22 | 37291160 |  1.64  |  Hs.339396  |  11144  |
|  EXTL2  | chr1 | 101073902 |  1.64  |  Hs.357637  |  2135  |
|  ITGB6  | chr2 | 160881999 |  1.64  |  Hs.470399  |  3694  |
|  SLC30A7  | chr1 | 101073902 |  1.64  |  Hs.533903  |  148867  |
|  C5orf5  | chr5 | 137399346 |  1.64  |  Hs.657919  |  51306  |
|  USP51  | chrX | 55398778 |  1.63  |  Hs.134289  |  158880  |
|  FMO2  | chr1 | 167886496 |  1.63  |  Hs.144912  |  2327  |
|  HDC  | chr15 | 48345821 |  1.63  |  Hs.1481  |  3067  |
|  C14orf4  | chr14 | 76564957 |  1.63  |  Hs.179260  |  64207  |
|  GSR  | chr8 | 30705256 |  1.63  |  Hs.271510  |  2936  |
|  PDGFD  | chr11 | 103412055 |  1.63  |  Hs.352298  |  80310  |
|  BEX2  | chrX | 102372515 |  1.63  |  Hs.398989  |  84707  |
|  CDC14B  | chr9 | 96497618 |  1.63  |  Hs.40582  |  8555  |
|  KIAA0831  | chr14 | 54948552 |  1.63  |  Hs.414809  |  22863  |
|  CHM  | chrX | 85108452 |  1.63  |  Hs.496449  |  1121  |
|  KCTD7  | chr7 | 65537356 |  1.63  |  Hs.546627  |  154881  |
|  OR2T12  | chr1 | 244784752 |  1.63  |  Hs.553582  |  127064  |
|  SLC23A1  | chr5 | 138747088 |  1.63  |  Hs.643467  |  9963  |
|  GNAS  | chr20 | 56847652 |  1.62  |  Hs.125898  |  2778  |
|  MAN2C1  | chr15 | 73447968 |  1.62  |  Hs.26232  |  4123  |
|  PRRG2  | chr19 | 54775663 |  1.62  |  Hs.35101  |  5639  |
|  PRKAB2  | chr1 | 143869058 |  1.62  |  Hs.50732  |  5565  |
|  OCIAD1  | chr4 | 48674154 |  1.62  |  Hs.518750  |  54940  |
|  FH  | chr1 | 238009637 |  1.62  |  Hs.592490  |  2271  |
|  DNAH10  | chr12 | 122844972 |  1.62  |  Hs.622654  |  196385  |
|  PDC  | chr1 | 183162803 |  1.62  |  Hs.654381  |  5132  |
|  NOSIP  | chr19 | 54775663 |  1.62  |  Hs.7236  |  51070  |
|  CHRNA6  | chr8 | 42743413 |  1.61  |  Hs.103128  |  8973  |
|  UVRAG  | chr11 | 75203832 |  1.61  |  Hs.202470  |  7405  |
|  CCL14  | chr17 | 31338727 |  1.61  |  Hs.272493  |  6358  |
|  NPHP1  | chr2 | 110319642 |  1.61  |  Hs.280388  |  4867  |
|  LBR  | chr1 | 221922959 |  1.61  |  Hs.435166  |  3930  |
|  SUV39H1  | chrX | 48311058 |  1.61  |  Hs.522639  |  6839  |
|  OR4M1  | chr14 | 19297338 |  1.61  |  Hs.553829  |  441670  |
|  MYEF2  | chr15 | 46257844 |  1.61  |  Hs.6638  |  50804  |
|  NDUFS2  | chr1 | 157996492 |  1.6  |  Hs.173611  |  4720  |
|  PARP2  | chr14 | 19881928 |  1.6  |  Hs.409412  |  10038  |
|  LOC51057  | chr2 | 63727813 |  1.6  |  Hs.414952  |  51057  |
|  CYHR1  | chr8 | 145661936 |  1.6  |  Hs.459379  |  50626  |
|  MDH1  | chr2 | 63727813 |  1.6  |  Hs.526521  |  4190  |
|  OR4K13  | chr14 | 19572801 |  1.6  |  Hs.553573  |  390433  |
|  FUCA2  | chr6 | 143874430 |  1.6  |  Hs.591332  |  2519  |
|  SERPINA12  | chr14 | 94054271 |  1.6  |  Hs.99476  |  145264  |
|  SMAD2  | chr18 | 43711910 |  1.59  |  Hs.12253  |  4087  |
|  NEGR1  | chr1 | 72143388 |  1.59  |  Hs.146542  |  257194  |
|  H3F3B  | chr17 | 71292757 |  1.59  |  Hs.180877  |  3021  |
|  ZNF302  | chr19 | 39860094 |  1.59  |  Hs.436350  |  55900  |
|  TWSG1  | chr18 | 9324233 |  1.59  |  Hs.514685  |  57045  |
|  SERPINA1  | chr14 | 93925072 |  1.59  |  Hs.525557  |  5265  |
|  CASP10  | chr2 | 201873601 |  1.59  |  Hs.5353  |  843  |
|  ASB5  | chr4 | 177565934 |  1.59  |  Hs.591712  |  140458  |
|  B2M  | chr15 | 42791021 |  1.59  |  Hs.626605  |  567  |
|  KIF23  | chr15 | 67493347 |  1.58  |  Hs.270845  |  9493  |
|  DCTN4  | chr5 | 150118562 |  1.58  |  Hs.328865  |  51164  |
|  PPIG  | chr2 | 170266415 |  1.58  |  Hs.470544  |  9360  |
|  AQR  | chr15 | 33049385 |  1.58  |  Hs.510958  |  9716  |
|  AP2B1  | chr17 | 30938509 |  1.58  |  Hs.514819  |  163  |
|  PEX12  | chr17 | 30938509 |  1.58  |  Hs.591190  |  5193  |
|  LRRC6  | chr8 | 133757427 |  1.58  |  Hs.591865  |  23639  |
|  LPPR2  | chr19 | 11326982 |  1.58  |  Hs.6846  |  64748  |
|  FAH  | chr15 | 78232448 |  1.58  |  Hs.73875  |  2184  |
|  ZBTB3  | chr11 | 62278130 |  1.57  |  Hs.147554  |  79842  |
|  RHOBTB2  | chr8 | 22900429 |  1.57  |  Hs.372688  |  23221  |
|  PEBP4  | chr8 | 22900429 |  1.57  |  Hs.491242  |  157310  |
|  GJB2  | chr13 | 19665586 |  1.57  |  Hs.524894  |  2706  |
|  JMJD1A  | chr2 | 86579936 |  1.57  |  Hs.557425  |  55818  |
|  NCOA1  | chr2 | 24719085 |  1.57  |  Hs.699183  |  8648  |
|  SLC39A6  | chr18 | 31963764 |  1.57  |  Hs.79136  |  25800  |
|  HTR1E  | chr6 | 87703528 |  1.56  |  Hs.1611  |  3354  |
|  PPP1CA  | chr11 | 66925930 |  1.56  |  Hs.183994  |  5499  |
|  KIAA0528  | chr12 | 22588600 |  1.56  |  Hs.271014  |  9847  |
|  TSGA14  | chr7 | 129674683 |  1.56  |  Hs.368315  |  95681  |
|  FLJ34503  | chr6 | 114332086 |  1.56  |  Hs.376634  |  285759  |
|  EFHA1  | chr13 | 21076460 |  1.56  |  Hs.412103  |  221154  |
|  NUDCD3  | chr7 | 44303532 |  1.56  |  Hs.488171  |  23386  |
|  OR2T29  | chr1 | 245049053 |  1.56  |  Hs.553707  |  343563  |
|  PCDH9  | chr13 | 66702134 |  1.56  |  Hs.654709  |  5101  |
|  BNC2  | chr9 | 16518145 |  1.56  |  Hs.656581  |  54796  |
|  AKAP10  | chr17 | 19821894 |  1.56  |  Hs.694769  |  11216  |
|  FOXP4  | chr6 | 41621769 |  1.55  |  Hs.131436  |  116113  |
|  SENP1  | chr12 | 46786121 |  1.55  |  Hs.371957  |  29843  |
|  MAP2K6  | chr17 | 64921720 |  1.55  |  Hs.463978  |  5608  |
|  SLC9A11  | chr1 | 170303808 |  1.55  |  Hs.494981  |  284525  |
|  ZNF41  | chrX | 47099473 |  1.55  |  Hs.496074  |  7592  |
|  SPRED1  | chr15 | 36331390 |  1.55  |  Hs.525781  |  161742  |
|  GSPT1  | chr16 | 11917888 |  1.55  |  Hs.528780  |  2935  |
|  COPS7A  | chr12 | 6703670 |  1.55  |  Hs.530823  |  50813  |
|  SCAP  | chr3 | 47460018 |  1.55  |  Hs.531789  |  22937  |
|  RIN1  | chr11 | 65860893 |  1.54  |  Hs.1030  |  9610  |
|  C14orf126  | chr14 | 30997058 |  1.54  |  Hs.116014  |  112487  |
|  EPHX2  | chr8 | 27404909 |  1.54  |  Hs.212088  |  2053  |
|  NFYC  | chr1 | 40826336 |  1.54  |  Hs.233458  |  4802  |
|  C21orf81  | chr21 | 14274500 |  1.54  |  Hs.364456  |  114035  |
|  RBJ  | chr2 | 25106231 |  1.54  |  Hs.434993  |  51277  |
|  FAM33A  | chr17 | 54587580 |  1.54  |  Hs.463607  |  348235  |
|  MTF1  | chr1 | 37995050 |  1.54  |  Hs.471991  |  4520  |
|  GNL3L  | chrX | 54439498 |  1.54  |  Hs.654677  |  54552  |
|  SNX11  | chr17 | 43533441 |  1.53  |  Hs.15827  |  29916  |
|  PRPF18  | chr10 | 13669044 |  1.53  |  Hs.161181  |  8559  |
|  ARIH1  | chr15 | 70553133 |  1.53  |  Hs.268787  |  25820  |
|  TXN  | chr9 | 110098898 |  1.53  |  Hs.435136  |  7295  |
|  NEUROD1  | chr2 | 182371225 |  1.53  |  Hs.440955  |  4760  |
|  GLT6D1  | chr9 | 135757344 |  1.53  |  Hs.522491  |  360203  |
|  NOTCH2NL  | chr1 | 142698018 |  1.53  |  Hs.655156  |  388677  |
|  C14orf43  | chr14 | 73297039 |  1.53  |  Hs.656506  |  91748  |
|  CBX1  | chr17 | 43533441 |  1.53  |  Hs.77254  |  10951  |
|  HSPE1  | chr2 | 198190437 |  1.52  |  Hs.1197  |  3336  |
|  PARP15  | chr3 | 123817017 |  1.52  |  Hs.120250  |  165631  |
|  HAP1  | chr17 | 37144782 |  1.52  |  Hs.158300  |  9001  |
|  TAF1  | chrX | 70368810 |  1.52  |  Hs.158560  |  6872  |
|  CASP9  | chr1 | 15596649 |  1.52  |  Hs.329502  |  842  |
|  HIST4H4  | chr12 | 14815460 |  1.52  |  Hs.352191  |  121504  |
|  RPS17  | chr15 | 81006712 |  1.52  |  Hs.433427  |  6218  |
|  DAB2  | chr5 | 39461357 |  1.52  |  Hs.481980  |  1601  |
|  RUSC2  | chr9 | 35480236 |  1.52  |  Hs.493796  |  9853  |
|  TAGLN2  | chr1 | 156708123 |  1.52  |  Hs.517168  |  8407  |
|  EPS8  | chr12 | 15833878 |  1.52  |  Hs.591160  |  2059  |
|  HSPD1  | chr2 | 198190437 |  1.52  |  Hs.595053  |  3329  |
|  LOX  | chr5 | 121442444 |  1.51  |  Hs.102267  |  4015  |
|  UQCRB  | chr8 | 97316911 |  1.51  |  Hs.131255  |  7381  |
|  ACAA2  | chr18 | 45594422 |  1.51  |  Hs.200136  |  10449  |
|  STMN4  | chr8 | 27172484 |  1.51  |  Hs.201058  |  81551  |
|  FLJ11184  | chr4 | 164773158 |  1.51  |  Hs.267446  |  55319  |
|  MAP3K3  | chr17 | 59053487 |  1.51  |  Hs.29282  |  4215  |
|  FEN1  | chr11 | 61316809 |  1.51  |  Hs.409065  |  2237  |
|  TARS  | chr5 | 33476771 |  1.51  |  Hs.481860  |  6897  |
|  ATXN3  | chr14 | 91642634 |  1.51  |  Hs.532632  |  4287  |
|  DLG7  | chr14 | 54728024 |  1.51  |  Hs.77695  |  9787  |
|  SHOC2  | chr10 | 112669455 |  1.5  |  Hs.104315  |  8036  |
|  PTDSS2  | chr11 | 440101 |  1.5  |  Hs.12851  |  81490  |
|  AQP2  | chr12 | 48626142 |  1.5  |  Hs.130730  |  359  |
|  SNAP25  | chr20 | 10147254 |  1.5  |  Hs.167317  |  6616  |
|  EHBP1  | chr2 | 62844729 |  1.5  |  Hs.271667  |  23301  |
|  RBBP8  | chr18 | 18767002 |  1.5  |  Hs.546282  |  5932  |
|  SREBF1  | chr17 | 17681583 |  1.5  |  Hs.592123  |  6720  |
|  HEXA  | chr15 | 70455622 |  1.5  |  Hs.604479  |  3073  |
|  MANBAL  | chr20 | 35351340 |  1.5  |  Hs.6126  |  63905  |
|  ZBTB20  | chr3 | 116348890 |  1.5  |  Hs.655108  |  26137  |
|  NEK11  | chr3 | 132229027 |  1.5  |  Hs.657336  |  79858  |
|  PPP1R11  | chr6 | 30142911 |  1.5  |  Hs.82887  |  6992  |