

Table S8: Transcription regulators predicted to be highly expressed in BL20

| SEQ_ID | Entrez gene ID | Symbol | Entrez Gene Name | Location | Type | Predicted BL20 expression level | FC | | FDR | | | |
|----------------------------------|----------------|------------------|---|-----------|-------------------------|---------------------------------|-----------|------------|---------------|----------------|---------------|----------------|
| | | | | | | | FC BLVtBL | FDR BLVtBL | FC TBLvTBL24h | FDR TBLvTBL24h | FC TBLvTBL48h | FDR TBLvTBL48h |
| gi_62460541_ref_NM_001014923.1_ | 514006 | NEF2 | nuclear factor (erythroid-derived 2), 45kDa | Nucleus | transcription regulator | H | -78.828 | 0.000 | 1.191 | 1.237 | 1.244 | 1.298 |
| gi_119893570_ref_XM_615475.3_ | 535399 | LEF1 | lymphoid enhancer-binding factor 1 | Nucleus | transcription regulator | VH | -60.452 | 0.000 | 3.948 | 0.000 | 3.572 | 0.001 |
| gi_119890798_ref_XM_615498.3_ | 535415 | HDAC9 (includes | histone deacetylase 9 | Nucleus | transcription regulator | H | -36.787 | 0.000 | 7.269 | 0.000 | 18.700 | 0.000 |
| gi_119900339_ref_XM_614789.3_ | 534869 | KANK1 | KN motif and ankyrin repeat domains 1 | Nucleus | transcription regulator | VH | -34.265 | 0.000 | 3.082 | 0.000 | 2.505 | 0.022 |
| gi_156120738_ref_NM_001102046.1_ | 517861 | POU6F2 (includes | POU class 6 homeobox 2 | Nucleus | transcription regulator | H | -27.841 | 0.000 | 1.283 | 1.141 | 1.826 | 0.279 |
| gi_164451497_ref_NM_001024565.2_ | 538609 | HEYL | hairly/enhancer-of-split related with YRPW motif-like | Nucleus | transcription regulator | H | -26.514 | 0.000 | 1.804 | 0.168 | 2.719 | 0.010 |
| gi_119910807_ref_NM_001252761.1_ | 784460 | SPIB | Spi-B transcription factor (Spi-1/PU.1 related) | Nucleus | transcription regulator | H | -17.754 | 0.000 | 1.380 | 0.795 | 2.313 | 0.045 |
| gi_119895769_ref_XM_617891.3_ | 537712 | EBF1 | early B-cell factor 1 | Nucleus | transcription regulator | VH | -11.159 | 0.000 | 1.459 | 0.788 | 1.462 | 0.928 |
| gi_119911185_ref_XM_001256592.1_ | 789989 | ZNF211 | zinc finger protein 211 | Nucleus | transcription regulator | H | -10.771 | 0.000 | -1.136 | 0.588 | -1.073 | 0.857 |
| gi_119900560_ref_XM_618574.3_ | 538371 | PAX5 | paired box 5 | Nucleus | transcription regulator | VH | -9.835 | 0.000 | 1.096 | 1.206 | 1.617 | 0.567 |
| gi_115496321_ref_NM_001075915.1_ | 528475 | POU2AF1 | POU class 2 associating factor 1 | Nucleus | transcription regulator | VH | -8.996 | 0.000 | 1.633 | 0.406 | 1.551 | 0.707 |
| gi_149773516_ref_NM_001099106.1_ | 540313 | ETS1 | v-ets erythroblastosis virus E26 oncogene homolog 1 (| Nucleus | transcription regulator | VH | -8.655 | 0.000 | -1.299 | 0.127 | -1.439 | 0.066 |
| gi_149642786_ref_NM_001099152.1_ | 616148 | LBH | limb bud and heart development homolog (mouse) | Nucleus | transcription regulator | VH | -7.566 | 0.000 | 1.514 | 0.664 | 2.657 | 0.012 |
| gi_115496541_ref_NM_001076531.1_ | 767586 | KANK2 | KN motif and ankyrin repeat domains 2 | Nucleus | transcription regulator | H | -7.103 | 0.000 | 1.597 | 0.441 | 2.209 | 0.066 |
| gi_156121204_ref_NM_001102280.1_ | 614517 | GA57 | growth arrest-specific 7 | Cytoplasm | transcription regulator | VH | -5.542 | 0.000 | 1.375 | 0.996 | 1.621 | 0.574 |
| gi_119914390_ref_XM_593599.3_ | 515564 | ZNF197 | zinc finger protein 197 | Nucleus | transcription regulator | H | -5.491 | 0.000 | 1.844 | 0.136 | 2.376 | 0.036 |
| gi_119920266_ref_XM_584087.3_ | 538983 | TAF9B | TAF9B RNA polymerase II, TATA box binding protein (T | Nucleus | transcription regulator | VH | -5.401 | 0.001 | 2.948 | 0.000 | 3.124 | 0.004 |
| gi_114051376_ref_NM_001046050.1_ | 510244 | CDKN2D | cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK | Nucleus | transcription regulator | H | -4.994 | 0.001 | -1.342 | 0.110 | 1.030 | 1.096 |
| gi_119911320_ref_XM_001256793.1_ | 790276 | ZNF256 | zinc finger protein 256 | Nucleus | transcription regulator | H | -4.273 | 0.003 | 1.608 | 0.429 | 2.090 | 0.105 |
| gi_114050810_ref_NM_001046507.1_ | 613523 | EAF2 | ELL associated factor 2 | Nucleus | transcription regulator | H | -4.060 | 0.005 | -1.223 | 0.353 | -1.638 | 0.009 |
| gi_156120990_ref_NM_001102172.1_ | 534475 | RFX2 | regulatory factor X, 2 (influences HLA class II expressio | Nucleus | transcription regulator | H | -4.055 | 0.005 | 2.215 | 0.022 | 2.505 | 0.022 |
| gi_75832071_ref_NM_174730.2_ | 282846 | PYCARD | PYD and CARD domain containing | Cytoplasm | transcription regulator | H | -3.906 | 0.006 | 2.311 | 0.014 | 2.603 | 0.015 |
| gi_158519872_ref_NM_001110095.1_ | 782847 | ZHX1 | zinc fingers and homeoboxes 1 | Nucleus | transcription regulator | VH | -3.902 | 0.006 | 1.943 | 0.090 | 2.116 | 0.093 |
| gi_119918399_ref_XR_027461.1_ | 781665 | IRF2BP2 | interferon regulatory factor 2 binding protein 2 | Nucleus | transcription regulator | VH | -3.868 | 0.006 | 2.524 | 0.006 | 2.921 | 0.006 |
| gi_119888342_ref_XM_617930.3_ | 537747 | KLF7 | Kruppel-like factor 7 (ubiquitous) | Nucleus | transcription regulator | H | -3.374 | 0.018 | 3.378 | 0.000 | 3.028 | 0.005 |
| gi_155371838_ref_NM_001101054.1_ | 505691 | CDKN2C | cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK | Nucleus | transcription regulator | VH | -3.118 | 0.034 | 1.619 | 0.422 | 1.431 | 1.012 |
| gi_114052622_ref_NM_001046113.1_ | 512254 | MEF2C | myocyte enhancer factor 2C | Nucleus | transcription regulator | VH | -3.044 | 0.040 | 1.403 | 0.947 | 2.144 | 0.088 |
| gi_77736300_ref_NM_001034678.1_ | 539547 | HES1 | hairly and enhancer of split 1, (Drosophila) | Nucleus | transcription regulator | H | -3.027 | 0.041 | 5.906 | 0.000 | 12.323 | 0.000 |
| gi_118151123_ref_NM_001078016.1_ | 538793 | ZNF238 | zinc finger protein 238 | Nucleus | transcription regulator | H | -3.027 | 0.042 | 2.290 | 0.016 | 2.459 | 0.026 |
| gi_149642758_ref_NM_001099186.1_ | 782690 | TCF7 | transcription factor 7 (T-cell specific, HMG-box) | Nucleus | transcription regulator | H | -3.006 | 0.047 | 3.702 | 0.000 | 3.762 | 0.001 |
| gi_119902986_ref_XM_001253578.1_ | 785612 | GTF2A1 | general transcription factor IIA, 1, 19/37kDa | Cytoplasm | transcription regulator | H | -3.004 | 0.049 | 1.745 | 0.210 | 1.628 | 0.544 |
| gi_119909958_ref_XM_001251963.1_ | 523815 | CBFA2T3 | core-binding factor, runt domain, alpha subunit 2; trans | Nucleus | transcription regulator | VH | -2.949 | 0.053 | 2.170 | 0.028 | 2.319 | 0.044 |
| gi_77736282_ref_NM_001034669.1_ | 539244 | ASB2 | ankyrin repeat and SOCS box-containing 2 | Nucleus | transcription regulator | H | -2.938 | 0.055 | 1.090 | 1.168 | 2.502 | 0.022 |
| gi_115497505_ref_NM_001076222.1_ | 540474 | LMCD1 | LIM and cysteine-rich domains 1 | Cytoplasm | transcription regulator | H | -2.917 | 0.054 | 1.106 | 1.215 | -1.230 | 0.404 |
| gi_41386732_ref_NM_177490.1_ | 280961 | ZFX | zinc finger protein, X-linked | Nucleus | transcription regulator | VH | -2.914 | 0.055 | 1.871 | 0.131 | 1.761 | 0.354 |
| gi_119916759_ref_XM_585540.3_ | 508720 | CIITA | class II, major histocompatibility complex, transactivat | Nucleus | transcription regulator | H | -2.903 | 0.064 | -2.235 | 0.000 | -1.446 | 0.068 |
| gi_115497499_ref_NM_001075894.1_ | 527124 | CDKN2B | cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK | Nucleus | transcription regulator | H | -2.797 | 0.087 | 1.564 | 0.393 | 2.129 | 0.089 |
| gi_119889385_ref_XM_590074.3_ | 539884 | RFX5 | regulatory factor X, 5 (influences HLA class II expressio | Nucleus | transcription regulator | H | -2.768 | 0.083 | 1.860 | 0.136 | 1.737 | 0.389 |
| gi_119932393_ref_XM_001250820.1_ | 786432 | MED7 (includes E | mediator complex subunit 7 | Nucleus | transcription regulator | H | -2.757 | 0.090 | 2.167 | 0.025 | 3.450 | 0.001 |
| gi_40538781_ref_NM_175050.1_ | 317776 | MYB (includes EC | v-myb myeloblastosis viral oncogene homolog (avian) | Nucleus | transcription regulator | VH | -2.745 | 0.090 | 1.407 | 0.932 | -1.210 | 0.464 |
| gi_139949110_ref_NM_001083769.1_ | 614909 | IRF8 | interferon regulatory factor 8 | Nucleus | transcription regulator | VH | -2.717 | 0.099 | -2.021 | 0.000 | -2.819 | 0.000 |
| gi_125991921_ref_NM_001081583.1_ | 508893 | TLE4 | transducin-like enhancer of split 4 (E(sp1) homolog, Dr | Nucleus | transcription regulator | VH | -2.658 | 0.116 | 1.184 | 1.249 | 1.332 | 1.212 |
| gi_119885693_ref_XM_589799.3_ | 539843 | ZBTB38 | zinc finger and BTB domain containing 38 | Nucleus | transcription regulator | H | -2.637 | 0.131 | 2.061 | 0.048 | 2.099 | 0.104 |
| gi_155371924_ref_NM_001101097.1_ | 519165 | HLX | H2.0-like homeobox | Nucleus | transcription regulator | H | -2.635 | 0.124 | 1.600 | 0.443 | 1.747 | 0.373 |
| gi_148226872_ref_NM_001098035.1_ | 515406 | CSRNP1 | cysteine-serine-rich nuclear protein 1 | Nucleus | transcription regulator | H | -2.609 | 0.134 | 1.114 | 1.207 | 1.682 | 0.468 |
| gi_156121294_ref_NM_001102325.1_ | 781834 | ATF7IP | activating transcription factor 7 interacting protein | Nucleus | transcription regulator | H | -2.608 | 0.138 | 2.295 | 0.015 | 2.561 | 0.019 |
| gi_156523181_ref_NM_001102535.1_ | 785815 | HR | hairless homolog (mouse) | Nucleus | transcription regulator | H | -2.563 | 0.155 | -1.758 | 0.009 | 1.462 | 0.903 |
| gi_156523193_ref_NM_001102541.1_ | 100124497 | ZNF256 | zinc finger protein 256 | Nucleus | transcription regulator | H | -2.559 | 0.156 | 1.593 | 0.487 | 1.557 | 0.722 |
| gi_119890844_ref_XM_864821.2_ | 539676 | DMTF1 | cyclin D binding myb-like transcription factor 1 | Nucleus | transcription regulator | H | -2.548 | 0.151 | 1.993 | 0.067 | 2.573 | 0.018 |
| gi_119915240_ref_XM_865759.2_ | 504797 | TRERF1 | transcriptional regulating factor 1 | Nucleus | transcription regulator | H | -2.527 | 0.170 | 2.437 | 0.008 | 3.000 | 0.005 |
| gi_75677539_ref_NM_001033121.1_ | 613265 | ZNF148 | zinc finger protein 148 | Nucleus | transcription regulator | H | -2.509 | 0.179 | 1.443 | 0.828 | 1.369 | 1.129 |
| gi_116004232_ref_NM_001077008.1_ | 767935 | SERTAD3 | SERTA domain containing 3 | Nucleus | transcription regulator | H | -2.475 | 0.194 | 1.816 | 0.170 | 2.462 | 0.026 |
| gi_114051256_ref_NM_001046193.1_ | 515266 | ATF3 | activating transcription factor 3 | Nucleus | transcription regulator | H | -2.420 | 0.223 | -1.246 | 0.335 | 2.237 | 0.060 |
| gi_139949255_ref_NM_001083638.1_ | 407231 | MEF2A (includes | myocyte enhancer factor 2A | Nucleus | transcription regulator | VH | -2.410 | 0.228 | 2.079 | 0.045 | 2.417 | 0.029 |
| gi_118150815_ref_NM_001077853.1_ | 505251 | ELF1 | E74-like factor 1 (ets domain transcription factor) | Nucleus | transcription regulator | VH | -2.410 | 0.225 | 1.783 | 0.205 | 1.817 | 0.302 |
| gi_78369187_ref_NM_001035478.1_ | 616564 | SSBP2 | single-stranded DNA binding protein 2 | Nucleus | transcription regulator | VH | -2.397 | 0.228 | 2.042 | 0.054 | 2.537 | 0.020 |
| gi_115496825_ref_NM_001076041.1_ | 534915 | ASCC1 | activating signal cointegrator 1 complex subunit 1 | Nucleus | transcription regulator | VH | -2.384 | 0.241 | 1.618 | 0.429 | 1.899 | 0.219 |
| gi_119920199_ref_XM_592333.3_ | 514473 | ATRX | alpha thalassemia/mental retardation syndrome X-linke | Nucleus | transcription regulator | VH | -2.371 | 0.238 | 1.652 | 0.328 | 2.030 | 0.130 |
| gi_155372030_ref_NM_001101153.1_ | 534170 | ZNF274 | zinc finger protein 274 | Nucleus | transcription regulator | H | -2.340 | 0.274 | 1.084 | 1.197 | 1.001 | 1.158 |
| gi_155372268_ref_NM_001101277.1_ | 618793 | FOXO4 | forkhead box O4 | Nucleus | transcription regulator | H | -2.320 | 0.278 | 1.686 | 0.295 | 2.457 | 0.026 |
| gi_157073983_ref_NM_001103231.1_ | 506188 | MEF2B | myocyte enhancer factor 2B | Nucleus | transcription regulator | H | -2.259 | 0.339 | -1.121 | 0.662 | -1.166 | 0.597 |
| gi_154152090_ref_NM_001100344.1_ | 511794 | ZNF192 | zinc finger protein 192 | Nucleus | transcription regulator | VH | -2.217 | 0.347 | 1.994 | 0.063 | 2.403 | 0.031 |
| gi_156120762_ref_NM_001102058.1_ | 520250 | ANKRD32 | ankyrin repeat domain 32 | Nucleus | transcription regulator | H | -2.202 | 0.398 | 1.763 | 0.231 | 1.341 | 1.341 |
| gi_84000408_ref_NM_001038209.1_ | 615371 | NFIA | nuclear factor I/A | Nucleus | transcription regulator | H | -2.169 | 0.407 | 3.492 | 0.000 | 4.474 | 0.000 |
| gi_27819621_ref_NM_174493.1_ | 282127 | ZFP36 | zinc finger protein 36, C3H type, homolog (mouse) | Nucleus | transcription regulator | H | -2.166 | 0.417 | 1.050 | 1.312 | 2.240 | 0.058 |
| gi_156739264_ref_NM_001075644.2_ | 514023 | ZNF180 | zinc finger protein 180 | Nucleus | transcription regulator | H | -2.144 | 0.436 | 1.782 | 0.194 | 1.636 | 0.551 |
| gi_119919077_ref_XM_001251164.1_ | 507760 | PRDM10 | PR domain containing 10 | Nucleus | transcription regulator | H | -2.134 | 0.431 | 1.453 | 0.733 | 1.532 | 0.736 |
| gi_148232125_ref_NM_001098062.1_ | 527056 | RNF6 | ring finger protein (C3H2C3 type) 6 | Nucleus | transcription regulator | H | -2.125 | 0.474 | 1.255 | 1.251 | 1.471 | 0.884 |

| | | | | | | | | | | | | |
|---------------------------------|--------|----------|--|-----------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_115497199_ref_NM_001076077.1 | 536504 | PHTF1 | putative homeodomain transcription factor 1 | Nucleus | transcription regulator | VH | -2.124 | 0.483 | 1.343 | 1.134 | 1.449 | 0.971 |
| gi_119888259_ref_XM_614966.3 | 541192 | SATB2 | SATB homeobox 2 | Nucleus | transcription regulator | H | -2.111 | 0.479 | 1.516 | 0.643 | 1.221 | 1.341 |
| gi_118151261_ref_NM_001078095.1 | 768207 | SS18L1 | synovial sarcoma translocation gene on chromosome 1 | Nucleus | transcription regulator | H | -2.096 | 0.491 | 1.116 | 1.141 | -1.185 | 0.373 |
| gi_119887167_ref_XM_865771.2 | 529631 | RUNX1 | runt-related transcription factor 1 | Nucleus | transcription regulator | VH | -2.059 | 0.559 | -2.009 | 0.000 | -1.273 | 0.313 |
| gi_156120724_ref_NM_001102039.1 | 516781 | NAB1 | NGFI-A binding protein 1 (EGR1 binding protein 1) | Nucleus | transcription regulator | H | -2.047 | 0.568 | 1.346 | 1.095 | 1.320 | 1.242 |
| gi_119901585_ref_XM_593747.2 | 540396 | HIVEP2 | human immunodeficiency virus type I enhancer binding | Nucleus | transcription regulator | VH | -2.047 | 0.555 | -1.182 | 0.520 | -1.288 | 0.263 |
| gi_119917098_ref_XM_601985.3 | 523683 | CUX1 | cut-like homeobox 1 | Nucleus | transcription regulator | VH | -2.015 | 0.586 | 1.102 | 1.071 | 1.584 | 0.640 |
| gi_84370150_ref_NM_001038559.1 | 533232 | SMARCD1 | SWI/SNF related, matrix associated, actin dependent n | Nucleus | transcription regulator | VH | -1.997 | 0.639 | 1.217 | 1.257 | 1.597 | 0.630 |
| gi_78369035_ref_NM_001035424.1 | 539376 | MYNN | myoneurin | Nucleus | transcription regulator | H | -1.982 | 0.667 | 1.725 | 0.265 | 1.530 | 0.772 |
| gi_119905298_ref_XM_615192.3 | 535183 | ZEB1 | zinc finger E-box binding homeobox 1 | Nucleus | transcription regulator | VH | -1.982 | 0.656 | -1.146 | 0.671 | 1.093 | 1.300 |
| gi_119918507_ref_XM_864818.2 | 613629 | SIRT1 | sirtuin (silent mating type information regulation 2 hom | Nucleus | transcription regulator | VH | -1.981 | 0.671 | 1.980 | 0.073 | 2.107 | 0.099 |
| gi_115495882_ref_NM_001076242.1 | 540818 | GABPB2 | GA binding protein transcription factor, beta subunit 2 | Nucleus | transcription regulator | H | -1.974 | 0.656 | 1.445 | 0.759 | 1.180 | 1.328 |
| gi_112817611_ref_NM_001015514.2 | 504512 | ETV6 | ets variant 6 | Nucleus | transcription regulator | VH | -1.974 | 0.660 | 1.279 | 1.246 | 1.436 | 0.977 |
| gi_149944716_ref_NM_001099115.1 | 540904 | SMARCA2 | SWI/SNF related, matrix associated, actin dependent n | Nucleus | transcription regulator | VH | -1.972 | 0.672 | 1.608 | 0.438 | 1.528 | 0.772 |
| gi_119911770_ref_XM_606825.3 | 528403 | ANKFY1 | ankyrin repeat and FYVE domain containing 1 | Nucleus | transcription regulator | H | -1.961 | 0.701 | -1.010 | 1.021 | 1.488 | 0.850 |
| gi_75832109_ref_NM_001014965.2 | 540949 | ANKRD49 | ankyrin repeat domain 49 | Nucleus | transcription regulator | H | -1.949 | 0.715 | 2.472 | 0.007 | 2.636 | 0.014 |
| gi_119907162_ref_XM_605809.3 | 527418 | CBL | Cas-Br-M (murine) ecotropic retroviral transforming sec | Nucleus | transcription regulator | VH | -1.947 | 0.702 | 1.182 | 1.182 | 1.707 | 0.435 |
| gi_119877632_ref_XM_603300.3 | 524960 | NRIP1 | nuclear receptor interacting protein 1 | Nucleus | transcription regulator | VH | -1.942 | 0.739 | 1.369 | 0.936 | 1.888 | 0.231 |
| gi_119905202_ref_XM_598095.3 | 519864 | MLLT10 | myeloid/lymphoid or mixed-lineage leukemia (trithorax | Nucleus | transcription regulator | VH | -1.927 | 0.711 | 1.856 | 0.133 | 1.879 | 0.233 |
| gi_119924137_ref_XM_609443.3 | 530961 | BARD1 | BRCA1 associated RING domain 1 | Nucleus | transcription regulator | H | -1.925 | 0.652 | 1.393 | 0.903 | -1.015 | 1.042 |
| gi_119911512_ref_XM_866591.2 | 536067 | TAF15 | TAF15 RNA polymerase II, TATA box binding protein (T | Nucleus | transcription regulator | H | -1.920 | 0.766 | 1.421 | 0.491 | 1.364 | 1.177 |
| gi_31340639_ref_NM_174722.2 | 282707 | CEP290 | centrosomal protein 290kDa | Cytoplasm | transcription regulator | H | -1.865 | 0.841 | 2.017 | 0.059 | 1.555 | 0.703 |
| gi_66792815_ref_NM_001024511.1 | 510184 | TADA3 | transcriptional adaptor 3 | Nucleus | transcription regulator | VH | -1.864 | 0.821 | 1.446 | 0.787 | 1.733 | 0.393 |
| gi_119911162_ref_XM_872583.2 | 523865 | MZF1 | myeloid zinc finger 1 | Nucleus | transcription regulator | H | -1.863 | 0.834 | -1.451 | 0.059 | 1.595 | 0.629 |
| gi_149642932_ref_NM_001099107.1 | 540378 | MDM2 | Mdm2 p53 binding protein homolog (mouse) | Nucleus | transcription regulator | VH | -1.850 | 0.891 | 1.059 | 1.144 | 1.163 | 1.330 |
| gi_32189343_ref_NM_173993.1 | 281010 | ARNT | aryl hydrocarbon receptor nuclear translocator | Nucleus | transcription regulator | H | -1.847 | 0.833 | 1.506 | 0.656 | 1.672 | 0.488 |
| gi_119924356_ref_XM_589474.3 | 512036 | ZNF449 | zinc finger protein 449 | Nucleus | transcription regulator | H | -1.838 | 0.871 | 1.987 | 0.072 | 1.241 | 1.342 |
| gi_116003910_ref_NM_001076848.1 | 514085 | E2F6 | E2F transcription factor 6 | Nucleus | transcription regulator | VH | -1.838 | 0.875 | 1.319 | 1.147 | 1.294 | 1.308 |
| gi_119909509_ref_XM_001252556.1 | 532416 | POZ1 | POZ (BTB) and AT hook containing zinc finger 1 | Nucleus | transcription regulator | H | -1.834 | 0.839 | 1.588 | 0.456 | 2.365 | 0.038 |
| gi_31342886_ref_NM_174080.2 | 281225 | UBE2K | ubiquitin-conjugating enzyme E2K (UBC11 homolog, ye | Cytoplasm | transcription regulator | VH | -1.832 | 0.905 | 1.219 | 1.253 | 1.149 | 1.332 |
| gi_119902367_ref_XM_869255.2 | 532556 | MGA | MAX gene associated | Nucleus | transcription regulator | VH | -1.823 | 0.895 | 1.627 | 0.351 | 1.751 | 0.372 |
| gi_119908981_ref_XM_001250053.1 | 613439 | ELF2 | E74-like factor 2 (ets domain transcription factor) | Nucleus | transcription regulator | H | -1.811 | 0.946 | 2.071 | 0.044 | 1.780 | 0.335 |
| gi_118150879_ref_NM_001077885.1 | 509039 | TCF12 | transcription factor 12 | Nucleus | transcription regulator | VH | -1.810 | 0.934 | 1.609 | 0.456 | 1.866 | 0.251 |
| gi_114053148_ref_NM_001046556.1 | 615211 | MTF2 | metal response element binding transcription factor 2 | Nucleus | transcription regulator | VH | -1.808 | 0.934 | 1.093 | 1.206 | 1.013 | 1.154 |
| gi_77735776_ref_NM_001034411.1 | 511795 | ZSCAN16 | zinc finger and SCAN domain containing 16 | Nucleus | transcription regulator | H | -1.802 | 0.932 | 1.284 | 1.242 | -1.130 | 0.689 |
| gi_157279880_ref_NM_001104986.1 | 530184 | SBBP3 | single stranded DNA binding protein 3 | Nucleus | transcription regulator | VH | -1.800 | 0.951 | 1.140 | 1.244 | 1.214 | 1.343 |
| gi_156718125_ref_NM_001103098.1 | 530411 | UHRF1 | ubiquitin-like with PHD and ring finger domains 1 | Nucleus | transcription regulator | VH | -1.792 | 0.934 | -1.176 | 0.561 | -1.142 | 0.679 |
| gi_119914156_ref_XM_582981.3 | 506525 | RCOR1 | REST corepressor 1 | Nucleus | transcription regulator | VH | -1.789 | 0.945 | 1.137 | 1.209 | 2.163 | 0.079 |
| gi_119892216_ref_XM_869350.2 | 509843 | HDAC7 | histone deacetylase 7 | Nucleus | transcription regulator | H | -1.785 | 0.939 | -1.166 | 0.570 | 1.379 | 1.132 |
| gi_155372158_ref_NM_001101219.1 | 541180 | FEM1C | fem-1 homolog c (C. elegans) | Nucleus | transcription regulator | VH | -1.784 | 0.943 | 1.487 | 0.705 | 1.497 | 0.837 |
| gi_73853751_ref_NM_174201.2 | 281542 | TP53 | tumor protein p53 | Nucleus | transcription regulator | VH | -1.777 | 0.969 | 1.411 | 0.906 | 1.510 | 0.802 |
| gi_115497281_ref_NM_001075637.1 | 513719 | HMG20A | high-mobility group 20A | Nucleus | transcription regulator | VH | -1.755 | 1.013 | 1.773 | 0.219 | 1.735 | 0.396 |
| gi_119906688_ref_XM_601083.3 | 522795 | KLF10 | Kruppel-like factor 10 | Nucleus | transcription regulator | H | -1.750 | 1.019 | 2.065 | 0.047 | 3.260 | 0.003 |
| gi_119902916_ref_XM_879035.2 | 531476 | JDP2 | Jun dimerization protein 2 | Nucleus | transcription regulator | H | -1.735 | 1.023 | -1.334 | 0.148 | -1.020 | 1.046 |
| gi_114052638_ref_NM_001045892.1 | 504613 | MED24 | mediator complex subunit 24 | Nucleus | transcription regulator | H | -1.731 | 1.001 | -1.016 | 1.033 | 1.357 | 1.167 |
| gi_119905729_ref_XM_600851.3 | 522566 | PLAGL2 | pleiomorphic adenoma gene-like 2 | Nucleus | transcription regulator | H | -1.728 | 1.036 | -1.568 | 0.019 | -1.204 | 0.475 |
| gi_119905921_ref_XM_589971.3 | 512451 | ZHX3 | zinc fingers and homeoboxes 3 | Nucleus | transcription regulator | H | -1.723 | 1.034 | -1.334 | 0.185 | -1.091 | 0.797 |
| gi_119895922_ref_XM_869174.2 | 617002 | FAM172A | family with sequence similarity 172, member A | unknown | transcription regulator | VH | -1.721 | 1.027 | 1.407 | 0.885 | 1.446 | 0.953 |
| gi_125991919_ref_NM_001081612.1 | 540309 | ELK4 | ELK4, ETS-domain protein (SRF accessory protein 1) | Nucleus | transcription regulator | VH | -1.720 | 1.049 | -1.532 | 0.010 | 1.223 | 1.340 |
| gi_73808098_ref_NM_001032294.1 | 509072 | ALS2CR8 | amyotrophic lateral sclerosis 2 (juvenile) chromosome | Nucleus | transcription regulator | H | -1.715 | 1.052 | 1.919 | 0.100 | 1.757 | 0.356 |
| gi_119917787_ref_XM_611661.3 | 540481 | TCF7L2 | (includes transcription factor 7-like 2 (T-cell specific, HMG-box) | Nucleus | transcription regulator | VH | -1.703 | 1.071 | 1.291 | 1.205 | 1.686 | 0.458 |
| gi_149642584_ref_NM_001099113.1 | 540816 | ZNF189 | zinc finger protein 189 | Nucleus | transcription regulator | H | -1.696 | 1.109 | 1.318 | 1.159 | 1.209 | 1.343 |
| gi_115495392_ref_NM_001075804.1 | 520313 | GABPB1 | (includes: GA binding protein transcription factor, beta subunit 1 | Nucleus | transcription regulator | H | -1.691 | 1.132 | 1.235 | 1.257 | -1.089 | 0.799 |
| gi_119887568_ref_XM_613036.3 | 540766 | SP3 | Sp3 transcription factor | Nucleus | transcription regulator | VH | -1.691 | 1.119 | 1.343 | 1.124 | 1.699 | 0.444 |
| gi_114052399_ref_NM_001045908.1 | 505051 | TAF1A | TATA box binding protein (TBP)-associated factor, RNA | Nucleus | transcription regulator | H | -1.686 | 1.078 | 2.043 | 0.053 | 1.413 | 1.017 |
| gi_78369291_ref_NM_001035368.1 | 527103 | ZSCAN21 | zinc finger and SCAN domain containing 21 | Nucleus | transcription regulator | H | -1.685 | 1.123 | 1.961 | 0.082 | 1.800 | 0.307 |
| gi_119892260_ref_XM_596055.3 | 517876 | ARID2 | AT rich interactive domain 2 (ARID, RFX-like) | Nucleus | transcription regulator | VH | -1.685 | 1.134 | 1.500 | 0.693 | 1.396 | 1.103 |
| gi_114052331_ref_NM_001046351.1 | 533430 | TRIP4 | thyroid hormone receptor interactor 4 | Nucleus | transcription regulator | VH | -1.682 | 1.145 | 1.684 | 0.325 | 1.566 | 0.703 |
| gi_119893929_ref_XM_867691.2 | 615792 | REST | RE1-silencing transcription factor | Nucleus | transcription regulator | H | -1.680 | 1.048 | 2.139 | 0.032 | 1.426 | 0.911 |
| gi_119892032_ref_XM_615033.3 | 541204 | ATF7 | activating transcription factor 7 | Nucleus | transcription regulator | VH | -1.671 | 1.086 | 1.401 | 0.710 | 1.892 | 0.218 |
| gi_155372120_ref_NM_001101200.1 | 539938 | TAF8 | TAF8 RNA polymerase II, TATA box binding protein (TE | Nucleus | transcription regulator | VH | -1.666 | 1.166 | 1.548 | 0.580 | 1.567 | 0.688 |
| gi_118151399_ref_NM_001077960.1 | 524111 | ZNF227 | zinc finger protein 227 | Nucleus | transcription regulator | VH | -1.666 | 1.144 | 1.122 | 1.218 | 1.089 | 1.264 |
| gi_77736579_ref_NM_001034801.1 | 617530 | CEBP6 | CCAAT/enhancer binding protein (C/EBP), gamma | Nucleus | transcription regulator | VH | -1.661 | 1.150 | 1.009 | 1.102 | 1.097 | 1.296 |
| gi_148356239_ref_NM_001098377.1 | 506056 | EID1 | EP300 interacting inhibitor of differentiation 1 | Nucleus | transcription regulator | VH | -1.659 | 1.170 | 1.452 | 0.819 | 1.347 | 1.212 |
| gi_115496659_ref_NM_001075329.1 | 507729 | TCEA2 | transcription elongation factor A (SII), 2 | Nucleus | transcription regulator | H | -1.656 | 1.107 | 1.891 | 0.108 | 2.229 | 0.063 |
| gi_119888072_ref_XM_001250304.1 | 521089 | CCNT2 | cyclin T2 | Nucleus | transcription regulator | H | -1.651 | 1.181 | 1.520 | 0.632 | 1.498 | 0.856 |
| gi_119901461_ref_XM_581379.3 | 505138 | CASP8AP2 | caspase 8 associated protein 2 | Nucleus | transcription regulator | VH | -1.651 | 1.170 | 1.354 | 1.070 | 1.387 | 1.126 |
| gi_165377267_ref_NM_001113531.1 | 504463 | SIRT2 | sirtuin (silent mating type information regulation 2 hom | Nucleus | transcription regulator | H | -1.642 | 1.158 | 1.689 | 0.310 | 1.751 | 0.371 |
| gi_157074093_ref_NM_001103289.1 | 539761 | PLAGL1 | pleiomorphic adenoma gene-like 1 | Nucleus | transcription regulator | VH | -1.642 | 1.184 | 1.912 | 0.104 | 2.151 | 0.083 |
| gi_118151061_ref_NM_001077983.1 | 529698 | INVS | inversin | Nucleus | transcription regulator | H | -1.632 | 1.182 | 1.820 | 0.171 | 2.282 | 0.051 |
| gi_116004080_ref_NM_001076928.1 | 540806 | SMAD9 | SMAD family member 9 | Nucleus | transcription regulator | VH | -1.631 | 1.200 | 1.392 | 0.973 | 1.514 | 0.814 |
| gi_119906083_ref_XM_613264.3 | 533757 | ADNP | activity-dependent neuroprotector homeobox | Nucleus | transcription regulator | VH | -1.630 | 1.204 | 1.536 | 0.608 | 1.823 | 0.288 |
| gi_156120812_ref_NM_001102083.1 | 524585 | TTF1 | transcription termination factor, RNA polymerase I | Nucleus | transcription regulator | H | -1.624 | 1.183 | 1.763 | 0.216 | 1.483 | 0.870 |
| gi_114052996_ref_NM_001046237.1 | 518176 | ZNF323 | zinc finger protein 323 | Nucleus | transcription regulator | H | -1.623 | 1.189 | 2.297 | 0.015 | 2.129 | 0.093 |

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|----------------------------------|-----------|-------------------|---|-----------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_119901261_ref_XM_596663.3_ | 518472 | GTF3C6 | general transcription factor IIIC, polypeptide 6, alpha 3 | unknown | transcription regulator | H | -1.618 | 1.208 | 1.424 | 0.893 | 1.006 | 1.110 |
| gi_119918864_ref_XM_864539.2_ | 541248 | RSF1 | remodeling and spacing factor 1 | Nucleus | transcription regulator | H | -1.613 | 1.227 | 1.552 | 0.514 | 1.707 | 0.438 |
| gi_119894165_ref_XM_001249488.1_ | 781149 | AFF1 | AF4/FMR2 family, member 1 | Nucleus | transcription regulator | H | -1.611 | 1.193 | -1.002 | 1.049 | 1.110 | 1.238 |
| gi_119905647_ref_XR_028807.1_ | 789854 | TAF4 | TAF4 RNA polymerase II, TATA box binding protein (TE | Nucleus | transcription regulator | H | -1.610 | 1.237 | 1.579 | 0.509 | 1.803 | 0.315 |
| gi_119927108_ref_XM_600466.3_ | 522191 | MTERF | mitochondrial transcription termination factor | Cytoplasm | transcription regulator | H | -1.608 | 1.232 | 1.460 | 0.790 | 1.129 | 1.276 |
| gi_114052738_ref_NM_001046298.1_ | 529124 | FLI1 | Friend leukemia virus integration 1 | Nucleus | transcription regulator | VH | -1.605 | 1.209 | 1.102 | 1.196 | 1.093 | 1.246 |
| gi_157427973_ref_NM_001105424.1_ | 539542 | HHEX | hematopoietically expressed homeobox | Nucleus | transcription regulator | H | -1.603 | 1.180 | -1.550 | 1.024 | 1.668 | 0.466 |
| gi_47564039_ref_NM_001001147.1_ | 407194 | CNTN1 | cyclin T1 | Nucleus | transcription regulator | H | -1.596 | 1.182 | 1.023 | 1.021 | 1.101 | 1.236 |
| gi_157279924_ref_NM_001105008.1_ | 618133 | SUPT3H (includes | suppressor of Ty 3 homolog (S. cerevisiae) | Nucleus | transcription regulator | H | -1.590 | 1.232 | 1.598 | 0.443 | 1.297 | 1.243 |
| gi_119901004_ref_XM_598421.3_ | 520186 | CEP110 | centrosomal protein 110kDa | Nucleus | transcription regulator | VH | -1.583 | 1.239 | 1.193 | 1.252 | 1.088 | 1.276 |
| gi_164414432_ref_NM_176635.3_ | 338034 | MYBL1 | v-myb myeloblastosis viral oncogene homolog (avian)- | Nucleus | transcription regulator | H | -1.582 | 1.244 | 1.719 | 0.271 | 1.064 | 1.256 |
| gi_62751780_ref_NM_001015654.1_ | 534403 | SP2 | Sp2 transcription factor | Nucleus | transcription regulator | H | -1.572 | 1.262 | 1.324 | 1.153 | 1.263 | 1.340 |
| gi_119875275_ref_XM_609842.3_ | 531350 | BACH1 | BTB and CNC homology 1, basic leucine zipper transcr | Nucleus | transcription regulator | H | -1.569 | 1.255 | 1.172 | 1.248 | 1.625 | 0.566 |
| gi_119901876_ref_XM_606924.3_ | 528498 | JMY | junction mediating and regulatory protein, p53 cofactor | Nucleus | transcription regulator | H | -1.563 | 1.288 | 1.725 | 0.247 | 1.819 | 0.292 |
| gi_156120954_ref_NM_001102154.1_ | 533243 | ZNF143 | zinc finger protein 143 | Nucleus | transcription regulator | VH | -1.562 | 1.293 | 1.281 | 1.241 | 1.129 | 1.325 |
| gi_119883223_ref_XM_865825.2_ | 614346 | TBL1XR1 | transducin (beta)-like 1 X-linked receptor 1 | Nucleus | transcription regulator | VH | -1.559 | 1.293 | 1.302 | 1.220 | 1.083 | 1.264 |
| gi_119926771_ref_XM_584325.3_ | 507668 | LCOR | ligand dependent nuclear receptor corepressor | Nucleus | transcription regulator | H | -1.557 | 1.265 | 1.090 | 0.826 | 1.177 | 1.319 |
| gi_115497767_ref_NM_001075224.1_ | 505818 | PPP1R13L | protein phosphatase 1, regulatory (inhibitor) subunit 13 | Nucleus | transcription regulator | H | -1.555 | 1.276 | -1.008 | 1.025 | 1.211 | 1.439 |
| gi_115497323_ref_NM_001075265.1_ | 506485 | PBXIP1 | pre-B-cell leukemia homeobox interacting protein 1 | Nucleus | transcription regulator | H | -1.546 | 1.300 | 1.161 | 1.252 | 2.097 | 0.104 |
| gi_119912578_ref_XM_001249745.1_ | 532986 | BPTF | bromodomain PHD finger transcription factor | Nucleus | transcription regulator | VH | -1.544 | 1.266 | 1.432 | 0.814 | 1.636 | 0.548 |
| gi_119890380_ref_XM_879774.2_ | 512622 | KDM4A | lysine (K)-specific demethylase 4A | Nucleus | transcription regulator | H | -1.542 | 1.290 | 1.264 | 1.253 | 1.788 | 0.321 |
| gi_119893251_ref_XM_585886.3_ | 509011 | MKL1 | megakaryoblastic leukemia (translocation) 1 | Nucleus | transcription regulator | VH | -1.542 | 1.300 | -1.171 | 0.520 | 1.483 | 0.890 |
| gi_119910578_ref_XM_001256446.1_ | 789798 | ERF | Ets2 repressor factor | Nucleus | transcription regulator | H | -1.537 | 1.212 | -1.189 | 0.151 | 2.448 | 0.028 |
| gi_155372102_ref_NM_001101190.1_ | 539320 | ZSCAN2 | zinc finger and SCAN domain containing 2 | Nucleus | transcription regulator | H | -1.530 | 1.280 | 1.239 | 1.256 | 1.312 | 1.255 |
| gi_78050074_ref_NM_001035057.1_ | 508445 | HCLS1 | hematopoietic cell-specific Lyn substrate 1 | Nucleus | transcription regulator | VH | -1.528 | 1.299 | 1.370 | 1.027 | 1.449 | 0.949 |
| gi_115495820_ref_NM_001076249.1_ | 540932 | FBXW7 | F-box and WD repeat domain containing 7 | Nucleus | transcription regulator | H | -1.522 | 1.313 | -1.366 | 0.133 | -1.231 | 0.382 |
| gi_114051342_ref_NM_001046143.1_ | 513265 | CDKN2AIP | CDKN2A interacting protein | Nucleus | transcription regulator | H | -1.516 | 1.318 | 1.103 | 1.194 | -1.040 | 0.989 |
| gi_114051613_ref_NM_001046519.1_ | 613828 | DR1 | down-regulator of transcription 1, TBP-binding (negativ | Nucleus | transcription regulator | VH | -1.515 | 1.332 | 1.344 | 1.121 | -1.112 | 0.736 |
| gi_158819092_ref_NM_001110181.1_ | 518857 | ERCC8 | excision repair cross-complementing rodent repair defic | Nucleus | transcription regulator | H | -1.513 | 1.324 | 1.324 | 1.129 | -1.099 | 0.783 |
| gi_119884867_ref_XM_610719.3_ | 532209 | MECOM | MDS1 and EVI1 complex locus | Nucleus | transcription regulator | H | -1.508 | 1.324 | 1.871 | 0.132 | 1.847 | 0.271 |
| gi_115495874_ref_NM_001075460.1_ | 510654 | HDAC10 | histone deacetylase 10 | Nucleus | transcription regulator | H | -1.498 | 1.317 | -1.446 | 0.057 | 1.258 | 1.340 |
| gi_119914492_ref_XM_868895.2_ | 616786 | TMF1 | TATA element modulatory factor 1 | Cytoplasm | transcription regulator | H | -1.493 | 1.347 | 1.098 | 1.200 | -1.117 | 0.728 |
| gi_76634364_ref_XM_585648.2_ | 539210 | PLAG1 | pleiomorphic adenoma gene 1 | Nucleus | transcription regulator | H | -1.491 | 1.332 | 1.457 | 0.789 | 1.303 | 1.296 |
| gi_84000084_ref_NM_001038054.1_ | 507723 | HMG20B | high-mobility group 20B | Nucleus | transcription regulator | VH | -1.488 | 1.347 | -1.081 | 0.896 | 1.230 | 1.342 |
| gi_115495314_ref_NM_001076290.1_ | 613818 | TBPL1 | TBP-like 1 | Nucleus | transcription regulator | VH | -1.488 | 1.355 | 1.070 | 1.187 | -1.058 | 0.962 |
| gi_94966798_ref_NM_001040494.1_ | 404183 | EED | embryonic ectoderm development | Nucleus | transcription regulator | VH | -1.487 | 1.356 | 1.314 | 1.199 | 1.167 | 1.333 |
| gi_119916696_ref_XM_867976.2_ | 528545 | ANKS3 | ankyrin repeat and sterile alpha motif domain containi | Nucleus | transcription regulator | H | -1.477 | 1.358 | -2.095 | 0.000 | -2.156 | 0.000 |
| gi_119910150_ref_XM_614673.3_ | 541127 | NFATC3 | nuclear factor of activated T-cells, cytoplasmic, calcine | Nucleus | transcription regulator | H | -1.470 | 1.355 | 1.264 | 1.253 | 1.690 | 0.462 |
| gi_119911784_ref_XM_582242.3_ | 505878 | SOX15 | SRY (sex determining region Y)-box 15 | Nucleus | transcription regulator | H | -1.468 | 1.356 | 1.031 | 1.116 | 1.062 | 1.232 |
| gi_118151147_ref_NM_001078028.1_ | 540824 | BCL10 | B-cell CLL/lymphoma 10 | Cytoplasm | transcription regulator | H | -1.461 | 1.357 | 1.290 | 1.170 | 1.034 | 1.066 |
| gi_156121092_ref_NM_001102223.1_ | 539013 | CDYL | chromodomain protein, Y-like | Nucleus | transcription regulator | H | -1.461 | 1.358 | 1.137 | 1.215 | 1.126 | 1.314 |
| gi_82697318_ref_NM_001037448.1_ | 506667 | LOC642521 | similar to nuclear DNA-binding protein | unknown | transcription regulator | H | -1.461 | 1.363 | 1.073 | 1.177 | 1.111 | 1.277 |
| gi_119903867_ref_XM_867432.2_ | 525346 | NCOA1 | nuclear receptor coactivator 1 | Nucleus | transcription regulator | H | -1.461 | 1.351 | 1.787 | 0.188 | 2.211 | 0.065 |
| gi_119904828_ref_XM_001249546.1_ | 781157 | HTATSF1 | HIV-1 Tat specific factor 1 | Nucleus | transcription regulator | VH | -1.460 | 1.373 | 1.232 | 1.248 | 1.150 | 1.328 |
| gi_119892443_ref_XM_876015.2_ | 509799 | BAZZ2 | bromodomain adjacent to zinc finger domain, 2A | Nucleus | transcription regulator | VH | -1.458 | 1.368 | -1.018 | 1.023 | 1.573 | 0.686 |
| gi_149642726_ref_NM_001099174.1_ | 618214 | H0XB3 | homeobox B3 | Nucleus | transcription regulator | H | -1.455 | 1.368 | 1.263 | 1.253 | 1.507 | 0.826 |
| gi_77735978_ref_NM_001034516.1_ | 516078 | SNAPC2 | small nuclear RNA activating complex, polypeptide 2, 4 | Nucleus | transcription regulator | H | -1.454 | 1.364 | -1.455 | 0.048 | -1.217 | 0.420 |
| gi_119916711_ref_XM_604254.3_ | 525895 | UBN1 | ubiquitin 1 | Nucleus | transcription regulator | VH | -1.450 | 1.378 | -1.311 | 0.185 | 1.126 | 1.327 |
| gi_156718109_ref_NM_001103090.1_ | 508384 | GATAD2A | GATA zinc finger domain containing 2A | Nucleus | transcription regulator | VH | -1.447 | 1.370 | -1.130 | 0.710 | 1.149 | 1.328 |
| gi_115497357_ref_NM_001075262.1_ | 506448 | ZNF397 | zinc finger protein 397 | Nucleus | transcription regulator | H | -1.445 | 1.379 | 1.448 | 0.847 | 1.250 | 1.334 |
| gi_119904245_ref_XM_592658.3_ | 540249 | GTF3C4 | general transcription factor IIIC, polypeptide 4, 90kDa | Nucleus | transcription regulator | H | -1.436 | 1.364 | 1.195 | 1.218 | 1.530 | 0.731 |
| gi_115494991_ref_NM_001075396.1_ | 509231 | PIAS1 | protein inhibitor of activated STAT, 1 | Nucleus | transcription regulator | VH | -1.434 | 1.380 | 1.213 | 1.256 | 1.285 | 1.326 |
| gi_119889209_ref_XM_612098.3_ | 540563 | ASH1L | ash1 (absent, small, or homeotic)-like (Drosophila) | Nucleus | transcription regulator | H | -1.431 | 1.373 | 1.334 | 1.062 | 1.813 | 0.301 |
| gi_119903894_ref_XM_868832.2_ | 616730 | KLF11 | Kruppel-like factor 11 | Nucleus | transcription regulator | H | -1.430 | 1.386 | 1.936 | 0.095 | 2.482 | 0.024 |
| gi_119911470_ref_XM_603205.3_ | 524868 | MED13 | mediator complex subunit 13 | Nucleus | transcription regulator | VH | -1.426 | 1.389 | 1.139 | 1.238 | 1.476 | 0.920 |
| gi_84370168_ref_NM_001038566.1_ | 539496 | MED21 | mediator complex subunit 21 | Nucleus | transcription regulator | VH | -1.424 | 1.389 | 1.026 | 1.118 | -1.053 | 0.989 |
| gi_166157495_ref_NM_001113767.1_ | 533620 | ANKRD26 | ankyrin repeat domain 26 | Nucleus | transcription regulator | H | -1.423 | 1.378 | 1.895 | 0.110 | 1.500 | 0.817 |
| gi_119918081_ref_XM_592435.3_ | 337916 | IRF2 | interferon regulatory factor 2 | Nucleus | transcription regulator | VH | -1.423 | 1.388 | 1.546 | 0.594 | 1.664 | 0.502 |
| gi_119911986_ref_XM_866711.2_ | 507663 | NCOR1 | nuclear receptor co-repressor 1 | Nucleus | transcription regulator | VH | -1.422 | 1.379 | 1.098 | 1.194 | 1.323 | 1.234 |
| gi_119910346_ref_XM_001253667.1_ | 785741 | ZBTB32 | zinc finger and BTB domain containing 32 | Nucleus | transcription regulator | H | -1.416 | 1.359 | 4.011 | 0.000 | 6.205 | 0.000 |
| gi_119905251_ref_XM_864298.2_ | 613475 | MSRB2 | methionine sulfoxide reductase B2 | Nucleus | transcription regulator | VH | -1.416 | 1.388 | 3.091 | 0.000 | 2.561 | 0.019 |
| gi_114051208_ref_NM_001046581.1_ | 616539 | CHURC1 | churchill domain containing 1 | Nucleus | transcription regulator | H | -1.414 | 1.388 | 1.371 | 1.041 | 1.033 | 1.173 |
| gi_119892694_ref_XM_864033.2_ | 505341 | HCFC2 | host cell factor C2 | Nucleus | transcription regulator | H | -1.413 | 1.389 | 1.359 | 1.044 | 1.338 | 1.213 |
| gi_34147042_ref_NM_183082.1_ | 360190 | AIP | aryl hydrocarbon receptor interacting protein | Nucleus | transcription regulator | H | -1.410 | 1.389 | 1.173 | 1.255 | 1.474 | 0.898 |
| gi_119901604_ref_XM_594787.3_ | 516630 | SHPRH | SNF2 histone linker PHD RING helicase | Nucleus | transcription regulator | H | -1.408 | 1.389 | 2.226 | 0.022 | 2.066 | 0.116 |
| gi_77736452_ref_NM_001034754.1_ | 614227 | TAF12 (includes E | TAF12 RNA polymerase II, TATA box binding protein (T | Nucleus | transcription regulator | H | -1.407 | 1.391 | 1.238 | 1.256 | -1.344 | 0.184 |
| gi_118151227_ref_NM_001078074.1_ | 617345 | VAV1 | vav 1 guanine nucleotide exchange factor | Nucleus | transcription regulator | VH | -1.406 | 1.387 | 1.300 | 1.200 | 1.401 | 1.065 |
| gi_119331201_ref_NM_001079786.1_ | 614382 | NFYB | nuclear transcription factor Y, beta | Nucleus | transcription regulator | H | -1.405 | 1.390 | 1.309 | 1.201 | 1.163 | 1.315 |
| gi_149642624_ref_NM_001098980.1_ | 515219 | MAFG | v-maf musculoaponeurotic fibrosarcoma oncogene hom | Nucleus | transcription regulator | H | -1.403 | 1.389 | 1.116 | 1.229 | 1.272 | 1.335 |
| gi_114051673_ref_NM_001046435.1_ | 538675 | CALCOCO1 | calcium binding and coiled-coil domain 1 | Nucleus | transcription regulator | H | -1.401 | 1.389 | 2.751 | 0.002 | 4.896 | 0.000 |
| gi_119916360_ref_XM_612798.3_ | 533403 | PIAS2 | protein inhibitor of activated STAT, 2 | Nucleus | transcription regulator | H | -1.401 | 1.387 | 1.531 | 0.589 | 1.457 | 0.915 |
| gi_119904714_ref_XM_864451.2_ | 613543 | CENPJ | centromere protein J | Nucleus | transcription regulator | H | -1.399 | 1.388 | 1.547 | 0.539 | 1.137 | 1.310 |
| gi_155371844_ref_NM_001101057.1_ | 100137723 | GTF2H4 | general transcription factor IIH, polypeptide 4, 52kDa | Nucleus | transcription regulator | H | -1.398 | 1.389 | 1.157 | 1.234 | -1.171 | 0.574 |
| gi_27805856_ref_NM_174285.1_ | 281713 | CREB1 | cAMP responsive element binding protein 1 | Nucleus | transcription regulator | VH | -1.396 | 1.388 | 1.366 | 1.032 | 1.141 | 1.328 |

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|----------------------------------|--------|------------------|---|-----------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_115497737_ref_NM_001075597.1 | 513065 | TAF13 | TAF13 RNA polymerase II, TATA box binding protein (T | Nucleus | transcription regulator | H | -1.392 | 1.384 | 1.232 | 1.254 | -1.042 | 0.939 |
| gi_119915832_ref_XM_606667.3 | 528253 | JARID2 | jumonji, AT rich interactive domain 2 | Nucleus | transcription regulator | VH | -1.391 | 1.387 | 1.345 | 1.063 | 1.890 | 0.221 |
| gi_119915606_ref_XM_001252983.1 | 785479 | HMGN1 | high-mobility group nucleosome binding domain 1 | Nucleus | transcription regulator | VH | -1.389 | 1.340 | 1.070 | 0.837 | -1.279 | 0.180 |
| gi_119892486_ref_XM_599314.3 | 521057 | ANKRD52 | ankyrin repeat domain 52 | Nucleus | transcription regulator | H | -1.387 | 1.384 | -1.975 | 0.002 | 1.038 | 1.161 |
| gi_157427817_ref_NM_001105346.1 | 508905 | ZRANB2 | zinc finger, RAN-binding domain containing 2 | Nucleus | transcription regulator | H | -1.384 | 1.390 | 1.371 | 1.062 | 1.238 | 1.340 |
| gi_119902710_ref_XM_864346.2 | 531515 | ARID4A | AT rich interactive domain 4A (RBP1-like) | Nucleus | transcription regulator | VH | -1.382 | 1.388 | 1.464 | 0.787 | 1.567 | 0.693 |
| gi_119919719_ref_XM_590977.3 | 540023 | BCORL1 | BCL6 co-repressor-like 1 | Nucleus | transcription regulator | H | -1.379 | 1.380 | -1.298 | 0.201 | 1.169 | 1.314 |
| gi_134085960_ref_NM_001083405.1 | 510557 | HSF2 | heat shock transcription factor 2 | Nucleus | transcription regulator | VH | -1.376 | 1.390 | 1.424 | 0.905 | 1.158 | 1.324 |
| gi_139949221_ref_NM_001083746.1 | 539836 | ZNF689 | zinc finger protein 689 | Nucleus | transcription regulator | H | -1.373 | 1.389 | 1.229 | 1.256 | 1.273 | 1.325 |
| gi_164519011_ref_NM_001113316.1 | 767979 | HSBP1 | heat shock factor binding protein 1 | Nucleus | transcription regulator | VH | -1.373 | 1.384 | 1.097 | 1.193 | 1.078 | 1.272 |
| gi_62751509_ref_NM_001015597.1 | 514369 | NFKBIL1 | nuclear factor of kappa light polypeptide gene enhance | Nucleus | transcription regulator | H | -1.366 | 1.387 | 1.050 | 1.153 | 1.419 | 1.041 |
| gi_78369237_ref_NM_001035305.1 | 515119 | C19ORF2 | chromosome 19 open reading frame 2 | Nucleus | transcription regulator | VH | -1.366 | 1.387 | 1.336 | 1.152 | 1.220 | 1.341 |
| gi_119916689_ref_XM_581740.3 | 505453 | CREBBP | CREB binding protein | Nucleus | transcription regulator | VH | -1.361 | 1.377 | -1.159 | 0.381 | 1.843 | 0.263 |
| gi_119903730_ref_XM_001254141.1 | 786476 | SERTAD2 | SERTA domain containing 2 | Cytoplasm | transcription regulator | VH | -1.360 | 1.373 | -1.080 | 0.738 | 1.192 | 1.330 |
| gi_155372186_ref_NM_0011101234.1 | 614773 | ZFP36L1 | zinc finger protein 36, C3H type-like 1 | Nucleus | transcription regulator | VH | -1.360 | 1.381 | 1.087 | 1.186 | 1.088 | 1.277 |
| gi_119919942_ref_XM_588477.3 | 539629 | MCP2 | methyl CpG binding protein 2 (Rett syndrome) | Nucleus | transcription regulator | VH | -1.359 | 1.385 | 1.039 | 1.146 | 1.352 | 1.192 |
| gi_119915671_ref_XM_001254052.1 | 786347 | ZNRD1 | zinc ribbon domain containing 1 | Nucleus | transcription regulator | H | -1.358 | 1.353 | -1.055 | 0.746 | -1.745 | 0.005 |
| gi_153792238_ref_NM_001099717.1 | 540945 | DEK | DEK oncogene | Nucleus | transcription regulator | VH | -1.357 | 1.372 | 1.337 | 1.132 | 1.240 | 1.343 |
| gi_139949089_ref_NM_001083687.1 | 515444 | ACAP3 | ArfGAP with coiled-coil, ankyrin repeat and PH domain | Nucleus | transcription regulator | H | -1.356 | 1.374 | -1.933 | 0.001 | 1.001 | 1.038 |
| gi_119892720_ref_XM_612859.3 | 540731 | PRDM4 | PR domain containing 4 | Nucleus | transcription regulator | H | -1.356 | 1.381 | 1.285 | 1.243 | 1.426 | 1.036 |
| gi_115495742_ref_NM_001076256.1 | 541116 | MXD4 | MAX dimerization protein 4 | Nucleus | transcription regulator | H | -1.353 | 1.383 | 1.694 | 0.293 | 2.966 | 0.006 |
| gi_82697380_ref_NM_001037479.1 | 536936 | SUV39H2 | suppressor of variegation 3-9 homolog 2 (Drosophila) | Nucleus | transcription regulator | H | -1.350 | 1.385 | 1.437 | 0.881 | -1.093 | 0.842 |
| gi_115497065_ref_NM_001075289.1 | 506967 | ATF1 | activating transcription factor 1 | Nucleus | transcription regulator | H | -1.342 | 1.376 | 1.148 | 1.242 | -1.129 | 0.673 |
| gi_119918744_ref_XM_601197.3 | 522908 | ERCC6 | excision repair cross-complementing rodent repair defi | Nucleus | transcription regulator | H | -1.342 | 1.375 | 1.938 | 0.094 | 2.014 | 0.142 |
| gi_31340799_ref_NM_174732.2 | 282848 | PFDN5 | prefoldin subunit 5 | Nucleus | transcription regulator | H | -1.342 | 1.378 | -1.002 | 1.057 | 1.225 | 1.343 |
| gi_119918600_ref_XM_867653.2 | 535403 | MYST4 | MYST histone acetyltransferase (monocytic leukemia) | Nucleus | transcription regulator | H | -1.340 | 1.353 | 1.625 | 0.385 | 2.237 | 0.059 |
| gi_157041263_ref_NM_001103174.1 | 540661 | BRWD1 | bromodomain and WD repeat domain containing 1 | Nucleus | transcription regulator | VH | -1.337 | 1.380 | 1.288 | 1.191 | 1.733 | 0.389 |
| gi_115495362_ref_NM_001076287.1 | 613751 | GPBP1 | GC-rich promoter binding protein 1 | Nucleus | transcription regulator | VH | -1.331 | 1.377 | 1.111 | 1.234 | 1.143 | 1.330 |
| gi_118601757_ref_NM_001079583.1 | 509729 | MED7 (includes E | mediator complex subunit 7 | Nucleus | transcription regulator | H | -1.329 | 1.381 | 1.213 | 1.257 | 1.014 | 1.150 |
| gi_78042559_ref_NM_001035106.1 | 512411 | ZNF174 | zinc finger protein 174 | Nucleus | transcription regulator | H | -1.325 | 1.372 | 1.426 | 0.859 | 1.353 | 1.153 |
| gi_119895491_ref_XM_001251355.1 | 782746 | PURA | purine-rich element binding protein A | Nucleus | transcription regulator | H | -1.324 | 1.373 | 1.251 | 1.373 | 1.434 | 1.004 |
| gi_119892451_ref_XM_588270.3 | 511023 | STAT2 | signal transducer and activator of transcription 2, 113kD | Nucleus | transcription regulator | H | -1.324 | 1.360 | 1.520 | 0.629 | 2.078 | 0.112 |
| gi_119920644_ref_XM_593202.3 | 515220 | MSL3 | male-specific lethal 3 homolog (Drosophila) | Nucleus | transcription regulator | VH | -1.324 | 1.371 | 1.211 | 1.258 | 1.473 | 0.925 |
| gi_119900789_ref_XM_613307.3 | 540823 | ZNF367 | zinc finger protein 367 | Nucleus | transcription regulator | H | -1.323 | 1.376 | -1.076 | 0.918 | -1.321 | 0.221 |
| gi_114052580_ref_NM_001045895.1 | 504662 | ZNHIT3 | zinc finger, HIT type 3 | Nucleus | transcription regulator | H | -1.323 | 1.373 | 1.132 | 1.237 | 1.040 | 1.223 |
| gi_119908237_ref_XM_580880.3 | 504716 | AHCTF1 | AT hook containing transcription factor 1 | Nucleus | transcription regulator | H | -1.322 | 1.345 | 1.210 | 1.248 | -1.002 | 1.052 |
| gi_119916928_ref_XM_611393.3 | 511420 | SRCAP | Snf2-related CREBBP activator protein | Cytoplasm | transcription regulator | H | -1.321 | 1.349 | -1.123 | 0.497 | 1.664 | 0.493 |
| gi_119895763_ref_XM_612851.3 | 533443 | CNOT8 | CCR4-NOT transcription complex, subunit 8 | Nucleus | transcription regulator | VH | -1.321 | 1.371 | 1.326 | 1.176 | 1.084 | 1.296 |
| gi_115495326_ref_NM_001075503.1 | 511236 | TAF1B | TATA box binding protein (TBP)-associated factor, RNA | Nucleus | transcription regulator | H | -1.315 | 1.366 | 1.037 | 1.157 | -1.163 | 0.631 |
| gi_119928183_ref_XR_027431.1 | 539883 | PTTG1 | pituitary tumor-transforming 1 | Nucleus | transcription regulator | H | -1.313 | 1.135 | 1.072 | 0.725 | -1.707 | 0.005 |
| gi_116004030_ref_NM_001076907.1 | 534712 | RB1 | retinoblastoma 1 | Nucleus | transcription regulator | H | -1.311 | 1.365 | 1.244 | 1.251 | 1.380 | 1.123 |
| gi_119903526_ref_XM_864560.2 | 509135 | REL | v-rel reticuloendotheliosis viral oncogene homolog (avi | Nucleus | transcription regulator | H | -1.310 | 1.367 | 1.504 | 0.645 | 1.327 | 1.234 |
| gi_119915226_ref_XM_587114.3 | 510032 | TFEB | transcription factor EB | Nucleus | transcription regulator | H | -1.310 | 1.339 | -1.000 | 1.040 | 1.462 | 0.919 |
| gi_115496122_ref_NM_001075748.1 | 517097 | CTCF | CCCTC-binding factor (zinc finger protein) | Nucleus | transcription regulator | VH | -1.308 | 1.371 | 1.342 | 1.129 | 1.206 | 1.343 |
| gi_119892490_ref_XM_612597.3 | 540671 | IKZF4 | IKAROS family zinc finger 4 (Eos) | Nucleus | transcription regulator | H | -1.305 | 1.335 | -1.267 | 0.294 | 1.238 | 1.343 |
| gi_119895244_ref_XM_883278.2 | 533359 | MXD3 | MAX dimerization protein 3 | Nucleus | transcription regulator | H | -1.303 | 1.335 | -1.198 | 0.450 | -1.360 | 0.148 |
| gi_164448597_ref_NM_001035271.2 | 505884 | KLF6 | Kruppel-like factor 6 | Nucleus | transcription regulator | VH | -1.301 | 1.348 | 1.414 | 0.897 | 1.584 | 0.650 |
| gi_119893850_ref_XM_001253114.1 | 784953 | NFXL1 | nuclear transcription factor, X-box binding-like 1 | Nucleus | transcription regulator | H | -1.298 | 1.358 | 1.568 | 0.534 | 1.285 | 1.327 |
| gi_83649734_ref_NM_203362.2 | 541099 | MTPN | myotrophin | Nucleus | transcription regulator | H | -1.298 | 1.364 | 1.146 | 1.248 | 1.022 | 1.207 |
| gi_119918389_ref_XM_614988.3 | 535018 | TARBP1 (includes | TAR (HIV-1) RNA binding protein 1 | Nucleus | transcription regulator | H | -1.296 | 1.334 | 1.205 | 1.254 | 1.333 | 1.245 |
| gi_118151139_ref_NM_001078027.1 | 540741 | SP1 | Sp1 transcription factor | Nucleus | transcription regulator | VH | -1.294 | 1.353 | 1.119 | 1.236 | 1.029 | 1.208 |
| gi_31342416_ref_NM_174286.2 | 281715 | CREB3 | cAMP responsive element binding protein 3 | Nucleus | transcription regulator | H | -1.290 | 1.323 | 1.297 | 1.220 | 1.283 | 1.326 |
| gi_119891422_ref_XM_617403.3 | 537246 | TRIM24 | tripartite motif-containing 24 | Nucleus | transcription regulator | VH | -1.287 | 1.345 | 1.288 | 1.233 | 1.051 | 1.224 |
| gi_119915572_ref_XM_588389.3 | 539620 | ZKSCAN4 | zinc finger with KRAB and SCAN domains 4 | Nucleus | transcription regulator | H | -1.284 | 1.323 | 1.210 | 1.249 | 1.188 | 1.332 |
| gi_31342081_ref_NM_174409.2 | 281961 | OSTF1 | osteoclast stimulating factor 1 | Nucleus | transcription regulator | VH | -1.284 | 1.353 | 1.035 | 1.151 | 1.007 | 1.178 |
| gi_157427809_ref_NM_001105341.1 | 507579 | TTRAP | TRAF and TNF receptor associated protein | Cytoplasm | transcription regulator | H | -1.283 | 1.312 | 1.038 | 1.076 | -1.408 | 0.093 |
| gi_125630704_ref_NM_001081540.1 | 540274 | RNF14 | ring finger protein 14 | Nucleus | transcription regulator | VH | -1.281 | 1.321 | 1.209 | 1.257 | 1.283 | 1.325 |
| gi_119905583_ref_XM_585061.3 | 508301 | GMEB2 | glucocorticoid modulatory element binding protein 2 | Nucleus | transcription regulator | H | -1.273 | 1.325 | -1.328 | 0.176 | 1.058 | 1.251 |
| gi_83035114_ref_NM_001037619.1 | 613479 | GTF2A2 | general transcription factor IIA, 2, 12kDa | Nucleus | transcription regulator | VH | -1.264 | 1.305 | 1.173 | 1.246 | -1.071 | 0.877 |
| gi_118151003_ref_NM_001077955.1 | 522836 | ZNF394 | zinc finger protein 394 | Nucleus | transcription regulator | H | -1.260 | 1.320 | 1.025 | 1.096 | -1.012 | 1.107 |
| gi_157426912_ref_NM_001105257.1 | 541154 | IKZF1 | IKAROS family zinc finger 1 (Ikaros) | Nucleus | transcription regulator | VH | -1.258 | 1.310 | -1.210 | 0.459 | 1.057 | 1.258 |
| gi_115495614_ref_NM_001075437.1 | 510204 | GABPA | GA binding protein transcription factor, alpha subunit 6 | Nucleus | transcription regulator | VH | -1.257 | 1.304 | 1.062 | 1.160 | -1.267 | 0.303 |
| gi_155372126_ref_NM_0011101203.1 | 540090 | RNF2 | ring finger protein 2 | Nucleus | transcription regulator | VH | -1.257 | 1.310 | 1.301 | 1.227 | 1.162 | 1.334 |
| gi_119905771_ref_XM_615437.3 | 535369 | E2F1 | E2F transcription factor 1 | Nucleus | transcription regulator | H | -1.254 | 1.313 | -1.577 | 0.017 | -1.473 | 0.059 |
| gi_78369499_ref_NM_001035307.1 | 515380 | EDF1 | endothelial differentiation-related factor 1 | Nucleus | transcription regulator | VH | -1.254 | 1.318 | -1.028 | 1.024 | -1.121 | 0.776 |
| gi_119901393_ref_XM_615363.3 | 541264 | ZNF292 | zinc finger protein 292 | Nucleus | transcription regulator | VH | -1.250 | 1.308 | 1.146 | 1.238 | 1.524 | 0.771 |
| gi_115496357_ref_NM_001076331.1 | 614509 | MXI1 | MAX interactor 1 | Nucleus | transcription regulator | H | -1.244 | 1.308 | 1.991 | 0.069 | 1.993 | 0.153 |
| gi_119895221_ref_XM_588589.3 | 511283 | ARID3A | AT rich interactive domain 3A (BRIGHT-like) | Nucleus | transcription regulator | VH | -1.244 | 1.251 | -1.659 | 0.009 | -1.063 | 0.887 |
| gi_118150917_ref_NM_001077904.1 | 511407 | NR2C1 | nuclear receptor subfamily 2, group C, member 1 | Nucleus | transcription regulator | VH | -1.244 | 1.314 | 1.273 | 1.244 | 1.218 | 1.342 |
| gi_119895547_ref_XM_590199.3 | 539896 | BRD8 | bromodomain containing 8 | Nucleus | transcription regulator | VH | -1.234 | 1.272 | 1.277 | 1.250 | 1.216 | 1.342 |
| gi_157785622_ref_NM_001105633.1 | 540616 | MAX | MYC associated factor X | Nucleus | transcription regulator | VH | -1.231 | 1.252 | 1.305 | 1.144 | 1.301 | 1.278 |
| gi_155372156_ref_NM_001101218.1 | 541143 | ZNF131 | zinc finger protein 131 | Nucleus | transcription regulator | VH | -1.229 | 1.262 | 1.239 | 1.254 | 1.218 | 1.343 |
| gi_119902124_ref_XM_592917.3 | 514989 | SUPT16H | suppressor of Ty 16 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | -1.221 | 1.253 | 1.199 | 1.255 | -1.022 | 1.080 |
| gi_119912222_ref_XM_581390.3 | 538601 | MLLT6 | myeloid/lymphoid or mixed-lineage leukemia (trithorax | Nucleus | transcription regulator | H | -1.220 | 1.244 | -2.412 | 0.000 | 1.197 | 1.338 |

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|----------------------------------|-----------|----------|--|-----------------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_119906065_ref_XM_589621.3_ | 539807 | ZNFx1 | zinc finger, NFX1-type containing 1 | Nucleus | transcription regulator | VH | -1.220 | 1.262 | 1.916 | 0.092 | 2.979 | 0.005 |
| gi_119906434_ref_XM_588718.3_ | 511392 | TFG1 | trimethylguanosine synthase homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | -1.219 | 1.231 | -1.289 | 0.252 | -1.390 | 0.118 |
| gi_77736142_ref_NM_001034598.1_ | 534003 | GCYC | nuclear transcription factor Y, gamma | Nucleus | transcription regulator | VH | -1.218 | 1.262 | 1.089 | 1.192 | 1.115 | 1.312 |
| gi_62751582_ref_NM_001015582.1_ | 512789 | BRF2 | BRF2, subunit of RNA polymerase III transcription initiation | Nucleus | transcription regulator | VH | -1.215 | 1.282 | -1.058 | 0.963 | -1.062 | 0.964 |
| gi_119909136_ref_XM_591880.3_ | 540159 | ANKL2 | ankryrin repeat and LEM domain containing 2 | Nucleus | transcription regulator | H | -1.215 | 1.273 | -1.021 | 1.049 | 1.055 | 1.248 |
| gi_157785560_ref_NM_001105614.1_ | 414274 | SMARCA4 | SWI/SNF related, matrix associated, actin dependent nuclear | Nucleus | transcription regulator | VH | -1.214 | 1.262 | -1.289 | 0.262 | -1.181 | 0.567 |
| gi_119920411_ref_XM_001252291.1_ | 784529 | BCOR | BCL6 co-repressor | Nucleus | transcription regulator | VH | -1.206 | 1.239 | 1.052 | 1.154 | 1.372 | 1.129 |
| gi_119892198_ref_XM_583302.3_ | 506805 | MLL2 | myeloid/lymphoid or mixed-lineage leukemia 2 | Nucleus | transcription regulator | H | -1.205 | 1.214 | -1.930 | 0.004 | 1.927 | 0.194 |
| gi_84000108_ref_NM_001038064.1_ | 509259 | GTF2F2 | general transcription factor IIF, polypeptide 2, 30kDa | Nucleus | transcription regulator | H | -1.203 | 1.225 | 1.250 | 1.251 | -1.273 | 0.279 |
| gi_115496329_ref_NM_001075824.1_ | 521975 | TRIM32 | tripartite motif-containing 32 | Nucleus | transcription regulator | H | -1.202 | 1.229 | 1.305 | 1.173 | 1.068 | 1.233 |
| gi_114051220_ref_NM_001046028.1_ | 509327 | TAF7 | TAF7 RNA polymerase II, TATA box binding protein (TE) | Nucleus | transcription regulator | VH | -1.202 | 1.244 | 1.242 | 1.251 | 1.223 | 1.343 |
| gi_119910227_ref_XM_877976.2_ | 538523 | NFAT5 | nuclear factor of activated T-cells 5, tonicity-responsive | Nucleus | transcription regulator | H | -1.200 | 1.071 | 1.922 | 0.066 | 2.842 | 0.008 |
| gi_119908459_ref_XM_618469.3_ | 538270 | MB2 | mindbomb homolog 2 (Drosophila) | Nucleus | transcription regulator | H | -1.198 | 1.173 | -1.245 | 0.347 | 1.611 | 0.588 |
| gi_119910191_ref_XM_866255.2_ | 614678 | CBFB | core-binding factor, beta subunit | Nucleus | transcription regulator | VH | -1.198 | 1.251 | -1.103 | 0.827 | -1.138 | 0.707 |
| gi_66792717_ref_NM_001024499.1_ | 508049 | POLR3D | polymerase (RNA) III (DNA directed) polypeptide D, 44 | Nucleus | transcription regulator | VH | -1.198 | 1.189 | -1.103 | 0.781 | -1.233 | 0.401 |
| gi_114051068_ref_NM_001046493.1_ | 540859 | TCEB1 | transcription elongation factor B (SIII), polypeptide 1 | Nucleus | transcription regulator | VH | -1.198 | 1.184 | -1.105 | 0.710 | -1.491 | 0.046 |
| gi_119908419_ref_XM_864814.2_ | 534608 | ZBTB48 | zinc finger and BTB domain containing 48 | Nucleus | transcription regulator | H | -1.197 | 1.231 | 1.075 | 1.157 | 1.207 | 1.343 |
| gi_115749623_ref_NM_001076181.2_ | 536966 | HEXIM1 | hexamethylene bis-acetamide inducible 1 | Nucleus | transcription regulator | VH | -1.197 | 1.233 | -1.006 | 1.075 | 1.001 | 1.129 |
| gi_119920178_ref_XM_599229.3_ | 520974 | MED12 | mediator complex subunit 12 | Nucleus | transcription regulator | VH | -1.197 | 1.156 | -1.013 | 0.999 | 1.582 | 0.642 |
| gi_119901950_ref_XM_592679.3_ | 540252 | FEM1B | fem-1 homolog b (C. elegans) | Nucleus | transcription regulator | VH | -1.192 | 1.206 | 1.124 | 1.227 | 1.157 | 1.328 |
| gi_118150783_ref_NM_001077834.1_ | 326578 | SNW1 | SNW domain containing 1 | Nucleus | transcription regulator | VH | -1.188 | 1.204 | 1.151 | 1.245 | 1.080 | 1.273 |
| gi_119916003_ref_XM_615234.3_ | 535214 | ZNF236 | zinc finger protein 236 | Nucleus | transcription regulator | H | -1.183 | 1.209 | -1.184 | 0.455 | 1.343 | 1.185 |
| gi_119920196_ref_XM_580963.3_ | 504792 | TAF1 | TAF1 RNA polymerase II, TATA box binding protein (TE) | Nucleus | transcription regulator | VH | -1.183 | 1.189 | -1.002 | 1.052 | 1.200 | 1.341 |
| gi_134085694_ref_NM_001083482.1_ | 534722 | PIAS4 | protein inhibitor of activated STAT, 4 | Nucleus | transcription regulator | VH | -1.179 | 1.215 | -1.194 | 0.532 | 1.049 | 1.244 |
| gi_119893140_ref_XM_584665.3_ | 507962 | KDM5A | lysine (K)-specific demethylase 5A | Nucleus | transcription regulator | VH | -1.176 | 1.201 | -1.104 | 0.718 | 1.324 | 1.272 |
| gi_119888429_ref_XM_872705.2_ | 511573 | ZNF142 | zinc finger protein 142 | Nucleus | transcription regulator | H | -1.172 | 1.198 | -1.205 | 0.352 | 1.039 | 1.214 |
| gi_149642766_ref_NM_001099116.1_ | 540910 | SMARCE1 | SWI/SNF related, matrix associated, actin dependent nuclear | Nucleus | transcription regulator | VH | -1.172 | 1.156 | 1.045 | 1.161 | -1.039 | 1.021 |
| gi_115749615_ref_NM_001035080.2_ | 509960 | MTF1 | metal-regulatory transcription factor 1 | Nucleus | transcription regulator | VH | -1.171 | 1.203 | -1.152 | 0.674 | -1.178 | 0.587 |
| gi_78369295_ref_NM_001035497.1_ | 617771 | UBE2V1 | ubiquitin-conjugating enzyme E2 variant 1 | Nucleus | transcription regulator | VH | -1.170 | 1.187 | 1.155 | 1.245 | 1.084 | 1.288 |
| gi_157428099_ref_NM_001105488.1_ | 100125917 | RFXANK | regulatory factor X-associated ankryrin-containing protein | Nucleus | transcription regulator | VH | -1.168 | 1.172 | 1.214 | 1.254 | 1.421 | 1.022 |
| gi_134085660_ref_NM_001083397.1_ | 509448 | TFCP2 | transcription factor CP2 | Nucleus | transcription regulator | VH | -1.167 | 1.174 | 1.275 | 1.242 | 1.324 | 1.242 |
| gi_119917332_ref_XM_871229.2_ | 618914 | MAFK | v-maf musculoaponeurotic fibrosarcoma oncogene homolog | Nucleus | transcription regulator | H | -1.166 | 1.184 | -1.786 | 0.002 | -1.772 | 0.005 |
| gi_114052335_ref_NM_001046350.1_ | 533382 | PKNOX1 | PBX/knotted 1 homeobox 1 | Nucleus | transcription regulator | H | -1.163 | 1.149 | 1.146 | 1.235 | 1.073 | 1.243 |
| gi_119920764_ref_XM_605445.3_ | 527058 | RLF | rearranged L-myc fusion | Nucleus | transcription regulator | H | -1.163 | 1.152 | 1.336 | 1.116 | 1.203 | 1.342 |
| gi_119917839_ref_XM_866668.2_ | 614540 | TIAL1 | TIA1 cytotoxic granule-associated RNA binding protein | Nucleus | transcription regulator | VH | -1.163 | 1.193 | 1.131 | 1.247 | -1.022 | 1.080 |
| gi_153792752_ref_NM_001046074.2_ | 511077 | MYC | v-myc myelocytomatosis viral oncogene homolog (avia) | Nucleus | transcription regulator | VH | -1.162 | 1.175 | 1.301 | 1.230 | 1.138 | 1.332 |
| gi_78369233_ref_NM_001035268.1_ | 505177 | ZNF207 | zinc finger protein 207 | Nucleus | transcription regulator | VH | -1.162 | 1.150 | 1.211 | 1.257 | 1.113 | 1.304 |
| gi_156120408_ref_NM_001101880.1_ | 507148 | REST | RE1-silencing transcription factor | Nucleus | transcription regulator | H | -1.160 | 1.123 | 1.354 | 1.088 | 1.115 | 1.293 |
| gi_119918095_ref_XM_874513.2_ | 404141 | ING2 | inhibitor of growth family, member 2 | Nucleus | transcription regulator | H | -1.154 | 1.172 | 1.284 | 1.237 | 1.084 | 1.247 |
| gi_114052217_ref_NM_001045925.1_ | 505722 | TCEA1 | transcription elongation factor A (SII), 1 | Nucleus | transcription regulator | VH | -1.154 | 1.126 | 1.108 | 1.199 | 1.083 | 1.263 |
| gi_134085756_ref_NM_001083392.1_ | 508522 | GPN1 | GPN-loop GTPase 1 | Nucleus | transcription regulator | VH | -1.153 | 1.140 | 1.031 | 1.130 | -1.288 | 0.278 |
| gi_148228870_ref_NM_001098117.1_ | 540648 | BCLAF1 | BCL2-associated transcription factor 1 | Nucleus | transcription regulator | VH | -1.152 | 1.155 | 1.035 | 1.153 | -1.021 | 1.106 |
| gi_119905975_ref_XM_602010.3_ | 523707 | NCOA3 | nuclear receptor coactivator 3 | Nucleus | transcription regulator | VH | -1.152 | 1.131 | 1.432 | 0.839 | 1.968 | 0.167 |
| gi_77735506_ref_NM_001034276.1_ | 507047 | TAF11 | TAF11 RNA polymerase II, TATA box binding protein (T) | Nucleus | transcription regulator | H | -1.151 | 1.152 | 1.031 | 1.138 | -1.431 | 0.089 |
| gi_119908977_ref_XR_027764.1_ | 536676 | NARG1 | NMDA receptor regulated 1 | Nucleus | transcription regulator | VH | -1.148 | 1.130 | 1.082 | 1.199 | 1.034 | 1.211 |
| gi_115497643_ref_XM_001075582.1_ | 512840 | POU2F1 | POU class 2 homeobox 1 | Nucleus | transcription regulator | VH | -1.148 | 1.140 | 1.112 | 1.234 | 1.116 | 1.325 |
| gi_119912200_ref_XM_869372.2_ | 505147 | PCGF2 | polycomb group ring finger 2 | Nucleus | transcription regulator | VH | -1.147 | 1.152 | 1.231 | 1.253 | 1.376 | 1.150 |
| gi_149642818_ref_NM_001098968.1_ | 514443 | TAF10 | TAF10 RNA polymerase II, TATA box binding protein (T) | Nucleus | transcription regulator | VH | -1.144 | 1.131 | -1.419 | 0.073 | -1.398 | 0.119 |
| gi_114326277_ref_XM_174532.3_ | 282215 | DNAJB6 | DnaJ (Hsp40) homolog, subfamily B, member 6 | Nucleus | transcription regulator | H | -1.143 | 1.126 | -1.475 | 0.039 | -1.713 | 0.007 |
| gi_119907617_ref_XM_617789.3_ | 537616 | POLD3 | polymerase (DNA-directed), delta 3, accessory subunit | Nucleus | transcription regulator | VH | -1.140 | 1.115 | -1.178 | 0.571 | -1.672 | 0.009 |
| gi_119918701_ref_XM_001250854.1_ | 510059 | TFAM | transcription factor A, mitochondrial | Cytoplasm | transcription regulator | VH | -1.138 | 1.096 | -1.012 | 1.042 | -1.178 | 0.553 |
| gi_139947655_ref_NM_001083689.1_ | 515903 | FOXP1 | forkhead box P1 | Nucleus | transcription regulator | VH | -1.135 | 1.103 | 1.299 | 1.233 | 1.441 | 0.990 |
| gi_119889347_ref_XM_584127.3_ | 538995 | ETV3 | ets variant 3 | Nucleus | transcription regulator | H | -1.129 | 1.063 | -1.773 | 0.005 | 1.078 | 1.259 |
| gi_119904710_ref_XM_001250984.1_ | 507091 | MPHOSPH8 | M-phase phosphoprotein 8 | Nucleus | transcription regulator | VH | -1.129 | 1.101 | 1.019 | 1.134 | -1.103 | 0.789 |
| gi_115496186_ref_NM_001076214.1_ | 540345 | DRAP1 | DR1-associated protein 1 (negative cofactor 2 alpha) | Nucleus | transcription regulator | VH | -1.128 | 1.099 | -1.114 | 0.783 | -1.120 | 0.782 |
| gi_119895256_ref_XM_592234.3_ | 540197 | NSD1 | nuclear receptor binding SET domain protein 1 | Nucleus | transcription regulator | VH | -1.127 | 1.082 | 1.020 | 1.059 | 1.651 | 0.527 |
| gi_119889584_ref_XM_001250499.1_ | 533296 | TRIM33 | tripartite motif-containing 33 | Nucleus | transcription regulator | VH | -1.127 | 1.092 | 1.086 | 1.206 | 1.185 | 1.341 |
| gi_149643026_ref_NM_001098960.1_ | 513602 | HDAC6 | histone deacetylase 6 | Nucleus | transcription regulator | H | -1.123 | 1.006 | 1.237 | 1.257 | 1.062 | 1.215 |
| gi_75832104_ref_NM_001014916.2_ | 513312 | NACA | nascent polypeptide-associated complex alpha subunit | Nucleus | transcription regulator | VH | -1.121 | 1.077 | 1.033 | 1.142 | 1.044 | 1.235 |
| gi_84000392_ref_NM_001038212.1_ | 616311 | PMF1 | polyamine-modulated factor 1 | Nucleus | transcription regulator | H | -1.120 | 0.970 | 1.023 | 0.976 | -1.162 | 0.617 |
| gi_77735780_ref_NM_001034413.1_ | 511852 | ASB11 | ankryrin repeat and SOCS box-containing 11 | Nucleus | transcription regulator | H | -1.119 | 1.058 | -1.226 | 0.375 | -1.260 | 0.347 |
| gi_114053212_ref_NM_001046271.1_ | 524184 | ECD | ecdysoneless homolog (Drosophila) | Nucleus | transcription regulator | H | -1.119 | 1.066 | 1.253 | 1.251 | -1.066 | 0.939 |
| gi_114051857_ref_NM_001045960.1_ | 507187 | TCEAL1 | transcription elongation factor A (SII)-like 1 | Nucleus | transcription regulator | H | -1.118 | 1.025 | 1.829 | 0.164 | 1.717 | 0.418 |
| gi_31341991_ref_NM_174441.2_ | 282015 | PSMCS5 | proteasome (prosome, macropain) 26S subunit, ATPase | Nucleus | transcription regulator | VH | -1.117 | 1.061 | -1.193 | 0.505 | -1.204 | 0.475 |
| gi_119891154_ref_XM_863839.2_ | 537266 | ZMIZ2 | zinc finger, MIZ-type containing 2 | Nucleus | transcription regulator | H | -1.113 | 1.040 | -1.019 | 1.021 | 1.875 | 0.239 |
| gi_119894912_ref_XM_580591.3_ | 504458 | MLLT1 | myeloid/lymphoid or mixed-lineage leukemia (trithorax) | Nucleus | transcription regulator | VH | -1.112 | 1.026 | -1.196 | 0.485 | 1.013 | 1.139 |
| gi_115495158_ref_NM_001075975.1_ | 532936 | TAF9 | TAF9 RNA polymerase II, TATA box binding protein (TE) | Nucleus | transcription regulator | VH | -1.112 | 1.025 | 1.132 | 1.229 | -1.006 | 1.105 |
| gi_77736302_ref_NM_001034679.1_ | 539640 | RCAN1 | regulator of calcineurin 1 | Nucleus | transcription regulator | H | -1.111 | 1.053 | 1.731 | 0.255 | 1.372 | 1.128 |
| gi_77735398_ref_NM_001034224.1_ | 504831 | CNPB | CCHG-type zinc finger, nucleic acid binding protein | Nucleus | transcription regulator | VH | -1.109 | 1.032 | -1.084 | 0.852 | -1.112 | 0.742 |
| gi_119889486_ref_XM_867242.2_ | 513730 | NOTCH2 | Notch homolog 2 (Drosophila) | Plasma Membrane | transcription regulator | H | -1.107 | 0.946 | -1.971 | 0.002 | 1.316 | 1.224 |
| gi_119916782_ref_XM_594080.3_ | 515964 | RRN3 | RRN3 RNA polymerase I transcription factor homolog (Nucleus) | Nucleus | transcription regulator | H | -1.107 | 0.939 | 1.041 | 1.151 | 1.002 | 1.154 |
| gi_116003916_ref_NM_001076846.1_ | 513562 | FUBP1 | far upstream element (FUSE) binding protein 1 | Nucleus | transcription regulator | VH | -1.105 | 1.025 | 1.089 | 1.215 | 1.007 | 1.160 |
| gi_119908534_ref_XM_591419.3_ | 513692 | SPEN | spen homolog, transcriptional regulator (Drosophila) | Nucleus | transcription regulator | VH | -1.105 | 1.055 | -1.366 | 0.109 | 1.298 | 1.318 |
| gi_155372154_ref_NM_001101217.1_ | 541080 | FUBP3 | far upstream element (FUSE) binding protein 3 | Nucleus | transcription regulator | H | -1.104 | 1.030 | 1.126 | 1.244 | 1.186 | 1.341 |

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|----------------------------------|--------|------------------|---|-----------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_122692288_ref_NM_001080214.1_ | 281148 | ETS2 | v-ets erythroblastosis virus E26 oncogene homolog 2 (| Nucleus | transcription regulator | H | -1.099 | 1.005 | -1.704 | 0.005 | -1.751 | 0.005 |
| gi_119909659_ref_XM_583272.3_ | 506776 | LZTR1 | leucine zipper-like transcription regulator 1 | Cytoplasm | transcription regulator | H | -1.097 | 1.018 | -1.569 | 0.019 | -1.039 | 1.006 |
| gi_119902222_ref_XM_866403.2_ | 614181 | HOMEZ | homeobox and leucine zipper encoding | | transcription regulator | H | -1.095 | 0.949 | 1.668 | 0.334 | 1.832 | 0.279 |
| gi_119906753_ref_XM_001250052.1_ | 782052 | LOC100046341 | basic transcription factor 3 pseudogene | unknown | transcription regulator | VH | -1.095 | 0.789 | 1.155 | 1.174 | 1.085 | 1.159 |
| gi_119891667_ref_XM_865659.2_ | 509106 | EZH2 | enhancer of zeste homolog 2 (Drosophila) | Nucleus | transcription regulator | VH | -1.093 | 0.907 | 1.079 | 1.181 | -1.358 | 0.161 |
| gi_119906877_ref_XM_001250150.1_ | 781912 | TAF2 | TAF2 RNA polymerase II, TATA box binding protein (TE | Nucleus | transcription regulator | VH | -1.091 | 0.951 | -1.059 | 0.924 | -1.191 | 0.511 |
| gi_119903945_ref_XM_001250691.1_ | 782101 | COPS2 | COP9 constitutive photomorphogenic homolog subunit | Cytoplasm | transcription regulator | H | -1.090 | 0.934 | 1.194 | 1.247 | -1.400 | 0.107 |
| gi_149642570_ref_NM_001099088.1_ | 538594 | CREBZF | CREB/ATF bZIP transcription factor | Nucleus | transcription regulator | H | -1.090 | 1.003 | 1.118 | 1.227 | 1.347 | 1.218 |
| gi_70778872_ref_NM_001025314.1_ | 281031 | BTF3 | basic transcription factor 3 | Nucleus | transcription regulator | VH | -1.090 | 0.980 | 1.159 | 1.252 | 1.044 | 1.238 |
| gi_119910805_ref_XM_593712.3_ | 515654 | ATF5 | activating transcription factor 5 | Nucleus | transcription regulator | H | -1.089 | 0.970 | -1.728 | 0.006 | 1.393 | 1.096 |
| gi_77736488_ref_NM_001034772.1_ | 614915 | HMGN1 | high-mobility group nucleosome binding domain 1 | Nucleus | transcription regulator | VH | -1.086 | 0.854 | 1.025 | 1.063 | -1.134 | 0.612 |
| gi_114051246_ref_NM_001046196.1_ | 515320 | HBP1 | HMG-box transcription factor 1 | Nucleus | transcription regulator | H | -1.085 | 0.898 | 2.174 | 0.028 | 2.253 | 0.057 |
| gi_119890471_ref_XM_581483.3_ | 505228 | THRAP3 | thyroid hormone receptor associated protein 3 | Nucleus | transcription regulator | VH | -1.084 | 0.967 | 1.101 | 1.227 | 1.185 | 1.341 |
| gi_119891865_ref_XM_590763.3_ | 513125 | ATN1 | atrophin 1 | Nucleus | transcription regulator | VH | -1.083 | 0.957 | -1.347 | 0.144 | 1.454 | 0.954 |
| gi_147906545_ref_NM_001097995.1_ | 507659 | TSG101 | tumor susceptibility gene 101 | Nucleus | transcription regulator | VH | -1.083 | 0.932 | -1.173 | 0.563 | -1.132 | 0.720 |
| gi_119912207_ref_XM_598984.3_ | 520734 | MED1 | mediator complex subunit 1 | Nucleus | transcription regulator | VH | -1.082 | 0.941 | 1.006 | 1.085 | 1.006 | 1.141 |
| gi_119893309_ref_XM_601446.3_ | 523151 | TCF20 | transcription factor 20 (AR1) | Nucleus | transcription regulator | H | -1.081 | 0.861 | -2.002 | 0.002 | 1.488 | 0.786 |
| gi_147902867_ref_NM_001098050.1_ | 521194 | MAML2 | mastermind-like 2 (Drosophila) | Nucleus | transcription regulator | VH | -1.079 | 0.955 | 1.044 | 1.141 | 1.040 | 1.226 |
| gi_115496729_ref_NM_001076365.1_ | 615330 | YEATS4 | YEATS domain containing 4 | Nucleus | transcription regulator | VH | -1.077 | 0.843 | 1.170 | 1.242 | -1.141 | 0.611 |
| gi_134085919_ref_NM_001083450.1_ | 527134 | LRCH4 | leucine-rich repeats and calponin homology (CH) dom | Cytoplasm | transcription regulator | VH | -1.076 | 0.917 | -1.820 | 0.002 | 1.155 | 1.334 |
| gi_149642736_ref_XR_027800.1_ | 506331 | MED26 | mediator complex subunit 26 | Nucleus | transcription regulator | H | -1.075 | 0.903 | -1.067 | 0.926 | -1.112 | 0.782 |
| gi_119904546_ref_XM_583090.3_ | 506618 | FOXO1 | forkhead box O1 | Nucleus | transcription regulator | VH | -1.073 | 0.949 | -1.590 | 0.015 | -1.150 | 0.691 |
| gi_77736446_ref_NM_001034751.1_ | 614212 | LMO4 | LIM domain only 4 | Nucleus | transcription regulator | VH | -1.071 | 0.920 | 1.321 | 1.180 | 1.269 | 1.333 |
| gi_149642796_ref_NM_001099041.1_ | 528606 | EHMT1 | euchromatic histone-lysine N-methyltransferase 1 | Nucleus | transcription regulator | VH | -1.070 | 0.875 | -1.119 | 0.730 | 1.028 | 1.173 |
| gi_115495582_ref_NM_001076152.1_ | 539270 | ABT1 | activator of basal transcription 1 | Nucleus | transcription regulator | VH | -1.068 | 0.921 | -1.078 | 0.890 | -1.427 | 0.087 |
| gi_119907199_ref_XR_027800.1_ | 541023 | ZNF202 | zinc finger protein 202 | Nucleus | transcription regulator | H | -1.067 | 0.882 | 1.017 | 1.006 | 1.283 | 1.327 |
| gi_115495282_ref_NM_001075942.1_ | 530908 | CREG1 | cellular repressor of E1A-stimulated genes 1 | Nucleus | transcription regulator | H | -1.066 | 0.897 | 2.174 | 0.028 | 1.883 | 0.237 |
| gi_147898440_ref_NM_001098002.1_ | 509232 | NRF1 | nuclear respiratory factor 1 | Nucleus | transcription regulator | H | -1.064 | 0.799 | -1.048 | 0.938 | 1.042 | 1.186 |
| gi_27806886_ref_NM_173912.1_ | 280796 | FUS | fusion (involved in t(12;16) in malignant liposarcoma) | Nucleus | transcription regulator | VH | -1.064 | 0.846 | -1.086 | 0.795 | -1.209 | 0.432 |
| gi_84370084_ref_NM_001038530.1_ | 511829 | GTF2H2 | general transcription factor IIH, polypeptide 2, 44kDa | Nucleus | transcription regulator | VH | -1.062 | 0.904 | 1.287 | 1.241 | 1.073 | 1.268 |
| gi_115497917_ref_NM_001075610.1_ | 513297 | L3MBTL2 | (3)mbl-like 2 (Drosophila) | Nucleus | transcription regulator | H | -1.061 | 0.883 | -1.263 | 0.313 | -1.192 | 0.509 |
| gi_31343070_ref_NM_174000.2_ | 281036 | CALR | calreticulin | Cytoplasm | transcription regulator | VH | -1.061 | 0.866 | 1.025 | 1.092 | -1.046 | 1.007 |
| gi_118151443_ref_NM_001078163.1_ | 777788 | DDIT3 | DNA-damage-inducible transcript 3 | Nucleus | transcription regulator | H | -1.058 | 0.871 | 1.408 | 0.918 | 2.398 | 0.033 |
| gi_94966888_ref_NM_001040546.1_ | 525389 | MED27 | mediator complex subunit 27 | Nucleus | transcription regulator | VH | -1.058 | 0.857 | -1.033 | 1.000 | -1.101 | 0.797 |
| gi_114051533_ref_NM_001046589.1_ | 617018 | RNF4 | ring finger protein 4 | Nucleus | transcription regulator | VH | -1.058 | 0.829 | -1.056 | 0.929 | -1.093 | 0.846 |
| gi_119909418_ref_XM_615157.3_ | 535152 | DDX54 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 54 | Nucleus | transcription regulator | H | -1.057 | 0.854 | -1.250 | 0.357 | -1.321 | 0.226 |
| gi_119916790_ref_XM_588800.3_ | 511461 | MKL2 | MKL/myocardin-like 2 | Nucleus | transcription regulator | H | -1.056 | 0.859 | 1.561 | 0.542 | 1.587 | 0.648 |
| gi_117935054_ref_NM_174339.3_ | 281814 | HIF1A | hypoxia inducible factor 1, alpha subunit (basic helix-lo | Nucleus | transcription regulator | VH | -1.056 | 0.859 | -1.084 | 0.830 | 1.137 | 1.326 |
| gi_83035094_ref_NM_001037616.1_ | 540444 | HMGB2 | high-mobility group box 2 | Nucleus | transcription regulator | VH | -1.056 | 0.861 | -1.148 | 0.671 | -1.191 | 0.528 |
| gi_156120704_ref_NM_001102029.1_ | 515680 | NFX1 | nuclear transcription factor, X-box binding 1 | Nucleus | transcription regulator | VH | -1.056 | 0.865 | 1.127 | 1.237 | 1.072 | 1.262 |
| gi_30466259_ref_NM_178573.1_ | 353120 | BRCA1 | breast cancer 1, early onset | Nucleus | transcription regulator | VH | -1.055 | 0.803 | 1.019 | 1.092 | -1.352 | 0.163 |
| gi_119889005_ref_XM_001254027.1_ | 524645 | DCAF6 | DDB1 and CUL4 associated factor 6 | Nucleus | transcription regulator | H | -1.054 | 0.854 | 1.277 | 1.241 | 1.138 | 1.327 |
| gi_119917147_ref_XM_585218.3_ | 508442 | BAZ1B | bromodomain adjacent to zinc finger domain, 1B | Nucleus | transcription regulator | VH | -1.052 | 0.815 | -1.395 | 0.077 | 1.091 | 1.280 |
| gi_156120490_ref_NM_001101921.1_ | 510084 | ANKRD10 | ankyrin repeat domain 10 | Nucleus | transcription regulator | H | -1.048 | 0.790 | -1.075 | 0.801 | -1.032 | 0.986 |
| gi_119896053_ref_XM_001249429.1_ | 781150 | SAP30 | Sin3A-associated protein, 30kDa | Nucleus | transcription regulator | VH | -1.045 | 0.827 | 1.115 | 1.227 | -1.528 | 0.034 |
| gi_119914774_ref_XR_028584.1_ | 522045 | SMARCC1 | SWI/SNF related, matrix associated, actin dependent r | Nucleus | transcription regulator | VH | -1.045 | 0.759 | -1.076 | 0.770 | 1.007 | 1.113 |
| gi_118601877_ref_NM_001079642.1_ | 780787 | SRA1 | steroid receptor RNA activator 1 | Nucleus | transcription regulator | H | -1.044 | 0.803 | -1.100 | 0.796 | 1.073 | 1.255 |
| gi_119910728_ref_XM_593095.2_ | 540310 | GRLF1 | glucocorticoid receptor DNA binding factor 1 | Nucleus | transcription regulator | VH | -1.043 | 0.791 | -2.427 | 0.000 | 1.173 | 1.332 |
| gi_77735442_ref_NM_001034244.1_ | 505401 | TADA2A | transcriptional adaptor 2A | Nucleus | transcription regulator | VH | -1.043 | 0.752 | 1.295 | 1.238 | 1.089 | 1.270 |
| gi_156120910_ref_NM_001102132.1_ | 530776 | LASS5 | LAG1 homolog, ceramide synthase 5 | Cytoplasm | transcription regulator | VH | -1.042 | 0.721 | -1.072 | 0.868 | -1.089 | 0.787 |
| gi_119905848_ref_XM_585747.3_ | 508899 | NCOA6 | nuclear receptor coactivator 6 | Nucleus | transcription regulator | VH | -1.041 | 0.827 | 1.180 | 1.254 | 1.400 | 1.101 |
| gi_119923843_ref_XM_585257.3_ | 508477 | ZNF593 | zinc finger protein 593 | Nucleus | transcription regulator | H | -1.039 | 0.594 | -1.257 | 0.168 | -1.404 | 0.067 |
| gi_119917684_ref_XM_604843.3_ | 526472 | LDB1 | LIM domain binding 1 | Nucleus | transcription regulator | VH | -1.039 | 0.795 | 1.090 | 1.201 | 1.416 | 1.048 |
| gi_78369455_ref_NM_001035441.1_ | 614028 | NPM1 (includes E | nucleoposmin 1 | Nucleus | transcription regulator | VH | -1.039 | 0.759 | 1.033 | 1.111 | -1.005 | 1.098 |
| gi_119887281_ref_XM_613744.3_ | 407215 | KAT2B | K(lysine) acetyltransferase 2B | Nucleus | transcription regulator | H | -1.038 | 0.798 | 1.233 | 1.257 | 1.063 | 1.262 |
| gi_77736563_ref_NM_001034792.1_ | 616425 | SUPT4H1 | suppressor of Ty 4 homolog 1 (S. cerevisiae) | Nucleus | transcription regulator | VH | -1.036 | 0.752 | -1.294 | 0.216 | -1.324 | 0.200 |
| gi_73853757_ref_NM_174492.2_ | 282126 | YWHAH | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase | Cytoplasm | transcription regulator | VH | -1.035 | 0.815 | -1.038 | 1.009 | -1.184 | 0.568 |
| gi_134085692_ref_NM_001083533.1_ | 789710 | KLF13 | Kruppel-like factor 13 | Nucleus | transcription regulator | H | -1.033 | 0.740 | -1.342 | 0.150 | 1.030 | 1.184 |
| gi_119912595_ref_XM_610873.3_ | 532359 | FOXK2 | forkhead box K2 | Nucleus | transcription regulator | VH | -1.032 | 0.751 | -1.155 | 0.594 | -1.117 | 0.745 |
| gi_114050744_ref_NM_001046475.1_ | 540374 | GMEB2 | glucocorticoid modulatory element binding protein 1 | Nucleus | transcription regulator | H | -1.031 | 0.688 | -1.041 | 0.971 | 1.098 | 1.288 |
| gi_119915495_ref_XM_869170.2_ | 514062 | EHMT2 | euchromatic histone-lysine N-methyltransferase 2 | Nucleus | transcription regulator | H | -1.030 | 0.759 | -1.351 | 0.136 | 1.832 | 0.278 |
| gi_114051601_ref_NM_001046442.1_ | 538775 | KHDRBS1 | KH domain containing, RNA binding, signal transductio | Nucleus | transcription regulator | VH | -1.030 | 0.781 | 1.164 | 1.252 | 1.019 | 1.189 |
| gi_157427939_ref_NM_001105407.1_ | 533984 | SUB1 | SUB1 homolog (S. cerevisiae) | Nucleus | transcription regulator | H | -1.029 | 0.737 | 1.255 | 1.250 | 1.041 | 1.159 |
| gi_118151211_ref_NM_001078062.1_ | 616553 | PFN1 | prelamin subunit 1 | Cytoplasm | transcription regulator | VH | -1.028 | 0.734 | -1.382 | 0.098 | -1.566 | 0.023 |
| gi_156121302_ref_NM_001102329.1_ | 782752 | GTF3C2 | general transcription factor IIIC, polypeptide 2, beta 11 | Nucleus | transcription regulator | VH | -1.026 | 0.748 | -1.008 | 1.065 | 1.079 | 1.285 |
| gi_115494903_ref_NM_001076209.1_ | 540248 | SMAD4 | SMAD family member 4 | Nucleus | transcription regulator | VH | -1.026 | 0.759 | 1.073 | 1.193 | -1.020 | 1.051 |
| gi_115497821_ref_NM_001076452.1_ | 617269 | ASB8 | ankyrin repeat and SOCS box-containing 8 | Nucleus | transcription regulator | H | -1.024 | 0.698 | 1.409 | 0.821 | 1.587 | 0.630 |
| gi_119894504_ref_XM_583044.3_ | 506578 | ELL | elongation factor RNA polymerase II | Nucleus | transcription regulator | H | -1.024 | 0.718 | -1.128 | 0.714 | -1.045 | 0.968 |
| gi_119888577_ref_XM_001253150.1_ | 786336 | PTMA (includes E | plongosin, alpha | Nucleus | transcription regulator | VH | -1.023 | 0.741 | 1.065 | 1.170 | -1.047 | 0.980 |
| gi_119895456_ref_XM_589487.3_ | 512048 | REXO1 | REX1, RNA exonuclease 1 homolog (S. cerevisiae) | Nucleus | transcription regulator | H | -1.021 | 0.687 | -2.922 | 0.000 | -1.240 | 0.360 |
| gi_134085770_ref_NM_001083395.1_ | 508663 | ZNF277 | zinc finger protein 277 | Nucleus | transcription regulator | H | -1.020 | 0.726 | 1.264 | 1.171 | 1.107 | 1.298 |
| gi_148230363_ref_NM_001098064.1_ | 527471 | HNRNPD | heterogeneous nuclear ribonucleoprotein D (AU-rich el | Nucleus | transcription regulator | VH | -1.018 | 0.698 | -1.004 | 1.064 | -1.067 | 0.938 |
| gi_160333190_ref_NM_001034730.2_ | 541303 | MED17 | mediator complex subunit 17 | Nucleus | transcription regulator | VH | -1.017 | 0.718 | 1.011 | 1.092 | -1.376 | 0.142 |
| gi_115496895_ref_NM_001075188.1_ | 505102 | NFKBIL2 | nuclear factor of kappa light polypeptide gene enhance | Cytoplasm | transcription regulator | H | -1.015 | 0.693 | -1.507 | 0.033 | -1.141 | 0.663 |

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|---------------------------------|--------|-----------------|---|-----------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_125991889_ref_NM_001081614.1 | 541229 | SF1 | splicing factor 1 | Nucleus | transcription regulator | VH | -1.015 | 0.710 | 1.009 | 1.098 | 1.078 | 1.232 |
| gi_119894806_ref_XM_592855.3 | 614936 | ILF3 | interleukin enhancer binding factor 3, 90kDa | Nucleus | transcription regulator | VH | -1.013 | 0.716 | -1.113 | 0.793 | -1.021 | 1.089 |
| gi_77736218_ref_NM_001034638.1 | 537402 | RBBP7 | retinoblastoma binding protein 7 | Nucleus | transcription regulator | VH | -1.013 | 0.692 | 1.024 | 1.096 | -1.124 | 0.735 |
| gi_164448722_ref_NM_001046485.2 | 540632 | TARDBP | TAR DNA binding protein | Nucleus | transcription regulator | VH | -1.007 | 0.661 | 1.043 | 1.153 | 1.038 | 1.219 |
| gi_156120468_ref_NM_001101910.1 | 509111 | TP53BP1 | tumor protein p53 binding protein 1 | Nucleus | transcription regulator | H | 1.001 | 0.560 | 1.576 | 0.500 | 1.755 | 0.358 |
| gi_119913817_ref_XM_875451.2 | 518504 | SIN3A | SIN3 homolog A, transcription regulator (yeast) | Nucleus | transcription regulator | VH | 1.002 | 0.658 | 1.044 | 1.153 | 1.178 | 1.334 |
| gi_114051553_ref_NM_001046065.1 | 510921 | GTF2E2 | general transcription factor (IE, polypeptide 2, beta 34k | Nucleus | transcription regulator | VH | 1.006 | 0.663 | -1.107 | 0.814 | -1.297 | 0.264 |
| gi_155372150_ref_NM_001101215.1 | 540757 | TFAP4 | transcription factor AP-4 (activating enhancer binding p | Nucleus | transcription regulator | H | 1.007 | 0.650 | -1.461 | 0.567 | -1.291 | 0.207 |
| gi_119906615_ref_XM_617828.3 | 537652 | TRPS1 | trichorhinophalangeal syndrome 1 | Nucleus | transcription regulator | H | 1.008 | 0.635 | 1.513 | 0.643 | 1.674 | 0.495 |
| gi_119901460_ref_XM_618496.3 | 538296 | BACH2 (includes | BTB and CNC homology 1, basic leucine zipper transc | Nucleus | transcription regulator | H | 1.009 | 0.529 | 1.411 | 0.759 | 2.688 | 0.012 |
| gi_158508565_ref_NM_001110004.1 | 511826 | HUWE1 | HECT, UBA and WWV domain containing 1 | Nucleus | transcription regulator | VH | 1.009 | 0.616 | -1.003 | 1.021 | 1.243 | 1.341 |
| gi_115496707_ref_NM_001076363.1 | 615199 | UBA52 | ubiquitin A-52 residue ribosomal protein fusion product | Cytoplasm | transcription regulator | VH | 1.010 | 0.605 | -1.035 | 0.966 | 1.015 | 1.157 |
| gi_114050926_ref_NM_001046126.1 | 512648 | ELL3 | elongation factor RNA polymerase II-like 3 | Nucleus | transcription regulator | H | 1.011 | 0.595 | 1.113 | 1.219 | 1.462 | 0.939 |
| gi_114052003_ref_NM_001046389.1 | 534894 | PQBP1 | polyglutamine binding protein 1 | Nucleus | transcription regulator | H | 1.011 | 0.612 | -1.106 | 0.816 | 1.000 | 1.120 |
| gi_119919219_ref_XM_001256021.1 | 789199 | NFRKB | nuclear factor related to kappaB binding protein | Nucleus | transcription regulator | H | 1.013 | 0.616 | -1.654 | 0.012 | -1.155 | 0.630 |
| gi_119900354_ref_XM_618263.3 | 538070 | RFX3 | regulatory factor X, 3 (influences HLA class II expressio | Nucleus | transcription regulator | H | 1.014 | 0.583 | 1.361 | 1.029 | 1.040 | 1.210 |
| gi_62460491_ref_NM_001014901.1 | 511512 | RBM14 | RNA binding motif protein 14 | Nucleus | transcription regulator | VH | 1.014 | 0.603 | -1.145 | 0.649 | -1.071 | 0.904 |
| gi_118151327_ref_NM_001078131.1 | 768316 | NRBF2 | nuclear receptor binding factor 2 | Nucleus | transcription regulator | H | 1.019 | 0.589 | -1.097 | 0.774 | -1.429 | 0.082 |
| gi_77735636_ref_NM_001034342.1 | 509107 | ATF4 | activating transcription factor 4 (tax-responsive enhanc | Nucleus | transcription regulator | VH | 1.019 | 0.572 | -1.307 | 0.203 | -1.117 | 0.775 |
| gi_116004076_ref_NM_001076927.1 | 540802 | ASB3 | ankyrin repeat and SOCS box-containing 3 | Nucleus | transcription regulator | VH | 1.020 | 0.536 | 1.392 | 0.989 | 1.157 | 1.326 |
| gi_114052532_ref_NM_001045899.1 | 504820 | BZLF1 | basic leucine zipper nuclear factor 1 | Cytoplasm | transcription regulator | VH | 1.023 | 0.597 | -1.050 | 0.983 | -1.099 | 0.844 |
| gi_77735898_ref_NM_001034474.1 | 514852 | TAX1BP3 | Tax1 (human T-cell leukemia virus type I) binding prote | Nucleus | transcription regulator | H | 1.025 | 0.514 | 1.373 | 0.953 | 1.532 | 0.750 |
| gi_114051260_ref_NM_001046617.1 | 618296 | POLR3K | polymerase (RNA) III (DNA directed) polypeptide K, 12 | Nucleus | transcription regulator | H | 1.027 | 0.551 | -1.520 | 0.028 | -1.593 | 0.018 |
| gi_119895680_ref_XM_869095.2 | 540964 | TCERG1 | transcription elongation regulator 1 | Nucleus | transcription regulator | VH | 1.027 | 0.559 | -1.104 | 0.780 | -1.106 | 0.813 |
| gi_155372072_ref_NM_001101173.1 | 538086 | CAND1 | cullin-associated and neddylation-dissociated 1 | Cytoplasm | transcription regulator | VH | 1.028 | 0.518 | 1.047 | 1.143 | -1.269 | 0.304 |
| gi_119894811_ref_NM_881853.2 | 532791 | KEAP1 | kelch-like ECH-associated protein 1 | Cytoplasm | transcription regulator | VH | 1.028 | 0.573 | -1.685 | 0.006 | -1.150 | 0.687 |
| gi_119920299_ref_XM_001254442.1 | 786886 | ELK1 | ELK1, member of ETS oncogene family | Nucleus | transcription regulator | H | 1.029 | 0.539 | -1.030 | 1.012 | 1.119 | 1.314 |
| gi_82697312_ref_NM_001037444.1 | 404126 | HDAC1 | histone deacetylase 1 | Nucleus | transcription regulator | VH | 1.029 | 0.535 | 1.142 | 1.239 | 1.166 | 1.331 |
| gi_119911640_ref_XM_583607.3 | 507057 | PHF12 | PHD finger protein 12 | Nucleus | transcription regulator | VH | 1.029 | 0.518 | -1.185 | 0.522 | 1.110 | 1.280 |
| gi_119912534_ref_XM_001256027.1 | 789613 | SMARCD2 | SWI/SNF related, matrix associated, actin dependent n | Nucleus | transcription regulator | VH | 1.030 | 0.565 | 1.001 | 1.067 | -1.083 | 0.872 |
| gi_66792821_ref_NM_001024517.1 | 511446 | CXXC1 | CXXC finger 1 (PHD domain) | Nucleus | transcription regulator | VH | 1.031 | 0.515 | -1.020 | 0.995 | 1.154 | 1.326 |
| gi_119923597_ref_XM_001250681.1 | 784388 | RPL7 | ribosomal protein L7 | Cytoplasm | transcription regulator | VH | 1.035 | 0.526 | -1.033 | 1.013 | 1.091 | 1.299 |
| gi_87196500_ref_NM_174049.2 | 281141 | ENO1 | enolase 1, (alpha) | Cytoplasm | transcription regulator | VH | 1.036 | 0.552 | -1.084 | 0.883 | -1.094 | 0.882 |
| gi_119893132_ref_XM_001249704.1 | 513643 | FOXM1 | forkhead box M1 | Nucleus | transcription regulator | VH | 1.037 | 0.543 | -1.105 | 0.723 | 1.055 | 1.225 |
| gi_77735836_ref_NM_001034441.1 | 513315 | PSMD9 | proteasome (prosome, macropain) 26S subunit, non-A' | Cytoplasm | transcription regulator | VH | 1.038 | 0.514 | -1.146 | 0.654 | -1.151 | 0.637 |
| gi_156121000_ref_NM_001102177.1 | 534669 | GTF2I | general transcription factor Iii | Nucleus | transcription regulator | VH | 1.044 | 0.518 | 1.458 | 0.810 | 1.449 | 0.952 |
| gi_115495344_ref_NM_001075799.1 | 520111 | TRIM27 | tripartite motif-containing 27 | Nucleus | transcription regulator | VH | 1.051 | 0.493 | -1.058 | 0.964 | -1.047 | 1.023 |
| gi_88319934_ref_NM_174815.2 | 287023 | YBX1 | Y box binding protein 1 | Nucleus | transcription regulator | VH | 1.056 | 0.468 | -1.002 | 1.079 | -1.134 | 0.733 |
| gi_136256478_ref_NM_001077899.2 | 510807 | NFE2L3 | nuclear factor (erythroid-derived 2)-like 3 | Nucleus | transcription regulator | H | 1.063 | 0.420 | 1.419 | 0.901 | 1.333 | 1.226 |
| gi_119889268_ref_XM_581262.3 | 505039 | GATAD2B | GATA zinc finger domain containing 2B | Nucleus | transcription regulator | VH | 1.065 | 0.438 | -1.577 | 0.018 | -1.082 | 0.882 |
| gi_119901159_ref_XM_581531.3 | 538619 | HEY2 | hairy/enhancer-of-split related with YRPW motif 2 | Nucleus | transcription regulator | H | 1.067 | 0.402 | 1.142 | 1.215 | -1.125 | 0.745 |
| gi_119924677_ref_XM_588862.3 | 511514 | HIRA | HIR histone cell cycle regulation defective homolog A (i | Nucleus | transcription regulator | H | 1.069 | 0.387 | -1.858 | 0.001 | -1.220 | 0.406 |
| gi_119889130_ref_XM_588564.3 | 511264 | SKP1 | S-phase kinase-associated protein 1 | Nucleus | transcription regulator | VH | 1.069 | 0.407 | 1.058 | 1.163 | -1.073 | 0.908 |
| gi_78369329_ref_NM_001035467.1 | 615692 | SAP18 | Sin3A-associated protein, 18kDa | Nucleus | transcription regulator | VH | 1.072 | 0.418 | -1.253 | 0.354 | -1.225 | 0.449 |
| gi_156121016_ref_NM_001102185.1 | 535312 | PIAS3 | protein inhibitor of activated STAT, 3 | Nucleus | transcription regulator | H | 1.074 | 0.396 | 1.112 | 1.216 | 1.411 | 1.036 |
| gi_62751724_ref_NM_001015658.1 | 534883 | VPS72 | vacuolar protein sorting 72 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | 1.077 | 0.395 | 1.131 | 1.243 | 1.162 | 1.330 |
| gi_119887246_ref_XM_584216.3 | 507577 | EAF1 | ELL associated factor 1 | Nucleus | transcription regulator | H | 1.078 | 0.407 | -1.728 | 0.006 | -1.358 | 0.163 |
| gi_114052838_ref_NM_001046226.1 | 516550 | FEM1A | fem-1 homolog a (C. elegans) | Nucleus | transcription regulator | H | 1.078 | 0.394 | -1.130 | 0.703 | -1.251 | 0.350 |
| gi_119915248_ref_XM_871526.2 | 522029 | RPL7L1 | ribosomal protein L7-like 1 | Cytoplasm | transcription regulator | VH | 1.078 | 0.392 | -1.117 | 0.761 | -1.276 | 0.311 |
| gi_84992998_ref_NM_001034310.2 | 508043 | PTTG1 | pituitary tumor-transforming 1 | Nucleus | transcription regulator | VH | 1.079 | 0.387 | -1.133 | 0.679 | -1.270 | 0.319 |
| gi_119919944_ref_XM_590515.3 | 512908 | HCF1 | host cell factor C1 (VP16-accessory protein) | Nucleus | transcription regulator | VH | 1.080 | 0.368 | -3.954 | 0.000 | 1.023 | 1.154 |
| gi_119915977_ref_XM_588519.3 | 511224 | NFATC1 | nuclear factor of activated T-cells, cytoplasmic, calcine | Nucleus | transcription regulator | H | 1.080 | 0.370 | 1.458 | 0.714 | 2.414 | 0.031 |
| gi_114051440_ref_NM_001046614.1 | 618141 | ZNF3 | zinc finger protein 3 | Nucleus | transcription regulator | VH | 1.084 | 0.365 | 1.004 | 1.085 | 1.111 | 1.316 |
| gi_119906488_ref_XM_583747.3 | 507179 | COP5 | COP9 constitutive photomorphogenic homolog subunit | Nucleus | transcription regulator | VH | 1.087 | 0.364 | -1.112 | 0.752 | -1.516 | 0.460 |
| gi_78369417_ref_NM_001035417.1 | 537706 | THOC4 | THO complex 4 | Nucleus | transcription regulator | VH | 1.089 | 0.348 | -1.491 | 0.036 | -1.713 | 0.007 |
| gi_77736184_ref_NM_001034619.1 | 534898 | ANKRD46 | ankyrin repeat domain 46 | Nucleus | transcription regulator | H | 1.090 | 0.354 | 1.370 | 1.020 | 1.217 | 1.343 |
| gi_115496725_ref_NM_001076029.1 | 534579 | TFDP1 | transcription factor Dp-1 | Nucleus | transcription regulator | VH | 1.091 | 0.358 | -1.307 | 0.225 | -1.461 | 0.062 |
| gi_62751822_ref_NM_001015575.1 | 511571 | RNF25 | ring finger protein 25 | Nucleus | transcription regulator | H | 1.092 | 0.341 | -1.229 | 0.349 | -1.113 | 0.762 |
| gi_77735524_ref_NM_001034286.1 | 507245 | ECSIT | ECSIT homolog (Drosophila) | Nucleus | transcription regulator | H | 1.094 | 0.355 | -1.528 | 0.025 | -1.879 | 0.002 |
| gi_115495422_ref_NM_001075146.1 | 407223 | HDAC2 | histone deacetylase 2 | Nucleus | transcription regulator | VH | 1.094 | 0.360 | 1.120 | 1.237 | -1.133 | 0.730 |
| gi_75832050_ref_NM_173999.2 | 281032 | BTG1 | B-cell translocation gene 1, anti-proliferative | Nucleus | transcription regulator | VH | 1.096 | 0.320 | -1.595 | 0.011 | -1.649 | 0.012 |
| gi_82697392_ref_NM_001037482.1 | 540069 | CIAO1 | cytosolic iron-sulfur protein assembly 1 homolog (S. ce | Nucleus | transcription regulator | H | 1.100 | 0.332 | -1.103 | 0.802 | -1.181 | 0.546 |
| gi_115497993_ref_NM_001076468.1 | 617553 | BAT4 | HLA-B associated transcription 4 | Nucleus | transcription regulator | VH | 1.100 | 0.342 | -1.076 | 0.888 | -1.186 | 0.532 |
| gi_115496174_ref_NM_001076523.1 | 618849 | HMG1A | high mobility group AT-hook 1 | Nucleus | transcription regulator | VH | 1.102 | 0.304 | -1.148 | 0.597 | -1.291 | 0.257 |
| gi_119893304_ref_XM_583656.3 | 507102 | SREBF2 | sterol regulatory element binding transcription factor 2 | Nucleus | transcription regulator | VH | 1.104 | 0.325 | -2.539 | 0.000 | 1.113 | 1.299 |
| gi_114052790_ref_NM_001046289.1 | 528003 | ANKRA2 | ankyrin repeat, family A (RFXANK-like), 2 | Cytoplasm | transcription regulator | VH | 1.104 | 0.309 | 1.074 | 1.169 | -1.341 | 0.174 |
| gi_119884987_ref_XM_588490.3 | 539633 | HLTF | helicase-like transcription factor | Nucleus | transcription regulator | VH | 1.104 | 0.317 | -1.007 | 1.047 | -1.221 | 0.423 |
| gi_77736278_ref_NM_001034667.1 | 539223 | LASS2 | LAG1 homolog, ceramide synthase 2 | Nucleus | transcription regulator | VH | 1.104 | 0.333 | 1.027 | 1.149 | -1.039 | 1.047 |
| gi_118151295_ref_NM_001078114.1 | 768240 | HOXB4 | homeobox B4 | Nucleus | transcription regulator | H | 1.105 | 0.319 | -1.136 | 0.691 | -1.178 | 0.563 |
| gi_115496355_ref_NM_001076329.1 | 614472 | POLR2I | polymerase (RNA) II (DNA directed) polypeptide I, 14.5 | Nucleus | transcription regulator | H | 1.105 | 0.310 | -1.253 | 0.314 | -1.912 | 0.002 |
| gi_114050962_ref_NM_001046481.1 | 540558 | MBD1 | methyl-CpG binding domain protein 1 | Nucleus | transcription regulator | H | 1.106 | 0.320 | -1.440 | 0.064 | -1.099 | 0.775 |
| gi_77735922_ref_NM_001034486.1 | 515299 | MED4 | mediator complex subunit 4 | Nucleus | transcription regulator | H | 1.107 | 0.312 | 1.006 | 1.075 | -1.200 | 0.468 |
| gi_118150887_ref_NM_001077888.1 | 509238 | TAF1C | TATA box binding protein (TBP)-associated factor, RNA | Nucleus | transcription regulator | H | 1.109 | 0.317 | -1.826 | 0.006 | -1.163 | 0.624 |
| gi_115497247_ref_NM_001076079.1 | 536696 | YAF2 | YY1 associated factor 2 | Nucleus | transcription regulator | H | 1.109 | 0.315 | -1.190 | 0.524 | -1.253 | 0.359 |

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|---------------------------------|-----------|-------------------|---|-----------|-------------------------|----|-------|-------|--------|-------|--------|-------|
| gi_119911525_ref_XM_001252957.1 | 786013 | AATF | apoptosis antagonizing transcription factor | Nucleus | transcription regulator | VH | 1.110 | 0.323 | -1.153 | 0.661 | -1.451 | 0.073 |
| gi_73853780_ref_NM_001029845.2 | 516979 | IRF3 | interferon regulatory factor 3 | Nucleus | transcription regulator | VH | 1.110 | 0.315 | 1.086 | 1.203 | 1.213 | 1.341 |
| gi_119908788_ref_XM_6124033 | 540633 | KDM5B | lysine (K)-specific demethylase 5B | Nucleus | transcription regulator | VH | 1.110 | 0.316 | 1.165 | 1.248 | 1.227 | 1.344 |
| gi_119890708_ref_XM_581455.3 | 505204 | ANKIB1 | ankyrin repeat and IBR domain containing 1 | Nucleus | transcription regulator | H | 1.111 | 0.309 | 1.085 | 1.183 | 1.013 | 1.143 |
| gi_119912680_ref_XM_583104.3 | 506628 | CBX2 | chromobox homolog 2 (Pc class homolog, Drosophila) | Nucleus | transcription regulator | H | 1.116 | 0.301 | -2.465 | 0.000 | -1.688 | 0.008 |
| gi_119887162_ref_XM_596225.3 | 518043 | DIP2A | DIP2 disco-interacting protein 2 homolog A (Drosophila) | Nucleus | transcription regulator | H | 1.120 | 0.291 | -1.072 | 0.804 | 1.253 | 1.342 |
| gi_119331215_ref_NM_001079788.1 | 615512 | CNCH | cyclin H | Nucleus | transcription regulator | H | 1.121 | 0.279 | 1.103 | 1.203 | 1.254 | 0.326 |
| gi_77735576_ref_NM_001034312.1 | 508055 | CNOT7 | CCR4-NOT transcription complex, subunit 7 | Nucleus | transcription regulator | VH | 1.121 | 0.280 | 1.036 | 1.141 | -1.077 | 0.917 |
| gi_114051078_ref_NM_001046218.1 | 516010 | SMAD2 | SMAD family member 2 | Nucleus | transcription regulator | VH | 1.125 | 0.278 | 1.115 | 1.235 | 1.092 | 1.272 |
| gi_119919717_ref_XM_580654.3 | 504514 | ELF4 | E74-like factor 4 (ets domain transcription factor) | Nucleus | transcription regulator | VH | 1.127 | 0.272 | -1.113 | 0.628 | 1.103 | 1.298 |
| gi_115495532_ref_NM_001075161.1 | 504400 | RBCK1 | RanBP-type and C3HC4-type zinc finger containing 1 | Cytoplasm | transcription regulator | H | 1.128 | 0.275 | -1.003 | 1.052 | 1.493 | 0.857 |
| gi_119906545_ref_XM_584905.3 | 508162 | NCOA2 | nuclear receptor coactivator 2 | Nucleus | transcription regulator | VH | 1.128 | 0.274 | -1.226 | 0.365 | 1.197 | 1.338 |
| gi_115497589_ref_NM_001076137.1 | 538961 | ANKRD54 | ankyrin repeat domain 54 | Nucleus | transcription regulator | H | 1.130 | 0.278 | -1.138 | 0.703 | -1.202 | 0.511 |
| gi_156523141_ref_NM_001102515.1 | 534582 | NFE2L1 | nuclear factor (erythroid-derived 2)-like 1 | Nucleus | transcription regulator | VH | 1.130 | 0.258 | -1.140 | 0.603 | 1.092 | 1.269 |
| gi_157427957_ref_NM_001105416.1 | 537503 | SMARCA5 | SWI/SNF related, matrix associated, actin dependent n | Nucleus | transcription regulator | VH | 1.130 | 0.265 | -1.140 | 0.674 | -1.138 | 0.695 |
| gi_47564069_ref_NM_001001162.1 | 407240 | USF2 | upstream transcription factor 2, c-fos interacting | Nucleus | transcription regulator | VH | 1.131 | 0.278 | 1.131 | 1.243 | 1.078 | 1.287 |
| gi_119917224_ref_XM_583735.3 | 507169 | TRRAP | transformation/transcription domain-associated protein | Nucleus | transcription regulator | H | 1.135 | 0.261 | -1.879 | 0.004 | 1.091 | 1.287 |
| gi_119893060_ref_XM_612715.3 | 540703 | FOXJ2 | forkhead box J2 | Nucleus | transcription regulator | VH | 1.136 | 0.251 | 1.224 | 1.254 | 1.204 | 1.343 |
| gi_119915805_ref_XM_614932.3 | 541184 | E2F3 | E2F transcription factor 3 | Nucleus | transcription regulator | H | 1.147 | 0.155 | -1.192 | 0.276 | -1.504 | 0.041 |
| gi_119895278_ref_XM_604851.2 | 526480 | ZNF496 | zinc finger protein 496 | Nucleus | transcription regulator | H | 1.147 | 0.235 | -1.322 | 0.159 | -1.150 | 0.641 |
| gi_114051222_ref_NM_001046198.1 | 515363 | PHB2 | phosphatidylethanolamine binding protein 2 | Cytoplasm | transcription regulator | VH | 1.149 | 0.233 | -1.404 | 0.087 | -1.303 | 0.252 |
| gi_119919137_ref_XM_879600.2 | 531109 | TAF6L | TAF6-like RNA polymerase II, 300/CBP-associated fa | Nucleus | transcription regulator | H | 1.152 | 0.227 | -1.111 | 0.732 | -1.041 | 0.997 |
| gi_77736342_ref_NM_001034699.1 | 540272 | PA2G4 | proliferation-associated 2G4, 38kDa | Nucleus | transcription regulator | VH | 1.153 | 0.226 | -1.099 | 0.843 | -1.250 | 0.387 |
| gi_84000346_ref_NM_001038187.1 | 539760 | ILF2 (includes EG | interleukin enhancer binding factor 2, 45kDa | Nucleus | transcription regulator | VH | 1.156 | 0.211 | -1.242 | 0.353 | -1.372 | 0.147 |
| gi_84370076_ref_NM_001038526.1 | 511048 | RUVBL2 | RuvB-like 2 (E. coli) | Nucleus | transcription regulator | VH | 1.156 | 0.221 | -1.394 | 0.102 | -1.476 | 0.057 |
| gi_148224063_ref_NM_001098081.1 | 534353 | YY1 | YY1 transcription factor | Nucleus | transcription regulator | H | 1.161 | 0.210 | -1.243 | 0.370 | 1.050 | 1.231 |
| gi_119895592_ref_XM_868478.2 | 404125 | HDAC3 | histone deacetylase 3 | Nucleus | transcription regulator | VH | 1.166 | 0.206 | -1.064 | 0.913 | -1.158 | 0.625 |
| gi_119921496_ref_XM_587845.3 | 510673 | PTTG1 | pituitary tumor-transforming 1 | Nucleus | transcription regulator | VH | 1.168 | 0.194 | -1.207 | 0.448 | -1.388 | 0.121 |
| gi_114051408_ref_NM_001046142.1 | 513231 | GTF2B | general transcription factor IIB | Nucleus | transcription regulator | VH | 1.171 | 0.193 | 1.066 | 1.170 | -1.002 | 1.096 |
| gi_156120816_ref_NM_001102085.1 | 524920 | MYEF2 | myelin expression factor 2 | Nucleus | transcription regulator | VH | 1.183 | 0.175 | -1.586 | 0.014 | -1.436 | 0.084 |
| gi_115496233_ref_NM_001075742.1 | 516578 | TBP | TATA box binding protein | Nucleus | transcription regulator | VH | 1.186 | 0.173 | -1.040 | 1.001 | -1.207 | 0.486 |
| gi_119894521_ref_XM_866768.2 | 510465 | CRTC1 | CREB regulated transcription coactivator 1 | Nucleus | transcription regulator | H | 1.187 | 0.180 | 1.113 | 1.217 | 1.451 | 0.938 |
| gi_119904185_ref_XM_586742.3 | 509719 | ASB6 | ankyrin repeat and SOCS box-containing 6 | Nucleus | transcription regulator | H | 1.188 | 0.172 | -1.884 | 0.000 | -2.102 | 0.000 |
| gi_77735588_ref_NM_001034318.1 | 508312 | SFRS2 | splicing factor, arginine/serine-rich 2 | Nucleus | transcription regulator | VH | 1.188 | 0.156 | -1.271 | 0.268 | -1.247 | 0.364 |
| gi_123959763_ref_NM_001080735.1 | 531369 | TTF2 | transcription termination factor, RNA polymerase II | Nucleus | transcription regulator | VH | 1.189 | 0.167 | 1.138 | 1.247 | -1.092 | 0.883 |
| gi_126723003_ref_NM_001082454.1 | 540641 | CCRN4L | CCR4 carbon catabolite repression 4-like (S. cerevisiae) | Nucleus | transcription regulator | H | 1.190 | 0.170 | -1.669 | 0.006 | -1.847 | 0.002 |
| gi_119894329_ref_XM_866758.2 | 615059 | HTT | huntingtin | Cytoplasm | transcription regulator | H | 1.191 | 0.168 | -1.673 | 0.009 | -1.157 | 0.608 |
| gi_157074101_ref_NM_001103293.1 | 540294 | MED20 | mediator complex subunit 20 | Nucleus | transcription regulator | H | 1.191 | 0.167 | -1.142 | 0.674 | -1.192 | 0.534 |
| gi_119889053_ref_XM_863928.2 | 506759 | IFI16 | interferon, gamma-inducible protein 16 | Nucleus | transcription regulator | VH | 1.191 | 0.164 | 1.795 | 0.194 | 2.037 | 0.129 |
| gi_114052195_ref_NM_001046364.1 | 533977 | BUD31 (includes | BUD31 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | 1.197 | 0.160 | -1.169 | 0.589 | -1.371 | 0.145 |
| gi_114052215_ref_NM_001046362.1 | 533951 | PLRG1 | pleiotropic regulator 1 (PRL1 homolog, Arabidopsis) | Nucleus | transcription regulator | VH | 1.201 | 0.156 | -1.079 | 0.897 | -1.243 | 0.381 |
| gi_119906375_ref_XM_592984.3 | 515040 | ZHX2 | zinc fingers and homeoboxes 2 | Nucleus | transcription regulator | H | 1.204 | 0.145 | 1.012 | 0.972 | 1.363 | 1.114 |
| gi_115497369_ref_NM_001075155.1 | 504336 | DAXX | death-domain associated protein | Nucleus | transcription regulator | VH | 1.210 | 0.145 | -1.216 | 0.408 | -1.341 | 0.189 |
| gi_118151325_ref_NM_001078128.1 | 768313 | SOX4 | SRY (sex determining region Y)-box 4 | Nucleus | transcription regulator | VH | 1.214 | 0.145 | -2.428 | 0.000 | -1.245 | 0.345 |
| gi_115496557_ref_NM_001075712.1 | 515389 | MTA2 | metastasis associated 1 family, member 2 | Nucleus | transcription regulator | VH | 1.218 | 0.132 | -1.116 | 0.743 | -1.191 | 0.528 |
| gi_155371882_ref_NM_001101076.1 | 511475 | RUVBL1 | RuvB-like 1 (E. coli) | Nucleus | transcription regulator | VH | 1.218 | 0.131 | -1.468 | 0.050 | -1.936 | 0.001 |
| gi_62460609_ref_NM_001014956.1 | 539584 | NFYA | nuclear transcription factor Y, alpha | Nucleus | transcription regulator | H | 1.220 | 0.136 | -1.119 | 0.753 | -1.064 | 0.932 |
| gi_114052566_ref_NM_001045897.1 | 504755 | NAB2 | NGFI-A binding protein 2 (EGR1 binding protein 2) | Nucleus | transcription regulator | H | 1.224 | 0.131 | -1.953 | 0.000 | -1.162 | 0.583 |
| gi_147904941_ref_NM_001101678.2 | 497024 | NFE2L2 | nuclear factor (erythroid-derived 2)-like 2 | Nucleus | transcription regulator | H | 1.227 | 0.119 | 1.329 | 1.158 | 1.853 | 0.261 |
| gi_157074203_ref_NM_001103347.1 | 100125315 | TEAD2 | TEA domain family member 2 | Nucleus | transcription regulator | H | 1.230 | 0.123 | -1.044 | 0.956 | 1.193 | 1.341 |
| gi_116003842_ref_NM_001076809.1 | 506235 | HSF1 | heat shock transcription factor 1 | Nucleus | transcription regulator | VH | 1.231 | 0.119 | -1.555 | 0.021 | -1.330 | 0.187 |
| gi_62752036_ref_NM_001015525.1 | 505638 | TAF6 | TAF6 RNA polymerase II, TATA box binding protein (TE | Nucleus | transcription regulator | VH | 1.232 | 0.119 | -1.088 | 0.856 | 1.052 | 1.250 |
| gi_157074103_ref_NM_001103294.1 | 540525 | GTF2E1 | general transcription factor IIE, polypeptide 1, alpha 56 | Nucleus | transcription regulator | H | 1.233 | 0.117 | -1.102 | 0.835 | -1.657 | 0.011 |
| gi_118601827_ref_NM_001079618.1 | 613879 | MED30 | mediator complex subunit 30 | Nucleus | transcription regulator | H | 1.234 | 0.110 | -1.570 | 0.015 | -1.943 | 0.001 |
| gi_119912413_ref_XM_601299.3 | 497012 | UBTF | upstream binding transcription factor, RNA polymerase | Nucleus | transcription regulator | VH | 1.234 | 0.110 | 1.152 | 1.246 | 1.213 | 1.343 |
| gi_77735432_ref_NM_001034237.1 | 505293 | MED6 | mediator complex subunit 6 | Nucleus | transcription regulator | H | 1.237 | 0.110 | -1.048 | 0.961 | -1.207 | 0.490 |
| gi_66792729_ref_NM_001024506.1 | 509855 | IRF9 | interferon regulatory factor 9 | Nucleus | transcription regulator | H | 1.238 | 0.108 | 1.527 | 0.589 | 2.828 | 0.008 |
| gi_126723253_ref_NM_001080242.2 | 508233 | RELA | v-rel reticuloendotheliosis viral oncogene homolog A (a | Nucleus | transcription regulator | H | 1.242 | 0.109 | -1.327 | 0.188 | -1.235 | 0.371 |
| gi_134085614_ref_NM_001083439.1 | 519808 | SUPT5H | suppressor of Ty 5 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | 1.246 | 0.097 | -1.279 | 0.289 | -1.186 | 0.547 |
| gi_119920138_ref_XM_001249858.1 | 767875 | HMG5 | high-mobility group nucleosome binding domain 5 | Nucleus | transcription regulator | H | 1.256 | 0.092 | -1.056 | 0.890 | -1.528 | 0.034 |
| gi_115497273_ref_NM_001075868.1 | 525329 | NCOA4 | nuclear receptor coactivator 4 | Nucleus | transcription regulator | VH | 1.266 | 0.082 | 1.066 | 1.178 | -1.093 | 0.848 |
| gi_114052005_ref_NM_001046150.1 | 513510 | GTF2H1 | general transcription factor IIH, polypeptide 1, 62kDa | Nucleus | transcription regulator | VH | 1.267 | 0.083 | -1.095 | 0.820 | -1.225 | 0.409 |
| gi_118601765_ref_NM_001079589.1 | 511896 | GTF2H3 | general transcription factor IIH, polypeptide 3, 34kDa | Nucleus | transcription regulator | VH | 1.267 | 0.083 | -1.182 | 0.538 | -1.372 | 0.143 |
| gi_119914213_ref_XM_870485.2 | 618161 | BRF1 | BRF1 homolog, subunit of RNA polymerase III transcripti | Nucleus | transcription regulator | H | 1.276 | 0.082 | -1.480 | 0.045 | 1.042 | 1.181 |
| gi_110626168_ref_NM_176641.1 | 338045 | SQSTM1 | sequestosome 1 | Cytoplasm | transcription regulator | VH | 1.277 | 0.079 | 1.197 | 1.258 | 1.275 | 1.326 |
| gi_139947539_ref_NM_001083683.1 | 513928 | ATF6B | activating transcription factor 6 beta | Cytoplasm | transcription regulator | H | 1.287 | 0.075 | 1.058 | 1.174 | 1.029 | 1.198 |
| gi_115495660_ref_NM_001076161.1 | 539431 | MEN1 | multiple endocrine neoplasia 1 | Nucleus | transcription regulator | VH | 1.293 | 0.069 | -1.056 | 0.944 | -1.053 | 0.994 |
| gi_139949051_ref_NM_001083684.1 | 514216 | TCF19 | transcription factor 19 | Nucleus | transcription regulator | VH | 1.301 | 0.064 | -1.260 | 0.318 | -1.505 | 0.044 |
| gi_119918919_ref_XM_864789.2 | 514176 | ZDHHC13 | zinc finger, DHHC-type containing 13 | Nucleus | transcription regulator | H | 1.305 | 0.063 | 1.609 | 0.449 | 1.279 | 1.333 |
| gi_124430747_ref_NM_001075811.2 | 520800 | TFE3 | transcription factor binding to IGHM enhancer 3 | Nucleus | transcription regulator | VH | 1.306 | 0.061 | -1.100 | 0.843 | -1.113 | 0.802 |
| gi_119917078_ref_XM_583422.3 | 506908 | CLIP2 | CAP-GLY domain containing linker protein 2 | Cytoplasm | transcription regulator | H | 1.307 | 0.062 | -1.048 | 0.926 | 1.079 | 1.281 |
| gi_162287360_ref_NM_001012671.2 | 508541 | STAT3 | signal transducer and activator of transcription 3 (acute | Nucleus | transcription regulator | VH | 1.311 | 0.059 | -1.059 | 0.946 | 1.558 | 0.697 |
| gi_28372480_ref_NM_175712.1 | 281730 | CTBP2 | C-terminal binding protein 2 | Nucleus | transcription regulator | H | 1.313 | 0.058 | 1.005 | 1.092 | -1.067 | 0.935 |
| gi_93205067_ref_NM_001001161.2 | 407239 | USF1 | upstream transcription factor 1 | Nucleus | transcription regulator | VH | 1.314 | 0.060 | -1.874 | 0.001 | 1.204 | 1.340 |

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|-----------------------------------|-----------|---------------------|--|-----------------|-------------------------|----|-------|-------|--------|-------|--------|-------|
| gi_119915224_ref_XM_001250850.1 | 517805 | FOXP4 | forkhead box P4 | Nucleus | transcription regulator | H | 1.318 | 0.057 | -1.419 | 0.083 | -1.010 | 1.077 |
| gi_88319935_ref_NM_174617.3 | 282376 | STAT5B | signal transducer and activator of transcription 5B | Nucleus | transcription regulator | H | 1.318 | 0.054 | 1.062 | 1.166 | 1.292 | 1.301 |
| gi_119910262_ref_XM_612960.3 | 533526 | CNNE1 | cyclin E1 | Nucleus | transcription regulator | H | 1.319 | 0.053 | -1.166 | 0.535 | -1.875 | 0.002 |
| gi_114051811_ref_NM_00104647.1 | 536421 | CYLD | cylindromatosis (turban tumor syndrome) | Nucleus | transcription regulator | H | 1.322 | 0.054 | 1.302 | 1.193 | 1.326 | 1.233 |
| gi_115497533_ref_NM_001075873.1 | 525428 | E2F4 | E2F transcription factor 4, p107/p130-binding | Nucleus | transcription regulator | VH | 1.333 | 0.049 | -1.382 | 0.107 | -1.447 | 0.069 |
| gi_119910692_ref_XM_001256663.1 | 790100 | IRF2BP1 | interferon regulatory factor 2 binding protein 1 | Nucleus | transcription regulator | H | 1.334 | 0.053 | -2.899 | 0.000 | -1.059 | 0.926 |
| gi_6852489_gb_AW353499.1_AW353499 | 353105 | STAT6 | signal transducer and activator of transcription 6, interleukin 6 | Nucleus | transcription regulator | VH | 1.335 | 0.049 | -1.169 | 0.544 | 1.202 | 1.341 |
| gi_156121100_ref_NM_001102227.1 | 539120 | VEZF1 | vascular endothelial zinc finger 1 | Nucleus | transcription regulator | H | 1.339 | 0.045 | 1.126 | 1.237 | 1.181 | 1.339 |
| gi_119907798_ref_XM_585224.3 | 508448 | PSMC3 | proteasome (prosome, macropain) 26S subunit, ATPase | Nucleus | transcription regulator | VH | 1.339 | 0.048 | -1.324 | 0.194 | -1.507 | 0.043 |
| gi_119907105_ref_XM_585092.3 | 508330 | MLL | myeloid/lymphoid or mixed-lineage leukemia (trithorax) | Nucleus | transcription regulator | H | 1.343 | 0.044 | -1.283 | 0.072 | 1.289 | 1.321 |
| gi_157280010_ref_NM_001105051.1 | 100125778 | RING1 | ring finger protein 1 | Nucleus | transcription regulator | VH | 1.345 | 0.044 | -1.632 | 0.010 | -1.266 | 0.339 |
| gi_119915255_ref_XM_612306.3 | 533039 | SRF | serum response factor (c-fos serum response element) | Nucleus | transcription regulator | VH | 1.346 | 0.043 | -1.461 | 0.054 | -1.263 | 0.334 |
| gi_156120882_ref_NM_001102118.1 | 528433 | DDX20 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 | Nucleus | transcription regulator | VH | 1.349 | 0.041 | -1.069 | 0.905 | -1.154 | 0.659 |
| gi_119907824_ref_XM_583654.3 | 507100 | SPH1 | spleen focus forming virus (SFFV) proviral integration control element | Nucleus | transcription regulator | VH | 1.349 | 0.042 | 1.111 | 1.209 | 1.256 | 1.335 |
| gi_77736090_ref_NM_001034572.1 | 530409 | PHB (includes EGR3) | prohibitin | Nucleus | transcription regulator | VH | 1.350 | 0.041 | -1.498 | 0.030 | -1.757 | 0.005 |
| gi_134085849_ref_NM_001083382.1 | 507180 | PHF5A | PHD finger protein 5A | Nucleus | transcription regulator | VH | 1.352 | 0.041 | -1.605 | 0.012 | -1.945 | 0.001 |
| gi_119919541_ref_XM_586187.3 | 509260 | DAF1 | deformed epidermal autoregulatory factor 1 (Drosophila) | Nucleus | transcription regulator | H | 1.355 | 0.043 | -1.206 | 0.444 | -1.103 | 0.732 |
| gi_62751635_ref_NM_001015527.1 | 505702 | GTF2F1 | general transcription factor IIF, polypeptide 1, 74kDa | Nucleus | transcription regulator | VH | 1.355 | 0.040 | -1.424 | 0.071 | -1.553 | 0.025 |
| gi_115497343_ref_NM_001075627.1 | 513544 | SAP30BP | SAP30 binding protein | Nucleus | transcription regulator | VH | 1.360 | 0.039 | -1.219 | 0.296 | -1.442 | 0.072 |
| gi_154707855_ref_NM_001099177.1 | 618386 | TCF25 | transcription factor 25 (basic helix-loop-helix) | Nucleus | transcription regulator | VH | 1.365 | 0.037 | -1.075 | 0.865 | 1.026 | 1.193 |
| gi_164448549_ref_NM_001024497.2 | 507867 | ANKZF1 | ankyrin repeat and zinc finger domain containing 1 | Nucleus | transcription regulator | VH | 1.371 | 0.041 | -1.629 | 0.010 | -1.725 | 0.006 |
| gi_119904250_ref_XM_001251674.1 | 783869 | GTF3C5 | general transcription factor IIIC, polypeptide 5, 63kDa | Nucleus | transcription regulator | VH | 1.372 | 0.036 | -1.400 | 0.097 | -1.390 | 0.124 |
| gi_119879733_ref_XM_614853.3 | 541166 | ETV5 | ets variant 5 | Nucleus | transcription regulator | VH | 1.388 | 0.032 | -1.266 | 0.303 | -1.796 | 0.004 |
| gi_119884881_ref_XM_606317.3 | 527910 | SKIL | SKI-like oncogene | Nucleus | transcription regulator | H | 1.394 | 0.028 | 2.352 | 0.012 | 2.431 | 0.029 |
| gi_149642704_ref_NM_001099175.1 | 618232 | MED15 | mediator complex subunit 15 | Nucleus | transcription regulator | H | 1.398 | 0.028 | -1.943 | 0.000 | -1.368 | 0.143 |
| gi_77736577_ref_NM_001034800.1 | 617277 | TCEB2 | transcription elongation factor B (SIII), polypeptide 2 (1) | Nucleus | transcription regulator | VH | 1.401 | 0.031 | -1.468 | 0.048 | -1.421 | 0.090 |
| gi_119905767_ref_XM_606138.3 | 527740 | CBFA2T2 | core-binding factor, runt domain, alpha subunit 2; transcription factor 21 | Nucleus | transcription regulator | H | 1.402 | 0.032 | 1.114 | 1.186 | 1.269 | 1.330 |
| gi_62751533_ref_NM_001015625.1 | 520639 | CLPB | ClpB caseinolytic peptidase B homolog (E. coli) | Nucleus | transcription regulator | H | 1.405 | 0.030 | -1.429 | 0.064 | -1.847 | 0.003 |
| gi_11991147_ref_XM_609413.3 | 530932 | TCEB2 | transcription elongation factor B (SIII), polypeptide 2 (1) | Nucleus | transcription regulator | VH | 1.405 | 0.030 | -1.507 | 0.030 | -1.457 | 0.066 |
| gi_114052113_ref_NM_001046375.1 | 534228 | PRPF6 | PRP6 pre-mRNA processing factor 6 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | 1.415 | 0.026 | -1.062 | 0.902 | -1.072 | 0.915 |
| gi_119915359_ref_XM_583214.3 | 506727 | NFKBIE | nuclear factor of kappa light polypeptide gene enhancer 1, epsilon | Nucleus | transcription regulator | H | 1.419 | 0.028 | -1.186 | 0.464 | 1.002 | 1.105 |
| gi_119916184_ref_XM_596212.3 | 518030 | TAF4B | TAF4b RNA polymerase II, TATA box binding protein (TBP) | Nucleus | transcription regulator | H | 1.448 | 0.021 | -1.169 | 0.541 | -1.591 | 0.019 |
| gi_165905558_ref_NM_001046125.2 | 512562 | MAGED1 | melanoma antigen family D, 1 | Plasma Membrane | transcription regulator | VH | 1.452 | 0.018 | 1.158 | 1.252 | 1.181 | 1.341 |
| gi_115496443_ref_NM_001075346.1 | 508127 | DMAP1 | DNA methyltransferase 1 associated protein 1 | Nucleus | transcription regulator | VH | 1.458 | 0.018 | -1.353 | 0.145 | -1.244 | 0.351 |
| gi_119915909_ref_XM_865312.2 | 506141 | IRF4 | interferon regulatory factor 4 | Nucleus | transcription regulator | H | 1.470 | 0.018 | -1.848 | 0.001 | -2.502 | 0.000 |
| gi_119911595_ref_XM_868906.2 | 538671 | SUPT6H | suppressor of Ty 6 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | 1.504 | 0.013 | -1.338 | 0.165 | -1.077 | 0.908 |
| gi_164420754_ref_NM_001076875.2 | 525256 | PREB | prolactin regulatory element binding protein 2 | Nucleus | transcription regulator | H | 1.507 | 0.013 | -1.706 | 0.005 | -1.772 | 0.004 |
| gi_119911729_ref_XM_870907.2 | 618576 | MNT | MAX binding protein | Nucleus | transcription regulator | H | 1.509 | 0.013 | -2.683 | 0.000 | 1.009 | 1.092 |
| gi_115497653_ref_NM_001075240.1 | 506097 | NFIL3 | nuclear factor, interleukin 3 regulated | Nucleus | transcription regulator | H | 1.511 | 0.011 | 1.026 | 1.137 | -1.191 | 0.536 |
| gi_84370155_ref_NM_001038565.1 | 539291 | MYCBP | c-myc binding protein | Nucleus | transcription regulator | H | 1.513 | 0.012 | -1.597 | 0.013 | -2.021 | 0.000 |
| gi_125630716_ref_NM_001081542.1 | 541125 | ELK3 | ELK3, ETS-domain protein (SRF accessory protein 2) | Nucleus | transcription regulator | VH | 1.517 | 0.011 | -1.007 | 1.057 | -1.079 | 0.887 |
| gi_47564055_ref_NM_001001150.1 | 407219 | MITF | microphthalmia-associated transcription factor | Nucleus | transcription regulator | H | 1.532 | 0.010 | 1.643 | 0.373 | 1.919 | 0.196 |
| gi_114052756_ref_NM_001045875.1 | 407125 | EGR1 | early growth response 1 | Nucleus | transcription regulator | H | 1.533 | 0.010 | -1.221 | 1.400 | 1.800 | 0.314 |
| gi_84000132_ref_NM_001038072.1 | 510666 | BM11 | BM11 polycarb ring finger oncogene | Nucleus | transcription regulator | VH | 1.542 | 0.009 | 1.093 | 1.217 | -1.036 | 1.038 |
| gi_119894776_ref_XR_028159.1 | 784795 | CARM1 | coactivator-associated arginine methyltransferase 1 | Nucleus | transcription regulator | VH | 1.543 | 0.010 | -1.542 | 0.024 | -1.214 | 0.456 |
| gi_115497489_ref_NM_001075872.1 | 525408 | NFKBIB | nuclear factor of kappa light polypeptide gene enhancer 1, beta 1 | Nucleus | transcription regulator | H | 1.545 | 0.008 | -1.911 | 0.000 | -2.075 | 0.000 |
| gi_119894953_ref_XM_001255535.1 | 788491 | ZBTB7A | zinc finger and BTB domain containing 7A | Nucleus | transcription regulator | H | 1.550 | 0.010 | -2.271 | 0.000 | -1.444 | 0.073 |
| gi_78042545_ref_NM_001035098.1 | 511280 | NMI | N-myc (and STAT) interactor | Cytoplasm | transcription regulator | H | 1.564 | 0.007 | 1.158 | 1.234 | -1.206 | 0.457 |
| gi_115495776_ref_NM_001075448.1 | 510420 | MYBL2 | v-myb myeloblastosis viral oncogene homolog (avian) | Nucleus | transcription regulator | VH | 1.567 | 0.008 | -1.877 | 0.000 | -2.078 | 0.000 |
| gi_119901277_ref_XM_615634.3 | 535530 | FOXO3 | forkhead box O3 | Nucleus | transcription regulator | VH | 1.571 | 0.007 | -1.003 | 0.925 | 1.823 | 0.287 |
| gi_78369189_ref_NM_001035349.1 | 524118 | ARID5A | AT rich interactive domain 5A (MRF1-like) | Nucleus | transcription regulator | H | 1.592 | 0.006 | -2.243 | 0.000 | -1.682 | 0.008 |
| gi_115497487_ref_NM_001076141.1 | 539003 | CTNNB1 | catenin (cadherin-associated protein), beta 1, 88kDa | Nucleus | transcription regulator | VH | 1.680 | 0.004 | 1.025 | 1.137 | -1.034 | 1.042 |
| gi_116004218_ref_NM_001077001.1 | 767928 | RBPJ | recombination signal binding protein for immunoglobulin | Nucleus | transcription regulator | VH | 1.689 | 0.004 | 1.042 | 1.151 | -1.195 | 0.527 |
| gi_119905866_ref_XM_615740.3 | 535632 | GTF2I | TGF-beta-induced factor homeobox 2 | Nucleus | transcription regulator | H | 1.704 | 0.004 | -1.476 | 0.045 | -1.058 | 0.891 |
| gi_119917017_ref_XM_877865.2 | 509874 | GTF3C1 | general transcription factor IIIC, polypeptide 1, alpha 2 | Nucleus | transcription regulator | H | 1.748 | 0.002 | -1.615 | 0.013 | -1.028 | 1.046 |
| gi_76611568_ref_XM_869196.1 | 617024 | E2F2 | E2F transcription factor 2 | Nucleus | transcription regulator | H | 1.780 | 0.002 | -2.427 | 0.000 | -2.359 | 0.000 |
| gi_190360732_ref_NM_001128499.1 | 510050 | TGIF1 | TGF-beta-induced factor homeobox 1 | Nucleus | transcription regulator | H | 1.793 | 0.002 | 1.089 | 1.179 | -1.444 | 0.070 |
| gi_118151389_ref_NM_001077900.1 | 510814 | STAT1 | signal transducer and activator of transcription 1, 91kD | Nucleus | transcription regulator | VH | 1.847 | 0.001 | 1.189 | 1.255 | 1.154 | 1.333 |
| gi_119889242_ref_XM_585895.3 | 509019 | ZBTB7B | zinc finger and BTB domain containing 7B | Nucleus | transcription regulator | H | 1.900 | 0.001 | -2.238 | 0.000 | 1.707 | 0.419 |
| gi_119904107_ref_XM_599033.3 | 493639 | PTGES2 | prostaglandin H synthase 2 | Cytoplasm | transcription regulator | H | 1.917 | 0.001 | -1.753 | 0.002 | -1.995 | 0.001 |
| gi_106880502_ref_NM_001034770.2 | 540605 | CREM | cAMP responsive element modulator | Nucleus | transcription regulator | H | 1.919 | 0.001 | -1.359 | 0.144 | -1.403 | 0.103 |
| gi_119911776_ref_XM_590665.3 | 513045 | MYBBP1A | MYB binding protein (P160) 1a | Nucleus | transcription regulator | VH | 1.927 | 0.001 | -2.545 | 0.000 | -2.738 | 0.000 |
| gi_154152114_ref_NM_001100336.1 | 510923 | TRIM25 | tripartite motif-containing 25 | Cytoplasm | transcription regulator | VH | 1.957 | 0.001 | -1.054 | 0.953 | 1.074 | 1.262 |
| gi_119893790_ref_XM_608827.3 | 530358 | KLF3 | Kruppel-like factor 3 (basic) | Nucleus | transcription regulator | H | 2.005 | 0.001 | 1.040 | 1.146 | 1.263 | 1.337 |
| gi_115497081_ref_NM_001075656.1 | 514246 | JUNB | jun B proto-oncogene | Nucleus | transcription regulator | H | 2.028 | 0.001 | -3.199 | 0.000 | -2.049 | 0.000 |
| gi_119916372_ref_XM_616030.3 | 535916 | SMAD7 | SMAD family member 7 | Nucleus | transcription regulator | H | 2.067 | 0.000 | 1.297 | 1.200 | 2.153 | 0.082 |
| gi_115497301_ref_NM_001076409.1 | 616115 | NFKB1 | nuclear factor of kappa light polypeptide gene enhancer 1, alpha | Nucleus | transcription regulator | VH | 2.141 | 0.000 | -1.398 | 0.093 | -1.145 | 0.698 |
| gi_60592797_ref_NM_001012673.1 | 282375 | STAT5A | signal transducer and activator of transcription 5A | Nucleus | transcription regulator | VH | 2.254 | 0.000 | -1.087 | 0.840 | 1.193 | 1.342 |
| gi_77735604_ref_NM_001034326.1 | 508638 | NOC2L | nucleolar complex associated 2 homolog (S. cerevisiae) | Nucleus | transcription regulator | VH | 2.327 | 0.000 | -1.498 | 0.032 | -1.790 | 0.004 |
| gi_77736398_ref_NM_001034727.1 | 541236 | XBP1 | X-box binding protein 1 | Nucleus | transcription regulator | H | 2.404 | 0.000 | -2.298 | 0.000 | -1.747 | 0.006 |
| gi_115495324_ref_NM_001075935.1 | 530610 | ATF6 | activating transcription factor 6 | Cytoplasm | transcription regulator | VH | 2.521 | 0.000 | -1.551 | 0.020 | -1.693 | 0.008 |
| gi_118601779_ref_NM_001079591.1 | 513983 | SCAND1 | SCAN domain containing 1 | Nucleus | transcription regulator | H | 2.563 | 0.000 | -1.869 | 0.000 | -2.168 | 0.000 |
| gi_164519007_ref_NM_001113302.1 | 539361 | SREBF1 | sterol regulatory element binding transcription factor 1 | Nucleus | transcription regulator | H | 2.595 | 0.000 | -7.844 | 0.000 | -2.673 | 0.000 |
| gi_77735420_ref_NM_001034231.1 | 505025 | ID2 | inhibitor of DNA binding 2, dominant negative helix-loop-helix | Nucleus | transcription regulator | VH | 2.939 | 0.000 | 1.192 | 1.252 | 1.082 | 1.282 |

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|----------------------------------|--------|---------|--|---------|-------------------------|----|--------|-------|--------|-------|--------|-------|
| gi_119900643_ref_XM_604596.3_ | 526233 | EGR3 | early growth response 3 | Nucleus | transcription regulator | H | 3.238 | 0.000 | -3.012 | 0.000 | -1.776 | 0.004 |
| gi_41386700_ref_NM_174726.1_ | 282713 | NFKBIZ | nuclear factor of kappa light polypeptide gene enhance | Nucleus | transcription regulator | H | 3.766 | 0.000 | 1.912 | 0.102 | 1.945 | 0.183 |
| gi_67972412_ref_NM_001024929.1_ | 506945 | BHLHE40 | basic helix-loop-helix family, member e40 | Nucleus | transcription regulator | VH | 3.779 | 0.000 | 1.098 | 1.217 | 1.019 | 1.188 |
| gi_110347584_ref_NM_182786.2_ | 280795 | FOS | FBJ murine osteosarcoma viral oncogene homolog | Nucleus | transcription regulator | H | 3.966 | 0.000 | -1.263 | 0.279 | -1.537 | 0.029 |
| gi_119901924_ref_XM_001251809.1_ | 515125 | SMAD3 | SMAD family member 3 | Nucleus | transcription regulator | H | 4.105 | 0.000 | 1.177 | 1.249 | 1.416 | 1.060 |
| gi_119901328_ref_XM_618588.3_ | 538384 | PRDM1 | PR domain containing 1, with ZNF domain | Nucleus | transcription regulator | H | 4.186 | 0.000 | -1.006 | 1.041 | 1.355 | 1.166 |
| gi_115495012_ref_NM_001075819.1_ | 521378 | CITED2 | Cbp/p300-interacting transactivator, with Glu/Asp-rich c | Nucleus | transcription regulator | H | 5.909 | 0.000 | -2.431 | 0.000 | -2.881 | 0.000 |
| gi_119888839_ref_XM_869638.2_ | 617389 | RUNX3 | runt-related transcription factor 3 | Nucleus | transcription regulator | H | 8.600 | 0.000 | -1.414 | 0.084 | 1.562 | 0.689 |
| gi_156120848_ref_NM_001102101.1_ | 526392 | NFKB2 | nuclear factor of kappa light polypeptide gene enhance | Nucleus | transcription regulator | H | 9.354 | 0.000 | -2.838 | 0.000 | -1.390 | 0.123 |
| gi_119903790_ref_XM_864138.2_ | 509889 | FOSL2 | FOS-like antigen 2 | Nucleus | transcription regulator | H | 12.227 | 0.000 | -1.035 | 0.922 | 1.401 | 1.087 |