

Supplementary Table I. List of 92 genes differentially expressed (from two microarrays) by at least 1.5-fold in R1881-stimulated REP cells versus vehicle control REP cells.

| Gene Symbol | Gene Name | REP (R1881 vs Control) | | Fold Change | P-value |
|---------------------|---|---------------------------------------|---------------------------|-------------|---------|
| | | Up- or down- regulated by R1881 | Comparison 1 Log ratio | | |
| MAGEB18 | melanoma antigen family B, 18 | Up | 1.94 | 3.84 | 0.0078 |
| ASB14 | ankyrin repeat and SOCS box containing 14 | Up | 1.92 | 3.79 | 0.0031 |
| FAM138E | family with sequence similarity 138, member E | Up | 1.82 | 3.54 | 0.0046 |
| C17orf102 | chromosome 17 open reading frame 102 | Up | 1.76 | 3.38 | 0.0047 |
| FAM149B1 | family with sequence similarity 149, member B1 | Up | 1.60 | 3.04 | 0.0001 |
| QRFP | pyroglutamylated RFamide peptide | Up | 1.51 | 2.86 | 0.0066 |
| PAR5 | Prader-Willi/Angelman syndrome-5 | Up | 1.47 | 2.78 | 0.0032 |
| TBX4 | T-box 4 | Up | 1.42 | 2.68 | 0.0097 |
| GPR27 | G protein-coupled receptor 27 | Up | 1.40 | 2.64 | 0.0087 |
| LOC100506533 | putative uncharacterized protein FLJ35883-like | Up | 1.36 | 2.56 | 0.0098 |
| OR2L2 | olfactory receptor, family 2, subfamily L, member 2 | Up | 1.35 | 2.54 | 0.0084 |
| CLEC12B | C-type lectin domain family 12, member B | Up | 1.33 | 2.52 | 0.0093 |
| SCEL | sciellin | Up | 1.25 | 2.38 | 0.0049 |
| LOC646736 | hypothetical LOC646736 | Up | 1.25 | 2.38 | 0.0079 |
| NCRNA00099 | non-protein coding RNA 99 | Up | 1.24 | 2.36 | 0.0008 |
| ARHGAP6 | Rho GTPase activating protein 6 | Up | 1.23 | 2.34 | 0.0093 |
| LOC283028 | hypothetical protein LOC283028 | Up | 1.20 | 2.30 | 0.0063 |
| ADARB2 | adenosine deaminase, RNA-specific, B2 | Up | 1.14 | 2.20 | 0.0059 |
| OR10W1 | olfactory receptor, family 10, subfamily W, member 1 | Up | 1.11 | 2.17 | 0.0025 |
| PTPN7 | protein tyrosine phosphatase, non-receptor type 7 | Up | 1.05 | 2.07 | 0.0010 |
| FAM124B | family with sequence similarity 124B | Up | 1.03 | 2.05 | 0.0034 |
| SORCS3 | sortilin-related VPS10 domain containing receptor 3 | Up | 0.94 | 1.92 | 0.0015 |
| FLJ37786 | hypothetical LOC642691 | Up | 0.94 | 1.91 | 0.0032 |
| C20orf26 | chromosome 20 open reading frame 26 | Up | 0.93 | 1.91 | 0.0018 |
| LIMS3- LOC440895 | LIMS3-LOC440895 readthrough | Up | 0.91 | 1.88 | 0.0008 |
| PCDHA4 | protocadherin alpha 4 | Up | 0.86 | 1.82 | 0.0028 |
| CRIP1 | cysteine-rich protein 1 (intestinal) | Up | 0.86 | 1.81 | 0.0013 |
| CRYBA4 | crystallin, beta A4 | Up | 0.84 | 1.79 | 0.0072 |
| MRGPRX4 | MAS-related GPR, member X4 | Up | 0.84 | 1.79 | 0.0079 |
| RAP1GAP | RAP1 GTPase activating protein | Up | 0.74 | 1.67 | 0.0065 |
| SLC25A48 | solute carrier family 25, member 48 | Up | 0.73 | 1.66 | 0.0001 |
| PLAC4 | placenta-specific 4 | Up | 0.73 | 1.66 | 0.0049 |
| PCDHB17 | protocadherin beta 17 pseudogene | Up | 0.73 | 1.66 | 0.0021 |
| OR4K14 | olfactory receptor, family 4, subfamily K, member 14 | Up | 0.68 | 1.61 | 0.0032 |
| GPR31 | G protein-coupled receptor 31 | Up | 0.67 | 1.59 | 0.0051 |
| ANGPT2 | angiopoietin 2 | Up | 0.67 | 1.59 | 0.0014 |
| ZNF408 | zinc finger protein 408 | Up | 0.66 | 1.58 | 0.0053 |
| C22orf34 | chromosome 22 open reading frame 34 | Up | 0.66 | 1.58 | 0.0059 |
| CAMKK1 | calcium/calmodulin-dependent protein kinase kinase 1, alpha | Up | 0.65 | 1.57 | 0.0010 |
| LOC100131821 | hypothetical protein LOC100131821 | Up | 0.64 | 1.56 | 0.0066 |
| LOC100129027 | hypothetical LOC100129027 | Up | 0.63 | 1.55 | 0.0010 |
| MANSC4 | MANSC domain containing 4 | Up | 0.63 | 1.55 | 0.0033 |
| RBMXL2 | RNA binding motif protein, X-linked-like 2 | Up | 0.60 | 1.51 | 0.0060 |
| ANGPT4 | angiopoietin 4 | Up | 0.59 | 1.50 | 0.0082 |
| HTRA3 | HtrA serine peptidase 3 | Up | 0.56 | 1.48 | 0.0086 |
| RAB19 | RAB19, member RAS oncogene family | Up | 0.55 | 1.46 | 0.0050 |
| ERN1 | endoplasmic reticulum to nucleus signaling 1 | Up | 0.54 | 1.46 | 0.0043 |
| LOC100508613 | putative uncharacterized protein FLJ45035-like | Down | -0.57 | 1.49 | 0.0083 |
| CCDC113 | coiled-coil domain containing 113 | Down | -0.58 | 1.49 | 0.0064 |
| IgL5 | immunoglobulin lambda-like polypeptide 5 | Down | -0.61 | 1.53 | 0.0038 |

| | | | | | |
|--------------|--|------|-------|------|--------|
| CYP24A1 | cytochrome P450, family 24, subfamily A, polypeptide 1 | Down | -0.62 | 1.53 | 0.0075 |
| LOC339988 | hypothetical LOC339988 | Down | -0.65 | 1.57 | 0.0056 |
| AFF3 | AF4/FMR2 family, member 3 | Down | -0.66 | 1.58 | 0.0075 |
| KIAA1456 | KIAA1456 | Down | -0.73 | 1.66 | 0.0065 |
| LOC145837 | hypothetical LOC145837 | Down | -0.75 | 1.68 | 0.0091 |
| CRX | cone-rod homeobox | Down | -0.75 | 1.68 | 0.0014 |
| LOC100131878 | hypothetical protein LOC100131878 | Down | -0.78 | 1.72 | 0.0037 |
| CLCA2 | chloride channel accessory 2 | Down | -0.80 | 1.74 | 0.0085 |
| FXYD3 | FXYD domain containing ion transport regulator 3 | Down | -0.83 | 1.78 | 0.0074 |
| LOC100499183 | hypothetical LOC100499183 | Down | -0.84 | 1.79 | 0.0079 |
| CD247 | CD247 molecule | Down | -0.92 | 1.89 | 0.0033 |
| CCDC147 | coiled-coil domain containing 147 | Down | -0.94 | 1.92 | 0.0071 |
| PITPNC1 | phosphatidylinositol transfer protein, cytoplasmic 1 | Down | -0.94 | 1.92 | 0.0026 |
| LOC100130954 | hypothetical LOC100130954 | Down | -0.95 | 1.93 | 0.0072 |
| ANKRD56 | ankyrin repeat domain 56 | Down | -0.97 | 1.95 | 0.0043 |
| LRRC43 | leucine rich repeat containing 43 | Down | -1.00 | 2.00 | 0.0097 |
| LEPR | leptin receptor | Down | -1.02 | 2.03 | 0.0010 |
| TMEM74 | transmembrane protein 74 | Down | -1.03 | 2.04 | 0.0073 |
| TTL9 | tubulin tyrosine ligase-like family, member 9 | Down | -1.06 | 2.08 | 0.0050 |
| LOC100131826 | TSSP3028 | Down | -1.07 | 2.09 | 0.0027 |
| IL16 | interleukin 16 | Down | -1.07 | 2.10 | 0.0063 |
| FAM75A3 | family with sequence similarity 75, member A3 | Down | -1.08 | 2.11 | 0.0022 |
| LOC284009 | hypothetical LOC284009 | Down | -1.13 | 2.18 | 0.0045 |
| AKAP14 | A kinase (PRKA) anchor protein 14 | Down | -1.15 | 2.22 | 0.0068 |
| FAM84A | family with sequence similarity 84, member A | Down | -1.21 | 2.31 | 0.0029 |
| ALS2CR11 | amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11 | Down | -1.24 | 2.36 | 0.0064 |
| C1orf159 | chromosome 1 open reading frame 159 | Down | -1.27 | 2.41 | 0.0084 |
| POF1B | premature ovarian failure, 1B | Down | -1.30 | 2.47 | 0.0025 |
| SYCP2 | synaptonemal complex protein 2 | Down | -1.30 | 2.47 | 0.0042 |
| KIF1A | kinesin family member 1A | Down | -1.32 | 2.50 | 0.0044 |
| PCDHGA5 | protocadherin gamma subfamily A, 5 | Down | -1.53 | 2.89 | 0.0054 |
| BCOR | BCL6 corepressor | Down | -1.58 | 2.99 | 0.0047 |
| GRK5 | G protein-coupled receptor kinase 5 | Down | -1.81 | 3.51 | 0.0088 |
| LOC100131496 | hypothetical LOC100131496 | Down | -1.88 | 3.67 | 0.0033 |
| PROX2 | prospero homeobox 2 | Down | -1.88 | 3.68 | 0.0048 |
| FLG | filaggrin | Down | -1.91 | 3.76 | 0.0012 |
| LOC100506253 | hypothetical LOC100506253 | Down | -2.00 | 3.99 | 0.0088 |
| MRAP2 | melanocortin 2 receptor accessory protein 2 | Down | -2.08 | 4.22 | 0.0013 |
| TRIM29 | tripartite motif containing 29 | Down | -2.20 | 4.60 | 0.0029 |
| PCDHB9 | protocadherin beta 9 | Down | -2.67 | 6.37 | 0.0047 |
| OR1E1 | olfactory receptor, family 1, subfamily E, member 1 | Down | -2.80 | 6.99 | 0.0096 |
| KRTAP1-5 | keratin associated protein 1-5 | Down | -3.32 | 9.95 | 0.0069 |

| Gene Target | Forward primer | Reverse Primer |
|---|--|---|
| Paired box 2 (PAX2) | 5'-CCC AGC GTC TCT TCC ATC AA-3' | 5'-CGT GCT GGG AAC AAT GGT GT-3' |
| Transient receptor potential cation channel, subfamily V, member 4 (TRPV4) | 5'-CTA CGG CAC CTA TCG TCA CC-3' | 5'-TTA GGC GTT TCT GGG TCA-3' |
| Carbonic anhydrase IX (CA9) | 5'-CTG TCT CGC TTG GAA GAA ATC G-3' | 5'-GCA GGA GTG CAG ATA TGT CCA G-3' |
| Pre-B-Cell Leukemia Homeobox 1 (PBX1) | 5'-GAC AAC TCA GTG GAG CAT TCA-3' | 5'-CTC TCG CAG GAG ATT CAT CAC-3' |
| Solute Carrier Family 26 (Anion Exchanger), Member 6 (SLC26A6) | 5'-CGG AGG CGA GAC TAC CAC A-3' | 5'-ACC AAA ACC GGG AGG TGT TG-3' |
| Solute Carrier Family 26 (Anion Exchanger), Member 11 (SLC26A11) | 5'-CCC ACC GCC ATT ATG TCC C-3' | 5'-GCA GGT TCT TGA TCT GTC CAA AG-3' |
| Beta-2-microglobulin (B2M) | 5'-CTC TCT CTT TCT GGC CTG GAG-3' | 5'-TCT GCT GGA TGA CGT GAG TA-3' |

Supplementary Table II: Primers used for Quantitative RT-PCR (qRT-PCR) Analysis.

| Cell | GEO Accession Number |
|--|-----------------------------|
| FibroP (normal fibroblast from patients with Parkinson's) | GSE30227 |
| GM12878 (lymphoblastoid) | GSE30227 |
| K652 (human myeloid leukemia cell line) | GSE30227 |
| HepG2 (liver carcinoma) | GSE30227 |
| HUVEC (human umbilical vein endothelial cell) | GSE30227 |
| HEE (primary human immature epididymis epithelial cell) | GSE51003 |
| REP (immortalized human immature epididymis epithelial cell) | GSE59783 |

Supplementary Table III. GEO accession numbers for the DNase-Seq data used in this manuscript.

Supplementary Table IV. Clover results indicate the number of chromosomes with transcription factor binding motifs statistically over-represented in REP DHS within gene promoter sequence (2kb upstream of transcriptional start sites). Analysis was divided into three groups (all DHS, REP-selective DHS, and ubiquitous DHS). Motifs with more than one entry in the databases utilized were edited to retain only the first occurrence of the motif.

| All DHS x 2kbUp | | | | REP-selective DHS x 2kbUp | | | | Ubiquitous DHS x 2kbUp | | | |
|-----------------|-------------------------|----------|----------|---------------------------|---|----------|----------|------------------------|-------------------------|----------|----------|
| ID | Name | P < 0.01 | P > 0.99 | ID | Name | P < 0.01 | P > 0.99 | ID | Name | P < 0.01 | P > 0.99 |
| MA0028.1 | ELK1 | 23 | 0 | V\$NEUROD_02 | NeuroD | 7 | 0 | MA0027.1 | En1 | 23 | 0 |
| MA0039.2 | Klf4 | 23 | 0 | V\$AP1_Q6 | activator protein 1 | 5 | 0 | MA0028.1 | ELK1 | 23 | 0 |
| MA0060.1 | NFYA | 23 | 0 | MA0055.1 | Myf | 4 | 0 | MA0039.2 | Klf4 | 23 | 0 |
| MA0062.2 | GABPA | 23 | 0 | V\$BACH1_01 | BTB and CNC homolog 1 | 4 | 0 | MA0060.1 | NFYA | 23 | 0 |
| MA0068.1 | Pax4 | 23 | 0 | V\$FRA1_Q5 | FRA1 | 4 | 0 | MA0062.2 | GABPA | 23 | 0 |
| MA0080.2 | SPI1 | 23 | 0 | V\$HEB_Q6 | HEB | 4 | 0 | MA0063.1 | Nkx2-5 | 23 | 0 |
| MA0098.1 | ETS1 | 23 | 0 | V\$LMAF_Q2 | LMAF | 4 | 0 | MA0068.1 | Pax4 | 23 | 0 |
| MA0108.2 | TBP | 23 | 0 | V\$FOXP3_Q4 | FOXP3 | 4 | 1 | MA0076.1 | ELK4 | 23 | 0 |
| MA0136.1 | ELF5 | 23 | 0 | MA0080.2 | SPI1 | 3 | 0 | MA0079.2 | SP1 | 23 | 0 |
| MA0151.1 | ARID3A | 23 | 0 | MA0156.1 | FEV | 3 | 0 | MA0084.1 | SRY | 23 | 0 |
| V\$ALX3_01 | ALX-3 | 23 | 0 | V\$CMAF_Q2 | C-MAF | 3 | 0 | MA0098.1 | ETS1 | 23 | 0 |
| V\$ALX4_Q2 | Alx-4 | 23 | 0 | V\$CREB_Q4 | cAMP-response element binding protein | 3 | 0 | MA0108.2 | TBP | 23 | 0 |
| V\$AMEF2_Q6 | myocyte enhancer factor | 23 | 0 | V\$CREBATF_Q6 | CREB, ATF | 3 | 0 | MA0136.1 | ELF5 | 23 | 0 |
| V\$AP2_Q6 | activator protein 2 | 23 | 0 | V\$CREBP1CJUN_01 | CRE-binding protein 1:c-Jun heterodimer | 3 | 0 | MA0156.1 | FEV | 23 | 0 |
| V\$ARX_Q1 | Arx | 23 | 0 | V\$HNF4_Q6_Q3 | half-site 2 | 3 | 0 | V\$ALX3_01 | ALX-3 | 23 | 0 |
| V\$BARHL1_01 | Barhl-1 | 23 | 0 | V\$LBP1_Q6 | LBP-1 | 3 | 0 | V\$ALX4_Q2 | Alx-4 | 23 | 0 |
| V\$BARHL2_01 | Barhl2 | 23 | 0 | V\$MAFA_Q4_Q1 | MAFA | 3 | 0 | V\$AMEF2_Q6 | myocyte enhancer factor | 23 | 0 |
| V\$BARX1_01 | Barx1 | 23 | 0 | V\$PU1_Q6 | PU.1 | 3 | 0 | V\$AP2_Q6 | activator protein 2 | 23 | 0 |
| V\$BARX2_01 | Barx-2 | 23 | 0 | MA0090.1 | TEAD1 | 3 | 1 | V\$ARX_Q1 | Arx | 23 | 0 |
| V\$BCL6_Q1 | BCL6 | 23 | 0 | V\$NFE2_Q1 | NF-E2 p45 | 3 | 1 | V\$BARHL1_Q1 | Barhl-1 | 23 | 0 |
| V\$BEN_Q1 | BEN | 23 | 0 | V\$TEF_Q1 | TEF b.s. | 3 | 1 | V\$BARHL2_Q1 | Barhl2 | 23 | 0 |
| V\$BRN2_Q1 | POU factor Brn-2 | 23 | 0 | V\$FXR_Q2 | half-site | 3 | 2 | V\$BARX1_Q1 | Barx1 | 23 | 0 |
| V\$BRN3C_Q1 | Brn-3c | 23 | 0 | MA0007.1 | Ar | 2 | 0 | V\$BARX2_Q1 | Barx-2 | 23 | 0 |

| | | | | | | | | | | | |
|---------------------|---|----|---|-----------------------------|---|---|---|----------------------|--|----|---|
| V\$BRN4_01 | Brn-4 | 23 | 0 | MA0018.2 | CREB1 | 2 | 0 | V\$BCL6_01 | BCL6 | 23 | 0 |
| V\$BSX_01 | Bsx | 23 | 0 | MA0106.1 | TP53 | 2 | 0 | V\$BRCA_01 | BRCA1 containing protein complex with USF2 | 23 | 0 |
| V\$CART1_02 | CART1 | 23 | 0 | MA0108.2 | TBP | 2 | 0 | V\$BRN2_01 | POU factor Brn-2 | 23 | 0 |
| V\$CDC5_01 | cell division control protein 5 | 23 | 0 | MA0144.1 | Stat3 | 2 | 0 | V\$BRN3C_01 | Brn-3c | 23 | 0 |
| V\$CDP_03 | CDP | 23 | 0 | V\$AP1FJ_Q2 | activator protein 1 | 2 | 0 | V\$BRN4_01 | Brn-4 | 23 | 0 |
| V\$CDX1_01 | Cdx-1 | 23 | 0 | V\$AP4_Q6 | activator protein 4 | 2 | 0 | V\$BSX_01 | Bsx | 23 | 0 |
| V\$CDX2_01 | Cdx-2 | 23 | 0 | V\$ATF1_Q6 | ATF1 | 2 | 0 | V\$CART1_02 | CART1 | 23 | 0 |
| V\$CDX_Q5 | Cdx | 23 | 0 | V\$ATF5_01 | ATF5 binding site | 2 | 0 | V\$CDC5_01 | cell division control protein 5 | 23 | 0 |
| V\$CEBP_01 | CCAAT/enhancer binding protein | 23 | 0 | V\$ATF_B | ATF binding site | 2 | 0 | V\$CDP_03 | CDP | 23 | 0 |
| V\$CEBPA_01 | CCAAT/enhancer binding protein alpha | 23 | 0 | V\$BEN_01 | BEN | 2 | 0 | V\$CDX1_01 | Cdx-1 | 23 | 0 |
| V\$CEBPB_01 | CCAAT/enhancer binding protein beta | 23 | 0 | V\$CACBINDI NGPROTEIN_Q6 | CAC-binding protein | 2 | 0 | V\$CDX2_01 | Cdx-2 | 23 | 0 |
| V\$CEBPGAM MA_Q6 | C/EBPgamma | 23 | 0 | V\$ER_Q6_Q2 | half-site matrix, half-ERE | 2 | 0 | V\$CDX_Q5 | Cdx | 23 | 0 |
| V\$CETS1P54_01 | c-Ets-1(p54) | 23 | 0 | V\$ETS1_B | c-ETS-1 binding site | 2 | 0 | V\$CEBP_01 | CCAAT/enhancer binding protein | 23 | 0 |
| V\$CHCH_01 | Churchill | 23 | 0 | V\$ETS2_B | c-Ets-2 binding sites | 2 | 0 | V\$CEBPA_01 | CCAAT/enhancer binding protein alpha | 23 | 0 |
| V\$CKROX_Q2 | CKROX | 23 | 0 | V\$ETS_Q6 | Ets | 2 | 0 | V\$CEBPGA MMA_Q6 | C/EBPgamma | 23 | 0 |
| V\$CNOT3_01 | CNOT3 | 23 | 0 | V\$GR_01 | high affinity binding site for glucocorticoid receptor | 2 | 0 | V\$CETS1P54_01 | c-Ets-1(p54) | 23 | 0 |
| V\$COMP1_01 | COMP1 | 23 | 0 | V\$HSF1_01 | heat shock factor 1 | 2 | 0 | V\$CKROX_Q2 | CKROX | 23 | 0 |
| V\$CPHX_01 | Cphx | 23 | 0 | V\$HSF2_03 | HSF2 | 2 | 0 | V\$CNOT3_01 | CNOT3 | 23 | 0 |
| V\$CREB_01 | cAMP-responsive element binding protein | 23 | 0 | V\$LMO2COM_01 | complex of Lmo2 bound to Tal-1, E2A proteins, and GATA-1, half-site 1 | 2 | 0 | V\$COMP1_01 | COMP1 | 23 | 0 |
| V\$CRX_02 | Crx | 23 | 0 | V\$MTF1_01 | MTF1 | 2 | 0 | V\$CPHX_01 | Cphx | 23 | 0 |
| V\$CTCF_01 | CTCF | 23 | 0 | V\$MYC_Q2 | Myc | 2 | 0 | V\$CREB_01 | cAMP-responsive element binding protein | 23 | 0 |
| V\$DBX1_01 | Dbx-1 | 23 | 0 | V\$MYC_MAX_03 | c-Myc:Max heterodimer | 2 | 0 | V\$CREBP1 CJUN_01 | CRE-binding protein 1:c-Jun heterodimer | 23 | 0 |
| V\$DBX2_01 | Dbx-2 | 23 | 0 | V\$MYOGENIN | myogenin | 2 | 0 | V\$CRX_02 | Crx | 23 | 0 |

| | | | | Q6 | | | | | | | |
|-----------------|---|----|---|----------------|--|---|---|----------------|---|----|---|
| V\$DLX1_01 | Dlx-1 | 23 | 0 | V\$MZF1_Q5 | MZF1 | 2 | 0 | V\$DBX1_01 | Dbx-1 | 23 | 0 |
| V\$DLX2_01 | Dlx-2 | 23 | 0 | V\$NFKAPPAB_01 | NF-kappaB | 2 | 0 | V\$DBX2_01 | Dbx-2 | 23 | 0 |
| V\$DLX3_01 | dlx3 | 23 | 0 | V\$NFKB_C | NF-kappaB binding site | 2 | 0 | V\$DLX1_01 | Dlx-1 | 23 | 0 |
| V\$DLX5_01 | dlx5 | 23 | 0 | V\$NRF1_Q6 | nuclear respiratory factor 1 | 2 | 0 | V\$DLX2_01 | Dlx-2 | 23 | 0 |
| V\$DLX7_01 | Dlx7 | 23 | 0 | V\$OLF1_01 | olfactory neuron-specific factor | 2 | 0 | V\$DLX3_01 | dlx3 | 23 | 0 |
| V\$DOBOX4_01 | Dobox4 | 23 | 0 | V\$P53_04 | tumor suppressor p53 | 2 | 0 | V\$DLX5_01 | dlx5 | 23 | 0 |
| V\$DOBOX5_01 | Dobox5 | 23 | 0 | V\$PTF1BETA_Q6 | PTF1-beta | 2 | 0 | V\$DLX7_01 | Dlx7 | 23 | 0 |
| V\$DUXL_01 | Duxl | 23 | 0 | V\$ROAZ_01 | rat Olf-1/EBF-associated zinc finger protein | 2 | 0 | V\$DOBOX4_01 | Dobox4 | 23 | 0 |
| V\$E2F1_01 | E2F1 | 23 | 0 | V\$SMAD3_Q6 | SMAD3 | 2 | 0 | V\$DOBOX5_01 | Dobox5 | 23 | 0 |
| V\$E2F6_01 | E2F6 | 23 | 0 | V\$SMAD4_Q6 | SMAD4 | 2 | 0 | V\$DRI1_01 | DRI1 b.s. | 23 | 0 |
| V\$ELF1_Q5 | ELF1 | 23 | 0 | V\$STAT6_02 | signal transducer and activator of transcription 6 | 2 | 0 | V\$DUXL_01 | Duxl | 23 | 0 |
| V\$EMX2_01 | EMX2 | 23 | 0 | V\$TAL1_Q6 | TAL1 | 2 | 0 | V\$E2F1_01 | E2F1 | 23 | 0 |
| V\$EN1_02 | En-1 | 23 | 0 | V\$TATA_01 | cellular and viral TATA box elements | 2 | 0 | V\$E2F1DP_1_01 | E2F-1:DP-1 heterodimer | 23 | 0 |
| V\$EN2_01 | En-2 | 23 | 0 | V\$USF_Q6_01 | USF | 2 | 0 | V\$E2F6_01 | E2F6 | 23 | 0 |
| V\$ERG_01 | ERG | 23 | 0 | MA0047.2 | Foxa2 | 2 | 1 | V\$E2F_Q2 | E2F | 23 | 0 |
| V\$ESX1_01 | Esx1 | 23 | 0 | MA0102.2 | CEBPA | 2 | 1 | V\$ELF1_Q5 | ELF1 | 23 | 0 |
| V\$ETF_Q6 | ETF | 23 | 0 | V\$BLIMP1_Q6 | BLIMP1 | 2 | 1 | V\$EMX2_01 | EMX2 | 23 | 0 |
| V\$ETS2_Q6 | ETS2 | 23 | 0 | V\$CEBPB_01 | CCAAT/enhancer binding protein beta | 2 | 1 | V\$EN2_01 | En-2 | 23 | 0 |
| V\$ETS_Q6 | Ets | 23 | 0 | V\$NFAT3_Q3 | NFAT3 | 2 | 1 | V\$ERG_01 | ERG | 23 | 0 |
| V\$EVI1_04 | ectopic viral integration site 1 encoded factor | 23 | 0 | V\$P300_01 | p300 | 2 | 1 | V\$ESX1_01 | Esx1 | 23 | 0 |
| V\$EVX1_01 | Evx-1 | 23 | 0 | V\$PR_Q2 | half-site matrix | 2 | 1 | V\$ETF_Q6 | ETF | 23 | 0 |
| V\$EVX2_01 | Evx2 | 23 | 0 | V\$SF1_Q6 | SF1 | 2 | 1 | V\$EVI1_04 | ectopic viral integration site 1 encoded factor | 23 | 0 |
| V\$FLI1_Q6 | FLI1 | 23 | 0 | V\$SRF_Q5_01 | SRF | 2 | 1 | V\$EVX1_01 | Evx-1 | 23 | 0 |
| V\$FOXP3_01 | forkhead box P3 | 23 | 0 | V\$T3R_Q6 | half-site matrix | 2 | 1 | V\$EVX2_01 | Evx2 | 23 | 0 |
| V\$GABP_B | GA binding protein | 23 | 0 | V\$TBR2_01 | TBR2 | 2 | 1 | V\$FLI1_Q6 | FLI1 | 23 | 0 |
| V\$GABPALPHA_Q4 | GABP-alpha | 23 | 0 | V\$E2F_03 | E2F | 2 | 2 | V\$FOXJ2_02 | fork head box J 2 | 23 | 0 |

| | | | | | | | | | | | |
|--------------|-----------------------------------|----|---|----------------|--|---|---|------------------|-----------------------------------|----|---|
| V\$GADP_01 | Growth-associated binding protein | 23 | 0 | MA0002.2 | RUNX1 | 1 | 0 | V\$FOXO1_02 | fork head box O1 | 23 | 0 |
| V\$GBX1_01 | Gbx1 | 23 | 0 | MA0004.1 | Arnt | 1 | 0 | V\$FOXO3A_Q1 | FOXO3A | 23 | 0 |
| V\$GBX2_01 | Gbx2 | 23 | 0 | MA0038.1 | Gfi | 1 | 0 | V\$FOXO4_01 | fork head box O4 | 23 | 0 |
| V\$GSC_01 | Gsc | 23 | 0 | MA0059.1 | MYC::MAX | 1 | 0 | V\$FOXP3_01 | forkhead box P3 | 23 | 0 |
| V\$GSH2_01 | GSH2 | 23 | 0 | MA0060.1 | NFYA | 1 | 0 | V\$GABP_B | GA binding protein | 23 | 0 |
| V\$HB24_01 | HB24 | 23 | 0 | MA0061.1 | NF-kappaB | 1 | 0 | V\$GABPAL_PHA_Q4 | GABP-alpha | 23 | 0 |
| V\$HB9_01 | HB9 | 23 | 0 | MA0066.1 | PPARG | 1 | 0 | V\$GADP_01 | Growth-associated binding protein | 23 | 0 |
| V\$HDX_01 | Hdx | 23 | 0 | MA0073.1 | RREB1 | 1 | 0 | V\$GBX1_01 | Gbx1 | 23 | 0 |
| V\$HMBOX1_01 | Hmbox1 | 23 | 0 | MA0081.1 | SPIB | 1 | 0 | V\$GBX2_01 | Gbx2 | 23 | 0 |
| V\$HMGYI_01 | HMGYI | 23 | 0 | MA0092.1 | Hand1::Tcf2a | 1 | 0 | V\$GKLF_02 | GKLF (KLF4) | 23 | 0 |
| V\$HMX1_02 | HMX1 | 23 | 0 | MA0107.1 | RELA | 1 | 0 | V\$GSC_01 | Gsc | 23 | 0 |
| V\$HMX3_02 | Nkx5-1 | 23 | 0 | MA0112.2 | ESR1 | 1 | 0 | V\$GSH2_01 | GSH2 | 23 | 0 |
| V\$HNF1_02 | HNF-1alpha | 23 | 0 | MA0133.1 | BRCA1 | 1 | 0 | V\$HB24_01 | HB24 | 23 | 0 |
| V\$HNF1B_01 | HNF-1beta | 23 | 0 | MA0137.2 | STAT1 | 1 | 0 | V\$HB9_01 | HB9 | 23 | 0 |
| V\$HOMEZ_01 | Homez | 23 | 0 | MA0145.1 | Tcf2l1 | 1 | 0 | V\$HBP1_Q2 | hbp1 | 23 | 0 |
| V\$HOX13_02 | HOXA5 | 23 | 0 | MA0154.1 | EBF1 | 1 | 0 | V\$HDX_01 | Hdx | 23 | 0 |
| V\$HOXA10_01 | HOXA10 | 23 | 0 | MA0161.1 | NFIC | 1 | 0 | V\$HELIOS_A_02 | Helios A | 23 | 0 |
| V\$HOXA11_01 | HOXA11 | 23 | 0 | MA0258.1 | ESR2 | 1 | 0 | V\$HMBOX1_01 | Hmbox1 | 23 | 0 |
| V\$HOXA13_01 | HOXA13 binding site | 23 | 0 | V\$AML1_Q4 | AML1 | 1 | 0 | V\$HMGYI_01 | HMGYI | 23 | 0 |
| V\$HOXA1_01 | HOXA1 | 23 | 0 | V\$AML2_01 | AML2 | 1 | 0 | V\$HMX1_02 | HMX1 | 23 | 0 |
| V\$HOXA2_01 | HoxA2 | 23 | 0 | V\$AP2ALPHA_02 | AP-2alphaA | 1 | 0 | V\$HMX3_02 | Nkx5-1 | 23 | 0 |
| V\$HOXA3_02 | HOXA3 | 23 | 0 | V\$AP2REP_01 | AP-2 repressor | 1 | 0 | V\$HNF1_01 | hepatic nuclear factor 1 | 23 | 0 |
| V\$HOXA4_01 | HOXA4 | 23 | 0 | V\$AREB6_01 | AREB6 (Atp1a1 regulatory element binding factor 6) | 1 | 0 | V\$HNF1B_01 | HNF-1beta | 23 | 0 |
| V\$HOXA6_01 | HOXA6 | 23 | 0 | V\$ATF4_Q2 | activating transcription factor 4 | 1 | 0 | V\$HNF3_Q6_01 | HNF3 | 23 | 0 |

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|--------------|--------|----|---|----------------|---|---|---|--------------|----------------------------------|----|---|
| V\$HOXA7_02 | HOXA7 | 23 | 0 | V\$BACH2_01 | BTB and CNC homolog 2 | 1 | 0 | V\$HOMEZ_01 | Homez | 23 | 0 |
| V\$HOXA9_01 | hoxa9 | 23 | 0 | V\$BCL6_Q3 | BCL6 | 1 | 0 | V\$HOX13_02 | HOXA5 | 23 | 0 |
| V\$HOXB13_01 | HOXB13 | 23 | 0 | V\$CACD_01 | CACD | 1 | 0 | V\$HOXA10_01 | HOXA10 | 23 | 0 |
| V\$HOXB3_01 | HOXB3 | 23 | 0 | V\$CEBP_C | C/EBP binding site | 1 | 0 | V\$HOXA11_01 | HOXA11 | 23 | 0 |
| V\$HOXB4_01 | HOXB4 | 23 | 0 | V\$CETS1P54_02 | c-Ets-1(p54) | 1 | 0 | V\$HOXA13_02 | HOXA13 | 23 | 0 |
| V\$HOXB5_01 | HoxB5 | 23 | 0 | V\$CMYC_01 | c-Myc site | 1 | 0 | V\$HOXA1_01 | HOXA1 | 23 | 0 |
| V\$HOXB6_01 | HOXB6 | 23 | 0 | V\$E47_01 | E47 | 1 | 0 | V\$HOXA2_01 | HoxA2 | 23 | 0 |
| V\$HOXB7_01 | HOXB7 | 23 | 0 | V\$EAR2_Q2 | EAR2 | 1 | 0 | V\$HOXA3_01 | HOXA3 (homeobox cluster protein) | 23 | 0 |
| V\$HOXB8_01 | HOXB8 | 23 | 0 | V\$EBF_Q6 | EBF | 1 | 0 | V\$HOXA4_01 | HOXA4 | 23 | 0 |
| V\$HOXB9_01 | HOXB9 | 23 | 0 | V\$EBOX_Q6_01 | Ebox | 1 | 0 | V\$HOXA6_01 | HOXA6 | 23 | 0 |
| V\$HOXC10_01 | HOXC10 | 23 | 0 | V\$ELF1_Q5 | ELF1 | 1 | 0 | V\$HOXA7_02 | HOXA7 | 23 | 0 |
| V\$HOXC11_01 | HOXC11 | 23 | 0 | V\$ELF5_01 | ELF5 | 1 | 0 | V\$HOXA9_01 | hoxa9 | 23 | 0 |
| V\$HOXC12_01 | HOXC12 | 23 | 0 | V\$ELK1_01 | Elk-1 | 1 | 0 | V\$HOXB13_01 | HOXB13 | 23 | 0 |
| V\$HOXC13_01 | HOXC13 | 23 | 0 | V\$FLI1_Q6 | FLI1 | 1 | 0 | V\$HOXB3_01 | HOXB3 | 23 | 0 |
| V\$HOXC4_01 | HOXC4 | 23 | 0 | V\$FPM315_01 | Zinc finger protein FPM315 with KRAB and SCAN domains | 1 | 0 | V\$HOXB4_01 | HOXB4 | 23 | 0 |
| V\$HOXC5_01 | HOXC5 | 23 | 0 | V\$GAF_Q6 | GAF | 1 | 0 | V\$HOXB5_01 | HoxB5 | 23 | 0 |
| V\$HOXC6_01 | HOXC6 | 23 | 0 | V\$GATA1_01 | GATA-binding factor 1 | 1 | 0 | V\$HOXB6_01 | HOXB6 | 23 | 0 |
| V\$HOXC8_01 | HOXC-8 | 23 | 0 | V\$GATA6_01 | GATA-6 | 1 | 0 | V\$HOXB7_01 | HOXB7 | 23 | 0 |
| V\$HOXC9_01 | HOXC9 | 23 | 0 | V\$GLI3_Q5_01 | GLI3 | 1 | 0 | V\$HOXB8_01 | HOXB8 | 23 | 0 |
| V\$HOXD10_01 | HOXD10 | 23 | 0 | V\$HAND1E47_01 | Hand1:E47 heterodimer | 1 | 0 | V\$HOXB9_01 | HOXB9 | 23 | 0 |
| V\$HOXD11_01 | HOXD11 | 23 | 0 | V\$HMX1_01 | H6 homeobox 3 | 1 | 0 | V\$HOXC10_01 | HOXC10 | 23 | 0 |
| V\$HOXD12_01 | HOXD12 | 23 | 0 | V\$HSF_Q6 | HSF | 1 | 0 | V\$HOXC11_01 | HOXC11 | 23 | 0 |
| V\$HOXD13_01 | HOXD13 | 23 | 0 | V\$ING4_01 | ING4 | 1 | 0 | V\$HOXC12 | HOXC12 | 23 | 0 |

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|-------------|--------|----|---|-------------------|---|---|---|----------------------|-----------------|----|---|
| 1 | | | | | | | | | _01 | | |
| V\$HOXD1_01 | HOXD1 | 23 | 0 | V\$KAISO_01 | KAISO | 1 | 0 | V\$HOXC13_01 | HOXC13 | 23 | 0 |
| V\$HOXD3_01 | HOXD3 | 23 | 0 | V\$LBP9_01 | LBP9 (Tcfcp211) | 1 | 0 | V\$HOXC4_01 | HOXC4 | 23 | 0 |
| V\$HOXD8_01 | HOXD8 | 23 | 0 | V\$LRH1_Q5 | LRH1 | 1 | 0 | V\$HOXC5_01 | HOXC5 | 23 | 0 |
| V\$IPF1_06 | ipf1 | 23 | 0 | V\$MAFB_01 | MAFB | 1 | 0 | V\$HOXC6_01 | HOXC6 | 23 | 0 |
| V\$IRF3_Q3 | IRF3 | 23 | 0 | V\$MATH1_Q2 | E47:MATH1 | 1 | 0 | V\$HOXC8_01 | HOXC-8 | 23 | 0 |
| V\$IRF_Q6 | IRF | 23 | 0 | V\$MAZ_Q6 | MAZ | 1 | 0 | V\$HOXC9_01 | HOXC9 | 23 | 0 |
| V\$IRX2_01 | Irx2 | 23 | 0 | V\$MEIS1_01 | Meis-1 (myeloid ecotropic viral integration site 1) | 1 | 0 | V\$HOXD10_01 | HOXD10 | 23 | 0 |
| V\$IRX3_01 | Irx-3 | 23 | 0 | V\$MEIS1AHOXA9_01 | Meis-1a:HOXA9 heterodimeric binding | 1 | 0 | V\$HOXD11_01 | HOXD11 | 23 | 0 |
| V\$IRX4_01 | IRX4 | 23 | 0 | V\$MEIS2_02 | MEIS2 | 1 | 0 | V\$HOXD12_01 | HOXD12 | 23 | 0 |
| V\$IRX5_01 | Irx5 | 23 | 0 | V\$MYB_Q6 | c-Myb | 1 | 0 | V\$HOXD13_01 | HOXD13 | 23 | 0 |
| V\$IRXB3_01 | IRXB3 | 23 | 0 | V\$MYOD_Q6 | myoblast determining factor | 1 | 0 | V\$HOXD1_01 | HOXD1 | 23 | 0 |
| V\$ISL2_01 | Isl2 | 23 | 0 | V\$NF1_Q6 | nuclear factor 1 | 1 | 0 | V\$HOXD3_01 | HOXD3 | 23 | 0 |
| V\$ISX_01 | isx | 23 | 0 | V\$NFAT_Q4_01 | NF-AT | 1 | 0 | V\$HOXD8_01 | HOXD8 | 23 | 0 |
| V\$K2B_01 | K-2b | 23 | 0 | V\$NFKAPPAB65_01 | NF-kappaB (p65) | 1 | 0 | V\$HP1SITE_FACTOR_Q6 | HP1 site factor | 23 | 0 |
| V\$KROX_Q6 | KROX | 23 | 0 | V\$NFY_01 | nuclear factor Y (Y-box binding factor) | 1 | 0 | V\$IPF1_06 | ipf1 | 23 | 0 |
| V\$Lbx2_01 | Lbx2 | 23 | 0 | V\$NGFIC_01 | nerve growth factor-induced protein C | 1 | 0 | V\$IRF3_Q3 | IRF3 | 23 | 0 |
| V\$LH2_01 | LH-2 | 23 | 0 | V\$NMYC_01 | N-Myc | 1 | 0 | V\$IRX2_01 | Irx2 | 23 | 0 |
| V\$LHX3_02 | Lhx3 | 23 | 0 | V\$NRF2_01 | nuclear respiratory factor 2 | 1 | 0 | V\$IRX3_01 | Irx-3 | 23 | 0 |
| V\$LHX4_01 | Lhx4 | 23 | 0 | V\$P50P50_Q3 | P50:P50 | 1 | 0 | V\$IRX4_01 | IRX4 | 23 | 0 |
| V\$LHX5_01 | Lhx5 | 23 | 0 | V\$PARP_Q3 | PARP | 1 | 0 | V\$IRX5_01 | Irx5 | 23 | 0 |
| V\$LHX61_01 | lhx6.1 | 23 | 0 | V\$PAX4_03 | Pax-4 binding sites | 1 | 0 | V\$IRXB3_01 | IRXB3 | 23 | 0 |
| V\$LHX8_01 | Lhx8 | 23 | 0 | V\$PAX5_02 | B-cell-specific activating protein | 1 | 0 | V\$ISL2_01 | Isl2 | 23 | 0 |
| V\$LHX9_01 | Lhx9 | 23 | 0 | V\$PAX8_B | Pax-8 binding sites | 1 | 0 | V\$ISX_01 | isx | 23 | 0 |

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|---------------|---|----|---|--------------|--|---|---|---------------|---|----|---|
| V\$LIM1_01 | Lim-1 | 23 | 0 | V\$PEA3_Q6 | PEA3 | 1 | 0 | V\$K2B_01 | K-2b | 23 | 0 |
| V\$LMX1_01 | Lmx-1 | 23 | 0 | V\$PUR1_Q4 | PUR1 | 1 | 0 | V\$KROX_Q6 | KROX | 23 | 0 |
| V\$LMX1B_01 | lmx1b | 23 | 0 | V\$RFX_Q6 | RFX | 1 | 0 | V\$LBX2_01 | Lbx2 | 23 | 0 |
| V\$MAZ_Q6 | MAZ | 23 | 0 | V\$SEF1_C | SEF1 binding site | 1 | 0 | V\$LH2_01 | LH-2 | 23 | 0 |
| V\$MEF2_Q6_01 | MEF-2 | 23 | 0 | V\$SP2_01 | SP2 | 1 | 0 | V\$LHX3_02 | Lhx3 | 23 | 0 |
| V\$MEIS1_02 | Meis1 | 23 | 0 | V\$SP3_Q3 | Sp3 | 1 | 0 | V\$LHX4_01 | Lhx4 | 23 | 0 |
| V\$MEIS2_01 | Meis2 | 23 | 0 | V\$SREBP2_Q6 | SREBP2 | 1 | 0 | V\$LHX5_01 | Lhx5 | 23 | 0 |
| V\$MMEF2_Q6 | myocyte enhancer factor | 23 | 0 | V\$STAT4_Q4 | STAT4 | 1 | 0 | V\$LHX61_01 | lhx6.1 | 23 | 0 |
| V\$MOX1_01 | Mox1 | 23 | 0 | V\$STAT_01 | signal transducers and activators of transcription | 1 | 0 | V\$LHX8_01 | Lhx8 | 23 | 0 |
| V\$MRG2_01 | MRG2 | 23 | 0 | V\$TBX15_01 | T-box 15 | 1 | 0 | V\$LHX9_01 | Lhx9 | 23 | 0 |
| V\$MSX1_01 | msh-like (muscle segment homeobox) homeobox protein 1 | 23 | 0 | V\$TCF11_01 | TCF11/KCR-F1/Nrf1 homodimers | 1 | 0 | V\$LIM1_01 | Lim-1 | 23 | 0 |
| V\$MSX2_01 | Msx-2 | 23 | 0 | V\$TCF4_03 | Tcf-4 dimer | 1 | 0 | V\$LMX1_01 | Lmx-1 | 23 | 0 |
| V\$MSX3_01 | Msx-3 | 23 | 0 | V\$TR4_01 | TR4 | 1 | 0 | V\$LMX1B_01 | lmx1b | 23 | 0 |
| V\$NCX_02 | Ncx | 23 | 0 | V\$USF2_Q6 | USF2 | 1 | 0 | V\$MAZ_Q6 | MAZ | 23 | 0 |
| V\$NFY_01 | nuclear factor Y (Y-box binding factor) | 23 | 0 | V\$WHN_B | winged-helix factor nude | 1 | 0 | V\$MEF2_Q6_01 | MEF-2 | 23 | 0 |
| V\$NKX11_01 | Nkx1-1 | 23 | 0 | V\$ZABC1_01 | ZABC1 b.s. | 1 | 0 | V\$MEIS1_02 | Meis1 | 23 | 0 |
| V\$NKX12_01 | Nkx1-2 | 23 | 0 | V\$ZBED6_01 | ZBED6 | 1 | 0 | V\$MEIS2_01 | Meis2 | 23 | 0 |
| V\$NKX21_01 | Nkx2-1 | 23 | 0 | V\$ZBRK1_01 | ZBRK1 | 1 | 0 | V\$MMEF2_Q6 | myocyte enhancer factor | 23 | 0 |
| V\$NKX22_02 | NKX22 | 23 | 0 | V\$ZF5_B | ZF5 binding sites | 1 | 0 | V\$MOX1_01 | Mox1 | 23 | 0 |
| V\$NKX23_01 | Nkx2-3 | 23 | 0 | V\$ZFP206_01 | Zfp206 | 1 | 0 | V\$MRG2_01 | MRG2 | 23 | 0 |
| V\$NKX24_01 | Nkx2-4 | 23 | 0 | V\$ZIC1_01 | zinc finger protein of the cerebellum 1 | 1 | 0 | V\$MSX1_01 | msh-like (muscle segment homeobox) homeobox protein 1 | 23 | 0 |
| V\$NKX25_03 | NKX25 | 23 | 0 | V\$ZIC2_01 | zinc finger protein of the cerebellum 2 | 1 | 0 | V\$MSX2_01 | Msx-2 | 23 | 0 |
| V\$NKX26_01 | Nkx2-6 | 23 | 0 | MA0009.1 | T | 1 | 1 | V\$MSX3_01 | Msx-3 | 23 | 0 |

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|---------------|--------------------------------|----|---|-----------------|---|---|---|-------------|---|----|---|
| V\$NKX29_01 | Nkx2-9 | 23 | 0 | MA0036.1 | GATA2 | 1 | 1 | V\$NANOG_02 | Nanog | 23 | 0 |
| V\$NKX32_02 | Nkx3-2 | 23 | 0 | MA0058.1 | MAX | 1 | 1 | V\$NCX_01 | Ncx | 23 | 0 |
| V\$NKX3A_02 | Nkx3A | 23 | 0 | MA0089.1 | NFE2L1::MafG | 1 | 1 | V\$NFAT_Q6 | Nuclear factor of activated T-cells | 23 | 0 |
| V\$NKX52_01 | Nkx5-2 | 23 | 0 | F\$AMT1_Q2 | AMT1 | 1 | 1 | V\$NFY_01 | nuclear factor Y (Y-box binding factor) | 23 | 0 |
| V\$NKX61_01 | NKX6-1 | 23 | 0 | V\$AHRARNT_01 | aryl hydrocarbon receptor:Arnt heterodimers | 1 | 1 | V\$NKX11_01 | Nkx1-1 | 23 | 0 |
| V\$NKX62_Q2 | NK related homeobox factor 6-2 | 23 | 0 | V\$AML_Q6 | AML | 1 | 1 | V\$NKX12_01 | Nkx1-2 | 23 | 0 |
| V\$NKX63_01 | Nkx6-3 | 23 | 0 | V\$CMYB_01 | c-Myb | 1 | 1 | V\$NKX21_01 | Nkx2-1 | 23 | 0 |
| V\$NRF2_01 | nuclear respiratory factor 2 | 23 | 0 | V\$E2F1_02 | E2F1 | 1 | 1 | V\$NKX22_02 | NKX22 | 23 | 0 |
| V\$OBOX1_01 | Obox1 | 23 | 0 | V\$E2F1DP1_01 | E2F-1:DP-1 heterodimer | 1 | 1 | V\$NKX23_01 | Nkx2-3 | 23 | 0 |
| V\$OBOX2_01 | Obox2 | 23 | 0 | V\$GATA3_01 | GATA-binding factor 3 | 1 | 1 | V\$NKX24_01 | Nkx2-4 | 23 | 0 |
| V\$OBOX3_01 | Obox3 | 23 | 0 | V\$MAF_Q6_01 | MAF | 1 | 1 | V\$NKX25_02 | homeo domain factor Nkx-2.5/Csx, tinman homolog | 23 | 0 |
| V\$OBOX5_01 | Obox5 | 23 | 0 | V\$OCT1_Q6 | octamer factor 1 | 1 | 1 | V\$NKX26_01 | Nkx2-6 | 23 | 0 |
| V\$OBOX6_01 | Obox6 | 23 | 0 | V\$PAX3_01 | Pax-3 binding sites | 1 | 1 | V\$NKX29_01 | Nkx2-9 | 23 | 0 |
| V\$OCT1_03 | octamer factor 1 | 23 | 0 | V\$PAX6_Q2 | Pax-6 | 1 | 1 | V\$NKX32_02 | Nkx3-2 | 23 | 0 |
| V\$OCT2_01 | 2-Oct | 23 | 0 | V\$RELBP52_01 | kappaB site | 1 | 1 | V\$NKX3A_02 | Nkx3A | 23 | 0 |
| V\$OCT_Q6 | Octamer | 23 | 0 | V\$TEF1_Q6 | TEF-1 | 1 | 1 | V\$NKX52_01 | Nkx5-2 | 23 | 0 |
| V\$OCTAMER_01 | Octamer | 23 | 0 | MA0148.1 | FOXA1 | 1 | 2 | V\$NKX61_01 | NKX6-1 | 23 | 0 |
| V\$OG2_02 | OG-2 | 23 | 0 | MA0150.1 | NFE2L2 | 1 | 2 | V\$NKX62_Q2 | NK related homeobox factor 6-2 | 23 | 0 |
| V\$OTP_01 | OTP | 23 | 0 | V\$CEBPDELTA_Q6 | C/EBPdelta | 1 | 2 | V\$NKX63_01 | Nkx6-3 | 23 | 0 |
| V\$OTX1_01 | Otx1 | 23 | 0 | V\$CEBPE_01 | cebpe | 1 | 2 | V\$NRF2_01 | nuclear respiratory factor 2 | 23 | 0 |
| V\$OTX2_01 | Otx2 | 23 | 0 | V\$HLF_01 | hepatic leukemia factor | 1 | 2 | V\$OBOX1_01 | Obox1 | 23 | 0 |
| V\$OTX3_01 | Otx3 | 23 | 0 | V\$HOXA7_01 | HOXA7 | 1 | 2 | V\$OBOX2_01 | Obox2 | 23 | 0 |
| V\$P53_03 | tumor suppressor p53 | 23 | 0 | V\$IRF2_01 | interferon regulatory factor 2 | 1 | 2 | V\$OBOX3_01 | Obox3 | 23 | 0 |

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|--------------|----------------------------------|----|---|--------------|---|---|---|----------------|----------------------|----|---|
| V\$PARP_Q3 | PARP | 23 | 0 | V\$OCT2_02 | 2-Oct | 1 | 2 | V\$OBOX5_01 | Obox5 | 23 | 0 |
| V\$PAX2_01 | Pax-2 | 23 | 0 | V\$OCT4_02 | Oct-4 (POU5F1) | 1 | 2 | V\$OBOX6_01 | Obox6 | 23 | 0 |
| V\$PAX6_02 | pax6 | 23 | 0 | V\$SATB1_Q3 | SATB1 | 1 | 2 | V\$OCT1_03 | octamer factor 1 | 23 | 0 |
| V\$PAX7_01 | Pax-7 | 23 | 0 | V\$SIRT6_01 | SIRT6 | 1 | 2 | V\$OCT2_01 | 2-Oct | 23 | 0 |
| V\$PAX8_01 | Pax-8 binding sites | 23 | 0 | V\$SOX9_B1 | SOX (SRY-related HMG box) | 1 | 2 | V\$OCT_Q6 | Octamer | 23 | 0 |
| V\$PBX1_01 | Pbx-1 | 23 | 0 | V\$DMRT1_01 | DMRT1 | 1 | 3 | V\$OCTAME_R_01 | Octamer | 23 | 0 |
| V\$PEA3_Q6 | PEA3 | 23 | 0 | V\$RORA1_01 | RAR-related orphan receptor alpha1 | 1 | 3 | V\$OG2_02 | OG-2 | 23 | 0 |
| V\$PIT1_01 | Pit-1 | 23 | 0 | V\$TITF1_Q3 | TTF-1, TITF1 (thyroid transcription factor 1) | 1 | 3 | V\$OTP_01 | OTP | 23 | 0 |
| V\$PITX1_01 | Pitx1 | 23 | 0 | MA0050.1 | IRF1 | 1 | 4 | V\$OTX1_01 | Otx1 | 23 | 0 |
| V\$PITX2_01 | PITX2 | 23 | 0 | V\$DMRT7_01 | DMRT7 | 1 | 4 | V\$OTX2_01 | Otx2 | 23 | 0 |
| V\$PITX3_01 | Pitx3 | 23 | 0 | V\$HMEF2_Q6 | myocyte enhancer factor | 1 | 4 | V\$OTX3_01 | Otx3 | 23 | 0 |
| V\$PKNOX2_01 | PKNOX2 | 23 | 0 | V\$IPF1_03 | A3 | 1 | 4 | V\$OTX_Q1 | OTX | 23 | 0 |
| V\$PMX2A_01 | PMX2A | 23 | 0 | V\$NKX22_01 | NK2 class homeobox factor 2 | 1 | 4 | V\$P53_03 | tumor suppressor p53 | 23 | 0 |
| V\$PMX2B_01 | PMX2B | 23 | 0 | MA0041.1 | Foxd3 | 1 | 5 | V\$PARP_Q3 | PARP | 23 | 0 |
| V\$POU2F3_01 | POU2F3 | 23 | 0 | V\$LHX3_01 | LIM homeobox transcription factor 3 | 1 | 5 | V\$PAX2_01 | Pax-2 | 23 | 0 |
| V\$POU6F1_02 | POU6F1 | 23 | 0 | MA0030.1 | FOXF2 | 1 | 6 | V\$PAX6_02 | pax6 | 23 | 0 |
| V\$PREP1_01 | PREP1 | 23 | 0 | V\$RSRFC4_Q2 | RSRFC4 | 1 | 6 | V\$PAX7_01 | Pax-7 | 23 | 0 |
| V\$PROP1_02 | Prop-1 | 23 | 0 | | | | | V\$PAX8_01 | Pax-8 binding sites | 23 | 0 |
| V\$PSX1_01 | PSX1 | 23 | 0 | | | | | V\$PBX1_01 | Pbx-1 | 23 | 0 |
| V\$PXRRXR_01 | RXR half-site | 23 | 0 | | | | | V\$PEA3_Q6 | PEA3 | 23 | 0 |
| V\$RAX_01 | rax | 23 | 0 | | | | | V\$PIT1_01 | Pit-1 | 23 | 0 |
| V\$RHGX11_01 | Rhox11 | 23 | 0 | | | | | V\$PITX1_01 | Pitx1 | 23 | 0 |
| V\$S8_02 | S8 | 23 | 0 | | | | | V\$PITX2_01 | PITX2 | 23 | 0 |
| V\$SATB1_01 | Consensus SATB1 Binding Sequence | 23 | 0 | | | | | V\$PITX3_01 | Pitx3 | 23 | 0 |

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|------------------|---|----|---|--|--|--|--------------|----------------------------------|----|---|
| V\$SHOX2_01 | Shox2 | 23 | 0 | | | | V\$PKNOX2_01 | PKNOX2 | 23 | 0 |
| V\$SIX1_01 | Six-1 | 23 | 0 | | | | V\$PMX2A_01 | PMX2A | 23 | 0 |
| V\$SIX2_01 | Six-2 | 23 | 0 | | | | V\$PMX2B_01 | PMX2B | 23 | 0 |
| V\$SIX3_01 | Six-3 | 23 | 0 | | | | V\$POU2F3_01 | POU2F3 | 23 | 0 |
| V\$SIX4_01 | six4 | 23 | 0 | | | | V\$POU6F1_02 | POU6F1 | 23 | 0 |
| V\$SIX6_01 | Six-6 | 23 | 0 | | | | V\$PREP1_01 | PREP1 | 23 | 0 |
| V\$SOX4_01 | SOX4 | 23 | 0 | | | | V\$PROP1_02 | Prop-1 | 23 | 0 |
| V\$SOX_Q6 | SOX | 23 | 0 | | | | V\$PSX1_01 | PSX1 | 23 | 0 |
| V\$SP1_02 | Sp1 b.s. | 23 | 0 | | | | V\$PXRXR_01 | RXR half-site | 23 | 0 |
| V\$SP1SP3_Q4 | SP1:SP3 | 23 | 0 | | | | V\$RAX_01 | rax | 23 | 0 |
| V\$SP2_01 | SP2 | 23 | 0 | | | | V\$RHOX11_01 | Rhox11 | 23 | 0 |
| V\$SP4_Q5 | SP4 | 23 | 0 | | | | V\$S8_02 | S8 | 23 | 0 |
| V\$SRY_01 | sex-determining region Y gene product | 23 | 0 | | | | V\$SATB1_01 | Consensus SATB1 Binding Sequence | 23 | 0 |
| V\$STAT1_02 | signal transducer and activator of transcription 1 | 23 | 0 | | | | V\$SHOX2_01 | Shox2 | 23 | 0 |
| V\$STAT1STAT1_Q3 | STAT1:STAT1 | 23 | 0 | | | | V\$SIX1_01 | Six-1 | 23 | 0 |
| V\$STAT3_02 | signal transducer and activator of transcription 3 | 23 | 0 | | | | V\$SIX2_01 | Six-2 | 23 | 0 |
| V\$STAT4_01 | signal transducer and activator of transcription 4 | 23 | 0 | | | | V\$SIX3_01 | Six-3 | 23 | 0 |
| V\$STAT5A_03 | signal transducer and activator of transcription 5a | 23 | 0 | | | | V\$SIX4_01 | six4 | 23 | 0 |
| V\$STAT6_01 | signal transducer and activator of transcription 6 | 23 | 0 | | | | V\$SIX6_01 | Six-6 | 23 | 0 |
| V\$TATA_01 | cellular and viral TATA box elements | 23 | 0 | | | | V\$SOX2_Q6 | SOX2 | 23 | 0 |
| V\$TCF4_01 | TCF-4 | 23 | 0 | | | | V\$SOX4_01 | SOX4 | 23 | 0 |
| V\$TEF_Q6 | TEF | 23 | 0 | | | | V\$SOX_Q6 | SOX | 23 | 0 |
| V\$TGIF2_01 | TGIF2 | 23 | 0 | | | | V\$SP1SP3_Q4 | SP1:SP3 | 23 | 0 |

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|------------------|---|----|---|--|--|----------------------|---|----|---|
| V\$TGIF_02 | TGIF1 | 23 | 0 | | | V\$SP2_01 | SP2 | 23 | 0 |
| V\$TST1_01 | POU-factor Tst-1/Oct-6 | 23 | 0 | | | V\$SP4_Q5 | SP4 | 23 | 0 |
| V\$UNCX4.1_01 | Uncx-4.1 | 23 | 0 | | | V\$STAT1_02 | signal transducer and activator of transcription 1 | 23 | 0 |
| V\$VAX1_01 | Vax-1 | 23 | 0 | | | V\$STAT1S TAT1_Q3 | STAT1:STAT1 | 23 | 0 |
| V\$VAX2_01 | Vax-2 | 23 | 0 | | | V\$STAT3_02 | signal transducer and activator of transcription 3 | 23 | 0 |
| V\$VSX1_01 | Vsx1 | 23 | 0 | | | V\$STAT4_01 | signal transducer and activator of transcription 4 | 23 | 0 |
| V\$ZFP206_01 | Zfp206 | 23 | 0 | | | V\$STAT5A_03 | signal transducer and activator of transcription 5a | 23 | 0 |
| MA0027.1 | En1 | 22 | 0 | | | V\$STAT6_01 | signal transducer and activator of transcription 6 | 23 | 0 |
| MA0050.1 | IRF1 | 22 | 0 | | | V\$TATA_01 | cellular and viral TATA box elements | 23 | 0 |
| MA0051.1 | IRF2 | 22 | 0 | | | V\$TCF4_01 | TCF-4 | 23 | 0 |
| MA0063.1 | Nkx2-5 | 22 | 0 | | | V\$TEF_Q6 | TEF | 23 | 0 |
| MA0076.1 | ELK4 | 22 | 0 | | | V\$TGIF2_01 | TGIF2 | 23 | 0 |
| MA0081.1 | SPIB | 22 | 0 | | | V\$TGIF_02 | TGIF1 | 23 | 0 |
| MA0113.1 | NR3C1 | 22 | 0 | | | V\$TST1_01 | POU-factor Tst-1/Oct-6 | 23 | 0 |
| MA0143.1 | Sox2 | 22 | 0 | | | V\$UNCX4.1_01 | Uncx-4.1 | 23 | 0 |
| MA0152.1 | NFATC2 | 22 | 0 | | | V\$VAX1_01 | Vax-1 | 23 | 0 |
| MA0156.1 | FEV | 22 | 0 | | | V\$VAX2_01 | Vax-2 | 23 | 0 |
| V\$ALPHACP1_01 | alpha-CP1 | 22 | 0 | | | V\$VSX1_01 | Vsx1 | 23 | 0 |
| V\$BLIMP1_Q6 | BLIMP1 | 22 | 0 | | | V\$ZFP206_01 | Zfp206 | 23 | 0 |
| V\$CREBATF_Q6 | CREB, ATF | 22 | 0 | | | MA0033.1 | FOXL1 | 22 | 0 |
| V\$CREBP1CJUN_01 | CRE-binding protein 1:c-Jun heterodimer | 22 | 0 | | | MA0050.1 | IRF1 | 22 | 0 |
| V\$DMRT7_01 | DMRT7 | 22 | 0 | | | MA0051.1 | IRF2 | 22 | 0 |
| V\$DRI1_01 | DRI1 b.s. | 22 | 0 | | | MA0080.2 | SPI1 | 22 | 0 |
| V\$EHF_01 | EHF | 22 | 0 | | | MA0081.1 | SPIB | 22 | 0 |
| V\$FOXJ2_02 | fork head box J 2 | 22 | 0 | | | MA0113.1 | NR3C1 | 22 | 0 |

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|-----------------|--|----|---|--|--|--|-----------------|-------------------------------------|----|---|
| V\$FOXO1_02 | fork head box O1 | 22 | 0 | | | | MA0143.1 | Sox2 | 22 | 0 |
| V\$FOXO3_01 | fork head box O3 | 22 | 0 | | | | MA0151.1 | ARID3A | 22 | 0 |
| V\$FOXO4_01 | fork head box O4 | 22 | 0 | | | | MA0152.1 | NFATC2 | 22 | 0 |
| V\$GAF_Q6 | GAF | 22 | 0 | | | | MA0158.1 | HOXA5 | 22 | 0 |
| V\$HNF3_Q6_01 | HNF3 | 22 | 0 | | | | V\$AFP1_Q6 | AFP1 | 22 | 0 |
| V\$HNF3B_01 | Hepatocyte Nuclear Factor 3beta | 22 | 0 | | | | V\$ALPHAC P1_01 | alpha-CP1 | 22 | 0 |
| V\$ICSBP_Q6 | ICSBP | 22 | 0 | | | | V\$BEN_01 | BEN | 22 | 0 |
| V\$IRF7_01 | interferon regulatory factor 7 | 22 | 0 | | | | V\$BLIMP1_Q6 | BLIMP1 | 22 | 0 |
| V\$NFAT1_Q6 | NFAT1 | 22 | 0 | | | | V\$CEBPB_01 | CCAAT/enhancer binding protein beta | 22 | 0 |
| V\$NFAT2_Q5 | NF-AT2 | 22 | 0 | | | | V\$CHCH_01 | Churchill | 22 | 0 |
| V\$NFAT3_Q3 | NFAT3 | 22 | 0 | | | | V\$CREBAT F_Q6 | CREB, ATF | 22 | 0 |
| V\$NFAT_Q4_01 | NF-AT | 22 | 0 | | | | V\$DMRT7_01 | DMRT7 | 22 | 0 |
| V\$NRF1_Q6 | nuclear respiratory factor 1 | 22 | 0 | | | | V\$E2F1DP2_01 | E2F-1:DP-2 heterodimer | 22 | 0 |
| V\$PU1_Q4 | PU.1 | 22 | 0 | | | | V\$E2F4DP2_01 | E2F-4:DP-2 heterodimer | 22 | 0 |
| V\$SIRT6_01 | SIRT6 | 22 | 0 | | | | V\$EGR_Q6 | Egr | 22 | 0 |
| V\$TR4_01 | TR4 | 22 | 0 | | | | V\$EHF_01 | EHF | 22 | 0 |
| V\$UF1H3BETA_Q6 | UF1H3BETA | 22 | 0 | | | | V\$ETS_Q6 | Ets | 22 | 0 |
| V\$YY1_01 | Yin and Yang 1 | 22 | 0 | | | | V\$FOXO3_01 | fork head box O3 | 22 | 0 |
| MA0033.1 | FOXL1 | 21 | 0 | | | | V\$GAF_Q6 | GAF | 22 | 0 |
| MA0046.1 | HNF1A | 21 | 0 | | | | V\$HFH1_01 | HNF-3/Fkh Homolog 1 | 22 | 0 |
| V\$ATF_B | ATF binding site | 21 | 0 | | | | V\$HNF3B_01 | Hepatocyte Nuclear Factor 3beta | 22 | 0 |
| V\$BRCA_01 | BRCA1 containing protein complex with USF2 | 21 | 0 | | | | V\$ICSBP_Q6 | ICSBP | 22 | 0 |
| V\$E2F1DP1_01 | E2F-1:DP-1 heterodimer | 21 | 0 | | | | V\$IRF7_01 | interferon regulatory factor 7 | 22 | 0 |
| V\$E2F1DP2_01 | E2F-1:DP-2 heterodimer | 21 | 0 | | | | V\$IRF_Q6 | IRF | 22 | 0 |
| V\$E2F4DP2_01 | E2F-4:DP-2 heterodimer | 21 | 0 | | | | V\$NFAT1_ | NFAT1 | 22 | 0 |

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|---------------------|---|----|---|--|--|--|------------------|--|----|---|
| 1 | | | | | | | Q6 | | | |
| V\$E2F_Q2 | E2F | 21 | 0 | | | | V\$NFAT2_Q5 | NF-AT2 | 22 | 0 |
| V\$EGR_Q6 | Egr | 21 | 0 | | | | V\$NFAT3_Q3 | NFAT3 | 22 | 0 |
| V\$FOXO3A_Q1 | FOXO3A | 21 | 0 | | | | V\$NRF1_Q6 | nuclear respiratory factor 1 | 22 | 0 |
| V\$FPM315_01 | Zinc finger protein FPM315 with KRAB and SCAN domains | 21 | 0 | | | | V\$OCT4_01 | Sox2-Oct4 joint motif, in silico predicted | 22 | 0 |
| V\$FREAC7_01 | Fork head RElated ACTivator-7 | 21 | 0 | | | | V\$POU1F1_Q6 | POU1F1 | 22 | 0 |
| V\$HBP1_Q2 | hbp1 | 21 | 0 | | | | V\$PU1_Q4 | PU.1 | 22 | 0 |
| V\$HELIOSA_02 | Helios A | 21 | 0 | | | | V\$RNF96_01 | RNF96 | 22 | 0 |
| V\$HNF6_Q6 | HNF6 | 21 | 0 | | | | V\$SAP1A_01 | SAP-1a | 22 | 0 |
| V\$HP1SITEFACTOR_Q6 | HP1 site factor | 21 | 0 | | | | V\$SIRT6_01 | SIRT6 | 22 | 0 |
| V\$IRF8_Q6 | IRF8 | 21 | 0 | | | | V\$STAT3STAT3_Q3 | STAT3:STAT3 | 22 | 0 |
| V\$ISRE_01 | interferon-stimulated response element | 21 | 0 | | | | V\$YY1_01 | Yin and Yang 1 | 22 | 0 |
| V\$NANOG_02 | Nanog | 21 | 0 | | | | V\$ZF5_01 | ZF5 | 22 | 0 |
| V\$OCT4_01 | Sox2-Oct4 joint motif, in silico predicted | 21 | 0 | | | | MA0046.1 | HNF1A | 21 | 0 |
| V\$OTX_Q1 | OTX | 21 | 0 | | | | V\$ATF_B | ATF binding site | 21 | 0 |
| V\$POU1F1_Q6 | POU1F1 | 21 | 0 | | | | V\$CTCF_01 | CTCF | 21 | 0 |
| V\$STAT3STAT3_Q3 | STAT3:STAT3 | 21 | 0 | | | | V\$E2F1DP1RB_01 | Rb:E2F-1:DP-1 trimeric complex | 21 | 0 |
| V\$STAT_Q6 | STAT | 21 | 0 | | | | V\$E2F4DP1_01 | E2F-4:DP-1 heterodimer | 21 | 0 |
| V\$ZFP281_01 | Zfp281 | 21 | 0 | | | | V\$EFC_Q6 | RFX1 (EF-C) | 21 | 0 |
| MA0038.1 | Gfi | 20 | 0 | | | | V\$FREAC2_01 | Fork head RElated ACTivator-2 | 21 | 0 |
| I\$ANTP_Q6_01 | Antp | 20 | 0 | | | | V\$FREAC7_01 | Fork head RElated ACTivator-7 | 21 | 0 |
| V\$AFP1_Q6 | AFP1 | 20 | 0 | | | | V\$GATA4_Q3 | GATA-4 | 21 | 0 |
| V\$AREB6_04 | AREB6 (Atp1a1 regulatory element binding factor 6) | 20 | 0 | | | | V\$HNF6_Q6 | HNF6 | 21 | 0 |

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|----------------|-------------------------------|----|---|--|--|-----------------|--|----|---|
| V\$ESE1_Q3 | ESE1 | 20 | 0 | | | V\$ISRE_01 | interferon-stimulated response element | 21 | 0 |
| V\$FAC1_01 | fetal Alz-50 clone 1 | 20 | 0 | | | V\$POU5F1_01 | POU5F1 b.s. | 21 | 0 |
| V\$FREAC2_01 | Fork head RElated ACTivator-2 | 20 | 0 | | | V\$PTF1BETA_Q6 | PTF1-beta | 21 | 0 |
| V\$GATA3_Q3 | GATA-binding factor 3 | 20 | 0 | | | V\$STAT_Q6 | STAT | 21 | 0 |
| V\$GATA4_Q3 | GATA-4 | 20 | 0 | | | V\$TEL2_Q6 | Tel-2 | 21 | 0 |
| V\$GFI1_01 | growth factor independence 1 | 20 | 0 | | | V\$TFIIA_Q6 | TFIIA | 21 | 0 |
| V\$GKLF_02 | GKLF (KLF4) | 20 | 0 | | | MA0038.1 | Gfi | 20 | 0 |
| V\$HFH1_01 | HNF-3/Fkh Homolog 1 | 20 | 0 | | | I\$ANTP_Q6_01 | Antp | 20 | 0 |
| V\$POU5F1_01 | POU5F1 b.s. | 20 | 0 | | | V\$AIRE_01 | AIRE | 20 | 0 |
| V\$PTF1BETA_Q6 | PTF1-beta | 20 | 0 | | | V\$ATF1_Q6 | ATF1 | 20 | 0 |
| V\$TEL2_Q6 | Tel-2 | 20 | 0 | | | V\$CREBP1_Q2 | CRE-binding protein 1 | 20 | 0 |
| V\$TFIIA_Q6 | TFIIA | 20 | 0 | | | V\$ETS2_Q6 | ETS2 | 20 | 0 |
| MA0040.1 | Foxq1 | 19 | 0 | | | V\$FAC1_01 | fetal Alz-50 clone 1 | 20 | 0 |
| MA0158.1 | HOXA5 | 19 | 0 | | | V\$GATA3_Q3 | GATA-binding factor 3 | 20 | 0 |
| V\$AIRE_01 | AIRE | 19 | 0 | | | V\$MRF2_01 | modulator recognition factor 2 | 20 | 0 |
| V\$CREBP1_Q2 | CRE-binding protein 1 | 19 | 0 | | | V\$SOX9_B1 | SOX (SRY-related HMG box) | 20 | 0 |
| V\$GR_Q6 | glucocorticoid receptor | 19 | 0 | | | V\$UF1H3BETA_Q6 | UF1H3BETA | 20 | 0 |
| V\$POU3F2_02 | POU3F2 | 19 | 0 | | | MA0018.2 | CREB1 | 19 | 0 |
| V\$SAP1A_01 | SAP-1a | 19 | 0 | | | MA0040.1 | Foxq1 | 19 | 0 |
| V\$TAL1_01 | Tal-1 (Sci) | 19 | 0 | | | MA0087.1 | Sox5 | 19 | 0 |
| MA0018.2 | CREB1 | 18 | 0 | | | V\$AREB6_Q4 | AREB6 (Atp1a1 regulatory element binding factor 6) | 19 | 0 |
| MA0030.1 | FOXF2 | 18 | 0 | | | V\$ATF3_Q6 | activating transcription factor 3 | 19 | 0 |
| MA0031.1 | FOXD1 | 18 | 0 | | | V\$GATA_C | GATA binding site | 19 | 0 |
| MA0135.1 | Lhx3 | 18 | 0 | | | V\$GFI1_01 | growth factor independence 1 | 19 | 0 |

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|-----------------|--|----|---|--|--|--|-----------------|--|----|---|
| MA0142.1 | Pou5f1 | 18 | 0 | | | | V\$HNF3ALPHA_Q6 | HNF3alpha | 19 | 0 |
| V\$ATF1_Q6 | ATF1 | 18 | 0 | | | | V\$IRF8_Q6 | IRF8 | 19 | 0 |
| V\$ATF3_Q6 | activating transcription factor 3 | 18 | 0 | | | | V\$ISL1_Q6 | ISL1 | 19 | 0 |
| V\$CIZ_01 | CIZ (Cas-associated zinc finger protein) | 18 | 0 | | | | V\$TR4_01 | TR4 | 19 | 0 |
| V\$E2F1DP1RB_01 | Rb:E2F-1:DP-1 trimeric complex | 18 | 0 | | | | V\$ZFP281_01 | Zfp281 | 19 | 0 |
| V\$HNF3ALPHA_Q6 | HNF3alpha | 18 | 0 | | | | V\$TFEB_01 | TFEB | 19 | 1 |
| V\$KLF15_Q2 | KLF15 | 18 | 0 | | | | MA0030.1 | FOXF2 | 18 | 0 |
| V\$RNF96_01 | RNF96 | 18 | 0 | | | | MA0031.1 | FOXD1 | 18 | 0 |
| V\$SMAD1_01 | SMAD1 | 18 | 0 | | | | MA0075.1 | Prrx2 | 18 | 0 |
| V\$SOX9_B1 | SOX (SRY-related HMG box) | 18 | 0 | | | | MA0125.1 | Nobox | 18 | 0 |
| V\$TFEB_01 | TFEB | 18 | 0 | | | | MA0135.1 | Lhx3 | 18 | 0 |
| MA0101.1 | REL | 17 | 0 | | | | V\$FOXD3_01 | fork head box D3 | 18 | 0 |
| MA0144.1 | Stat3 | 17 | 0 | | | | V\$FREAC3_01 | Fork head RElated ACTivator-3 | 18 | 0 |
| V\$AR_Q2 | androgen receptor | 17 | 0 | | | | V\$HSF2_01 | heat shock factor 2 | 18 | 0 |
| V\$E2F4DP1_01 | E2F-4:DP-1 heterodimer | 17 | 0 | | | | V\$HSF_Q6 | HSF | 18 | 0 |
| V\$EAR2_Q2 | EAR2 | 17 | 0 | | | | V\$POU3F2_02 | POU3F2 | 18 | 0 |
| V\$FOX_Q2 | FOX factors | 17 | 0 | | | | V\$SMAD1_01 | SMAD1 | 18 | 0 |
| V\$FREAC3_01 | Fork head RElated ACTivator-3 | 17 | 0 | | | | V\$STAF_01 | Se-Cys tRNA gene transcription activating factor | 18 | 0 |
| V\$GATA_C | GATA binding site | 17 | 0 | | | | V\$ZNF333_01 | ZNF333 | 18 | 0 |
| V\$HSF1_01 | heat shock factor 1 | 17 | 0 | | | | MA0142.1 | Pou5f1 | 17 | 0 |
| V\$HSF2_01 | heat shock factor 2 | 17 | 0 | | | | V\$AR_Q2 | androgen receptor | 17 | 0 |
| V\$HSF_Q6 | HSF | 17 | 0 | | | | V\$CIZ_01 | CIZ (Cas-associated zinc finger protein) | 17 | 0 |
| V\$NERF_Q2 | new ets-related factor 1a | 17 | 0 | | | | V\$DMRT4_01 | DMRT4 | 17 | 0 |
| V\$FOXD3_01 | fork head box D3 | 17 | 1 | | | | V\$ESE1_Q3 | ESE1 | 17 | 0 |
| V\$ATF5_01 | ATF5 binding site | 16 | 0 | | | | V\$GR_Q6 | glucocorticoid receptor | 17 | 0 |

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|---------------|---|----|---|--|--|--|-----------------|--|----|---|
| V\$CEBPE_01 | cebpe | 16 | 0 | | | | MA0109.1 | Hltf | 16 | 0 |
| V\$DMRT4_01 | DMRT4 | 16 | 0 | | | | V\$CEBPDELTA_Q6 | C/EBPdelta | 16 | 0 |
| V\$HMEF2_Q6 | myocyte enhancer factor | 16 | 0 | | | | V\$FOX_Q2 | FOX factors | 16 | 0 |
| V\$NFKB_Q6_01 | NF-kappaB | 16 | 0 | | | | V\$FPM315_01 | Zinc finger protein FPM315 with KRAB and SCAN domains | 16 | 0 |
| V\$SOX5_01 | Sox-5 | 16 | 0 | | | | V\$HNF8_01 | HNF-3/Fkh Homolog-8 | 16 | 0 |
| V\$WT1_Q6 | WT1 | 16 | 0 | | | | V\$HSF1_01 | heat shock factor 1 | 16 | 0 |
| MA0056.1 | MZF1_1-4 | 15 | 0 | | | | V\$Ikaros_01 | Ikaros 1 | 16 | 0 |
| MA0125.1 | Nobox | 15 | 0 | | | | V\$RUSH1A_02 | RUSH-1alpha | 16 | 0 |
| V\$CREL_01 | c-Rel | 15 | 0 | | | | V\$CEBPE_01 | cebpe | 15 | 0 |
| V\$Ikaros_01 | Ikaros 1 | 15 | 0 | | | | V\$FOXM1_01 | FOXM1 | 15 | 0 |
| V\$MRF2_01 | modulator recognition factor 2 | 15 | 0 | | | | V\$GATA1_05 | GATA-binding factor 1 | 15 | 0 |
| V\$ZNF333_01 | ZNF333 | 15 | 0 | | | | V\$HMEF2_Q6 | myocyte enhancer factor | 15 | 0 |
| V\$AP1_Q6 | activator protein 1 | 14 | 0 | | | | V\$HNF4_01 | hepatic nuclear factor 4 | 15 | 0 |
| V\$EFC_Q6 | RFX1 (EF-C) | 14 | 0 | | | | V\$STRA13_01 | Stra13 | 15 | 0 |
| V\$FRA1_Q5 | FRA1 | 14 | 0 | | | | V\$ZABC1_01 | ZABC1 b.s. | 15 | 0 |
| V\$HNF4_01 | hepatic nuclear factor 4 | 14 | 0 | | | | MA0041.1 | Foxd3 | 15 | 1 |
| V\$MZF1_01 | MZF1 | 14 | 0 | | | | MA0101.1 | REL | 14 | 0 |
| V\$PLZF_02 | PLZF | 14 | 0 | | | | MA0144.1 | Stat3 | 14 | 0 |
| V\$RSRFC4_01 | related to serum response factor, C4 | 14 | 0 | | | | V\$EAR2_Q2 | EAR2 | 14 | 0 |
| V\$STAF_01 | Se-Cys tRNA gene transcription activating factor | 14 | 0 | | | | V\$PLZF_02 | PLZF | 14 | 0 |
| V\$STAT5B_01 | signal transducer and activator of transcription 5b | 14 | 0 | | | | V\$RFX1_02 | X-box binding protein RFX1 | 14 | 0 |
| V\$STRA13_01 | Stra13 | 14 | 0 | | | | V\$RSRFC4_01 | related to serum response factor, C4 | 14 | 0 |
| V\$ZF5_01 | ZF5 | 14 | 0 | | | | V\$TAL1_01 | Tal-1 (Scf) | 14 | 0 |
| MA0014.1 | Pax5 | 13 | 0 | | | | V\$VBP_01 | PAR-type chicken vitellogenin promoter-binding protein | 14 | 0 |

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|------------------|--|----|---|--|--|--|-----------------|---|----|---|
| MA0107.1 | RELA | 13 | 0 | | | | MA0014.1 | Pax5 | 13 | 0 |
| V\$HFH8_01 | HNF-3/Fkh Homolog-8 | 13 | 0 | | | | MA0025.1 | NFIL3 | 13 | 0 |
| V\$ISL1_Q6 | ISL1 | 13 | 0 | | | | MA0093.1 | USF1 | 13 | 0 |
| V\$RFX1_02 | X-box binding protein RFX1 | 13 | 0 | | | | V\$FOXJ3_01 | foxj3 | 13 | 0 |
| V\$ZABC1_01 | ZABC1 b.s. | 13 | 0 | | | | V\$HNF4ALPHA_Q6 | HNF4alpha | 13 | 0 |
| MA0041.1 | Foxd3 | 13 | 1 | | | | V\$MECP2_02 | MECP2 b.s. | 13 | 0 |
| V\$TCF3_01 | TCF-3 | 13 | 2 | | | | V\$USF_01 | upstream stimulating factor | 13 | 0 |
| MA0087.1 | Sox5 | 12 | 0 | | | | V\$TCF3_01 | TCF-3 | 13 | 2 |
| MA0109.1 | Hltf | 12 | 0 | | | | MA0004.1 | Arnt | 12 | 0 |
| V\$AP1FJ_Q2 | activator protein 1 | 12 | 0 | | | | MA0043.1 | HLF | 12 | 0 |
| V\$CEBPDELTA_Q6 | C/EBPdelta | 12 | 0 | | | | MA0124.1 | NKX3-1 | 12 | 0 |
| V\$FOXJ3_01 | foxj3 | 12 | 0 | | | | V\$ATF5_01 | ATF5 binding site | 12 | 0 |
| V\$FOXM1_01 | FOXM1 | 12 | 0 | | | | V\$CREL_01 | c-Rel | 12 | 0 |
| V\$NFKAPPAB65_01 | NF-kappaB (p65) | 12 | 0 | | | | V\$RFX3_01 | RFX3 dimer | 12 | 0 |
| V\$RUSH1A_02 | RUSH-1alpha | 12 | 0 | | | | V\$TCF11_01 | TCF11/KCR-F1/Nrf1 homodimers | 12 | 0 |
| MA0075.1 | Prrx2 | 12 | 1 | | | | MA0042.1 | FOXI1 | 11 | 0 |
| MA0052.1 | MEF2A | 11 | 0 | | | | MA0058.1 | MAX | 11 | 0 |
| V\$LBP1_Q6 | LBP-1 | 11 | 0 | | | | MA0162.1 | Egr1 | 11 | 0 |
| V\$LEF1_Q2_01 | LEF1 | 11 | 0 | | | | V\$AP2GAMMA_01 | AP-2gamma | 11 | 0 |
| V\$NF1_Q6_01 | NF-1 | 11 | 0 | | | | V\$E4BP4_01 | E4BP4 | 11 | 0 |
| V\$RFX3_01 | RFX3 dimer | 11 | 0 | | | | V\$HNF3A_01 | FOXA1 | 11 | 0 |
| V\$SRF_Q5_02 | SRF | 11 | 0 | | | | V\$KLF15_Q2 | KLF15 | 11 | 0 |
| V\$VBP_01 | PAR-type chicken vitellogenin promoter-binding protein | 11 | 0 | | | | V\$STAT5B_01 | signal transducer and activator of transcription 5b | 11 | 0 |
| MA0025.1 | NFIL3 | 10 | 0 | | | | V\$WHN_B | winged-helix factor nude | 11 | 0 |
| MA0148.1 | FOXA1 | 10 | 0 | | | | MA0052.1 | MEF2A | 10 | 0 |

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|------------------|---|----|---|--|--|--|-------------------|---|----|---|
| V\$DMRT2_01 | DMRT2 | 10 | 0 | | | | V\$DMRT2_01 | DMRT2 | 10 | 0 |
| V\$GATA1_05 | GATA-binding factor 1 | 10 | 0 | | | | V\$LEF1_Q2_01 | LEF1 | 10 | 0 |
| V\$HNF3A_01 | FOXA1 | 10 | 0 | | | | V\$NERF_Q2 | new ets-related factor 1a | 10 | 0 |
| V\$HNF4ALPHA_Q6 | HNF4alpha | 10 | 0 | | | | V\$NFKB_Q6_01 | NF-kappaB | 10 | 0 |
| V\$HTF_01 | HTF | 10 | 0 | | | | V\$RBPJK_01 | RBP-Jkappa | 10 | 0 |
| V\$MAZR_01 | MAZ related factor | 10 | 0 | | | | MA0107.1 | RELA | 9 | 0 |
| V\$PR_01 | high affinity binding sites for progesterone receptor | 10 | 0 | | | | MA0148.1 | FOXA1 | 9 | 0 |
| V\$TCF11_01 | TCF11/KCR-F1/Nrf1 homodimers | 10 | 0 | | | | V\$E4F1_Q6 | E4F1 | 9 | 0 |
| V\$USF_01 | upstream stimulating factor | 10 | 0 | | | | V\$HTF_01 | HTF | 9 | 0 |
| MA0004.1 | Arnt | 9 | 0 | | | | V\$NF1_Q6_01 | NF-1 | 9 | 0 |
| MA0042.1 | FOX11 | 9 | 0 | | | | V\$NFKAPP_AB65_01 | NF-kappaB (p65) | 9 | 0 |
| MA0140.1 | Tal1::Gata1 | 9 | 0 | | | | V\$PR_01 | high affinity binding sites for progesterone receptor | 9 | 0 |
| V\$AP2GAMMA_A_01 | AP-2gamma | 9 | 0 | | | | MA0132.1 | Pdx1 | 9 | 1 |
| V\$E4BP4_01 | E4BP4 | 9 | 0 | | | | MA0006.1 | Arnt::Ahr | 8 | 0 |
| V\$HLF_01 | hepatic leukemia factor | 9 | 0 | | | | MA0047.2 | Foxa2 | 8 | 0 |
| V\$RBPJK_Q4 | RBP-Jkappa | 9 | 0 | | | | MA0140.1 | Tal1::Gata1 | 8 | 0 |
| MA0055.1 | Myf | 8 | 0 | | | | MA0164.1 | Nr2e3 | 8 | 0 |
| MA0093.1 | USF1 | 8 | 0 | | | | V\$DMRT5_01 | DMRT5 | 8 | 0 |
| V\$CHX10_01 | CHX10 | 8 | 0 | | | | V\$GATA6_01 | GATA-6 | 8 | 0 |
| V\$NEUROD_02 | NeuroD | 8 | 0 | | | | V\$MYB_Q5_01 | MYB | 8 | 0 |
| V\$PAX3_B | Pax-3 binding sites | 8 | 0 | | | | V\$REX1_03 | REX1 | 8 | 0 |
| MA0003.1 | TFAP2A | 7 | 0 | | | | MA0029.1 | Evi1 | 7 | 0 |
| MA0029.1 | Evi1 | 7 | 0 | | | | MA0056.1 | MZF1_1-4 | 7 | 0 |
| MA0047.2 | Foxa2 | 7 | 0 | | | | MA0088.1 | znf143 | 7 | 0 |
| MA0057.1 | MZF1_5-13 | 7 | 0 | | | | V\$GATA2_Q2 | GATA-binding factor 2 | 7 | 0 |

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|---------------------|----------------------------------|---|---|--|--|--------------------|--|---|---|
| MA0088.1 | znf143 | 7 | 0 | | | V\$PAX3_B | Pax-3 binding sites | 7 | 0 |
| MA0162.1 | Egr1 | 7 | 0 | | | V\$ZFX_01 | Zfx | 7 | 0 |
| V\$AP2ALPHA_01 | AP-2alpha | 7 | 0 | | | V\$WT1_Q6 | WT1 | 7 | 1 |
| V\$GATA2_02 | GATA-binding factor 2 | 7 | 0 | | | MA0003.1 | TFAP2A | 6 | 0 |
| V\$MAF_Q6 | MAF | 7 | 0 | | | V\$AP2ALPHA_01 | AP-2alpha | 6 | 0 |
| V\$MECP2_02 | MECP2 b.s. | 7 | 0 | | | V\$CHX10_01 | CHX10 | 6 | 0 |
| V\$P50RELAP65_Q5_01 | P50:RELA-P65 | 7 | 0 | | | V\$LEF1TCF1_Q4 | LEF1, TCF1 | 6 | 0 |
| MA0061.1 | NF-kappaB | 6 | 0 | | | V\$MEIS1B_HOXA9_02 | Meis-1b:HOXA9 heterodimeric binding | 6 | 0 |
| V\$DMRT5_01 | DMRT5 | 6 | 0 | | | V\$MZF1_01 | MZF1 | 6 | 0 |
| V\$EBF_Q6 | EBF | 6 | 0 | | | V\$SRF_03 | SRF b.s. | 6 | 0 |
| V\$HFH3_01 | HFH-3 (HNF3/fork head homolog 3) | 6 | 0 | | | F\$AMT1_Q2 | AMT1 | 5 | 0 |
| V\$MIF1_01 | MIBP-1 / RFX1 complex | 6 | 0 | | | V\$DMRT3_01 | DMRT3 | 5 | 0 |
| V\$NFE2_01 | NF-E2 p45 | 6 | 0 | | | V\$FREAC4_01 | Fork head RElated ACTivator-4 | 5 | 0 |
| V\$RELBP52_01 | kappaB site | 6 | 0 | | | V\$MAF_Q6 | MAF | 5 | 0 |
| V\$WHN_B | winged-helix factor nude | 6 | 0 | | | V\$MAZR_01 | MAZ related factor | 5 | 0 |
| V\$ZNF219_01 | ZNF219 | 6 | 0 | | | V\$MEIS1A_HOXA9_01 | Meis-1a:HOXA9 heterodimeric binding | 5 | 0 |
| MA0006.1 | Arnt::Ahr | 5 | 0 | | | V\$NFMUE1_Q6 | NF-muE1 | 5 | 0 |
| MA0058.1 | MAX | 5 | 0 | | | V\$TTF1_Q3 | TTF-1, TTF1 (thyroid transcription factor 1) | 5 | 0 |
| MA0114.1 | HNF4A | 5 | 0 | | | MA0061.1 | NF-kappaB | 4 | 0 |
| MA0164.1 | Nr2e3 | 5 | 0 | | | MA0067.1 | Pax2 | 4 | 0 |
| F\$AMT1_Q2 | AMT1 | 5 | 0 | | | V\$AP1_Q2 | activator protein 1 | 4 | 0 |
| V\$DMRT3_01 | DMRT3 | 5 | 0 | | | V\$CLOCKB_MAL_Q6 | CLOCK:BMAL | 4 | 0 |
| V\$E4F1_Q6 | E4F1 | 5 | 0 | | | V\$DAX1_01 | Dax1 | 4 | 0 |
| V\$FREAC4_01 | Fork head RElated ACTivator-4 | 5 | 0 | | | V\$HFH3_01 | HFH-3 (HNF3/fork head homolog 3) | 4 | 0 |
| V\$LEF1TCF1_ | LEF1, TCF1 | 5 | 0 | | | V\$MIF1_01 | MIBP-1 / RFX1 complex | 4 | 0 |

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|-------------------------|-------------------------------------|---|---|--|--|--|--|------------------|-------------------------------------|---|---|--|--|
| Q4 | | | | | | | | | | | | | |
| V\$MEIS1AHOXA9_01 | Meis-1a:HOXA9 heterodimeric binding | 5 | 0 | | | | | V\$MIZF_01 | MIZF | 4 | 0 | | |
| V\$NFKAPPAB_01 | NF-kappaB | 5 | 0 | | | | | V\$NFKAPPAB_01 | NF-kappaB | 4 | 0 | | |
| V\$PBX_Q3 | Pbx | 5 | 0 | | | | | V\$NRSE_B | neural-restrictive-silencer-element | 4 | 0 | | |
| V\$REX1_03 | REX1 | 5 | 0 | | | | | V\$PBX_Q3 | Pbx | 4 | 0 | | |
| MA0035.2 | Gata1 | 4 | 0 | | | | | V\$RELB5_2_01 | kappaB site | 4 | 0 | | |
| MA0065.2 | PPARG::RXRA | 4 | 0 | | | | | V\$HMG2_01 | HMGA2 binding site | 4 | 0 | | |
| V\$DAX1_01 | Dax1 | 4 | 0 | | | | | V\$LBP1_Q6 | LBP-1 | 4 | 1 | | |
| V\$GATA6_01 | GATA-6 | 4 | 0 | | | | | MA0017.1 | NR2F1 | 3 | 0 | | |
| V\$MIZF_01 | MIZF | 4 | 0 | | | | | MA0069.1 | Pax6 | 3 | 0 | | |
| V\$MYCMA_X_03 | c-Myc:Max heterodimer | 4 | 0 | | | | | MA0104.2 | Mycn | 3 | 0 | | |
| V\$NRSE_B | neural-restrictive-silencer-element | 4 | 0 | | | | | MA0138.2 | REST | 3 | 0 | | |
| V\$P50P50_Q3 | P50:P50 | 4 | 0 | | | | | V\$AP1F_Q2 | activator protein 1 | 3 | 0 | | |
| V\$TFII_Q6 | TFII-I | 4 | 1 | | | | | V\$COUP_01 | COUP-TF, HNF-4 | 3 | 0 | | |
| MA0132.1 | Pdx1 | 4 | 2 | | | | | V\$DEAF1_01 | DEAF1 | 3 | 0 | | |
| V\$CACBINDINGPROTEIN_Q6 | CAC-binding protein | 4 | 4 | | | | | V\$EBF_Q6 | EBF | 3 | 0 | | |
| MA0017.1 | NR2F1 | 3 | 0 | | | | | V\$MYCMA_X_01 | c-Myc:Max heterodimer | 3 | 0 | | |
| MA0069.1 | Pax6 | 3 | 0 | | | | | V\$PNR_01 | PNR | 3 | 0 | | |
| MA0104.2 | Mycn | 3 | 0 | | | | | V\$SOX17_01 | half-site | 3 | 0 | | |
| MA0124.1 | NKX3-1 | 3 | 0 | | | | | V\$TCF11M_AFG_01 | TCF11:MafG heterodimers | 3 | 0 | | |
| V\$COUP_01 | COUP-TF, HNF-4 | 3 | 0 | | | | | V\$XBP1_01 | X-box-binding protein 1 | 3 | 0 | | |
| V\$DR1_Q3 | Direct repeat 1 | 3 | 0 | | | | | MA0048.1 | NHLH1 | 2 | 0 | | |
| V\$GFI1B_01 | Gfi1b | 3 | 0 | | | | | MA0057.1 | MZF1_5-13 | 2 | 0 | | |
| V\$LTF_Q6 | LTF | 3 | 0 | | | | | MA0059.1 | MYC::MAX | 2 | 0 | | |

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|-------------------|--|---|--------|--|--|----------------------|--|---|---|
| V\$MOVOB_01 | MOVO-B | 3 | 0 | | | MA0114.1 | HNF4A | 2 | 0 |
| V\$MYB_Q5_01 | MYB | 3 | 0 | | | MA0115.1 | NR1H2::RXRA | 2 | 0 |
| V\$NFMUE1_Q6 | NF-muE1 | 3 | 0 | | | V\$AP3_Q6 | AP-3 | 2 | 0 |
| V\$NRSF_01 | neuron-restrictive silencer factor | 3 | 0 | | | V\$ATF6_01 | activating transcription factor 6 | 2 | 0 |
| V\$PXR_Q2 | half-site matrix | 3 | 0 | | | V\$CDPCR3_01 | cut-like homeodomain protein | 2 | 0 |
| V\$TTF1_Q3 | TTF-1, TTF1 (thyroid transcription factor 1) | 3 | 0 | | | V\$DR3_Q4 | direct repeat 3 | 2 | 0 |
| V\$ZBED6_01 | ZBED6 | 3 | 0 | | | V\$EGR2_01 | Egr-2/Krox-20 early growth response gene product | 2 | 0 |
| V\$SMAD3_Q6 | SMAD3 | 3 | 1 | | | V\$FOXP1_01 | FOXP1 | 2 | 0 |
| V\$P300_01 | p300 | 3 | 2 | | | V\$GFI1B_01 | Gfi1b | 2 | 0 |
| V\$RPC155_01 | RPC155 | 3 | 1 6 | | | V\$LTF_Q6 | LTF | 2 | 0 |
| MA0067.1 | Pax2 | 2 | 0 | | | V\$MYOGN_F1_01 | myogenin / nuclear factor 1 or related factors | 2 | 0 |
| MA0078.1 | Sox17 | 2 | 0 | | | V\$NGFIC_01 | nerve growth factor-induced protein C | 2 | 0 |
| MA0115.1 | NR1H2::RXRA | 2 | 0 | | | V\$NRSF_01 | neuron-restrictive silencer factor | 2 | 0 |
| V\$CLOCKBMAL_Q6 | CLOCK:BMAL | 2 | 0 | | | V\$OLF1_01 | olfactory neuron-specific factor | 2 | 0 |
| V\$DR3_Q4 | direct repeat 3 | 2 | 0 | | | V\$P50REL_AP65_Q5_01 | P50:RELA-P65 | 2 | 0 |
| V\$EGR3_01 | early growth response gene 3 product | 2 | 0 | | | V\$PPAR_DR1_Q2 | PPAR direct repeat 1 | 2 | 0 |
| V\$FOXP1_01 | FOXP1 | 2 | 0 | | | V\$PPARA_01 | PPAR:RXR heterodimers | 2 | 0 |
| V\$FXR_IR1_Q6 | FXR inverted repeat 1 | 2 | 0 | | | V\$TAXCREB_02 | Tax/CREB complex | 2 | 0 |
| V\$HEN1_02 | HEN1 | 2 | 0 | | | V\$TBX18_01 | T-box 18 | 2 | 0 |
| V\$HFH4_01 | HFH4 (FOXJ1) | 2 | 0 | | | V\$ZNF219_01 | ZNF219 | 2 | 0 |
| V\$IK3_01 | Ikaros 3 | 2 | 0 | | | V\$P300_01 | p300 | 2 | 3 |
| V\$MEIS1BHOXA9_02 | Meis-1b:HOXA9 heterodimeric binding | 2 | 0 | | | MA0007.1 | Ar | 1 | 0 |
| V\$MYOGNF1 | myogenin / nuclear factor 1 | 2 | 0 | | | MA0035.2 | Gata1 | 1 | 0 |

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|-----------------|--|---|---|---|--|--|--|------------------|---|---|---|
| _01 | or related factors | | | | | | | | | | |
| V\$NGFIC_01 | nerve growth factor-induced protein C | 2 | 0 | | | | | MA0078.1 | Sox17 | 1 | 0 |
| V\$OLF1_01 | olfactory neuron-specific factor | 2 | 0 | | | | | MA0116.1 | Zfp423 | 1 | 0 |
| V\$REST_01 | NRSF, neuron-restrictive silencer factor | 2 | 0 | | | | | MA0147.1 | Myc | 1 | 0 |
| V\$SP3_Q3 | Sp3 | 2 | 0 | | | | | V\$ATF4_Q2 | activating transcription factor 4 | 1 | 0 |
| V\$TBX15_02 | T-box 15 | 2 | 0 | | | | | V\$CDPCR3HD_01 | cut-like homeodomain protein | 1 | 0 |
| V\$TCF11MAFG_01 | TCF11:MafG heterodimers | 2 | 0 | | | | | V\$DMRT1_01 | DMRT1 | 1 | 0 |
| V\$ZFX_01 | Zfx | 2 | 0 | | | | | V\$DR1_Q3 | Direct repeat 1 | 1 | 0 |
| V\$BACH1_01 | BTB and CNC homolog 1 | 2 | 1 | | | | | V\$EGR3_01 | early growth response gene 3 product | 1 | 0 |
| V\$BACH2_01 | BTB and CNC homolog 2 | 2 | 1 | | | | | V\$FXR_IR1_Q6 | FXR inverted repeat 1 | 1 | 0 |
| V\$CACD_01 | CACD | 2 | 2 | | | | | V\$GCNF_01 | GCNF (germ cell nuclear factor) | 1 | 0 |
| V\$LYF1_01 | LyF-1 | 2 | 2 | 0 | | | | V\$GRE_C | Glucocorticoid response element | 1 | 0 |
| V\$IK_Q5 | Ikaros | 2 | 2 | 1 | | | | V\$GZF1_01 | plays a role in renal branching morphogenesis | 1 | 0 |
| MA0007.1 | Ar | 1 | 0 | | | | | V\$HAND1E47_01 | Hand1:E47 heterodimer | 1 | 0 |
| MA0048.1 | NHLH1 | 1 | 0 | | | | | V\$HEN1_02 | HEN1 | 1 | 0 |
| MA0059.1 | MYC::MAX | 1 | 0 | | | | | V\$HFH4_01 | HFH4 (FOXJ1) | 1 | 0 |
| MA0117.1 | Mafb | 1 | 0 | | | | | V\$IK3_01 | Ikaros 3 | 1 | 0 |
| MA0154.1 | EBF1 | 1 | 0 | | | | | V\$NEUROD_02 | NeuroD | 1 | 0 |
| MA0159.1 | RXR::RAR_DR5 | 1 | 0 | | | | | V\$NFE2_01 | NF-E2 p45 | 1 | 0 |
| V\$AP3_Q6 | AP-3 | 1 | 0 | | | | | V\$NFKAPPAB50_01 | NF-kappaB (p50) | 1 | 0 |
| V\$ATF4_Q2 | activating transcription factor 4 | 1 | 0 | | | | | V\$NMYC_01 | N-Myc | 1 | 0 |
| V\$ATF6_01 | activating transcription factor 6 | 1 | 0 | | | | | V\$NUR77_Q5 | NUR77 | 1 | 0 |
| V\$DEAF1_01 | DEAF1 | 1 | 0 | | | | | V\$P50P50_Q3 | P50:P50 | 1 | 0 |
| V\$GRE_C | Glucocorticoid response | 1 | 0 | | | | | V\$PAX1_B | Pax-1 binding sites | 1 | 0 |

Supplementary Table V. Clover results indicate the number of chromosomes with transcription factor binding motifs statistically over-represented in REP DHS within intergenic sequence (more than 2kb outside of any gene). Analysis was divided into three groups (all DHS, REP-selective DHS, and ubiquitous DHS). Motifs with more than one entry in the databases utilized were edited to retain only the first occurrence of the motif.

| All DHS x Intergenic | | | | REP-selective DHS x Intergenic | | | | Ubiquitous DHS x Intergenic | | | |
|----------------------|-------------------------|----------|----------|--------------------------------|---|----------|----------|-----------------------------|-------------------------|----------|----------|
| ID | Name | p < 0.01 | p > 0.99 | ID | Name | p < 0.01 | p > 0.99 | ID | Name | p < 0.01 | p > 0.99 |
| MA0002.2 | RUNX1 | 23 | 0 | MA0099.2 | AP1 | 23 | 0 | MA0003.1 | TFAP2A | 23 | 0 |
| MA0003.1 | TFAP2A | 23 | 0 | V\$AP1FJ_Q2 | activator protein 1 | 23 | 0 | MA0068.1 | Pax4 | 23 | 0 |
| MA0048.1 | NHLH1 | 23 | 0 | V\$AP4_Q5 | activator protein 4 | 23 | 0 | MA0080.2 | SPI1 | 23 | 0 |
| MA0055.1 | Myf | 23 | 0 | V\$BACH2_01 | BTB and CNC homolog 2 | 23 | 0 | MA0084.1 | SRY | 23 | 0 |
| MA0056.1 | MZF1_1-4 | 23 | 0 | V\$ETS2_Q6 | ETS2 | 23 | 0 | MA0098.1 | ETS1 | 23 | 0 |
| MA0068.1 | Pax4 | 23 | 0 | V\$FRA1_Q5 | FRA1 | 23 | 0 | MA0139.1 | CTCF | 23 | 0 |
| MA0080.2 | SPI1 | 23 | 0 | V\$HEB_Q6 | HEB | 23 | 0 | V\$ALX3_01 | ALX-3 | 23 | 0 |
| MA0081.1 | SPIB | 23 | 0 | V\$LBP1_Q6 | LBP-1 | 23 | 0 | V\$ALX4_02 | Alx-4 | 23 | 0 |
| MA0090.1 | TEAD1 | 23 | 0 | V\$MAFB_01 | MAFB | 23 | 0 | V\$AMEF2_Q6 | myocyte enhancer factor | 23 | 0 |
| MA0098.1 | ETS1 | 23 | 0 | V\$NEUROD_02 | NeuroD | 23 | 0 | V\$AP2_Q6_01 | AP-2 | 23 | 0 |
| MA0099.2 | AP1 | 23 | 0 | V\$NF1_Q6 | nuclear factor 1 | 23 | 0 | V\$AP2ALPHA_01 | AP-2alpha | 23 | 0 |
| MA0136.1 | ELF5 | 23 | 0 | V\$NFE2_01 | NF-E2 p45 | 23 | 0 | V\$AP4_Q5 | activator protein 4 | 23 | 0 |
| MA0139.1 | CTCF | 23 | 0 | V\$PUR1_Q4 | PUR1 | 23 | 0 | V\$AR_Q6 | half-site matrix | 23 | 0 |
| MA0144.1 | Stat3 | 23 | 0 | V\$TR4_01 | TR4 | 23 | 0 | V\$ARX_01 | Arx | 23 | 0 |
| MA0150.1 | NFE2L2 | 23 | 0 | MA0002.2 | RUNX1 | 22 | 0 | V\$BARHL1_01 | Barhl-1 | 23 | 0 |
| MA0154.1 | EBF1 | 23 | 0 | V\$CMF_02 | C-MAF | 22 | 0 | V\$BARHL2_01 | Barhl2 | 23 | 0 |
| MA0156.1 | FEV | 23 | 0 | V\$FPM315_01 | Zinc finger protein FPM315 with KRAB and SCAN domains | 22 | 0 | V\$BARX1_01 | Barx1 | 23 | 0 |
| V\$ALX3_01 | ALX-3 | 23 | 0 | V\$LMAF_Q2 | LMAF | 22 | 0 | V\$BARX2_01 | Barx-2 | 23 | 0 |
| V\$AMEF2_Q6 | myocyte enhancer factor | 23 | 0 | V\$MATH1_Q2 | E47:MATH1 | 22 | 0 | V\$BCL6_01 | BCL6 | 23 | 0 |
| V\$AP1FJ_Q | activator protein 1 | 23 | 0 | V\$NRF2_Q4 | heterodimer containing Nrf2 | 22 | 0 | V\$BEN_01 | BEN | 23 | 0 |

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|--------------------------|-----------------------|----|---|-------------------------|--|----|---|----------------|--------------------------------------|----|---|--|
| 2 | | | | | | | | | | | | |
| V\$AP2_Q6_01 | AP-2 | 23 | 0 | MA0055.1 | Myf | 21 | 0 | V\$BLIMP1_Q6 | BLIMP1 | 23 | 0 | |
| V\$AP2ALPHA_01 | AP-2alpha | 23 | 0 | MA0090.1 | TEAD1 | 21 | 0 | V\$BRN3C_01 | Brn-3c | 23 | 0 | |
| V\$AP2GAMMA_01 | AP-2gamma | 23 | 0 | V\$BACH1_01 | BTB and CNC homolog 1 | 21 | 0 | V\$BRN4_01 | Brn-4 | 23 | 0 | |
| V\$AP4_01 | activator protein 4 | 23 | 0 | V\$CACBINDINGPROTEIN_Q6 | CAC-binding protein | 21 | 0 | V\$BSX_01 | Bsx | 23 | 0 | |
| V\$AR_Q6 | half-site matrix | 23 | 0 | V\$ETS1_B | c-ETS-1 binding site | 21 | 0 | V\$CART1_02 | CART1 | 23 | 0 | |
| V\$ARX_01 | Arx | 23 | 0 | V\$ETS_Q4 | Ets | 21 | 0 | V\$CDP_03 | CDP | 23 | 0 | |
| V\$BACH1_01 | BTB and CNC homolog 1 | 23 | 0 | V\$MAZ_Q6 | MAZ | 21 | 0 | V\$CDX1_01 | Cdx-1 | 23 | 0 | |
| V\$BACH2_01 | BTB and CNC homolog 2 | 23 | 0 | V\$MYOGENIN_Q6 | myogenin | 21 | 0 | V\$CDX2_01 | Cdx-2 | 23 | 0 | |
| V\$BARHL1_01 | Barhl-1 | 23 | 0 | V\$TEF_01 | TEF b.s. | 21 | 0 | V\$CEBP_Q2 | CCAAT/enhancer binding factor | 23 | 0 | |
| V\$BARHL2_01 | Barhl2 | 23 | 0 | V\$AML_Q6 | AML | 20 | 0 | V\$CEBPA_01 | CCAAT/enhancer binding protein alpha | 23 | 0 | |
| V\$BARX1_01 | Barx1 | 23 | 0 | V\$BEN_01 | BEN | 20 | 0 | V\$CETS1P54_02 | c-Ets-1(p54) | 23 | 0 | |
| V\$BARX2_01 | Barx-2 | 23 | 0 | V\$COREBINDINGFACTOR_Q6 | core-binding factor | 20 | 0 | V\$CPHX_01 | Cphx | 23 | 0 | |
| V\$BEN_01 | BEN | 23 | 0 | V\$ELF1_Q5 | ELF1 | 20 | 0 | V\$DBX1_01 | Dbx-1 | 23 | 0 | |
| V\$BLIMP1_Q6 | BLIMP1 | 23 | 0 | V\$MAF_Q6_01 | MAF | 20 | 0 | V\$DBX2_01 | Dbx-2 | 23 | 0 | |
| V\$BRN3C_01 | Brn-3c | 23 | 0 | V\$MAFA_Q4_01 | MAFA | 20 | 0 | V\$DLX1_01 | Dlx-1 | 23 | 0 | |
| V\$BRN4_01 | Brn-4 | 23 | 0 | V\$MZF1_Q5 | MZF1 | 20 | 0 | V\$DLX2_01 | Dlx-2 | 23 | 0 | |
| V\$CACCCBINDINGFACTOR_Q6 | CACCC-binding factor | 23 | 0 | V\$STAT3_02 | signal transducer and activator of transcription 3 | 20 | 0 | V\$DLX3_01 | dlx3 | 23 | 0 | |
| V\$CART1_02 | CART1 | 23 | 0 | MA0081.1 | SPIB | 19 | 0 | V\$DLX5_01 | dlx5 | 23 | 0 | |
| V\$CDP_03 | CDP | 23 | 0 | MA0150.1 | NFE2L2 | 19 | 0 | V\$DLX7_01 | Dlx7 | 23 | 0 | |
| V\$CDX1_01 | Cdx-1 | 23 | 0 | MA0161.1 | NFIC | 19 | 0 | V\$DOBOX4_01 | Dobox4 | 23 | 0 | |
| V\$CDX2_01 | Cdx-2 | 23 | 0 | V\$CKROX_Q2 | CKROX | 19 | 0 | V\$DOBOX5_01 | Dobox5 | 23 | 0 | |

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|--------------------------|--------------------------------------|----|---|------------------|--|----|---|------------------|---|----|---|
| V\$CDX_Q5 | Cdx | 23 | 0 | V\$HNF4_Q6_Q3 | half-site 2 | 19 | 0 | V\$DR11_01 | DR11 b.s. | 23 | 0 |
| V\$CEBP_Q2 | CCAAT/enhancer binding factor | 23 | 0 | V\$NERF_Q2 | new ets-related factor 1a | 19 | 0 | V\$DUXL_01 | Duxl | 23 | 0 |
| V\$CEBPA_01 | CCAAT/enhancer binding protein alpha | 23 | 0 | V\$PEA3_Q6 | PEA3 | 19 | 0 | V\$E2F1_01 | E2F1 | 23 | 0 |
| V\$CETS1P54_01 | c-Ets-1(p54) | 23 | 0 | V\$PEBP_Q6 | PEBP | 19 | 0 | V\$E2F6_01 | E2F6 | 23 | 0 |
| V\$CKROX_Q2 | CKROX | 23 | 0 | V\$T3R_Q6 | half-site matrix | 19 | 0 | V\$ELF1_Q5 | ELF1 | 23 | 0 |
| V\$CMF2_02 | C-MAF | 23 | 0 | MA0056.1 | MZF1_1-4 | 18 | 0 | V\$ELK1_01 | Elk-1 | 23 | 0 |
| V\$COREBIN_DINGFACTOR_Q6 | core-binding factor | 23 | 0 | V\$PU1_Q6 | PU.1 | 18 | 0 | V\$EMX2_01 | EMX2 | 23 | 0 |
| V\$DBX1_01 | Dbx-1 | 23 | 0 | MA0119.1 | TLX1::NFIC | 17 | 0 | V\$EN1_02 | En-1 | 23 | 0 |
| V\$DBX2_01 | Dbx-2 | 23 | 0 | MA0154.1 | EBF1 | 17 | 0 | V\$EN2_01 | En-2 | 23 | 0 |
| V\$DLX2_01 | Dlx-2 | 23 | 0 | MA0156.1 | FEV | 17 | 0 | V\$ESX1_01 | Esx1 | 23 | 0 |
| V\$DOBOX5_01 | Dobox5 | 23 | 0 | V\$AP2REP_01 | AP-2 repressor | 17 | 0 | V\$ETF_Q6 | ETF | 23 | 0 |
| V\$DR1_Q3 | Direct repeat 1 | 23 | 0 | V\$CTF1_01 | selection of the binding sites for CTCF by HOX11 cooperative DNA binding [2] | 17 | 0 | V\$ETS2_B | c-Ets-2 binding sites | 23 | 0 |
| V\$E12_Q6 | E12 | 23 | 0 | V\$E2A_Q6 | E2A | 17 | 0 | V\$ETS_Q4 | Ets | 23 | 0 |
| V\$E2F1_01 | E2F1 | 23 | 0 | V\$FLI1_Q6 | FLI1 | 17 | 0 | V\$EV11_04 | ectopic viral integration site 1 encoded factor | 23 | 0 |
| V\$E2F6_01 | E2F6 | 23 | 0 | V\$GABPALP_HA_Q4 | GABP-alpha | 17 | 0 | V\$EVX1_01 | Evx-1 | 23 | 0 |
| V\$E47_01 | E47 | 23 | 0 | V\$LMO2COM_01 | complex of Lmo2 bound to Tal-1, E2A proteins, and GATA-1, half-site 1 | 17 | 0 | V\$FAC1_01 | fetal Alz-50 clone 1 | 23 | 0 |
| V\$EAR2_Q2 | EAR2 | 23 | 0 | V\$SMAD4_Q6 | SMAD4 | 17 | 0 | V\$FOXO1_01 | fork head box O1 | 23 | 0 |
| V\$EBF_Q6 | EBF | 23 | 0 | V\$SP1_Q2_01 | Sp1 | 17 | 0 | V\$FOXO4_01 | fork head box O4 | 23 | 0 |
| V\$EGR_Q6 | Egr | 23 | 0 | V\$STAT6_Q2 | signal transducer and activator of transcription 6 | 17 | 0 | V\$FPM315_01 | Zinc finger protein FPM315 with KRAB and SCAN domains | 23 | 0 |
| V\$ELF1_Q5 | ELF1 | 23 | 0 | V\$TAL1_Q6 | TAL1 | 17 | 0 | V\$FREAC7_01 | Fork head RELATED ACTivator-7 | 23 | 0 |
| V\$ELK1_01 | Elk-1 | 23 | 0 | MA0080.2 | SPI1 | 16 | 0 | V\$GABPALP_HA_Q4 | GABP-alpha | 23 | 0 |
| V\$EN2_01 | En-2 | 23 | 0 | V\$E12_Q6 | E12 | 16 | 0 | V\$GBX1_01 | Gbx1 | 23 | 0 |
| V\$ER_Q6_02 | half-site matrix, half-ERE | 23 | 0 | V\$EBF_Q6 | EBF | 16 | 0 | V\$GBX2_01 | Gbx2 | 23 | 0 |

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|------------------|---|----|---|-----------------|-----------------------------|----|---|---------------|---------------------------------|----|---|
| V\$ESE1_Q3 | ESE1 | 23 | 0 | V\$SREBP2_Q6 | SREBP2 | 16 | 0 | V\$GSC_01 | Gsc | 23 | 0 |
| V\$ESX1_01 | Esx1 | 23 | 0 | V\$TFII_Q6 | TFII-I | 16 | 0 | V\$GSH2_01 | GSH2 | 23 | 0 |
| V\$ETS2_B | c-Ets-2 binding sites | 23 | 0 | MA0067.1 | Pax2 | 15 | 0 | V\$HB24_01 | HB24 | 23 | 0 |
| V\$ETS_Q4 | Ets | 23 | 0 | MA0117.1 | Mafb | 15 | 0 | V\$HB9_01 | HB9 | 23 | 0 |
| V\$FLI1_Q6 | FLI1 | 23 | 0 | MA0136.1 | ELF5 | 15 | 0 | V\$HDX_01 | Hdx | 23 | 0 |
| V\$FPM315_01 | Zinc finger protein FPM315 with KRAB and SCAN domains | 23 | 0 | V\$AML1_Q4 | AML1 | 15 | 0 | V\$HEB_Q6 | HEB | 23 | 0 |
| V\$FRA1_Q5 | FRA1 | 23 | 0 | V\$CTCF_01 | CTCF | 15 | 0 | V\$HMBOX1_01 | Hmbox1 | 23 | 0 |
| V\$GABPALP_HA_Q4 | GABP-alpha | 23 | 0 | V\$PAX4_03 | Pax-4 binding sites | 15 | 0 | V\$HMG1Y_01 | HMG1Y | 23 | 0 |
| V\$GAF_Q6 | GAF | 23 | 0 | V\$PPARG_Q6 | half-site | 15 | 0 | V\$HMX1_02 | HMX1 | 23 | 0 |
| V\$HB24_01 | HB24 | 23 | 0 | V\$SMAD3_Q6 | SMAD3 | 15 | 0 | V\$HMX3_02 | Nkx5-1 | 23 | 0 |
| V\$HEB_Q6 | HEB | 23 | 0 | V\$TEF1_Q6 | TEF-1 | 15 | 0 | V\$HNF1_02 | HNF-1alpha | 23 | 0 |
| V\$HMX1_02 | HMX1 | 23 | 0 | MA0144.1 | Stat3 | 14 | 0 | V\$HNF1B_01 | HNF-1beta | 23 | 0 |
| V\$HMX3_02 | Nkx5-1 | 23 | 0 | V\$CETS1P5_4_01 | c-Ets-1(p54) | 14 | 0 | V\$HNF3_Q6_01 | HNF3 | 23 | 0 |
| V\$HNF1_Q6 | HNF1 | 23 | 0 | V\$ESE1_Q3 | ESE1 | 14 | 0 | V\$HNF3B_01 | Hepatocyte Nuclear Factor 3beta | 23 | 0 |
| V\$HOMEZ_01 | Homez | 23 | 0 | V\$KID3_01 | Kid3 | 14 | 0 | V\$HOMEZ_01 | Homez | 23 | 0 |
| V\$HOXA13_02 | HOXA5 | 23 | 0 | V\$LFA1_Q6 | LF-A1 | 14 | 0 | V\$HOXA13_02 | HOXA5 | 23 | 0 |
| V\$HOXA10_01 | HOXA10 | 23 | 0 | V\$MTF1_02 | MTF1 | 14 | 0 | V\$HOXA10_01 | HOXA10 | 23 | 0 |
| V\$HOXA2_01 | HoxA2 | 23 | 0 | V\$MYOD_Q6 | myoblast determining factor | 14 | 0 | V\$HOXA11_01 | HOXA11 | 23 | 0 |
| V\$HOXA4_01 | HOXA4 | 23 | 0 | V\$TEL2_Q6 | Tel-2 | 14 | 0 | V\$HOXA13_02 | HOXA13 | 23 | 0 |
| V\$HOXA6_01 | HOXA6 | 23 | 0 | V\$WT1_Q6 | WT1 | 14 | 0 | V\$HOXA1_01 | HOXA1 | 23 | 0 |
| V\$HOXA7_02 | HOXA7 | 23 | 0 | MA0089.1 | NFE2L1::MafG | 13 | 0 | V\$HOXA2_01 | HoxA2 | 23 | 0 |
| V\$HOXA9_01 | hoxa9 | 23 | 0 | V\$AP2_Q6_01 | AP-2 | 13 | 0 | V\$HOXA3_02 | HOXA3 | 23 | 0 |
| V\$HOXB13_01 | HOXB13 | 23 | 0 | V\$CEBPE_01 | cebpe | 13 | 0 | V\$HOXA4_01 | HOXA4 | 23 | 0 |
| V\$HOXB3_01 | HOXB3 | 23 | 0 | V\$E47_01 | E47 | 13 | 0 | V\$HOXA6_01 | HOXA6 | 23 | 0 |

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|------------------|--------|----|---|----------------------------------|---|----|---|------------------|--------|----|---|
| V\$HOXB4_0 1 | HOXB4 | 23 | 0 | V\$ER_Q6_0 2 | half-site matrix, half-ERE | 13 | 0 | V\$HOXA7_0 2 | HOXA7 | 23 | 0 |
| V\$HOXB5_0 1 | HoxB5 | 23 | 0 | V\$GAF_Q6 | GAF | 13 | 0 | V\$HOXA9_0 1 | hoxa9 | 23 | 0 |
| V\$HOXB6_0 1 | HOXB6 | 23 | 0 | V\$NFKB_Q6 _01 | NF-kappaB | 13 | 0 | V\$HOXB13_ 01 | HOXB13 | 23 | 0 |
| V\$HOXB7_0 1 | HOXB7 | 23 | 0 | V\$OSF2_Q6 | Osf2 | 13 | 0 | V\$HOXB3_0 1 | HOXB3 | 23 | 0 |
| V\$HOXB8_0 1 | HOXB8 | 23 | 0 | V\$SP3_Q3 | Sp3 | 13 | 0 | V\$HOXB4_0 1 | HOXB4 | 23 | 0 |
| V\$HOXB9_0 1 | HOXB9 | 23 | 0 | V\$AR_Q6 | half-site matrix | 12 | 0 | V\$HOXB5_0 1 | HoxB5 | 23 | 0 |
| V\$HOXC13_ 01 | HOXC13 | 23 | 0 | V\$ELK1_01 | Elk-1 | 12 | 0 | V\$HOXB6_0 1 | HOXB6 | 23 | 0 |
| V\$HOXC4_0 1 | HOXC4 | 23 | 0 | MA0003.1 | TFAP2A | 11 | 0 | V\$HOXB7_0 1 | HOXB7 | 23 | 0 |
| V\$HOXC5_0 1 | HOXC5 | 23 | 0 | MA0092.1 | Hand1::Tcfe2a | 11 | 0 | V\$HOXB8_0 1 | HOXB8 | 23 | 0 |
| V\$HOXC6_0 1 | HOXC6 | 23 | 0 | V\$AP2ALPH A_01 | AP-2alpha | 11 | 0 | V\$HOXB9_0 1 | HOXB9 | 23 | 0 |
| V\$HOXC8_0 1 | HOXC-8 | 23 | 0 | V\$BLIMP1_Q 6 | BLIMP1 | 11 | 0 | V\$HOXC10_ 01 | HOXC10 | 23 | 0 |
| V\$HOXC9_0 1 | HOXC9 | 23 | 0 | V\$CACCCBI NDINGFACT OR_Q6 | CACCC-binding factor | 11 | 0 | V\$HOXC11_ 01 | HOXC11 | 23 | 0 |
| V\$HOXD10_ 01 | HOXD10 | 23 | 0 | V\$CREB_Q3 | CREB | 11 | 0 | V\$HOXC12_ 01 | HOXC12 | 23 | 0 |
| V\$HOXD13_ 01 | HOXD13 | 23 | 0 | V\$EBOX_Q6 _01 | Ebox | 11 | 0 | V\$HOXC13_ 01 | HOXC13 | 23 | 0 |
| V\$HOXD1_0 1 | HOXD1 | 23 | 0 | V\$P50RELA P65_Q5_01 | P50:RELA-P65 | 11 | 0 | V\$HOXC4_0 1 | HOXC4 | 23 | 0 |
| V\$HOXD3_0 1 | HOXD3 | 23 | 0 | V\$RBPJK_Q 4 | RBP-Jkappa | 11 | 0 | V\$HOXC5_0 1 | HOXC5 | 23 | 0 |
| V\$HOXD8_0 1 | HOXD8 | 23 | 0 | V\$SMAD_Q6 | SMAD | 11 | 0 | V\$HOXC6_0 1 | HOXC6 | 23 | 0 |
| V\$ICSBP_Q 6 | ICSBP | 23 | 0 | V\$SREBP1_ Q5 | SREBP1 | 11 | 0 | V\$HOXC8_0 1 | HOXC-8 | 23 | 0 |
| V\$IPF1_06 | ipf1 | 23 | 0 | V\$STAT1_05 | STAT1 | 11 | 0 | V\$HOXC9_0 1 | HOXC9 | 23 | 0 |
| V\$IRF3_Q3 | IRF3 | 23 | 0 | V\$USF2_Q6 | USF2 | 11 | 0 | V\$HOXD10_ 01 | HOXD10 | 23 | 0 |
| V\$IRF_Q6 | IRF | 23 | 0 | V\$USF_Q6_ 01 | USF | 11 | 0 | V\$HOXD11_ 01 | HOXD11 | 23 | 0 |
| V\$ISL2_01 | Isl2 | 23 | 0 | V\$VDR_Q3 | vitamin D receptor; mediates vitamin D3-signaling, often | 11 | 0 | V\$HOXD12_ 01 | HOXD12 | 23 | 0 |

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|----------------|--|----|---|----------------|---|----|---|--------------|--|----|---|
| | | | | | dimerizes with RXR-alpha | | | | | | |
| V\$ISRE_01 | interferon-stimulated response element | 23 | 0 | V\$ZBED6_01 | ZBED6 | 11 | 0 | V\$HOXD13_01 | HOXD13 | 23 | 0 |
| V\$K2B_01 | K-2b | 23 | 0 | V\$AP2GAMMA_01 | AP-2gamma | 10 | 0 | V\$HOXD1_01 | HOXD1 | 23 | 0 |
| V\$LBP1_Q6 | LBP-1 | 23 | 0 | V\$ATF4_Q2 | activating transcription factor 4 | 10 | 0 | V\$HOXD3_01 | HOXD3 | 23 | 0 |
| V\$Lbx2_01 | Lbx2 | 23 | 0 | V\$CP2_01 | CP2 | 10 | 0 | V\$HOXD8_01 | HOXD8 | 23 | 0 |
| V\$LFA1_Q6 | LF-A1 | 23 | 0 | V\$OLF1_01 | olfactory neuron-specific factor | 10 | 0 | V\$ICSBP_Q6 | ICSBP | 23 | 0 |
| V\$LH2_01 | LH-2 | 23 | 0 | V\$PAX8_01 | Pax-8 binding sites | 10 | 0 | V\$IPF1_05 | homeobox transcription factor Pdx-1 | 23 | 0 |
| V\$LHX3_02 | Lhx3 | 23 | 0 | V\$ZIC3_01 | zinc finger protein of the cerebellum 3 | 10 | 0 | V\$IRF3_Q3 | IRF3 | 23 | 0 |
| V\$LHX5_01 | Lhx5 | 23 | 0 | MA0048.1 | NHLH1 | 9 | 0 | V\$IRF_Q6 | IRF | 23 | 0 |
| V\$LHX61_01 | lhx6.1 | 23 | 0 | MA0112.2 | ESR1 | 9 | 0 | V\$IRX2_01 | Irx2 | 23 | 0 |
| V\$LHX9_01 | Lhx9 | 23 | 0 | V\$AML2_01 | AML2 | 9 | 0 | V\$IRX3_01 | Irx-3 | 23 | 0 |
| V\$Lim1_01 | Lim-1 | 23 | 0 | V\$ATF3_Q6 | activating transcription factor 3 | 9 | 0 | V\$IRX4_01 | IRX4 | 23 | 0 |
| V\$LMAF_Q2 | LMAF | 23 | 0 | V\$CEBPB_02 | CCAAT/enhancer binding protein beta | 9 | 0 | V\$IRX5_01 | Irx5 | 23 | 0 |
| V\$LMX1_01 | Lmx-1 | 23 | 0 | V\$GADP_01 | Growth-associated binding protein | 9 | 0 | V\$IRXB3_01 | IRXB3 | 23 | 0 |
| V\$LMX1B_01 | lmx1b | 23 | 0 | V\$GLI3_02 | GLI3 | 9 | 0 | V\$ISL2_01 | Isl2 | 23 | 0 |
| V\$LTF_Q6 | LTF | 23 | 0 | V\$KAISO_01 | KAISO | 9 | 0 | V\$ISRE_01 | interferon-stimulated response element | 23 | 0 |
| V\$MATH1_Q2 | E47:MATH1 | 23 | 0 | V\$MEIS2_02 | MEIS2 | 9 | 0 | V\$ISX_01 | isx | 23 | 0 |
| V\$MAZ_Q6 | MAZ | 23 | 0 | V\$SP4_Q5 | SP4 | 9 | 0 | V\$K2B_01 | K-2b | 23 | 0 |
| V\$MMEF2_Q6 | myocyte enhancer factor 6 | 23 | 0 | MA0093.1 | USF1 | 8 | 0 | V\$LBP1_Q6 | LBP-1 | 23 | 0 |
| V\$MOX1_01 | Mox1 | 23 | 0 | MA0101.1 | REL | 8 | 0 | V\$Lbx2_01 | Lbx2 | 23 | 0 |
| V\$MSX1_02 | Msx-1 | 23 | 0 | V\$CACD_01 | CACD | 8 | 0 | V\$LH2_01 | LH-2 | 23 | 0 |
| V\$MSX3_01 | Msx-3 | 23 | 0 | V\$DR1_Q3 | Direct repeat 1 | 8 | 0 | V\$LHX3_02 | Lhx3 | 23 | 0 |
| V\$MYOD_01 | myoblast determination gene product | 23 | 0 | V\$GABP_B | GA binding protein | 8 | 0 | V\$LHX4_01 | Lhx4 | 23 | 0 |
| V\$MYOGENIN_Q6 | myogenin | 23 | 0 | V\$GLI1_01 | GLI1 | 8 | 0 | V\$LHX5_01 | Lhx5 | 23 | 0 |
| V\$MZF1_01 | MZF1 | 23 | 0 | V\$HNF1_Q6 | HNF1 | 8 | 0 | V\$LHX61_01 | lhx6.1 | 23 | 0 |

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|----------------------|------------------------------|----|---|-----------------|--|---|---|---------------|-------------------------------------|----|---|
| V\$NCX_02 | Ncx | 23 | 0 | V\$HSF1_01 | heat shock factor 1 | 8 | 0 | V\$LHX9_01 | Lhx9 | 23 | 0 |
| V\$NERF_Q2 | new ets-related factor 1a | 23 | 0 | V\$LTF_Q6 | LTF | 8 | 0 | V\$LIM1_01 | Lim-1 | 23 | 0 |
| V\$NEUROD_01 | Neuro D | 23 | 0 | V\$STAT_01 | signal transducers and activators of transcription | 8 | 0 | V\$LMX1_01 | Lmx-1 | 23 | 0 |
| V\$NF1_Q6 | nuclear factor 1 | 23 | 0 | V\$ZFP281_01 | Zfp281 | 8 | 0 | V\$LMX1B_01 | lmx1b | 23 | 0 |
| V\$NFE2_01 | NF-E2 p45 | 23 | 0 | MA0004.1 | Arnt | 7 | 0 | V\$MATH1_Q2 | E47:MATH1 | 23 | 0 |
| V\$NFKB_Q6_01 | NF-kappaB | 23 | 0 | MA0014.1 | Pax5 | 7 | 0 | V\$MEF2_Q6_01 | MEF-2 | 23 | 0 |
| V\$NKX12_01 | Nkx1-2 | 23 | 0 | MA0102.2 | CEBPA | 7 | 0 | V\$MEIS1_02 | Meis1 | 23 | 0 |
| V\$NKX52_01 | Nkx5-2 | 23 | 0 | MA0107.1 | RELA | 7 | 0 | V\$MEIS2_01 | Meis2 | 23 | 0 |
| V\$NKX61_02 | NKX6.1 | 23 | 0 | MA0145.1 | Tcfcp2l1 | 7 | 0 | V\$MMEF2_Q6 | myocyte enhancer factor 6 | 23 | 0 |
| V\$NKX63_01 | Nkx6-3 | 23 | 0 | V\$CEBPDELTA_Q6 | C/EBPdelta | 7 | 0 | V\$MOX1_01 | Mox1 | 23 | 0 |
| V\$NRF2_01 | nuclear respiratory factor 2 | 23 | 0 | V\$CREL_01 | c-Rel | 7 | 0 | V\$MRG2_01 | MRG2 | 23 | 0 |
| V\$OBOX5_01 | Obox5 | 23 | 0 | V\$GLI2_01 | GLI2 | 7 | 0 | V\$MSX1_02 | Msx-1 | 23 | 0 |
| V\$OCT1_08 | 1-Oct | 23 | 0 | V\$HOXB4_01 | HOXB4 | 7 | 0 | V\$MSX2_01 | Msx-2 | 23 | 0 |
| V\$OCTAMER_01 | Octamer | 23 | 0 | V\$HOXC4_01 | HOXC4 | 7 | 0 | V\$MSX3_01 | Msx-3 | 23 | 0 |
| V\$OTP_01 | OTP | 23 | 0 | V\$HOXC5_01 | HOXC5 | 7 | 0 | V\$NANOG_02 | Nanog | 23 | 0 |
| V\$OTX1_01 | Otx1 | 23 | 0 | V\$LHX9_01 | Lhx9 | 7 | 0 | V\$NCX_02 | Ncx | 23 | 0 |
| V\$OTX2_01 | Otx2 | 23 | 0 | V\$NKX11_01 | Nkx1-1 | 7 | 0 | V\$NEUROD_02 | NeuroD | 23 | 0 |
| V\$P50RELA_P65_Q5_01 | P50:RELA-P65 | 23 | 0 | V\$P50P50_Q3 | P50:P50 | 7 | 0 | V\$NFAT1_Q6 | NFAT1 | 23 | 0 |
| V\$PAX6_02 | pax6 | 23 | 0 | V\$PMX2B_01 | PMX2B | 7 | 0 | V\$NFAT3_Q3 | NFAT3 | 23 | 0 |
| V\$PAX7_01 | Pax-7 | 23 | 0 | V\$UNCX4.1_01 | Uncx-4.1 | 7 | 0 | V\$NFAT_Q6 | Nuclear factor of activated T-cells | 23 | 0 |
| V\$PEA3_Q6 | PEA3 | 23 | 0 | V\$VSX1_01 | Vsx1 | 7 | 0 | V\$NKX11_01 | Nkx1-1 | 23 | 0 |
| V\$PIT1_01 | Pit-1 | 23 | 0 | MA0039.2 | Klf4 | 6 | 0 | V\$NKX12_01 | Nkx1-2 | 23 | 0 |
| V\$PITX2_01 | PITX2 | 23 | 0 | MA0065.2 | PPARG::RXRA | 6 | 0 | V\$NKX22_02 | NKX22 | 23 | 0 |
| V\$PMX2B_01 | PMX2B | 23 | 0 | MA0068.1 | Pax4 | 6 | 0 | V\$NKX23_01 | Nkx2-3 | 23 | 0 |
| V\$POU6F1_1 | POU6F1 | 23 | 0 | MA0130.1 | ZNF354C | 6 | 0 | V\$NKX24_01 | Nkx2-4 | 23 | 0 |

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|------------------|--|----|---|------------------|-------------------------|---|---|----------------|--------------------------------|----|---|
| 02 | | | | | | | | | | | |
| V\$PPARG_Q6 | half-site | 23 | 0 | MA0159.1 | RXR::RAR_DR5 | 6 | 0 | V\$NKX25_03 | NKX25 | 23 | 0 |
| V\$PROP1_02 | Prop-1 | 23 | 0 | V\$BRN4_01 | Brn-4 | 6 | 0 | V\$NKX26_01 | Nkx2-6 | 23 | 0 |
| V\$PSX1_01 | PSX1 | 23 | 0 | V\$CART1_02 | CART1 | 6 | 0 | V\$NKX29_01 | Nkx2-9 | 23 | 0 |
| V\$PU1_Q4 | PU.1 | 23 | 0 | V\$CEBP_Q2_01 | C/EBP | 6 | 0 | V\$NKX32_02 | Nkx3-2 | 23 | 0 |
| V\$SHOX2_01 | Shox2 | 23 | 0 | V\$CLOCKB_MAL_Q6 | CLOCK:BMAL | 6 | 0 | V\$NKX3A_02 | Nkx3A | 23 | 0 |
| V\$SMAD3_Q6 | SMAD3 | 23 | 0 | V\$COMP1_01 | COMP1 | 6 | 0 | V\$NKX52_01 | Nkx5-2 | 23 | 0 |
| V\$SMAD4_Q6 | SMAD4 | 23 | 0 | V\$CRX_02 | Crx | 6 | 0 | V\$NKX61_02 | NKX6.1 | 23 | 0 |
| V\$SP1_01 | stimulating protein 1 | 23 | 0 | V\$DLX5_01 | dlx5 | 6 | 0 | V\$NKX62_Q2 | NK related homeobox factor 6-2 | 23 | 0 |
| V\$SP4_Q5 | SP4 | 23 | 0 | V\$DUXL_01 | Duxl | 6 | 0 | V\$NKX63_01 | Nkx6-3 | 23 | 0 |
| V\$STAT1_03 | signal transducer and activator of transcription 1 | 23 | 0 | V\$E2F1_01 | E2F1 | 6 | 0 | V\$OBOX1_01 | Obox1 | 23 | 0 |
| V\$STAT1STAT1_Q3 | STAT1:STAT1 | 23 | 0 | V\$EMX2_01 | EMX2 | 6 | 0 | V\$OBOX2_01 | Obox2 | 23 | 0 |
| V\$STAT4_01 | signal transducer and activator of transcription 4 | 23 | 0 | V\$GBX2_01 | Gbx2 | 6 | 0 | V\$OBOX3_01 | Obox3 | 23 | 0 |
| V\$T3R_Q6 | half-site matrix | 23 | 0 | V\$GR_Q6 | glucocorticoid receptor | 6 | 0 | V\$OBOX5_01 | Obox5 | 23 | 0 |
| V\$TAL1_01 | Tal-1 (Scl) | 23 | 0 | V\$HEN1_02 | HEN1 | 6 | 0 | V\$OBOX6_01 | Obox6 | 23 | 0 |
| V\$TEF_01 | TEF b.s. | 23 | 0 | V\$HMX1_02 | HMX1 | 6 | 0 | V\$OCT1_04 | octamer factor 1 | 23 | 0 |
| V\$TEL2_Q6 | Tel-2 | 23 | 0 | V\$HMX3_02 | Nkx5-1 | 6 | 0 | V\$OCT2_01 | 2-Oct | 23 | 0 |
| V\$TR4_01 | TR4 | 23 | 0 | V\$HOXA4_01 | HOXA4 | 6 | 0 | V\$OCTAME_R_01 | Octamer | 23 | 0 |
| V\$TST1_02 | 6-Oct | 23 | 0 | V\$HOXC6_01 | HOXC6 | 6 | 0 | V\$OG2_02 | OG-2 | 23 | 0 |
| V\$UNCX4.1_01 | Uncx-4.1 | 23 | 0 | V\$HOXD8_01 | HOXD8 | 6 | 0 | V\$OTP_01 | OTP | 23 | 0 |
| V\$USF_Q6_01 | USF | 23 | 0 | V\$HSF2_01 | heat shock factor 2 | 6 | 0 | V\$OTX1_01 | Otx1 | 23 | 0 |
| V\$VAX1_01 | Vax-1 | 23 | 0 | V\$KLF15_Q2 | KLF15 | 6 | 0 | V\$OTX2_01 | Otx2 | 23 | 0 |
| V\$VSX1_01 | Vsx1 | 23 | 0 | V\$KROX_Q6 | KROX | 6 | 0 | V\$OTX3_01 | Otx3 | 23 | 0 |
| V\$WT1_Q6 | WT1 | 23 | 0 | V\$LHX3_02 | Lhx3 | 6 | 0 | V\$PAX6_02 | pax6 | 23 | 0 |

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|--------------|--|----|---|-------------------|--|---|---|--------------|--|----|---|
| V\$ZBED6_01 | ZBED6 | 23 | 0 | V\$LHX5_01 | Lhx5 | 6 | 0 | V\$PAX7_01 | Pax-7 | 23 | 0 |
| V\$ZFP281_01 | Zfp281 | 23 | 0 | V\$LHX61_02 | lhx6.1 | 6 | 0 | V\$PBX1_04 | Pbx1 | 23 | 0 |
| MA0039.2 | Klf4 | 22 | 0 | V\$LHX8_01 | Lhx8 | 6 | 0 | V\$PIT1_01 | Pit-1 | 23 | 0 |
| MA0050.1 | IRF1 | 22 | 0 | V\$LRF_Q2 | LRF | 6 | 0 | V\$PITX1_01 | Pitx1 | 23 | 0 |
| MA0065.2 | PPARG::RXRA | 22 | 0 | V\$MOVOB_01 | MOVO-B | 6 | 0 | V\$PITX2_01 | PITX2 | 23 | 0 |
| MA0101.1 | REL | 22 | 0 | V\$MYOGNF_1_01 | myogenin / nuclear factor 1 or related factors | 6 | 0 | V\$PKNOX2_01 | PKNOX2 | 23 | 0 |
| MA0138.2 | REST | 22 | 0 | V\$NFKAPPA_B65_01 | NF-kappaB (p65) | 6 | 0 | V\$PMX2A_01 | PMX2A | 23 | 0 |
| MA0161.1 | NFIC | 22 | 0 | V\$OCTAME_R_02 | Octamer | 6 | 0 | V\$PMX2B_01 | PMX2B | 23 | 0 |
| V\$ALX4_02 | Aix-4 | 22 | 0 | V\$P53_03 | tumor suppressor p53 | 6 | 0 | V\$POU2F3_01 | POU2F3 | 23 | 0 |
| V\$AML_Q6 | AML | 22 | 0 | V\$PIT1_01 | Pit-1 | 6 | 0 | V\$POU6F1_02 | POU6F1 | 23 | 0 |
| V\$AREB6_04 | AREB6 (Atp1a1 regulatory element binding factor 6) | 22 | 0 | V\$PKNOX2_01 | PKNOX2 | 6 | 0 | V\$PREP1_01 | PREP1 | 23 | 0 |
| V\$BSX_01 | Bsx | 22 | 0 | V\$PROP1_02 | Prop-1 | 6 | 0 | V\$PROP1_02 | Prop-1 | 23 | 0 |
| V\$CEBPB_01 | CCAAT/enhancer binding protein beta | 22 | 0 | V\$RAX_01 | rax | 6 | 0 | V\$PSX1_01 | PSX1 | 23 | 0 |
| V\$CP2_01 | CP2 | 22 | 0 | V\$RHOX11_01 | Rhox11 | 6 | 0 | V\$PU1_Q4 | PU.1 | 23 | 0 |
| V\$CREL_01 | c-Rel | 22 | 0 | V\$S8_02 | S8 | 6 | 0 | V\$RAX_01 | rax | 23 | 0 |
| V\$DLX3_01 | dlx3 | 22 | 0 | V\$SOX9_Q4 | SOX9 | 6 | 0 | V\$RHOX11_01 | Rhox11 | 23 | 0 |
| V\$DLX7_01 | Dlx7 | 22 | 0 | V\$TCF11_01 | TCF11/KCR-F1/Nrf1 homodimers | 6 | 0 | V\$S8_02 | S8 | 23 | 0 |
| V\$DUXL_01 | Duxl | 22 | 0 | V\$TGIF_02 | TGIF1 | 6 | 0 | V\$SATB1_Q3 | SATB1 | 23 | 0 |
| V\$E2A_Q6 | E2A | 22 | 0 | V\$TST1_02 | 6-Oct | 6 | 0 | V\$SHOX2_01 | Shox2 | 23 | 0 |
| V\$EN1_02 | En-1 | 22 | 0 | MA0006.1 | Arnt::Ahr | 5 | 0 | V\$SIX4_01 | six4 | 23 | 0 |
| V\$EV11_04 | ectopic viral integration site 1 encoded factor | 22 | 0 | MA0046.1 | HNF1A | 5 | 0 | V\$SIX6_01 | Six-6 | 23 | 0 |
| V\$EVX1_01 | Evx-1 | 22 | 0 | MA0061.1 | NF-kappaB | 5 | 0 | V\$SOX2_Q6 | SOX2 | 23 | 0 |
| V\$GADP_01 | Growth-associated binding protein | 22 | 0 | MA0113.1 | NR3C1 | 5 | 0 | V\$SOX4_01 | SOX4 | 23 | 0 |
| V\$GBX1_01 | Gbx1 | 22 | 0 | MA0155.1 | INSM1 | 5 | 0 | V\$STAT1_03 | signal transducer and activator of transcription 1 | 23 | 0 |

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|-------------------|--|----|---|----------------------|--|---|---|----------------------|--|----|---|
| V\$GSH2_01 | GSH2 | 22 | 0 | F\$AMT1_Q2 | AMT1 | 5 | 0 | V\$STAT1ST AT1_Q3 | STAT1:STAT1 | 23 | 0 |
| V\$HDX_01 | Hdx | 22 | 0 | V\$ALX4_02 | Alx-4 | 5 | 0 | V\$STAT3_02 | signal transducer and activator of transcription 3 | 23 | 0 |
| V\$HMBOX1_01 | Hmbox1 | 22 | 0 | V\$ARX_01 | Arx | 5 | 0 | V\$STAT4_01 | signal transducer and activator of transcription 4 | 23 | 0 |
| V\$HNF3_Q6_01 | HNF3 | 22 | 0 | V\$BARX1_01 | Barx1 | 5 | 0 | V\$STAT5A_03 | signal transducer and activator of transcription 5a | 23 | 0 |
| V\$HNF3B_01 | Hepatocyte Nuclear Factor 3beta | 22 | 0 | V\$BARX2_01 | Barx-2 | 5 | 0 | V\$STAT6_01 | signal transducer and activator of transcription 6 | 23 | 0 |
| V\$HOXA11_01 | HOXA11 | 22 | 0 | V\$BRN3C_01 | Brn-3c | 5 | 0 | V\$TBP_01 | TATA binding protein | 23 | 0 |
| V\$HOXA13_03 | HOXA13 | 22 | 0 | V\$CDP_03 | CDP | 5 | 0 | V\$TEF_Q6 | TEF | 23 | 0 |
| V\$HOXA1_01 | HOXA1 | 22 | 0 | V\$CHCH_01 | Churchill | 5 | 0 | V\$TGIF2_01 | TGIF2 | 23 | 0 |
| V\$IRX4_01 | IRX4 | 22 | 0 | V\$COUPTF_Q6 | COUPTF | 5 | 0 | V\$TGIF_02 | TGIF1 | 23 | 0 |
| V\$KAISO_01 | KAISO | 22 | 0 | V\$CREBP1C JUN_01 | CRE-binding protein 1:c-Jun heterodimer | 5 | 0 | V\$TR4_01 | TR4 | 23 | 0 |
| V\$LHX4_01 | Lhx4 | 22 | 0 | V\$DEC_Q1 | DEC | 5 | 0 | V\$TST1_01 | POU-factor Tst-1/Oct-6 | 23 | 0 |
| V\$LMO2CO M_01 | complex of Lmo2 bound to Tal- 1, E2A proteins, and GATA-1, half-site 1 | 22 | 0 | V\$EAR2_Q2 | EAR2 | 5 | 0 | V\$UNCX4.1_01 | Uncx-4.1 | 23 | 0 |
| V\$MAFB_01 | MAFB | 22 | 0 | V\$EN2_01 | En-2 | 5 | 0 | V\$VAX1_01 | Vax-1 | 23 | 0 |
| V\$MOVOB_01 | MOVO-B | 22 | 0 | V\$ESX1_01 | Esx1 | 5 | 0 | V\$VAX2_01 | Vax-2 | 23 | 0 |
| V\$MSX2_01 | Msx-2 | 22 | 0 | V\$ETF_Q6 | ETF | 5 | 0 | V\$VSX1_01 | Vsx1 | 23 | 0 |
| V\$NANOG_02 | Nanog | 22 | 0 | V\$EVX1_01 | Evx-1 | 5 | 0 | V\$WT1_Q6 | WT1 | 23 | 0 |
| V\$NFAT1_Q6 | NFAT1 | 22 | 0 | V\$EVX2_01 | Evx2 | 5 | 0 | MA0050.1 | IRF1 | 22 | 0 |
| V\$NFAT2_Q5 | NF-AT2 | 22 | 0 | V\$GSC_01 | Gsc | 5 | 0 | MA0055.1 | Myf | 22 | 0 |
| V\$NFAT_Q4_01 | NF-AT | 22 | 0 | V\$GSH2_01 | GSH2 | 5 | 0 | MA0056.1 | MZF1_1-4 | 22 | 0 |
| V\$NKX29_01 | Nkx2-9 | 22 | 0 | V\$HAND1E47_01 | Hand1:E47 heterodimer | 5 | 0 | MA0079.2 | SP1 | 22 | 0 |
| V\$NKX3A_02 | Nkx3A | 22 | 0 | V\$HB9_01 | HB9 | 5 | 0 | MA0081.1 | SPIB | 22 | 0 |
| V\$NKX62_Q2 | NK related homeobox factor 6-2 | 22 | 0 | V\$HIC1_02 | HIC1 | 5 | 0 | MA0136.1 | ELF5 | 22 | 0 |
| V\$NRSF_Q4 | NRSF | 22 | 0 | V\$HLF_01 | hepatic leukemia factor | 5 | 0 | MA0154.1 | EBF1 | 22 | 0 |

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|----------------|---|-------|----|---|-----------------|-----------|---|---|--------------|--|----|---|
| V\$OCT2_01 | | 2-Oct | 22 | 0 | V\$HMBBOX1_01 | Hmbox1 | 5 | 0 | MA0156.1 | FEV | 22 | 0 |
| V\$OG2_02 | OG-2 | | 22 | 0 | V\$HOMEZ_01 | Homez | 5 | 0 | V\$AREB6_04 | AREB6 (Atp1a1 regulatory element binding factor 6) | 22 | 0 |
| V\$OLF1_01 | olfactory neuron-specific factor | | 22 | 0 | V\$HOXA11_01 | HOXA11 | 5 | 0 | V\$CDX_Q5 | Cdx | 22 | 0 |
| V\$OTX3_01 | Otx3 | | 22 | 0 | V\$HOXB5_01 | HoxB5 | 5 | 0 | V\$CHCH_01 | Churchill | 22 | 0 |
| V\$PEBP_Q6 | PEBP | | 22 | 0 | V\$HOXC12_01 | HOXC12 | 5 | 0 | V\$CKROX_Q2 | CKROX | 22 | 0 |
| V\$PMX2A_01 | PMX2A | | 22 | 0 | V\$HOXD11_01 | HOXD11 | 5 | 0 | V\$CRX_Q2 | Crx | 22 | 0 |
| V\$POU2F3_01 | POU2F3 | | 22 | 0 | V\$IK1_01 | Ikaros 1 | 5 | 0 | V\$E12_Q6 | E12 | 22 | 0 |
| V\$PTF1BETA_Q6 | PTF1-beta | | 22 | 0 | V\$IRF_Q6 | IRF | 5 | 0 | V\$E47_01 | E47 | 22 | 0 |
| V\$RHOX11_01 | Rhox11 | | 22 | 0 | V\$K2B_01 | K-2b | 5 | 0 | V\$EGR_Q6 | Egr | 22 | 0 |
| V\$S8_02 | S8 | | 22 | 0 | V\$LIM1_01 | Lim-1 | 5 | 0 | V\$EVX2_01 | Evx2 | 22 | 0 |
| V\$SATB1_Q3 | SATB1 | | 22 | 0 | V\$MSX2_01 | Msx-2 | 5 | 0 | V\$FOXO3A_Q1 | FOXO3A | 22 | 0 |
| V\$SOX9_Q4 | SOX9 | | 22 | 0 | V\$MYC_Q2 | Myc | 5 | 0 | V\$FRA1_Q5 | FRA1 | 22 | 0 |
| V\$SP1SP3_Q4 | SP1:SP3 | | 22 | 0 | V\$NFKAPPA_B_01 | NF-kappaB | 5 | 0 | V\$IRF7_01 | interferon regulatory factor 7 | 22 | 0 |
| V\$SP3_Q3 | Sp3 | | 22 | 0 | V\$NKX12_01 | Nkx1-2 | 5 | 0 | V\$LHX8_01 | Lhx8 | 22 | 0 |
| V\$STAT5A_03 | signal transducer and activator of transcription 5a | | 22 | 0 | V\$NKX32_02 | Nkx3-2 | 5 | 0 | V\$LRF_Q2 | LRF | 22 | 0 |
| V\$STAT6_01 | signal transducer and activator of transcription 6 | | 22 | 0 | V\$NKX61_02 | NKX6.1 | 5 | 0 | V\$MAZ_Q6 | MAZ | 22 | 0 |
| V\$STAT_Q6 | STAT | | 22 | 0 | V\$NKX63_01 | Nkx6-3 | 5 | 0 | V\$MZF1_Q5 | MZF1 | 22 | 0 |
| V\$TFIIQ_Q6 | TFII-I | | 22 | 0 | V\$NRSF_Q4 | NRSF | 5 | 0 | V\$NFAT2_Q5 | NF-AT2 | 22 | 0 |
| V\$VAX2_01 | Vax-2 | | 22 | 0 | V\$OBOX3_01 | Obox3 | 5 | 0 | V\$NKX21_01 | Nkx2-1 | 22 | 0 |
| MA0046.1 | HNF1A | | 21 | 0 | V\$OG2_02 | OG-2 | 5 | 0 | V\$NRSF_Q4 | NRSF | 22 | 0 |
| MA0089.1 | NFE2L1::MafG | | 21 | 0 | V\$OTP_01 | OTP | 5 | 0 | V\$PARP_Q3 | PARP | 22 | 0 |
| MA0092.1 | Hand1::Tcfe2a | | 21 | 0 | V\$OTX3_01 | Otx3 | 5 | 0 | V\$PAX2_Q2 | paired box factor 2 | 22 | 0 |
| MA0107.1 | RELA | | 21 | 0 | V\$PAX7_01 | Pax-7 | 5 | 0 | V\$SIX1_01 | Six-1 | 22 | 0 |
| MA0117.1 | Mafb | | 21 | 0 | V\$PREP1_01 | PREP1 | 5 | 0 | V\$SIX2_01 | Six-2 | 22 | 0 |

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|-------------------|--------------------------------|----|---|-----------------|--|---|---|----------------|--|----|---|
| MA0145.1 | Tcfcp211 | 21 | 0 | V\$PSX1_01 | PSX1 | 5 | 0 | V\$SIX3_01 | Six-3 | 22 | 0 |
| F\$AMT1_Q2 | AMT1 | 21 | 0 | V\$RELP52_01 | kappaB site | 5 | 0 | V\$SOX9_Q4 | SOX9 | 22 | 0 |
| V\$AP2REP_01 | AP-2 repressor | 21 | 0 | V\$REST_01 | NRSF, neuron-restrictive silencer factor | 5 | 0 | V\$SOX_Q6 | SOX | 22 | 0 |
| V\$CHCH_01 | Churchill | 21 | 0 | V\$REX1_03 | REX1 | 5 | 0 | V\$SP1SP3_Q4 | SP1:SP3 | 22 | 0 |
| V\$DLX1_01 | Dlx-1 | 21 | 0 | V\$SHOX2_01 | Shox2 | 5 | 0 | V\$SP4_Q5 | SP4 | 22 | 0 |
| V\$DLX5_01 | dlx5 | 21 | 0 | V\$SIX4_01 | six4 | 5 | 0 | V\$T3R_Q6 | half-site matrix | 22 | 0 |
| V\$EMX2_01 | EMX2 | 21 | 0 | V\$STAT4_01 | signal transducer and activator of transcription 4 | 5 | 0 | V\$TAL1_01 | Tal-1 (ScI) | 22 | 0 |
| V\$ETF_Q6 | ETF | 21 | 0 | V\$TCF11MCFG_01 | TCF11:MafG heterodimers | 5 | 0 | V\$TCF4_01 | TCF-4 | 22 | 0 |
| V\$FOXO1_01 | fork head box O1 | 21 | 0 | V\$TFIIA_Q6 | TFIIA | 5 | 0 | MA0151.1 | ARID3A | 21 | 0 |
| V\$FOXO4_01 | fork head box O4 | 21 | 0 | V\$TRF1_01 | TRF1 | 5 | 0 | V\$AP1_Q6 | activator protein 1 | 21 | 0 |
| V\$FREAC7_01 | Fork head RElated ACTivator-7 | 21 | 0 | V\$UF1H3BETA_Q6 | UF1H3BETA | 5 | 0 | V\$AP2GAMMA_01 | AP-2gamma | 21 | 0 |
| V\$GABP_B | GA binding protein | 21 | 0 | V\$VAX2_01 | Vax-2 | 5 | 0 | V\$BRN2_01 | POU factor Brn-2 | 21 | 0 |
| V\$GBX2_01 | Gbx2 | 21 | 0 | V\$ZABC1_01 | ZABC1 b.s. | 5 | 0 | V\$DMRT7_01 | DMRT7 | 21 | 0 |
| V\$GR_Q6 | glucocorticoid receptor | 21 | 0 | V\$NKX23_01 | Nkx2-3 | 5 | 1 | V\$EAR2_Q2 | EAR2 | 21 | 0 |
| V\$GSC_01 | Gsc | 21 | 0 | V\$PXRXR_02 | PXR half-site | 5 | 1 | V\$EBF_Q6 | EBF | 21 | 0 |
| V\$HB9_01 | HB9 | 21 | 0 | MA0007.1 | Ar | 4 | 0 | V\$ESE1_Q3 | ESE1 | 21 | 0 |
| V\$HNF1B_01 | HNF-1beta | 21 | 0 | MA0018.2 | CREB1 | 4 | 0 | V\$FLI1_Q6 | FLI1 | 21 | 0 |
| V\$HNF4_DR1_Q3 | HNF4 direct repeat 1 | 21 | 0 | MA0057.1 | MZF1_5-13 | 4 | 0 | V\$FOXO3_01 | fork head box O3 | 21 | 0 |
| V\$HOXA3_02 | HOXA3 | 21 | 0 | MA0058.1 | MAX | 4 | 0 | V\$KROX_Q6 | KROX | 21 | 0 |
| V\$HOXD11_01 | HOXD11 | 21 | 0 | MA0062.2 | GABPA | 4 | 0 | V\$NERF_Q2 | new ets-related factor 1a | 21 | 0 |
| V\$HSF_Q6 | HSF | 21 | 0 | MA0069.1 | Pax6 | 4 | 0 | V\$PEA3_Q6 | PEA3 | 21 | 0 |
| V\$IRF7_01 | interferon regulatory factor 7 | 21 | 0 | V\$ALX3_01 | ALX-3 | 4 | 0 | V\$REST_01 | NRSF, neuron-restrictive silencer factor | 21 | 0 |
| V\$MAFA_Q4_01 | MAFA | 21 | 0 | V\$ATF_B | ATF binding site | 4 | 0 | V\$SIRT6_01 | SIRT6 | 21 | 0 |
| V\$NFKAPPA_B65_01 | NF-kappaB (p65) | 21 | 0 | V\$BARHL1_01 | Barhl-1 | 4 | 0 | V\$SMAD1_01 | SMAD1 | 21 | 0 |

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|-----------------|---|----|---|---------------|-----------------|---|---|----------------------|--|----|---|
| V\$NRSE_B | neural-restrictive-silencer-element | 21 | 0 | V\$BARHL2_01 | Barhl2 | 4 | 0 | MA0144.1 | Stat3 | 20 | 0 |
| V\$OBOX2_01 | Obox2 | 21 | 0 | V\$BSX_01 | Bsx | 4 | 0 | MA0152.1 | NFATC2 | 20 | 0 |
| V\$OBOX3_01 | Obox3 | 21 | 0 | V\$CDX1_01 | Cdx-1 | 4 | 0 | V\$CEBPGA_MMA_Q6 | C/EBPgamma | 20 | 0 |
| V\$PAX8_B | Pax-8 binding sites | 21 | 0 | V\$CDX2_01 | Cdx-2 | 4 | 0 | V\$FOXJ2_02 | fork head box J 2 | 20 | 0 |
| V\$PBX1_04 | Pbx1 | 21 | 0 | V\$CREBATF_Q6 | CREB, ATF | 4 | 0 | V\$HP1SITEF_ACTOR_Q6 | HP1 site factor | 20 | 0 |
| V\$PITX1_01 | Pitx1 | 21 | 0 | V\$DAX1_01 | Dax1 | 4 | 0 | V\$LMAF_Q2 | LMAF | 20 | 0 |
| V\$PKNOX2_01 | PKNOX2 | 21 | 0 | V\$DBX2_01 | Dbx-2 | 4 | 0 | V\$MYOD_Q6_01 | MyoD | 20 | 0 |
| V\$RAX_01 | rax | 21 | 0 | V\$DLX7_01 | Dlx7 | 4 | 0 | V\$MYOGENIN_Q6 | myogenin | 20 | 0 |
| V\$UF1H3BETA_Q6 | UF1H3BETA | 21 | 0 | V\$DOBOX5_01 | Dobox5 | 4 | 0 | V\$NFE2_01 | NF-E2 p45 | 20 | 0 |
| V\$VDR_Q3 | vitamin D receptor; mediates vitamin D3-signaling, often dimerizes with RXR-alpha | 21 | 0 | V\$DR3_Q4 | direct repeat 3 | 4 | 0 | V\$NRF2_01 | nuclear respiratory factor 2 | 20 | 0 |
| MA0061.1 | NF-kappaB | 20 | 0 | V\$DR4_Q2 | direct repeat 4 | 4 | 0 | V\$UF1H3BETA_Q6 | UF1H3BETA | 20 | 0 |
| MA0113.1 | NR3C1 | 20 | 0 | V\$E2F6_01 | E2F6 | 4 | 0 | V\$ZFP281_01 | Zfp281 | 20 | 0 |
| MA0114.1 | HNF4A | 20 | 0 | V\$EGR_Q6 | Egr | 4 | 0 | MA0143.1 | Sox2 | 19 | 0 |
| MA0119.1 | TLX1::NFIC | 20 | 0 | V\$EN1_02 | En-1 | 4 | 0 | V\$ANTP_Q6_01 | Antp | 19 | 0 |
| V\$ATF5_01 | ATF5 binding site | 20 | 0 | V\$ERG_01 | ERG | 4 | 0 | V\$GATA4_Q3 | GATA-4 | 19 | 0 |
| V\$CEBPE_01 | cebpe | 20 | 0 | V\$GBX1_01 | Gbx1 | 4 | 0 | V\$HNF3ALPHA_Q6 | HNF3alpha | 19 | 0 |
| V\$CTF1_01 | selection of the binding sites for CTCF by HOX11 cooperative DNA binding [2] | 20 | 0 | V\$HDX_01 | Hdx | 4 | 0 | V\$HSF_Q6 | HSF | 19 | 0 |
| V\$DAX1_01 | Dax1 | 20 | 0 | V\$HNF1B_01 | HNF-1beta | 4 | 0 | V\$MOVOB_01 | MOV0-B | 19 | 0 |
| V\$DOBOX4_01 | Dobox4 | 20 | 0 | V\$HOX13_01 | HOXA5 (Hox-1.3) | 4 | 0 | V\$NRSE_B | neural-restrictive-silencer-element | 19 | 0 |
| V\$FAC1_01 | fetal Alz-50 clone 1 | 20 | 0 | V\$HOXA1_01 | HOXA1 | 4 | 0 | V\$STAT_01 | signal transducers and activators of transcription | 19 | 0 |
| V\$FOXO3_01 | fork head box O3 | 20 | 0 | V\$HOXA7_03 | HOXA7 | 4 | 0 | V\$TATA_C | Retroviral TATA box | 19 | 0 |
| V\$HOXC11_01 | HOXC11 | 20 | 0 | V\$HOXB3_01 | HOXB3 | 4 | 0 | V\$TFIII_Q6 | TFII-I | 19 | 0 |

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|------------------|------------------------------|----|---|--------------|--|---|---|-----------------------|---|----|---|
| V\$IRX5_01 | Irx5 | 20 | 0 | V\$HOXB6_01 | HOXB6 | 4 | 0 | MA0113.1 | NR3C1 | 18 | 0 |
| V\$IRXB3_01 | IRXB3 | 20 | 0 | V\$HOXB7_01 | HOXB7 | 4 | 0 | V\$AP1FJ_Q2 | activator protein 1 | 18 | 0 |
| V\$KID3_01 | Kid3 | 20 | 0 | V\$HOXB8_01 | HOXB8 | 4 | 0 | V\$ERG_01 | ERG | 18 | 0 |
| V\$KLF15_Q2 | KLF15 | 20 | 0 | V\$HOXC10_01 | HOXC10 | 4 | 0 | V\$FREAC2_01 | Fork head RElated ACTivator-2 | 18 | 0 |
| V\$KROX_Q6 | KROX | 20 | 0 | V\$HOXC11_01 | HOXC11 | 4 | 0 | V\$FREAC3_01 | Fork head RElated ACTivator-3 | 18 | 0 |
| V\$MAF_Q6_01 | MAF | 20 | 0 | V\$HOXC8_01 | HOXC-8 | 4 | 0 | V\$GAF_Q6 | GAF | 18 | 0 |
| V\$MEF2_Q6_01 | MEF-2 | 20 | 0 | V\$HOXC9_01 | HOXC9 | 4 | 0 | V\$HELIOSA_02 | Helios A | 18 | 0 |
| V\$NFKAPPA_B_01 | NF-kappaB | 20 | 0 | V\$HOXD12_01 | HOXD12 | 4 | 0 | V\$LMO2CO_M_01 | complex of Lmo2 bound to Tal-1, E2A proteins, and GATA-1, half-site 1 | 18 | 0 |
| V\$NKX23_01 | Nkx2-3 | 20 | 0 | V\$HOXD1_01 | HOXD1 | 4 | 0 | V\$P53_03 | tumor suppressor p53 | 18 | 0 |
| V\$NUR77_Q5 | NUR77 | 20 | 0 | V\$HOXD3_01 | HOXD3 | 4 | 0 | V\$PTF1BET_A_Q6 | PTF1-beta | 18 | 0 |
| V\$PPAR_DR_1_Q2 | PPAR direct repeat 1 | 20 | 0 | V\$HSF_Q6 | HSF | 4 | 0 | V\$TEL2_Q6 | Tel-2 | 18 | 0 |
| V\$RELB_P52_01 | kappaB site | 20 | 0 | V\$IK3_01 | Ikaros 3 | 4 | 0 | V\$ZFP206_01 | Zfp206 | 18 | 0 |
| V\$SIX4_01 | six4 | 20 | 0 | V\$IPF1_06 | ipf1 | 4 | 0 | MA0046.1 | HNF1A | 17 | 0 |
| V\$SMAD_Q6 | SMAD | 20 | 0 | V\$ISRE_01 | interferon-stimulated response element | 4 | 0 | V\$BACH2_01 | BTB and CNC homolog 2 | 17 | 0 |
| V\$TCF11M_AFG_01 | TCF11:MafG heterodimers | 20 | 0 | V\$ISX_01 | isx | 4 | 0 | V\$FOX_D3_01 | fork head box D3 | 17 | 0 |
| V\$TGIF_02 | TGIF1 | 20 | 0 | V\$Lbx2_01 | Lbx2 | 4 | 0 | V\$HNF3/Fkh_Homolog_1 | HNF-3/Fkh Homolog 1 | 17 | 0 |
| V\$BRN2_01 | POU factor Brn-2 | 19 | 0 | V\$LH2_01 | LH-2 | 4 | 0 | V\$KLF15_Q2 | KLF15 | 17 | 0 |
| V\$CACD_01 | CACD | 19 | 0 | V\$LHX4_01 | Lhx4 | 4 | 0 | V\$LFA1_Q6 | LF-A1 | 17 | 0 |
| V\$GFI1_01 | growth factor independence 1 | 19 | 0 | V\$Lmx1_01 | Lmx-1 | 4 | 0 | V\$NFKB_Q6_01 | NF-kappaB | 17 | 0 |
| V\$HOXC10_01 | HOXC10 | 19 | 0 | V\$Lmx1B_01 | lmx1b | 4 | 0 | V\$SOX2-Oct4 | Sox2-Oct4 joint motif, in silico predicted | 17 | 0 |
| V\$LRF_Q2 | LRF | 19 | 0 | V\$MEIS1_02 | Meis1 | 4 | 0 | V\$PITX3_01 | Pitx3 | 17 | 0 |
| V\$MEIS1_02 | Meis1 | 19 | 0 | V\$MIBP1_01 | MIBP-1 / RFX1 complex | 4 | 0 | V\$TCF3_01 | TCF-3 | 17 | 0 |
| V\$MEIS2_01 | Meis2 | 19 | 0 | V\$MOX1_01 | Mox1 | 4 | 0 | MA0039.2 | Klf4 | 16 | 0 |
| V\$NKX22_02 | NKX22 | 19 | 0 | V\$MRG2_01 | MRG2 | 4 | 0 | MA0051.1 | IRF2 | 16 | 0 |

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|----------------|---------------------------------------|----|---|----------------|---|---|---|--------------------------------|--|----|---|
| V\$NKX32_02 | Nkx3-2 | 19 | 0 | V\$MSX1_02 | Msx-1 | 4 | 0 | MA0052.1 | MEF2A | 16 | 0 |
| V\$OBOX1_01 | Obox1 | 19 | 0 | V\$NCX_01 | Ncx | 4 | 0 | MA0135.1 | Lhx3 | 16 | 0 |
| V\$P53_03 | tumor suppressor p53 | 19 | 0 | V\$NURR1_Q3 | NURR1 | 4 | 0 | V\$BACH1_01 | BTB and CNC homolog 1 | 16 | 0 |
| V\$PARP_Q3 | PARP | 19 | 0 | V\$OBOX1_01 | Obox1 | 4 | 0 | V\$CACBINDI NGPROTEIN Q6 | CAC-binding protein | 16 | 0 |
| V\$RBPJK_Q4 | RBP-Jkappa | 19 | 0 | V\$OBOX2_01 | Obox2 | 4 | 0 | V\$COMP1_01 | COMP1 | 16 | 0 |
| V\$SRY_02 | sex-determining region Y gene product | 19 | 0 | V\$OBOX6_01 | Obox6 | 4 | 0 | V\$FOX_Q2 | FOX factors | 16 | 0 |
| V\$TEF1_Q6 | TEF-1 | 19 | 0 | V\$OCT1_08 | 1-Oct | 4 | 0 | V\$FOX_P3_01 | forkhead box P3 | 16 | 0 |
| V\$TGIF2_01 | TGIF2 | 19 | 0 | V\$OTX1_01 | Otx1 | 4 | 0 | V\$GFI1_01 | growth factor independence 1 | 16 | 0 |
| MA0051.1 | IRF2 | 18 | 0 | V\$OTX2_01 | Otx2 | 4 | 0 | V\$PXR_RXR_01 | RXR half-site | 16 | 0 |
| MA0152.1 | NFATC2 | 18 | 0 | V\$PBX1_04 | Pbx1 | 4 | 0 | V\$SRRFC4_01 | related to serum response factor, C4 | 16 | 0 |
| V\$CPHX_01 | Cphx | 18 | 0 | V\$PITX1_01 | Pitx1 | 4 | 0 | V\$ATF5_01 | ATF5 binding site | 15 | 0 |
| V\$DRI1_01 | DRI1 b.s. | 18 | 0 | V\$PITX2_01 | PITX2 | 4 | 0 | V\$CDC5_01 | cell division control protein 5 | 15 | 0 |
| V\$FOXO3A_Q1 | FOXO3A | 18 | 0 | V\$PITX3_01 | Pitx3 | 4 | 0 | V\$CIZ_01 | CIZ (Cas-associated zinc finger protein) | 15 | 0 |
| V\$HAND1E47_01 | Hand1:E47 heterodimer | 18 | 0 | V\$PMX2A_01 | PMX2A | 4 | 0 | V\$E2F_Q2 | E2F | 15 | 0 |
| V\$HMGIIY_Q3 | HMGIIY | 18 | 0 | V\$POU6F1_Q2 | POU6F1 | 4 | 0 | V\$GADP_01 | Growth-associated binding protein | 15 | 0 |
| V\$HOXC12_01 | HOXC12 | 18 | 0 | V\$PPAR_DR1_Q2 | PPAR direct repeat 1 | 4 | 0 | V\$GR_Q6 | glucocorticoid receptor | 15 | 0 |
| V\$HOXD12_01 | HOXD12 | 18 | 0 | V\$PPARA_Q6 | half-site | 4 | 0 | V\$HMEF2_Q6 | myocyte enhancer factor | 15 | 0 |
| V\$IK1_01 | Ikaros 1 | 18 | 0 | V\$PR_02 | progesterone receptor | 4 | 0 | V\$PAX8_B | Pax-8 binding sites | 15 | 0 |
| V\$ISX_01 | isx | 18 | 0 | V\$RFX1_01 | X-box binding protein RFX1 | 4 | 0 | V\$PUR1_Q4 | PUR1 | 15 | 0 |
| V\$MRG2_01 | MRG2 | 18 | 0 | V\$SIX1_01 | Six-1 | 4 | 0 | V\$RNF96_01 | RNF96 | 15 | 0 |
| V\$NFAT3_Q3 | NFAT3 | 18 | 0 | V\$SIX2_01 | Six-2 | 4 | 0 | MA0030.1 | FOXF2 | 14 | 0 |
| V\$NKX11_01 | Nkx1-1 | 18 | 0 | V\$SIX6_01 | Six-6 | 4 | 0 | MA0040.1 | Foxq1 | 14 | 0 |
| V\$OBOX6_01 | Obox6 | 18 | 0 | V\$SPZ1_01 | spermatogenic Zip | 4 | 0 | MA0060.1 | NFYA | 14 | 0 |
| V\$PREP1_01 | PREP1 | 18 | 0 | V\$STAT5A_01 | signal transducer and activator of transcription 5a | 4 | 0 | MA0075.1 | Prrx2 | 14 | 0 |

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|---------------------|---|----|---|----------------|---|---|---|---------------------|--|----|---|
| V\$TCF11_01 | TCF11/KCR-F1/Nrf1 homodimers | 18 | 0 | V\$SZF11_01 | SZF1-1 | 4 | 0 | V\$CEBPB_01 | CCAAT/enhancer binding protein beta | 14 | 0 |
| MA0038.1 | Gfi | 17 | 0 | V\$TGIF2_01 | TGIF2 | 4 | 0 | V\$GABP_B | GA binding protein | 14 | 0 |
| MA0112.2 | ESR1 | 17 | 0 | V\$VAX1_01 | Vax-1 | 4 | 0 | V\$HSF1_Q6 | HSF1 | 14 | 0 |
| MA0148.1 | FOXA1 | 17 | 0 | V\$ZIC2_01 | zinc finger protein of the cerebellum 2 | 4 | 0 | V\$IRF8_Q6 | IRF8 | 14 | 0 |
| MA0155.1 | INSM1 | 17 | 0 | V\$DLX1_01 | IRF2 | 3 | 0 | V\$MAF_Q6 | MAF | 14 | 0 |
| V\$ALPHACP1_01 | alpha-CP1 | 17 | 0 | V\$HOXA3_02 | znf143 | 3 | 0 | V\$SMAD3_Q6 | SMAD3 | 14 | 0 |
| V\$ATF3_Q6 | activating transcription factor 3 | 17 | 0 | V\$HOXA9_01 | Egr1 | 3 | 0 | V\$TAL1ALP_HAE47_01 | Tal-1alpha:E47 heterodimer | 14 | 0 |
| V\$COUP_D_R1_Q6 | COUP direct repeat 1 | 17 | 0 | V\$HOXC13_01 | ESR2 | 3 | 0 | V\$ZBED6_01 | ZBED6 | 14 | 0 |
| V\$EBOX_Q6_01 | Ebox | 17 | 0 | V\$MSX3_01 | aryl hydrocarbon receptor:Arnt heterodimers, fixed core | 3 | 0 | MA0048.1 | NHLH1 | 13 | 0 |
| V\$EHF_01 | EHF | 17 | 0 | V\$NKX29_01 | ATF1 | 3 | 0 | MA0065.2 | PPARG::RXRA | 13 | 0 |
| V\$GLI3_Q5_01 | GLI3 | 17 | 0 | V\$NKX3A_02 | COUP direct repeat 1 | 3 | 0 | V\$BRCA_01 | BRCA1 containing protein complex with USF2 | 13 | 0 |
| V\$IRX2_01 | Irx2 | 17 | 0 | V\$OBOX5_01 | Dbx-1 | 3 | 0 | V\$E2F1DP1_RB_01 | Rb:E2F-1:DP-1 trimeric complex | 13 | 0 |
| V\$LHX8_01 | Lhx8 | 17 | 0 | MA0051.1 | DEAF1 | 3 | 0 | V\$E2F4DP2_01 | E2F-4:DP-2 heterodimer | 13 | 0 |
| V\$NKX26_01 | Nkx2-6 | 17 | 0 | MA0088.1 | E2F-1:DP-1 heterodimer | 3 | 0 | V\$NFMUE1_Q6 | NF-muE1 | 13 | 0 |
| V\$P50P50_Q3 | P50:P50 | 17 | 0 | MA0162.1 | RFX1 (EF-C) | 3 | 0 | V\$USF_Q6_01 | USF | 13 | 0 |
| V\$SIRT6_01 | SIRT6 | 17 | 0 | MA0258.1 | early growth response gene 3 product | 3 | 0 | MA0002.2 | RUNX1 | 12 | 0 |
| V\$SIX6_01 | Six-6 | 17 | 0 | V\$AHRARNT_02 | EHF | 3 | 0 | MA0031.1 | FOXD1 | 12 | 0 |
| V\$SMAD1_01 | SMAD1 | 17 | 0 | V\$ATF1_Q6 | FXR inverted repeat 1 | 3 | 0 | MA0041.1 | Foxd3 | 12 | 0 |
| V\$TAL1ALP_HAE47_01 | Tal-1alpha:E47 heterodimer | 17 | 0 | V\$COUP_DR1_Q6 | GATA-binding factor 1 | 3 | 0 | MA0062.2 | GABPA | 12 | 0 |
| MA0093.1 | USF1 | 16 | 0 | V\$DBX1_01 | GCM | 3 | 0 | MA0145.1 | Tcfcp2l1 | 12 | 0 |
| MA0143.1 | Sox2 | 16 | 0 | V\$DEAF1_01 | HES1 | 3 | 0 | MA0158.1 | HOXA5 | 12 | 0 |
| V\$CREBP1C_JUN_01 | CRE-binding protein 1:c-Jun heterodimer | 16 | 0 | V\$E2F1DP1_01 | HOXA13 | 3 | 0 | V\$AFP1_Q6 | AFP1 | 12 | 0 |
| V\$EVX2_01 | Evx2 | 16 | 0 | V\$EFC_Q6 | HoxA2 | 3 | 0 | V\$DR1_Q3 | Direct repeat 1 | 12 | 0 |
| V\$HEN1_01 | HEN1 | 16 | 0 | V\$EGR3_01 | HOXA6 | 3 | 0 | V\$HNF6_Q6 | HNF6 | 12 | 0 |

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|---------------|--|----|---|----------------|---|---|---|--------------------------|---|----|---|
| V\$HSF1_Q6 | HSF1 | 16 | 0 | V\$EHF_01 | HOXB9 | 3 | 0 | V\$MAFA_Q4_01 | MAFA | 12 | 0 |
| V\$IRX3_01 | Irx-3 | 16 | 0 | V\$FXR_IR1_Q6 | IRF3 | 3 | 0 | V\$MAZR_01 | MAZ related factor | 12 | 0 |
| V\$OSF2_Q6 | Osf2 | 16 | 0 | V\$GATA1_01 | interferon regulatory factor 7 | 3 | 0 | V\$P50RELA_P65_Q5_01 | P50:RELA-P65 | 12 | 0 |
| MA0067.1 | Pax2 | 15 | 0 | V\$GCM_Q2 | Isl2 | 3 | 0 | V\$PLZF_02 | PLZF | 12 | 0 |
| V\$AML2_01 | AML2 | 15 | 0 | V\$HES1_Q2 | LXR | 3 | 0 | V\$POU1F1_Q6 | POU1F1 | 12 | 0 |
| V\$BCL6_01 | BCL6 | 15 | 0 | V\$HOXA13_03 | modulator recognition factor 2 | 3 | 0 | V\$SP3_Q3 | Sp3 | 12 | 0 |
| V\$COMP1_01 | COMP1 | 15 | 0 | V\$HOXA2_01 | MYB | 3 | 0 | MA0101.1 | REL | 11 | 0 |
| V\$CRX_02 | Crx | 15 | 0 | V\$HOXA6_01 | c-Myc:Max heterodimer | 3 | 0 | V\$CREL_01 | c-Rel | 11 | 0 |
| V\$HFH1_01 | HNF-3/Fkh Homolog 1 | 15 | 0 | V\$HOXB9_01 | NF-Y binding site | 3 | 0 | V\$E2F4DP1_01 | E2F-4:DP-1 heterodimer | 11 | 0 |
| V\$P300_01 | p300 | 15 | 0 | V\$IRF3_Q3 | Nkx2-1 | 3 | 0 | V\$NFY_01 | nuclear factor Y (Y-box binding factor) | 11 | 0 |
| V\$PITX3_01 | Pitx3 | 15 | 0 | V\$IRF7_01 | NKX22 | 3 | 0 | MA0038.1 | Gfi | 10 | 0 |
| V\$RFX1_02 | X-box binding protein RFX1 | 15 | 0 | V\$ISL2_01 | Nkx2-5 | 3 | 0 | MA0047.2 | Foxa2 | 10 | 0 |
| MA0060.1 | NFYA | 14 | 0 | V\$LXR_Q3 | Nkx2-6 | 3 | 0 | MA0114.1 | HNF4A | 10 | 0 |
| MA0062.2 | GABPA | 14 | 0 | V\$MRF2_01 | Pax | 3 | 0 | V\$HFH8_01 | HNF-3/Fkh Homolog-8 | 10 | 0 |
| MA0159.1 | RXR::RAR_DR5 | 14 | 0 | V\$MYB_Q5_01 | PTF1-beta | 3 | 0 | V\$SOX5_01 | Sox-5 | 10 | 0 |
| V\$COUPTF_Q6 | COUPTF | 14 | 0 | V\$MYCMAX_03 | RFX | 3 | 0 | MA0107.1 | RELA | 9 | 0 |
| V\$FOXJ2_01 | fork head box J 2 | 14 | 0 | V\$NFY_C | Six-3 | 3 | 0 | MA0148.1 | FOXA1 | 9 | 0 |
| V\$LRH1_Q5 | LRH1 | 14 | 0 | V\$NKX21_01 | Se-Cys tRNA gene transcription activating factor | 3 | 0 | V\$CACCCBINDINGFACTOR_Q6 | CACCC-binding factor | 9 | 0 |
| V\$MYOGNF1_01 | myogenin / nuclear factor 1 or related factors | 14 | 0 | V\$NKX22_02 | signal transducer and activator of transcription 5b | 3 | 0 | V\$CACD_01 | CACD | 9 | 0 |
| V\$NFY_01 | nuclear factor Y (Y-box binding factor) | 14 | 0 | V\$NKX25_Q5 | Tax/CREB complex | 3 | 0 | V\$DAX1_01 | Dax1 | 9 | 0 |
| V\$NKX21_01 | Nkx2-1 | 14 | 0 | V\$NKX26_01 | Yin and Yang 1 | 3 | 0 | V\$E2F1DP1_01 | E2F-1:DP-1 heterodimer | 9 | 0 |
| V\$PPARA_Q6 | half-site | 14 | 0 | V\$PAX_Q6 | zinc finger protein of the cerebellum 1 | 3 | 0 | V\$ER_Q6_02 | half-site matrix, half-ERE | 9 | 0 |
| V\$RSRFC4_Q2 | RSRFC4 | 14 | 0 | V\$PTF1BETA_Q6 | IRF1 | 3 | 1 | V\$FOXJ3_01 | foxj3 | 9 | 0 |
| MA0047.2 | Foxa2 | 13 | 0 | V\$RFX_Q6 | alpha-CP1 | 3 | 1 | V\$HSF2_01 | heat shock factor 2 | 9 | 0 |

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|---------------------|---|----|---|----------------|--|---|---|----------------------|---|---|---|
| V\$CEBPDEL TA_Q6 | C/EBPdelta | 13 | 0 | V\$SIX3_01 | AREB6 (Atp1a1 regulatory element binding factor 6) | 3 | 1 | V\$P50P50_Q3 | P50:P50 | 9 | 0 |
| V\$GATA4_Q3 | GATA-4 | 13 | 0 | V\$STAF_01 | Cphx | 3 | 1 | V\$STAT5B_01 | signal transducer and activator of transcription 5b | 9 | 0 |
| V\$HFH8_01 | HNF-3/Fkh Homolog-8 | 13 | 0 | V\$STAT5B_01 | Dlx-2 | 3 | 1 | V\$VDR_Q3 | vitamin D receptor; mediates vitamin D3-signaling, often dimerizes with RXR-alpha | 9 | 0 |
| V\$HNF3ALP HA_Q6 | HNF3alpha | 13 | 0 | V\$TAXCREB_02 | dlx3 | 3 | 1 | MA0025.1 | NFIL3 | 8 | 0 |
| V\$MAZR_01 | MAZ related factor | 13 | 0 | V\$YY1_02 | Dobox4 | 3 | 1 | MA0057.1 | MZF1_5-13 | 8 | 0 |
| V\$NKX24_01 | Nkx2-4 | 13 | 0 | V\$ZIC1_01 | HB24 | 3 | 1 | MA0061.1 | NF-kappaB | 8 | 0 |
| V\$NKX25_03 | NKX25 | 13 | 0 | MA0050.1 | HOXA10 | 3 | 1 | MA0142.1 | Pou5f1 | 8 | 0 |
| V\$OCT4_01 | Sox2-Oct4 joint motif, in silico predicted | 13 | 0 | V\$ALPHACP1_01 | NK related homeobox factor 6-2 | 3 | 5 | V\$CREB_01 | cAMP-responsive element binding protein | 8 | 0 |
| V\$SOX_Q6 | SOX | 13 | 0 | V\$AREB6_04 | NR2F1 | 2 | 0 | V\$CREBP1C JUN_01 | CRE-binding protein 1:c-Jun heterodimer | 8 | 0 |
| V\$STAT5B_01 | signal transducer and activator of transcription 5b | 13 | 0 | V\$CPHX_01 | MYC::MAX | 2 | 0 | V\$DR4_Q2 | direct repeat 4 | 8 | 0 |
| V\$ZIC3_01 | zinc finger protein of the cerebellum 3 | 13 | 0 | V\$DLX2_01 | RREB1 | 2 | 0 | V\$FOXP1_01 | FOXP1 | 8 | 0 |
| MA0014.1 | Pax5 | 12 | 0 | V\$DLX3_01 | ZEB1 | 2 | 0 | V\$HNF3A_01 | FOXA1 | 8 | 0 |
| V\$ATF4_Q2 | activating transcription factor 4 | 12 | 0 | V\$DOBOX4_01 | Mycn | 2 | 0 | V\$LTF_Q6 | LTF | 8 | 0 |
| V\$ERG_01 | ERG | 12 | 0 | V\$HB24_01 | NFKB1 | 2 | 0 | V\$NFKAPPA B65_01 | NF-kappaB (p65) | 8 | 0 |
| V\$FOXP3_Q4 | FOXP3 | 12 | 0 | V\$HOXA10_01 | HNF4A | 2 | 0 | V\$NFKAPPA B_01 | NF-kappaB | 8 | 0 |
| V\$PAX_Q6 | Pax | 12 | 0 | V\$NKX62_Q2 | Zfp423 | 2 | 0 | V\$OTX_Q1 | OTX | 8 | 0 |
| MA0017.1 | NR2F1 | 11 | 0 | MA0017.1 | Pou5f1 | 2 | 0 | V\$PPAR_DR 1_Q2 | PPAR direct repeat 1 | 8 | 0 |
| MA0135.1 | Lhx3 | 11 | 0 | MA0059.1 | Myc | 2 | 0 | V\$RBPJK_Q4 | RBP-Jkappa | 8 | 0 |
| V\$CEBPGA MMA_Q6 | C/EBPgamma | 11 | 0 | MA0073.1 | NR4A2 | 2 | 0 | MA0063.1 | Nkx2-5 | 7 | 0 |
| V\$DMRT7_01 | DMRT7 | 11 | 0 | MA0103.1 | ATF5 binding site | 2 | 0 | MA0087.1 | Sox5 | 7 | 0 |
| V\$ERR2_01 | ERR2 (ESRRB) | 11 | 0 | MA0104.2 | BCL6 | 2 | 0 | MA0150.1 | NFE2L2 | 7 | 0 |
| V\$FREAC3_01 | Fork head RElated ACTivator-3 | 11 | 0 | MA0105.1 | c-Myc heterodimer (with a 26-29 kDa factor) | 2 | 0 | V\$AIRE_01 | AIRE | 7 | 0 |
| V\$HIC1_02 | HIC1 | 11 | 0 | MA0114.1 | cAMP-responsive element binding protein 1 | 2 | 0 | V\$CNOT3_01 | CNOT3 | 7 | 0 |

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|------------------|---|----|---|---------------|--|---|---|-------------------|---|---|---|
| V\$HMEF2_Q6 | myocyte enhancer factor | 11 | 0 | MA0116.1 | Egr-2/Krox-20 early growth response gene product | 2 | 0 | V\$CREBP1_01 | cAMP-responsive element binding protein 1 | 7 | 0 |
| V\$RFX3_01 | RFX3 dimer | 11 | 0 | MA0142.1 | fork head box O1 | 2 | 0 | V\$DMRT2_01 | DMRT2 | 7 | 0 |
| V\$SIX1_01 | Six-1 | 11 | 0 | MA0147.1 | Glucocorticoid response element | 2 | 0 | V\$HIC1_02 | HIC1 | 7 | 0 |
| V\$SIX2_01 | Six-2 | 11 | 0 | MA0160.1 | hypoxia-inducible factor 1 | 2 | 0 | V\$KAISO_01 | KAISO | 7 | 0 |
| V\$SIX3_01 | Six-3 | 11 | 0 | V\$ATF5_01 | ICSBP | 2 | 0 | V\$OCT_C | Octamer binding site | 7 | 0 |
| V\$STAT3STAT3_Q3 | STAT3:STAT3 | 11 | 0 | V\$BCL6_02 | LRH1 | 2 | 0 | V\$OLF1_01 | olfactory neuron-specific factor | 7 | 0 |
| V\$TBP_01 | TATA binding protein | 11 | 0 | V\$CMYC_02 | MAZ related factor | 2 | 0 | V\$SP2_01 | SP2 | 7 | 0 |
| V\$ZFP206_01 | Zfp206 | 11 | 0 | V\$CREBP1_01 | NF-AT | 2 | 0 | V\$STAT3STAT3_Q3 | STAT3:STAT3 | 7 | 0 |
| MA0040.1 | Foxq1 | 10 | 0 | V\$EGR2_01 | Nkx2-4 | 2 | 0 | MA0042.1 | FOX11 | 6 | 0 |
| MA0052.1 | MEF2A | 10 | 0 | V\$FOXO1_02 | nuclear respiratory factor 1 | 2 | 0 | MA0073.1 | RREB1 | 6 | 0 |
| MA0057.1 | MZF1_5-13 | 10 | 0 | V\$GRE_C | neural-restrictive-silencer-element | 2 | 0 | MA0076.1 | ELK4 | 6 | 0 |
| MA0073.1 | RREB1 | 10 | 0 | V\$HIF1_Q5 | NUR77 | 2 | 0 | V\$DMRT4_01 | DMRT4 | 6 | 0 |
| V\$CREB_01 | cAMP-responsive element binding protein | 10 | 0 | V\$ICSBP_Q6 | Pax-3 binding sites | 2 | 0 | V\$E2F1DP2_01 | E2F-1:DP-2 heterodimer | 6 | 0 |
| V\$DR3_Q4 | direct repeat 3 | 10 | 0 | V\$LRH1_Q5 | Pbx | 2 | 0 | V\$E4BP4_01 | E4BP4 | 6 | 0 |
| V\$FREAC2_01 | Fork head RElated ACTivator-2 | 10 | 0 | V\$MAZR_01 | half-site matrix | 2 | 0 | V\$EHF_01 | EHF | 6 | 0 |
| V\$ZABC1_01 | ZABC1 b.s. | 10 | 0 | V\$NFAT_Q4_01 | RFX3 dimer | 2 | 0 | V\$HNF4_01 | hepatic nuclear factor 4 | 6 | 0 |
| MA0258.1 | ESR2 | 9 | 0 | V\$NKX24_01 | RNF96 | 2 | 0 | V\$NFKAPPA_B50_01 | NF-kappaB (p50) | 6 | 0 |
| V\$BRCA_01 | BRCA1 containing protein complex with USF2 | 9 | 0 | V\$NRF1_Q6 | SF1 | 2 | 0 | V\$PR_Q2 | half-site matrix | 6 | 0 |
| V\$DR4_Q2 | direct repeat 4 | 9 | 0 | V\$NRSE_B | SOX | 2 | 0 | V\$RELB52_01 | kappaB site | 6 | 0 |
| V\$FXR_Q2 | half-site | 9 | 0 | V\$NUR77_Q5 | SP1:SP3 | 2 | 0 | V\$TFEB_01 | TFEB | 6 | 0 |
| V\$GFI1B_01 | Gfi1b | 9 | 0 | V\$PAX3_B | serum response factor | 2 | 0 | V\$TFIIA_Q6 | TFIIA | 6 | 0 |
| V\$HNF3A_01 | FOXA1 | 9 | 0 | V\$PBX_Q3 | STAT1:STAT1 | 2 | 0 | MA0125.1 | Nobox | 5 | 0 |
| V\$PR_01 | high affinity binding sites for progesterone receptor | 9 | 0 | V\$PXR_Q2 | Tal-1alpha:E47 heterodimer | 2 | 0 | V\$ALPHACP1_01 | alpha-CP1 | 5 | 0 |
| V\$PXR_Q2 | half-site matrix | 9 | 0 | V\$RFX3_01 | Tcf-4 dimer | 2 | 0 | V\$CEBPDDELTA_Q6 | C/EBPdelta | 5 | 0 |

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|--------------------|---|---|---|-----------------|--|---|---|-----------------|-----------------------------------|---|---|
| V\$REX1_03 | REX1 | 9 | 0 | V\$RNF96_01 | Zfp206 | 2 | 0 | V\$CEBPE_01 | cebpe | 5 | 0 |
| MA0004.1 | Arnt | 8 | 0 | V\$SF1_Q6 | zinc finger with interaction domain | 2 | 0 | V\$CMAF_02 | C-MAF | 5 | 0 |
| MA0151.1 | ARID3A | 8 | 0 | V\$NFAT2_Q5 | NFIL3 | 1 | 0 | V\$CP2_01 | CP2 | 5 | 0 |
| MA0160.1 | NR4A2 | 8 | 0 | V\$PLAG1_01 | TP53 | 1 | 0 | V\$CREBATF_Q6 | CREB, ATF | 5 | 0 |
| V\$CREBP1_01 | cAMP-responsive element binding protein 1 | 8 | 0 | V\$PNR_01 | NR1H2::RXRA | 1 | 0 | V\$HEN1_02 | HEN1 | 5 | 0 |
| V\$HNF4ALPHA_Q6 | HNF4alpha | 8 | 0 | MA0072.1 | Sox2 | 1 | 0 | V\$HFH4_01 | HFH4 (FOXJ1) | 5 | 0 |
| V\$HNF6_Q6 | HNF6 | 8 | 0 | V\$FOXO3_01 | Zfx | 1 | 0 | V\$MRF2_01 | modulator recognition factor 2 | 5 | 0 |
| V\$OCT_C | Octamer binding site | 8 | 0 | V\$HNF3A_01 | FOXA1 | 1 | 0 | V\$POU3F2_02 | POU3F2 | 5 | 0 |
| V\$TAL1BETAITF2_01 | Tal-1beta:ITF-2 heterodimer | 8 | 0 | V\$HOXD10_01 | HIF1A::ARNT | 1 | 0 | V\$PPARG_Q6 | half-site | 5 | 0 |
| MA0006.1 | Arnt::Ahr | 7 | 0 | V\$CDPCR1_01 | aryl hydrocarbon / dioxin receptor | 1 | 0 | V\$SMAD4_Q6 | SMAD4 | 5 | 0 |
| MA0105.1 | NFKB1 | 7 | 0 | MA0025.1 | activating transcription factor 6 | 1 | 0 | V\$SMAD_Q6 | SMAD | 5 | 0 |
| V\$HFH4_01 | HFH4 (FOXJ1) | 7 | 0 | MA0106.1 | BRCA1 containing protein complex with USF2 | 1 | 0 | V\$TCF11MCFG_01 | TCF11:MafG heterodimers | 5 | 0 |
| V\$NFKAPPA_B50_01 | NF-kappaB (p50) | 7 | 0 | MA0115.1 | CHX10 | 1 | 0 | MA0006.1 | Arnt::Ahr | 4 | 0 |
| V\$TFEB_01 | TFEB | 7 | 0 | MA0143.1 | c-Myb | 1 | 0 | MA0014.1 | Pax5 | 4 | 0 |
| MA0031.1 | FOXD1 | 6 | 0 | MA0146.1 | Rb:E2F-1:DP-1 trimeric complex | 1 | 0 | F\$AMT1_Q2 | AMT1 | 4 | 0 |
| MA0076.1 | ELK4 | 6 | 0 | MA0148.1 | E2F-1:DP-2 heterodimer | 1 | 0 | V\$ATF3_Q6 | activating transcription factor 3 | 4 | 0 |
| V\$ATF1_Q6 | ATF1 | 6 | 0 | MA0259.1 | E2F-4:DP-1 heterodimer | 1 | 0 | V\$ERR2_01 | ERR2 (ESRRB) | 4 | 0 |
| V\$GRE_C | Glucocorticoid response element | 6 | 0 | V\$AHR_Q5 | E2F-4:DP-2 heterodimer | 1 | 0 | V\$GATA3_03 | GATA-binding factor 3 | 4 | 0 |
| V\$HSF2_03 | HSF2 | 6 | 0 | V\$ATF6_01 | E2F | 1 | 0 | V\$GFI1B_01 | Gfi1b | 4 | 0 |
| V\$MYC_Q2 | Myc | 6 | 0 | V\$BRCA_01 | E4BP4 | 1 | 0 | V\$HAND1E47_01 | Hand1:E47 heterodimer | 4 | 0 |
| V\$MYCMAX_01 | c-Myc:Max heterodimer | 6 | 0 | V\$CHX10_01 | estrogen-related receptor alpha | 1 | 0 | V\$IK1_01 | Ikaros 1 | 4 | 0 |
| V\$RORBETA_Q2 | RORBETA | 6 | 0 | V\$CMYB_01 | fetal Alz-50 clone 1 | 1 | 0 | V\$MECP2_02 | MECP2 b.s. | 4 | 0 |
| V\$SF1_Q6_01 | SF1 | 6 | 0 | V\$E2F1DP1RB_01 | GCNF (germ cell nuclear factor) | 1 | 0 | V\$NRF1_Q6 | nuclear respiratory factor 1 | 4 | 0 |

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|-------------------------|---|---|---|------------------|--|---|---|------------------------|--|---|---|
| V\$TAL1BET AE47_01 | Tal-1beta:E47 heterodimer | 6 | 0 | V\$E2F1DP2_01 | GKLF (KLF4) | 1 | 0 | V\$NUR77_Q5 | NUR77 | 4 | 0 |
| MA0018.2 | CREB1 | 5 | 0 | V\$E2F4DP1_01 | GLI | 1 | 0 | V\$REX1_03 | REX1 | 4 | 0 |
| MA0059.1 | MYC::MAX | 5 | 0 | V\$E2F4DP2_01 | HNF4alpha | 1 | 0 | V\$SRF_Q5_02 | SRF | 4 | 0 |
| MA0130.1 | ZNF354C | 5 | 0 | V\$E2F_02 | HTF | 1 | 0 | V\$TAL1BET AE47_01 | Tal-1beta:E47 heterodimer | 4 | 0 |
| MA0141.1 | Esrrb | 5 | 0 | V\$E4BP4_01 | MECP2 b.s. | 1 | 0 | V\$TAL1BET AITF2_01 | Tal-1beta:ITF-2 heterodimer | 4 | 0 |
| MA0164.1 | Nr2e3 | 5 | 0 | V\$ERR1_Q2 | NF-muE1 | 1 | 0 | V\$VBP_01 | PAR-type chicken vitellogenin promoter-binding protein | 4 | 0 |
| V\$ATF_B | ATF binding site | 5 | 0 | V\$FAC1_01 | nerve growth factor-induced protein C | 1 | 0 | V\$YY1_01 | Yin and Yang 1 | 4 | 0 |
| V\$CMYC_02 | c-Myc heterodimer (with a 26-29 kDa factor) | 5 | 0 | V\$GCNF_01 | Pax-1 binding sites | 1 | 0 | MA0017.1 | NR2F1 | 3 | 0 |
| V\$CREBATF_Q6 | CREB, ATF | 5 | 0 | V\$GKLF_02 | rat Olf-1/EBF-associated zinc finger protein | 1 | 0 | MA0027.1 | En1 | 3 | 0 |
| V\$EFC_Q6 | RFX1 (EF-C) | 5 | 0 | V\$GLI_Q2 | RORBETA | 1 | 0 | MA0035.2 | Gata1 | 3 | 0 |
| V\$LBP9_01 | LBP9 (Tcfcp211) | 5 | 0 | V\$HNF4ALPHA_Q6 | RXRG dimer | 1 | 0 | MA0104.2 | Mycn | 3 | 0 |
| V\$MAX_01 | Max | 5 | 0 | V\$HTF_01 | RXR:LXR-beta | 1 | 0 | MA0117.1 | Mafb | 3 | 0 |
| V\$MIF1_01 | MIBP-1 / RFX1 complex | 5 | 0 | V\$MECP2_01 | SAP-1a | 1 | 0 | MA0155.1 | INSM1 | 3 | 0 |
| V\$PLZF_02 | PLZF | 5 | 0 | V\$NFMUE1_Q6 | SEF1 binding site | 1 | 0 | MA0164.1 | Nr2e3 | 3 | 0 |
| V\$RFX_Q6 | RFX | 5 | 0 | V\$NGFIC_01 | STAT3:STAT3 | 1 | 0 | V\$ATF1_Q6 | ATF1 | 3 | 0 |
| V\$TATA_C | Retroviral TATA box | 5 | 0 | V\$PAX1_B | Stra13 | 1 | 0 | V\$CHX10_01 | CHX10 | 3 | 0 |
| V\$TFIIA_Q6 | TFIIA | 5 | 0 | V\$ROAZ_01 | Tal-1beta:E47 heterodimer | 1 | 0 | V\$COUP_01 | COUP-TF, HNF-4 | 3 | 0 |
| MA0069.1 | Pax6 | 4 | 0 | V\$RORBETA_Q2 | T-box 15 | 1 | 0 | V\$DR3_Q4 | direct repeat 3 | 3 | 0 |
| MA0104.2 | Mycn | 4 | 0 | V\$RXRG_01 | T-box 18 | 1 | 0 | V\$LEF1_Q2_01 | LEF1 | 3 | 0 |
| V\$DMRT4_01 | DMRT4 | 4 | 0 | V\$RXRLXRB_01 | TBX5 | 1 | 0 | V\$LEF1TCF1_Q4 | LEF1, TCF1 | 3 | 0 |
| V\$FOXP1_01 | FOXP1 | 4 | 0 | V\$SAP1A_01 | TFEB | 1 | 0 | V\$MTERF_01 | mTERF binding site | 3 | 0 |
| V\$HELIOSA_Q2 | Helios A | 4 | 0 | V\$SEF1_C | X-box-binding protein 1 | 1 | 0 | V\$PEBP_Q6 | PEBP | 3 | 0 |
| V\$HP1SITEF ACTOR_Q6 | HP1 site factor | 4 | 0 | V\$STAT3STAT3_Q3 | ZBRK1 | 1 | 0 | V\$RFX1_02 | X-box binding protein RFX1 | 3 | 0 |
| V\$IRF8_Q6 | IRF8 | 4 | 0 | V\$STRA13_01 | ZF5 | 1 | 0 | V\$SAP1A_01 | SAP-1a | 3 | 0 |

| | | | | | | | | | | | |
|--------------------|--|---|---|-----------------------|--------------------|---|---|---------------------------------|--|---|---|
| V\$POU1F1_Q6 | POU1F1 | 4 | 0 | V\$TAL1BET AE47_01 | Glis binding sites | 1 | 0 | V\$STAF_01 | Se-Cys tRNA gene transcription activating factor | 3 | 0 |
| V\$RXRG_01 | RXRG dimer | 4 | 0 | | | | | V\$STRA13_01 | Stra13 | 3 | 0 |
| V\$RXRLXRB_01 | RXR:LXR-beta | 4 | 0 | | | | | V\$XBP1_02 | XBP1 | 3 | 0 |
| V\$HIF1_Q3 | hypoxia induced factor | 2 | 0 | | | | | V\$ZABC1_01 | ZABC1 b.s. | 3 | 0 |
| V\$HTF_01 | HTF | 2 | 0 | | | | | V\$ZNF219_01 | ZNF219 | 3 | 0 |
| V\$MECP2_01 | MECP2 b.s. | 2 | 0 | | | | | V\$HMGA2_01 | HMGA2 binding site | 3 | 0 |
| V\$MEIS1AH_OXA9_01 | Meis-1a:HOXA9 heterodimeric binding | 2 | 0 | | | | | MA0009.1 | T | 2 | 0 |
| V\$NGFIC_01 | nerve growth factor-induced protein C | 2 | 0 | | | | | MA0018.2 | CREB1 | 2 | 0 |
| V\$NRF1_Q6 | nuclear respiratory factor 1 | 2 | 0 | | | | | MA0069.1 | Pax6 | 2 | 0 |
| V\$PAX3_B | Pax-3 binding sites | 2 | 0 | | | | | MA0092.1 | Hand1::Tcfe2a | 2 | 0 |
| V\$POU3F2_01 | POU3F2 | 2 | 0 | | | | | MA0093.1 | USF1 | 2 | 0 |
| V\$RORA1_01 | RAR-related orphan receptor alpha1 | 2 | 0 | | | | | MA0105.1 | NFKB1 | 2 | 0 |
| V\$SP2_01 | SP2 | 2 | 0 | | | | | MA0133.1 | BRCA1 | 2 | 0 |
| V\$STAF_01 | Se-Cys tRNA gene transcription activating factor | 2 | 0 | | | | | MA0140.1 | Tal1::Gata1 | 2 | 0 |
| V\$TAXCREB_01 | Tax/CREB complex | 2 | 0 | | | | | MA0442.1 | SOX10 | 2 | 0 |
| V\$TBX15_01 | T-box 15 | 2 | 0 | | | | | V\$COREBIN DINGFACTO R_Q6 | core-binding factor | 1 | 0 |
| V\$TBX18_01 | T-box 18 | 2 | 0 | | | | | V\$COUPTF_Q6 | COUPTF | 1 | 0 |
| V\$VDRRXR_01 | VDR:RXR | 2 | 0 | | | | | V\$DMRT1_01 | DMRT1 | 1 | 0 |
| V\$XBP1_01 | X-box-binding protein 1 | 2 | 0 | | | | | V\$GATA2_02 | GATA-binding factor 2 | 1 | 0 |
| V\$YY1_02 | Yin and Yang 1 | 2 | 0 | | | | | V\$GATA6_01 | GATA-6 | 1 | 0 |
| V\$ZBRK1_01 | ZBRK1 | 2 | 0 | | | | | V\$GLI3_01 | GLI3 | 1 | 0 |
| V\$ZNF219_01 | ZNF219 | 2 | 0 | | | | | V\$GZF1_01 | plays a role in renal branching morphogenesis | 1 | 0 |
| V\$ZNF515_01 | Glis binding sites | 2 | 0 | | | | | V\$HBP1_Q2 | hbp1 | 1 | 0 |

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|--------------|--------------------------|---|---|--|--|--|---------------|--|---|---|
| MA0072.1 | RORA_2 | 1 | 0 | | | | V\$HES1_Q2 | HES1 | 1 | 0 |
| MA0091.1 | TAL1::TCF3 | 1 | 0 | | | | V\$HIF1_Q3 | hypoxia induced factor | 1 | 0 |
| V\$STRA13_01 | Stra13 | 1 | 0 | | | | V\$HIF2A_01 | HIF-2alpha | 1 | 0 |
| V\$WHN_B | winged-helix factor nude | 1 | 0 | | | | V\$IK3_01 | Ikaros 3 | 1 | 0 |
| | | | | | | | V\$LBP9_01 | LBP9 (Tcfcp211) | 1 | 0 |
| | | | | | | | V\$LXR_Q3 | LXR | 1 | 0 |
| | | | | | | | V\$MIF1_01 | MIBP-1 / RFX1 complex | 1 | 0 |
| | | | | | | | V\$MYB_Q3 | MYB | 1 | 0 |
| | | | | | | | V\$MYC_Q2 | Myc | 1 | 0 |
| | | | | | | | V\$MYOGNF1_01 | myogenin / nuclear factor 1 or related factors | 1 | 0 |
| | | | | | | | V\$NGFIC_01 | nerve growth factor-induced protein C | 1 | 0 |
| | | | | | | | V\$P300_01 | p300 | 1 | 0 |
| | | | | | | | V\$PAX3_B | Pax-3 binding sites | 1 | 0 |
| | | | | | | | V\$PNR_01 | PNR | 1 | 0 |
| | | | | | | | V\$PPARA_01 | PPAR:RXR heterodimers | 1 | 0 |
| | | | | | | | V\$RFX_Q6 | RFX | 1 | 0 |
| | | | | | | | V\$TAXCREB_01 | Tax/CREB complex | 1 | 0 |
| | | | | | | | V\$TBX15_01 | T-box 15 | 1 | 0 |
| | | | | | | | V\$TBX22_01 | TBX22 | 1 | 0 |
| | | | | | | | V\$ZF5_B | ZF5 binding sites | 1 | 0 |

Supplementary Table VI. List of genes differentially expressed by at least 1.5-fold (FPKM ≥ 1.5) in siRNA mediated PAX2-knockdown versus control REP cells.

| Gene Identifier | Gene Name | FPKM | | | | p_value |
|-----------------|-----------|---------------|------------|--------------------|-------------|---------|
| | | Control siRNA | PAX2 siRNA | log2 (fold change) | Fold Change | |
| NM_000076 | CDKN1C | 188.2 | 8.6 | -4.5 | 21.9 | 5.0E-05 |
| NM_001166034 | SBSN | 6.5 | 0.3 | -4.4 | 21.8 | 5.0E-05 |
| NM_001256324 | CACNA1G | 1.6 | 0.1 | -4.3 | 19.5 | 5.0E-05 |
| NM_001184699 | CPXM1 | 4.8 | 0.3 | -4.1 | 17.1 | 5.0E-05 |
| NM_024697 | ZNF385D | 1.6 | 0.1 | -3.9 | 15.4 | 5.0E-05 |
| NM_004994 | MMP9 | 1.7 | 0.1 | -3.9 | 14.6 | 5.0E-05 |
| NM_002522 | NPTX1 | 30.0 | 2.1 | -3.8 | 14.3 | 5.0E-05 |
| NM_001335 | CTSW | 1.7 | 0.1 | -3.7 | 13.3 | 1.4E-02 |
| NM_001142617 | STRA6 | 3.2 | 0.2 | -3.7 | 13.1 | 5.0E-05 |
| NM_002274 | KRT13 | 1.9 | 0.1 | -3.7 | 12.8 | 5.0E-05 |
| NM_005794 | DHRS2 | 24.3 | 1.9 | -3.7 | 12.6 | 5.0E-05 |
| NM_001703 | BAI2 | 10.6 | 0.9 | -3.5 | 11.6 | 5.0E-05 |
| NM_001165967 | HES7 | 1.5 | 0.1 | -3.5 | 10.9 | 5.0E-05 |
| NM_005554 | KRT6A | 5.2 | 0.5 | -3.4 | 10.5 | 5.0E-05 |
| NM_014353 | RAB26 | 6.4 | 0.6 | -3.3 | 10.0 | 5.0E-05 |
| NM_001242757 | SLC22A31 | 1.5 | 0.1 | -3.3 | 9.8 | 5.0E-05 |
| NM_207373 | C10orf99 | 3.2 | 0.4 | -3.2 | 9.1 | 5.0E-05 |
| NM_000526 | KRT14 | 4.8 | 0.5 | -3.2 | 9.1 | 5.0E-05 |
| NM_018159 | NUDT11 | 3.1 | 0.3 | -3.2 | 9.0 | 5.0E-05 |
| NM_173798 | ZCCHC12 | 1.9 | 0.2 | -3.1 | 8.8 | 5.0E-05 |
| NM_005557 | KRT16 | 3.5 | 0.4 | -3.1 | 8.7 | 5.0E-05 |
| NM_003125 | SPRR1B | 1.7 | 0.2 | -3.1 | 8.3 | 5.0E-05 |
| NM_000424 | KRT5 | 9.8 | 1.2 | -3.0 | 8.2 | 5.0E-05 |
| NM_001048 | SST | 121.5 | 14.9 | -3.0 | 8.1 | 5.0E-05 |
| NM_004932 | CDH6 | 6.5 | 0.9 | -2.9 | 7.5 | 5.0E-05 |
| NM_003004 | SECTM1 | 6.2 | 0.9 | -2.8 | 7.2 | 5.0E-05 |
| NM_002965 | S100A9 | 4.4 | 0.6 | -2.8 | 7.2 | 5.0E-05 |
| NM_020125 | SLAMF8 | 11.0 | 1.5 | -2.8 | 7.1 | 5.0E-05 |
| NM_001001991 | PAMR1 | 2.6 | 0.4 | -2.8 | 7.0 | 5.0E-05 |
| NM_001013838 | RLTPR | 4.0 | 0.6 | -2.8 | 6.9 | 5.0E-05 |
| NM_001168368 | GALNT16 | 3.0 | 0.4 | -2.8 | 6.8 | 5.0E-05 |
| NM_001142853 | HES6 | 7.8 | 1.2 | -2.7 | 6.6 | 5.0E-05 |
| NM_001171092 | CLDN2 | 8.2 | 1.3 | -2.7 | 6.5 | 5.0E-05 |
| NM_004522 | KIF5C | 1.5 | 0.2 | -2.7 | 6.5 | 5.0E-05 |
| NM_173633 | TMEM145 | 2.0 | 0.3 | -2.7 | 6.4 | 5.0E-05 |
| NM_016564 | CEND1 | 2.6 | 0.4 | -2.7 | 6.3 | 5.0E-05 |
| NM_001523 | HAS1 | 91.6 | 14.5 | -2.7 | 6.3 | 5.0E-05 |
| NM_001199989 | RASD1 | 15.3 | 2.5 | -2.6 | 6.2 | 5.0E-05 |
| NM_005029 | PITX3 | 3.6 | 0.6 | -2.6 | 6.1 | 5.0E-05 |
| NM_000839 | GRM2 | 1.6 | 0.3 | -2.6 | 6.0 | 5.0E-05 |
| NM_003641 | IFITM1 | 93.1 | 16.1 | -2.5 | 5.8 | 5.0E-05 |
| NM_052924 | RHPN1 | 3.4 | 0.6 | -2.5 | 5.8 | 5.0E-05 |
| NM_001136528 | SERPINE2 | 13.9 | 2.4 | -2.5 | 5.7 | 5.0E-05 |
| NM_001008272 | TAGLN3 | 3.0 | 0.5 | -2.5 | 5.7 | 5.0E-05 |
| NM_031297 | RNF208 | 3.0 | 0.5 | -2.5 | 5.6 | 5.0E-05 |
| NM_145004 | ADAM32 | 2.6 | 0.5 | -2.5 | 5.6 | 5.0E-05 |
| NM_152864 | NKAIN4 | 9.0 | 1.6 | -2.5 | 5.6 | 5.0E-05 |
| NM_005213 | CSTA | 1.5 | 0.3 | -2.5 | 5.5 | 5.0E-05 |
| NM_001238 | CCNE1 | 12.9 | 2.3 | -2.5 | 5.5 | 5.0E-05 |
| NM_001080997 | RTBDN | 1.6 | 0.3 | -2.4 | 5.4 | 5.0E-05 |
| NM_002248 | KCNN1 | 2.0 | 0.4 | -2.4 | 5.4 | 5.0E-05 |
| NM_001079870 | HAP1 | 2.0 | 0.4 | -2.4 | 5.4 | 5.0E-05 |
| NM_001159936 | EBNA1BP2 | 73.3 | 13.7 | -2.4 | 5.3 | 5.0E-05 |
| NM_016215 | EGFL7 | 22.9 | 4.3 | -2.4 | 5.3 | 5.0E-05 |

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|--------------|------------|-------|------|------|-----|---------|
| NM_033259 | CAMK2N2 | 5.3 | 1.0 | -2.4 | 5.3 | 5.0E-05 |
| NM_001287435 | CEBPA | 1.5 | 0.3 | -2.4 | 5.2 | 5.0E-05 |
| NM_016354 | SLCO4A1 | 2.1 | 0.4 | -2.4 | 5.2 | 5.0E-05 |
| NM_001042437 | ST3GAL5 | 11.0 | 2.1 | -2.4 | 5.2 | 5.0E-05 |
| NM_001256213 | ATP1A3 | 2.2 | 0.4 | -2.4 | 5.2 | 5.0E-05 |
| NM_001012302 | ANO9 | 2.7 | 0.5 | -2.4 | 5.1 | 5.0E-05 |
| NM_002163 | IRF8 | 4.2 | 0.8 | -2.4 | 5.1 | 5.0E-05 |
| NM_000784 | CYP27A1 | 7.5 | 1.5 | -2.3 | 5.0 | 5.0E-05 |
| NM_002964 | S100A8 | 2.2 | 0.4 | -2.3 | 5.0 | 5.0E-05 |
| NM_000597 | IGFBP2 | 10.4 | 2.1 | -2.3 | 5.0 | 5.0E-05 |
| NM_001025158 | CD74 | 108.0 | 21.8 | -2.3 | 4.9 | 5.0E-05 |
| NM_001270965 | PSD | 4.2 | 0.9 | -2.3 | 4.9 | 5.0E-05 |
| NM_003378 | VGf | 5.0 | 1.0 | -2.3 | 4.9 | 5.0E-05 |
| NM_001463 | FRZB | 2.3 | 0.5 | -2.3 | 4.8 | 5.0E-05 |
| NM_198573 | ENHO | 6.2 | 1.3 | -2.3 | 4.8 | 5.0E-05 |
| NM_001135057 | LRRC15 | 2.7 | 0.6 | -2.3 | 4.8 | 5.0E-05 |
| NM_020672 | S100A14 | 1.9 | 0.4 | -2.3 | 4.8 | 5.0E-05 |
| NM_012435 | SHC2 | 1.7 | 0.3 | -2.3 | 4.8 | 5.0E-05 |
| NM_012412 | H2AFV | 130.4 | 27.4 | -2.2 | 4.7 | 5.0E-05 |
| NM_004209 | SYNGR3 | 2.4 | 0.5 | -2.2 | 4.7 | 5.0E-05 |
| NM_002996 | CX3CL1 | 6.4 | 1.4 | -2.2 | 4.7 | 5.0E-05 |
| NM_006818 | MLLT11 | 13.8 | 2.9 | -2.2 | 4.7 | 5.0E-05 |
| NM_004054 | C3AR1 | 1.7 | 0.4 | -2.2 | 4.7 | 5.0E-05 |
| NR_026936 | C5orf27 | 1.7 | 0.4 | -2.2 | 4.6 | 5.0E-05 |
| NR_027284 | LINC00602 | 2.1 | 0.5 | -2.2 | 4.6 | 5.0E-05 |
| NM_004378 | CRABP1 | 2.4 | 0.5 | -2.2 | 4.6 | 5.0E-05 |
| NM_015474 | SAMHD1 | 16.2 | 3.6 | -2.2 | 4.5 | 5.0E-05 |
| NM_015964 | TPPP3 | 2.0 | 0.4 | -2.2 | 4.5 | 5.0E-05 |
| NM_016044 | FAHD2A | 23.3 | 5.2 | -2.2 | 4.5 | 5.0E-05 |
| NM_019112 | ABCA7 | 4.6 | 1.0 | -2.2 | 4.5 | 5.0E-05 |
| NM_000278 | PAX2 | 3.4 | 0.8 | -2.2 | 4.5 | 5.0E-05 |
| NM_001039614 | C15orf59 | 1.7 | 0.4 | -2.2 | 4.4 | 5.0E-05 |
| NM_004878 | PTGES | 39.8 | 9.0 | -2.1 | 4.4 | 5.0E-05 |
| NM_206833 | CTXN1 | 15.1 | 3.4 | -2.1 | 4.4 | 5.0E-05 |
| NM_000505 | F12 | 6.3 | 1.4 | -2.1 | 4.4 | 5.0E-05 |
| NR_036494 | LOC643201 | 3.8 | 0.9 | -2.1 | 4.4 | 5.0E-05 |
| NM_000609 | CXCL12 | 2.2 | 0.5 | -2.1 | 4.4 | 5.0E-05 |
| NR_038237 | RAB11B-AS1 | 3.7 | 0.9 | -2.1 | 4.3 | 5.0E-05 |
| NM_007193 | ANXA10 | 2.6 | 0.6 | -2.1 | 4.3 | 5.0E-05 |
| NM_001080779 | MYO1C | 57.9 | 13.6 | -2.1 | 4.3 | 5.0E-05 |
| NM_001135731 | ZMAT4 | 2.0 | 0.5 | -2.1 | 4.3 | 5.0E-05 |
| NM_033452 | TRIM47 | 16.7 | 3.9 | -2.1 | 4.2 | 5.0E-05 |
| NM_018689 | KIAA1199 | 4.3 | 1.0 | -2.1 | 4.2 | 5.0E-05 |
| NR_026860 | LINC00473 | 8.4 | 2.0 | -2.1 | 4.2 | 5.0E-05 |
| NM_145056 | DACT3 | 2.4 | 0.6 | -2.1 | 4.2 | 1.2E-02 |
| NM_000221 | KHK | 2.0 | 0.5 | -2.1 | 4.2 | 5.0E-05 |
| NM_005167 | PPM1J | 2.4 | 0.6 | -2.1 | 4.2 | 5.0E-05 |
| NM_014975 | MAST1 | 2.1 | 0.5 | -2.1 | 4.2 | 5.0E-05 |
| NM_001164586 | IGFN1 | 40.0 | 9.6 | -2.1 | 4.2 | 5.0E-05 |
| NM_001190945 | TRAF1 | 4.2 | 1.0 | -2.1 | 4.2 | 5.0E-05 |
| NM_001243965 | HLA-DRB1 | 3.2 | 0.8 | -2.1 | 4.1 | 5.0E-05 |
| NM_001286606 | EFCAB4A | 2.7 | 0.6 | -2.0 | 4.1 | 5.0E-05 |
| NM_006039 | MRC2 | 115.8 | 28.1 | -2.0 | 4.1 | 5.0E-05 |
| NM_001267036 | SLC7A8 | 2.9 | 0.7 | -2.0 | 4.1 | 5.0E-05 |
| NM_001284260 | WDR86 | 5.1 | 1.2 | -2.0 | 4.1 | 5.0E-05 |
| NM_001037281 | PAR6A | 2.1 | 0.5 | -2.0 | 4.1 | 5.0E-05 |
| NM_001276310 | STMN3 | 28.3 | 6.9 | -2.0 | 4.1 | 5.0E-05 |
| NM_001136493 | MFSD2A | 13.0 | 3.2 | -2.0 | 4.1 | 5.0E-05 |
| NM_001014447 | CPZ | 2.1 | 0.5 | -2.0 | 4.1 | 5.0E-05 |
| NM_015077 | SARM1 | 2.1 | 0.5 | -2.0 | 4.0 | 5.0E-05 |
| NR_026991 | H1FX-AS1 | 1.6 | 0.4 | -2.0 | 4.0 | 3.0E-04 |

| | | | | | | |
|--------------|------------|------|------|------|-----|---------|
| NM_001207035 | ETV7 | 2.4 | 0.6 | -2.0 | 4.0 | 5.0E-05 |
| NM_001271285 | FAM173A | 52.6 | 13.2 | -2.0 | 4.0 | 5.0E-05 |
| NM_001282447 | ADAM33 | 1.6 | 0.4 | -2.0 | 4.0 | 5.0E-05 |
| NM_004759 | MAPKAPK2 | 38.7 | 9.9 | -2.0 | 3.9 | 5.0E-05 |
| NM_001823 | CKB | 98.3 | 25.0 | -2.0 | 3.9 | 5.0E-05 |
| NM_173587 | RCOR2 | 2.1 | 0.5 | -2.0 | 3.9 | 5.0E-05 |
| NM_138328 | RHBDL3 | 2.4 | 0.6 | -2.0 | 3.9 | 5.0E-05 |
| NM_001002837 | INPP5J | 3.9 | 1.0 | -2.0 | 3.9 | 5.0E-05 |
| NM_001025109 | CD34 | 2.0 | 0.5 | -2.0 | 3.9 | 5.0E-05 |
| NM_020378 | NAT14 | 42.7 | 11.0 | -1.9 | 3.9 | 5.0E-05 |
| NM_001272104 | PAQR6 | 2.7 | 0.7 | -1.9 | 3.9 | 5.0E-05 |
| NM_001218 | CA12 | 6.9 | 1.8 | -1.9 | 3.8 | 5.0E-05 |
| NM_003459 | SLC30A3 | 1.6 | 0.4 | -1.9 | 3.8 | 5.0E-05 |
| NM_001261825 | OASL | 15.9 | 4.2 | -1.9 | 3.8 | 5.0E-05 |
| NM_001244889 | UNC5B | 5.5 | 1.4 | -1.9 | 3.8 | 5.0E-05 |
| NM_001193333 | CORO1A | 9.1 | 2.4 | -1.9 | 3.8 | 5.0E-05 |
| NM_001127198 | TMC6 | 1.5 | 0.4 | -1.9 | 3.8 | 5.0E-05 |
| NM_005173 | ATP2A3 | 3.3 | 0.9 | -1.9 | 3.8 | 5.0E-05 |
| NM_005440 | RND2 | 1.9 | 0.5 | -1.9 | 3.7 | 5.0E-05 |
| NR_026934 | LOC152225 | 1.9 | 0.5 | -1.9 | 3.7 | 5.0E-05 |
| NM_001177428 | TRPV4 | 4.0 | 1.1 | -1.9 | 3.7 | 5.0E-05 |
| NM_003469 | SCG2 | 1.6 | 0.4 | -1.9 | 3.6 | 5.0E-05 |
| NM_133639 | RHOV | 1.5 | 0.4 | -1.9 | 3.6 | 5.0E-05 |
| NM_001005209 | TMEM198 | 4.2 | 1.2 | -1.9 | 3.6 | 5.0E-05 |
| NM_145175 | FAM84A | 1.9 | 0.5 | -1.9 | 3.6 | 5.0E-05 |
| NM_014310 | RASD2 | 18.8 | 5.2 | -1.8 | 3.6 | 5.0E-05 |
| NM_006426 | DPYSL4 | 3.4 | 0.9 | -1.8 | 3.6 | 5.0E-05 |
| NM_025268 | TMEM121 | 8.2 | 2.3 | -1.8 | 3.6 | 5.0E-05 |
| NM_001128325 | SPON2 | 6.0 | 1.7 | -1.8 | 3.6 | 5.0E-05 |
| NM_001171992 | C6orf223 | 2.9 | 0.8 | -1.8 | 3.6 | 5.0E-05 |
| NR_026656 | LOC400043 | 9.8 | 2.8 | -1.8 | 3.6 | 5.0E-05 |
| NM_001282582 | MXRA8 | 23.1 | 6.5 | -1.8 | 3.6 | 5.0E-05 |
| NM_001031738 | TMEM150A | 6.5 | 1.8 | -1.8 | 3.5 | 5.0E-05 |
| NM_004195 | TNFRSF18 | 1.9 | 0.5 | -1.8 | 3.5 | 5.0E-05 |
| NM_005946 | MT1A | 11.2 | 3.2 | -1.8 | 3.4 | 5.0E-05 |
| NM_001095 | ASIC1 | 6.9 | 2.0 | -1.8 | 3.4 | 5.0E-05 |
| NM_001130046 | CCL20 | 17.2 | 5.0 | -1.8 | 3.4 | 5.0E-05 |
| NM_000638 | VTN | 5.7 | 1.7 | -1.8 | 3.4 | 5.0E-05 |
| NM_002390 | ADAM11 | 1.6 | 0.5 | -1.8 | 3.4 | 5.0E-05 |
| NM_001253357 | TIE1 | 1.9 | 0.6 | -1.8 | 3.4 | 5.0E-05 |
| NM_001395 | DUSP9 | 1.7 | 0.5 | -1.8 | 3.4 | 5.0E-05 |
| NM_001031739 | ASB9 | 2.9 | 0.9 | -1.8 | 3.4 | 5.0E-05 |
| NM_001146029 | SEMA7A | 29.7 | 8.7 | -1.8 | 3.4 | 5.0E-05 |
| NM_001278719 | SV2A | 22.1 | 6.5 | -1.8 | 3.4 | 5.0E-05 |
| NM_024112 | C9orf16 | 67.4 | 19.9 | -1.8 | 3.4 | 5.0E-05 |
| NM_001278736 | CCL5 | 7.9 | 2.3 | -1.8 | 3.4 | 5.0E-05 |
| NM_019849 | SLC7A10 | 1.7 | 0.5 | -1.8 | 3.4 | 4.5E-04 |
| NM_005886 | KATNB1 | 12.8 | 3.8 | -1.8 | 3.4 | 5.0E-05 |
| NM_020130 | C8orf4 | 6.1 | 1.8 | -1.8 | 3.4 | 5.0E-05 |
| NM_001130518 | CSGALNACT1 | 22.9 | 6.8 | -1.8 | 3.4 | 5.0E-05 |
| NM_001199723 | CRABP2 | 17.8 | 5.3 | -1.7 | 3.4 | 5.0E-05 |
| NM_001110199 | SRRM3 | 2.2 | 0.7 | -1.7 | 3.4 | 5.0E-05 |
| NM_000345 | SNCA | 1.5 | 0.4 | -1.7 | 3.3 | 5.0E-05 |
| NM_000478 | ALPL | 5.7 | 1.7 | -1.7 | 3.3 | 5.0E-05 |
| NM_002118 | HLA-DMB | 2.7 | 0.8 | -1.7 | 3.3 | 5.0E-05 |
| NM_018425 | PI4K2A | 21.2 | 6.4 | -1.7 | 3.3 | 5.0E-05 |
| NM_015156 | RCOR1 | 16.8 | 5.1 | -1.7 | 3.3 | 5.0E-05 |
| NM_031302 | GLT8D2 | 3.9 | 1.2 | -1.7 | 3.3 | 5.0E-05 |
| NM_016155 | MMP17 | 2.9 | 0.9 | -1.7 | 3.3 | 5.0E-05 |
| NM_001083588 | E2F5 | 3.5 | 1.1 | -1.7 | 3.3 | 5.0E-05 |
| NM_001033053 | NLRP1 | 15.8 | 4.9 | -1.7 | 3.2 | 5.0E-05 |

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|--------------|--------------|-------|------|------|-----|---------|
| NM_003857 | GALR2 | 1.5 | 0.5 | -1.7 | 3.2 | 5.0E-05 |
| NM_001633 | AMBP | 6.7 | 2.1 | -1.7 | 3.2 | 5.0E-05 |
| NM_018659 | CYTL1 | 30.4 | 9.4 | -1.7 | 3.2 | 5.0E-05 |
| NM_206827 | RASL11A | 3.6 | 1.1 | -1.7 | 3.2 | 5.0E-05 |
| NM_014238 | KSR1 | 17.1 | 5.3 | -1.7 | 3.2 | 5.0E-05 |
| NM_152399 | TMEM155 | 2.1 | 0.6 | -1.7 | 3.2 | 5.0E-05 |
| NM_003923 | FOXH1 | 2.2 | 0.7 | -1.7 | 3.2 | 3.6E-03 |
| NM_003280 | TNNC1 | 3.3 | 1.0 | -1.7 | 3.2 | 5.0E-05 |
| NM_001001938 | C9orf47 | 14.1 | 4.4 | -1.7 | 3.2 | 5.0E-05 |
| NM_000637 | GSR | 56.5 | 17.6 | -1.7 | 3.2 | 5.0E-05 |
| NM_024308 | DHRS11 | 11.5 | 3.6 | -1.7 | 3.2 | 5.0E-05 |
| NM_001039960 | SLC4A8 | 3.4 | 1.1 | -1.7 | 3.2 | 5.0E-05 |
| NR_026844 | ANKRD36BP1 | 10.9 | 3.4 | -1.7 | 3.2 | 5.0E-05 |
| NM_001204961 | PBX1 | 14.2 | 4.5 | -1.7 | 3.2 | 5.0E-05 |
| NM_025045 | BAIAP2L2 | 2.4 | 0.8 | -1.7 | 3.2 | 5.0E-05 |
| NM_000600 | IL6 | 12.5 | 4.0 | -1.7 | 3.2 | 5.0E-05 |
| NM_001066 | TNFRSF1B | 6.8 | 2.2 | -1.7 | 3.1 | 5.0E-05 |
| NM_001005855 | ATP8B2 | 13.1 | 4.2 | -1.6 | 3.1 | 5.0E-05 |
| NM_001165977 | PROM2 | 1.8 | 0.6 | -1.6 | 3.1 | 5.0E-05 |
| NR_036480 | LOC100128881 | 4.2 | 1.4 | -1.6 | 3.1 | 4.6E-03 |
| NM_001100812 | CXCL16 | 10.1 | 3.2 | -1.6 | 3.1 | 5.0E-05 |
| NM_003179 | SYP | 1.6 | 0.5 | -1.6 | 3.1 | 5.0E-05 |
| NM_003737 | DCHS1 | 3.1 | 1.0 | -1.6 | 3.1 | 5.0E-05 |
| NM_001130713 | LEF1 | 4.2 | 1.4 | -1.6 | 3.1 | 5.0E-05 |
| NM_015896 | ZMYND10 | 2.1 | 0.7 | -1.6 | 3.1 | 5.0E-05 |
| NM_017560 | ZNF853 | 7.0 | 2.3 | -1.6 | 3.1 | 5.0E-05 |
| NM_022834 | VWA1 | 18.3 | 6.0 | -1.6 | 3.1 | 5.0E-05 |
| NM_001114173 | CTSC | 31.7 | 10.4 | -1.6 | 3.0 | 5.0E-05 |
| NM_001145106 | FIBCD1 | 4.0 | 1.3 | -1.6 | 3.0 | 5.0E-05 |
| NM_001244014 | PIANP | 11.0 | 3.6 | -1.6 | 3.0 | 5.0E-05 |
| NM_001216 | CA9 | 18.1 | 6.0 | -1.6 | 3.0 | 5.0E-05 |
| NM_000161 | GCH1 | 10.2 | 3.4 | -1.6 | 3.0 | 5.0E-05 |
| NM_001001795 | C8orf82 | 9.8 | 3.3 | -1.6 | 3.0 | 5.0E-05 |
| NM_001174089 | SLC4A11 | 2.3 | 0.8 | -1.6 | 3.0 | 5.0E-05 |
| NM_145754 | KIFC2 | 11.0 | 3.7 | -1.6 | 3.0 | 5.0E-05 |
| NM_005309 | GPT | 3.6 | 1.2 | -1.6 | 3.0 | 1.3E-02 |
| NM_004544 | NDUFA10 | 19.7 | 6.5 | -1.6 | 3.0 | 5.0E-05 |
| NM_001165258 | TMEM14C | 134.3 | 44.6 | -1.6 | 3.0 | 5.0E-05 |
| NM_000162 | GCK | 1.6 | 0.5 | -1.6 | 3.0 | 5.0E-05 |
| NM_001134771 | SLC12A5 | 6.3 | 2.1 | -1.6 | 3.0 | 5.0E-05 |
| NM_004807 | HS6ST1 | 31.6 | 10.6 | -1.6 | 3.0 | 5.0E-05 |
| NM_006465 | ARID3B | 3.2 | 1.1 | -1.6 | 3.0 | 5.0E-05 |
| NM_004204 | PIGQ | 22.4 | 7.5 | -1.6 | 3.0 | 5.0E-05 |
| NM_001098721 | GNG4 | 2.3 | 0.8 | -1.6 | 3.0 | 5.0E-05 |
| NM_001040661 | SLC29A4 | 5.7 | 1.9 | -1.6 | 3.0 | 5.0E-05 |
| NM_001277077 | HOMER1 | 5.5 | 1.9 | -1.6 | 3.0 | 5.0E-05 |
| NM_024430 | PSTPIP2 | 8.4 | 2.9 | -1.6 | 2.9 | 5.0E-05 |
| NM_020959 | ANO8 | 4.9 | 1.7 | -1.6 | 2.9 | 5.0E-05 |
| NM_002463 | MX2 | 3.4 | 1.2 | -1.6 | 2.9 | 5.0E-05 |
| NM_002442 | MSI1 | 6.9 | 2.4 | -1.5 | 2.9 | 5.0E-05 |
| NM_001077693 | ECSCR | 4.7 | 1.6 | -1.5 | 2.9 | 5.0E-05 |
| NM_001145023 | SCRN2 | 16.9 | 5.8 | -1.5 | 2.9 | 5.0E-05 |
| NM_025015 | HSPA12A | 6.5 | 2.2 | -1.5 | 2.9 | 5.0E-05 |
| NM_001113205 | TSTD1 | 19.1 | 6.6 | -1.5 | 2.9 | 5.0E-05 |
| NM_001164277 | SLC37A4 | 20.7 | 7.1 | -1.5 | 2.9 | 5.0E-05 |
| NM_001171940 | FNDC5 | 2.8 | 1.0 | -1.5 | 2.9 | 5.0E-05 |
| NM_005631 | SMO | 15.8 | 5.4 | -1.5 | 2.9 | 5.0E-05 |
| NM_000690 | ALDH2 | 39.6 | 13.6 | -1.5 | 2.9 | 5.0E-05 |
| NM_001286680 | NPM2 | 4.4 | 1.5 | -1.5 | 2.9 | 5.0E-05 |
| NM_001197294 | DPYSL3 | 66.1 | 22.8 | -1.5 | 2.9 | 5.0E-05 |
| NM_001257359 | SAMD14 | 2.7 | 0.9 | -1.5 | 2.9 | 5.0E-05 |

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|--------------|----------|-------|------|------|-----|---------|
| NM_000376 | VDR | 3.9 | 1.4 | -1.5 | 2.9 | 5.0E-05 |
| NM_001252100 | KIF21B | 2.4 | 0.8 | -1.5 | 2.9 | 5.0E-05 |
| NM_001561 | TNFRSF9 | 2.8 | 1.0 | -1.5 | 2.9 | 5.0E-05 |
| NM_001008949 | ITPRIPL1 | 2.9 | 1.0 | -1.5 | 2.9 | 5.0E-05 |
| NM_032413 | C15orf48 | 4.2 | 1.5 | -1.5 | 2.9 | 5.0E-05 |
| NM_001142467 | HES4 | 21.4 | 7.4 | -1.5 | 2.9 | 5.0E-05 |
| NM_005456 | MAPK8IP1 | 4.1 | 1.4 | -1.5 | 2.9 | 5.0E-05 |
| NM_012109 | TMEM59L | 12.3 | 4.3 | -1.5 | 2.9 | 5.0E-05 |
| NM_033102 | SLC45A3 | 3.7 | 1.3 | -1.5 | 2.9 | 5.0E-05 |
| NM_001100592 | ATP6V0E2 | 20.4 | 7.2 | -1.5 | 2.9 | 5.0E-05 |
| NM_004952 | EFNA3 | 2.3 | 0.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_001144996 | ITGA7 | 11.5 | 4.0 | -1.5 | 2.8 | 5.0E-05 |
| NM_001195528 | TPBGL | 2.6 | 0.9 | -1.5 | 2.8 | 5.0E-05 |
| NM_173462 | PAPLN | 11.1 | 3.9 | -1.5 | 2.8 | 5.0E-05 |
| NR_003142 | SNHG9 | 28.4 | 10.0 | -1.5 | 2.8 | 5.0E-05 |
| NM_001205329 | JAM3 | 9.1 | 3.2 | -1.5 | 2.8 | 5.0E-05 |
| NM_001172623 | NEO1 | 7.9 | 2.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_015392 | NPDC1 | 18.0 | 6.4 | -1.5 | 2.8 | 5.0E-05 |
| NM_021570 | BARX1 | 15.5 | 5.5 | -1.5 | 2.8 | 5.0E-05 |
| NM_003259 | ICAM5 | 2.2 | 0.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_138393 | REEP6 | 13.4 | 4.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_024052 | GID4 | 4.6 | 1.6 | -1.5 | 2.8 | 5.0E-05 |
| NM_002023 | FMOD | 4.3 | 1.5 | -1.5 | 2.8 | 5.0E-05 |
| NM_001256566 | F2RL2 | 2.0 | 0.7 | -1.5 | 2.8 | 5.0E-05 |
| NM_001127711 | TMEM14B | 144.4 | 52.0 | -1.5 | 2.8 | 5.0E-05 |
| NM_006059 | LAMC3 | 2.2 | 0.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_001193306 | FPR1 | 26.1 | 9.4 | -1.5 | 2.8 | 5.0E-05 |
| NM_014431 | PALD1 | 3.0 | 1.1 | -1.5 | 2.8 | 5.0E-05 |
| NM_000888 | ITGB6 | 3.5 | 1.3 | -1.5 | 2.8 | 5.0E-05 |
| NM_001078 | VCAM1 | 24.4 | 8.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_013271 | PCSK1N | 12.5 | 4.5 | -1.5 | 2.8 | 5.0E-05 |
| NM_016111 | TELO2 | 33.8 | 12.2 | -1.5 | 2.8 | 5.0E-05 |
| NM_001037666 | GATSL3 | 6.2 | 2.3 | -1.5 | 2.8 | 5.0E-05 |
| NM_001394 | DUSP4 | 2.1 | 0.8 | -1.5 | 2.8 | 5.0E-05 |
| NM_006841 | SLC38A3 | 7.8 | 2.8 | -1.5 | 2.7 | 5.0E-05 |
| NM_001200049 | TTC40 | 2.4 | 0.9 | -1.5 | 2.7 | 5.0E-05 |
| NM_003632 | CNTNAP1 | 16.6 | 6.1 | -1.5 | 2.7 | 5.0E-05 |
| NM_001178032 | ZC4H2 | 5.9 | 2.1 | -1.5 | 2.7 | 5.0E-05 |
| NM_016333 | SRRM2 | 95.2 | 34.8 | -1.5 | 2.7 | 5.0E-05 |
| NM_006343 | MERTK | 4.1 | 1.5 | -1.5 | 2.7 | 5.0E-05 |
| NM_001206665 | IGSF8 | 27.6 | 10.1 | -1.4 | 2.7 | 5.0E-05 |
| NM_012465 | TLL2 | 4.6 | 1.7 | -1.4 | 2.7 | 5.0E-05 |
| NM_001256335 | PTGES2 | 36.5 | 13.4 | -1.4 | 2.7 | 5.0E-05 |
| NM_005318 | H1FO | 57.2 | 21.0 | -1.4 | 2.7 | 5.0E-05 |
| NM_001034954 | SORBS1 | 1.6 | 0.6 | -1.4 | 2.7 | 5.0E-05 |
| NM_002166 | ID2 | 77.1 | 28.4 | -1.4 | 2.7 | 5.0E-05 |
| NM_004675 | DIRAS3 | 9.0 | 3.3 | -1.4 | 2.7 | 2.6E-02 |
| NM_001166239 | CGREF1 | 1.5 | 0.5 | -1.4 | 2.7 | 5.0E-05 |
| NM_001024807 | APLP1 | 13.4 | 4.9 | -1.4 | 2.7 | 5.0E-05 |
| NM_001128850 | RRAD | 64.7 | 23.9 | -1.4 | 2.7 | 5.0E-05 |
| NM_021077 | NMB | 22.0 | 8.1 | -1.4 | 2.7 | 5.0E-05 |
| NM_001114172 | PIK3R3 | 14.8 | 5.5 | -1.4 | 2.7 | 5.0E-05 |
| NM_001042595 | TMEM91 | 9.3 | 3.4 | -1.4 | 2.7 | 5.0E-05 |
| NM_006033 | LIPG | 3.5 | 1.3 | -1.4 | 2.7 | 5.0E-05 |
| NM_134268 | CYGB | 13.0 | 4.9 | -1.4 | 2.7 | 5.0E-05 |
| NM_001172566 | MYD88 | 19.8 | 7.4 | -1.4 | 2.7 | 5.0E-05 |
| NM_001277174 | EFS | 44.2 | 16.6 | -1.4 | 2.7 | 5.0E-05 |
| NM_001256477 | CMPK2 | 1.8 | 0.7 | -1.4 | 2.7 | 5.0E-05 |
| NM_006120 | HLA-DMA | 6.8 | 2.6 | -1.4 | 2.7 | 5.0E-05 |
| NM_001243750 | NUDT8 | 6.0 | 2.3 | -1.4 | 2.7 | 5.0E-05 |
| NM_152421 | FAM69B | 8.5 | 3.2 | -1.4 | 2.7 | 5.0E-05 |

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|--------------|--------------|------|------|------|-----|---------|
| NM_002386 | MC1R | 65.6 | 24.7 | -1.4 | 2.7 | 5.0E-05 |
| NM_021147 | CCNO | 4.4 | 1.6 | -1.4 | 2.7 | 5.0E-05 |
| NM_080743 | SRSF12 | 4.9 | 1.9 | -1.4 | 2.6 | 5.0E-05 |
| NM_001258276 | TMEM200A | 2.3 | 0.9 | -1.4 | 2.6 | 5.0E-05 |
| NM_194272 | RBPMS2 | 9.9 | 3.8 | -1.4 | 2.6 | 5.0E-05 |
| NM_152280 | SYT11 | 10.2 | 3.9 | -1.4 | 2.6 | 5.0E-05 |
| NM_001134851 | TCF7 | 9.6 | 3.7 | -1.4 | 2.6 | 5.0E-05 |
| NM_002975 | CLEC11A | 4.7 | 1.8 | -1.4 | 2.6 | 5.0E-05 |
| NM_017817 | RAB20 | 30.3 | 11.6 | -1.4 | 2.6 | 5.0E-05 |
| NM_024789 | TMEM180 | 4.5 | 1.7 | -1.4 | 2.6 | 5.0E-05 |
| NM_001127361 | RNF19B | 13.8 | 5.3 | -1.4 | 2.6 | 5.0E-05 |
| NM_017550 | MIER2 | 12.3 | 4.7 | -1.4 | 2.6 | 5.0E-05 |
| NM_001001794 | DENND6B | 2.2 | 0.8 | -1.4 | 2.6 | 5.0E-05 |
| NR_024580 | KIAA1984-AS1 | 2.2 | 0.8 | -1.4 | 2.6 | 2.5E-02 |
| NM_001711 | BGN | 6.5 | 2.5 | -1.4 | 2.6 | 5.0E-05 |
| NM_001077427 | LYPD1 | 17.3 | 6.7 | -1.4 | 2.6 | 5.0E-05 |
| NM_001282349 | OSCAR | 2.6 | 1.0 | -1.4 | 2.6 | 2.3E-02 |
| NM_006705 | GADD45G | 5.3 | 2.0 | -1.4 | 2.6 | 5.0E-05 |
| NM_004004 | GJB2 | 3.0 | 1.2 | -1.4 | 2.6 | 5.0E-05 |
| NM_004704 | RRP9 | 30.1 | 11.7 | -1.4 | 2.6 | 5.0E-05 |
| NM_152310 | ELOVL3 | 12.4 | 4.8 | -1.4 | 2.6 | 5.0E-05 |
| NM_020853 | KIAA1467 | 11.3 | 4.4 | -1.4 | 2.6 | 5.0E-05 |
| NM_020770 | CGN | 2.6 | 1.0 | -1.4 | 2.6 | 5.0E-05 |
| NM_001511 | CXCL1 | 16.6 | 6.5 | -1.4 | 2.6 | 5.0E-05 |
| NM_014600 | EHD3 | 5.5 | 2.1 | -1.4 | 2.6 | 5.0E-05 |
| NM_001496 | GFRA3 | 2.0 | 0.8 | -1.4 | 2.6 | 5.0E-05 |
| NM_000641 | IL11 | 38.0 | 14.8 | -1.4 | 2.6 | 5.0E-05 |
| NM_001032296 | STK24 | 23.5 | 9.2 | -1.4 | 2.6 | 5.0E-05 |
| NM_001184782 | CXorf57 | 2.5 | 1.0 | -1.4 | 2.6 | 5.0E-05 |
| NM_001283009 | RTEL1 | 10.8 | 4.2 | -1.4 | 2.6 | 5.0E-05 |
| NM_012326 | MAPRE3 | 5.3 | 2.1 | -1.4 | 2.5 | 5.0E-05 |
| NM_001347 | DGKQ | 6.5 | 2.6 | -1.3 | 2.5 | 5.0E-05 |
| NM_005586 | MDFI | 22.7 | 8.9 | -1.3 | 2.5 | 5.0E-05 |
| NM_024333 | FSD1 | 24.3 | 9.6 | -1.3 | 2.5 | 5.0E-05 |
| NM_012396 | PHLDA3 | 29.9 | 11.8 | -1.3 | 2.5 | 5.0E-05 |
| NM_015149 | RGL1 | 3.0 | 1.2 | -1.3 | 2.5 | 5.0E-05 |
| NM_001127891 | MMP2 | 52.7 | 20.9 | -1.3 | 2.5 | 5.0E-05 |
| NM_024420 | PLA2G4A | 1.7 | 0.7 | -1.3 | 2.5 | 5.0E-05 |
| NM_004429 | EFNB1 | 27.6 | 11.0 | -1.3 | 2.5 | 5.0E-05 |
| NM_001130033 | PLEKHB1 | 2.2 | 0.9 | -1.3 | 2.5 | 5.0E-05 |
| NM_032488 | CNFN | 7.6 | 3.0 | -1.3 | 2.5 | 5.0E-05 |
| NM_003745 | SOCS1 | 6.9 | 2.8 | -1.3 | 2.5 | 5.0E-05 |
| NM_207363 | NCKAP5 | 2.7 | 1.1 | -1.3 | 2.5 | 5.0E-05 |
| NM_030762 | BHLHE41 | 2.2 | 0.9 | -1.3 | 2.5 | 5.0E-05 |
| NM_001042414 | PSPC1 | 54.8 | 21.9 | -1.3 | 2.5 | 5.0E-05 |
| NM_001113434 | C17orf51 | 5.4 | 2.2 | -1.3 | 2.5 | 5.0E-05 |
| NM_000121 | EPOR | 6.7 | 2.7 | -1.3 | 2.5 | 5.0E-05 |
| NM_018670 | MESP1 | 2.6 | 1.0 | -1.3 | 2.5 | 5.0E-05 |
| NM_032623 | MGARP | 6.8 | 2.7 | -1.3 | 2.5 | 5.0E-05 |
| NM_001002862 | DERL3 | 2.6 | 1.1 | -1.3 | 2.5 | 1.7E-02 |
| NM_001257370 | EME2 | 3.2 | 1.3 | -1.3 | 2.5 | 2.6E-02 |
| NM_024326 | FBXL15 | 5.3 | 2.2 | -1.3 | 2.5 | 5.0E-05 |
| NM_001002913 | PTRH1 | 14.3 | 5.8 | -1.3 | 2.5 | 5.0E-05 |
| NM_001004354 | NRARP | 1.8 | 0.7 | -1.3 | 2.5 | 5.0E-05 |
| NM_000854 | GSTT2 | 5.2 | 2.1 | -1.3 | 2.5 | 5.0E-05 |
| NM_003247 | THBS2 | 7.7 | 3.1 | -1.3 | 2.5 | 5.0E-05 |
| NM_001034852 | SMOC1 | 7.3 | 3.0 | -1.3 | 2.5 | 5.0E-05 |
| NM_002517 | NPAS1 | 5.8 | 2.4 | -1.3 | 2.5 | 5.0E-05 |
| NM_006324 | CFDP1 | 57.8 | 23.5 | -1.3 | 2.5 | 5.0E-05 |
| NM_000934 | SERPINF2 | 4.7 | 1.9 | -1.3 | 2.5 | 5.0E-05 |
| NM_002333 | LRP3 | 20.5 | 8.3 | -1.3 | 2.5 | 5.0E-05 |

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|--------------|----------|-------|-------|------|-----|---------|
| NM_002220 | ITPKA | 6.3 | 2.6 | -1.3 | 2.5 | 5.0E-05 |
| NM_000435 | NOTCH3 | 9.4 | 3.8 | -1.3 | 2.5 | 5.0E-05 |
| NM_001098531 | RAPGEF3 | 2.8 | 1.1 | -1.3 | 2.5 | 5.0E-05 |
| NM_032849 | MEDAG | 4.9 | 2.0 | -1.3 | 2.4 | 5.0E-05 |
| NM_001270377 | ANKRD46 | 6.8 | 2.8 | -1.3 | 2.4 | 5.0E-05 |
| NM_198545 | DRAXIN | 1.6 | 0.7 | -1.3 | 2.4 | 5.0E-05 |
| NM_004051 | BDH1 | 3.5 | 1.4 | -1.3 | 2.4 | 5.0E-05 |
| NM_007085 | FSTL1 | 354.1 | 145.3 | -1.3 | 2.4 | 5.0E-05 |
| NM_000663 | ABAT | 3.4 | 1.4 | -1.3 | 2.4 | 5.0E-05 |
| NM_001282766 | POLR1E | 25.0 | 10.3 | -1.3 | 2.4 | 5.0E-05 |
| NM_001145657 | RAP1GAP | 2.0 | 0.8 | -1.3 | 2.4 | 5.0E-05 |
| NM_145030 | PPP1R35 | 9.4 | 3.9 | -1.3 | 2.4 | 6.5E-04 |
| NM_001243013 | ABCY9 | 6.8 | 2.8 | -1.3 | 2.4 | 5.0E-05 |
| NM_198552 | FAM89A | 2.8 | 1.2 | -1.3 | 2.4 | 5.0E-05 |
| NM_153487 | MDGA1 | 3.0 | 1.2 | -1.3 | 2.4 | 5.0E-05 |
| NM_001253846 | GMDS | 18.3 | 7.6 | -1.3 | 2.4 | 5.0E-05 |
| NM_020979 | SH2B2 | 4.3 | 1.8 | -1.3 | 2.4 | 5.0E-05 |
| NM_212481 | ARID5A | 5.2 | 2.2 | -1.3 | 2.4 | 5.0E-05 |
| NM_001134830 | AHI1 | 6.9 | 2.9 | -1.3 | 2.4 | 5.0E-05 |
| NM_001165417 | SLC25A11 | 40.0 | 16.6 | -1.3 | 2.4 | 5.0E-05 |
| NM_004186 | SEMA3F | 20.5 | 8.5 | -1.3 | 2.4 | 5.0E-05 |
| NM_001193308 | SYTL1 | 1.5 | 0.6 | -1.3 | 2.4 | 6.5E-04 |
| NM_001009998 | SSBP4 | 19.5 | 8.1 | -1.3 | 2.4 | 5.0E-05 |
| NM_001130448 | C15orf62 | 18.6 | 7.7 | -1.3 | 2.4 | 5.0E-05 |
| NM_024310 | PLEKHF1 | 4.4 | 1.8 | -1.3 | 2.4 | 5.0E-05 |
| NM_002831 | PTPN6 | 6.0 | 2.5 | -1.3 | 2.4 | 5.0E-05 |
| NM_001127380 | SAA2 | 443.3 | 185.2 | -1.3 | 2.4 | 5.0E-05 |
| NM_001135155 | DPF1 | 4.2 | 1.7 | -1.3 | 2.4 | 5.0E-05 |
| NM_177454 | FAM171B | 2.8 | 1.2 | -1.3 | 2.4 | 5.0E-05 |
| NM_017870 | TMEM132A | 32.6 | 13.6 | -1.3 | 2.4 | 5.0E-05 |
| NM_017728 | TMEM104 | 8.6 | 3.6 | -1.3 | 2.4 | 5.0E-05 |
| NM_002923 | RGS2 | 35.0 | 14.7 | -1.3 | 2.4 | 5.0E-05 |
| NM_001048265 | C9orf116 | 6.2 | 2.6 | -1.2 | 2.4 | 8.0E-03 |
| NM_002962 | S100A5 | 1.6 | 0.7 | -1.2 | 2.4 | 5.0E-05 |
| NM_005854 | RAMP2 | 4.7 | 2.0 | -1.2 | 2.4 | 5.0E-05 |
| NM_001008223 | C1QL4 | 7.1 | 3.0 | -1.2 | 2.4 | 5.0E-05 |
| NM_001136263 | C2CD4C | 2.3 | 1.0 | -1.2 | 2.4 | 5.0E-05 |
| NM_021958 | HLX | 4.3 | 1.8 | -1.2 | 2.4 | 5.0E-05 |
| NM_031945 | TSPAN10 | 2.9 | 1.2 | -1.2 | 2.4 | 5.0E-05 |
| NM_032646 | TTYH2 | 1.7 | 0.7 | -1.2 | 2.4 | 5.0E-05 |
| NM_001177676 | GPR68 | 1.8 | 0.8 | -1.2 | 2.4 | 5.0E-05 |
| NM_001173408 | OBSL1 | 27.6 | 11.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_001670 | ARVCF | 5.0 | 2.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_001127383 | CYBRD1 | 24.8 | 10.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_001142935 | MXD3 | 9.9 | 4.2 | -1.2 | 2.3 | 1.6E-03 |
| NM_001270422 | KCNJ16 | 7.9 | 3.4 | -1.2 | 2.3 | 5.0E-05 |
| NM_001024844 | CD82 | 54.5 | 23.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_006158 | NEFL | 2.1 | 0.9 | -1.2 | 2.3 | 5.0E-05 |
| NM_001134422 | CDV3 | 74.0 | 31.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_004443 | EPHB3 | 2.1 | 0.9 | -1.2 | 2.3 | 5.0E-05 |
| NM_001271168 | PCED1A | 14.3 | 6.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_001029871 | RSPO4 | 5.3 | 2.3 | -1.2 | 2.3 | 5.0E-05 |
| NM_000854 | GSTT2 | 1.8 | 0.8 | -1.2 | 2.3 | 5.0E-05 |
| NM_001103149 | PNMAL1 | 5.0 | 2.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_001485 | GBX2 | 5.1 | 2.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_002203 | ITGA2 | 2.7 | 1.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_001242366 | SLC46A1 | 5.2 | 2.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_001272042 | RPS6KB1 | 9.9 | 4.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_015933 | TMA7 | 351.3 | 150.9 | -1.2 | 2.3 | 5.0E-05 |
| NM_001257386 | ABCG2 | 1.7 | 0.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_001048209 | NTM | 3.4 | 1.4 | -1.2 | 2.3 | 5.0E-05 |

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|--------------|----------|-------|------|------|-----|---------|
| NM_001547 | IFIT2 | 7.4 | 3.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_181093 | SCYL3 | 1.8 | 0.8 | -1.2 | 2.3 | 1.0E-04 |
| NM_001193414 | TUBA8 | 8.1 | 3.5 | -1.2 | 2.3 | 5.0E-05 |
| NM_032827 | ATOH8 | 21.3 | 9.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_001278557 | WSB2 | 38.6 | 16.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_001010866 | TMEM201 | 17.2 | 7.4 | -1.2 | 2.3 | 5.0E-05 |
| NM_015932 | POMP | 92.9 | 40.3 | -1.2 | 2.3 | 5.0E-05 |
| NM_001163423 | ZNF580 | 36.7 | 15.9 | -1.2 | 2.3 | 5.0E-05 |
| NM_144617 | HSPB6 | 4.6 | 2.0 | -1.2 | 2.3 | 5.0E-05 |
| NM_001080415 | U2SURP | 5.1 | 2.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_001257135 | LIF | 22.0 | 9.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_144593 | RHEBL1 | 11.1 | 4.8 | -1.2 | 2.3 | 5.0E-05 |
| NM_000930 | PLAT | 61.1 | 26.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_003820 | TNFRSF14 | 4.8 | 2.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_012339 | TSPAN15 | 27.8 | 12.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_001111270 | ARHGEF25 | 5.6 | 2.5 | -1.2 | 2.3 | 5.0E-05 |
| NM_001278794 | NPY4R | 6.6 | 2.9 | -1.2 | 2.3 | 5.0E-05 |
| NM_014293 | NPTXR | 14.2 | 6.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_013379 | DPP7 | 29.9 | 13.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_001099781 | GGT5 | 5.0 | 2.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_001859 | SLC31A1 | 17.7 | 7.8 | -1.2 | 2.3 | 5.0E-05 |
| NM_018957 | SH3BP1 | 12.8 | 5.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_173593 | B4GALNT3 | 2.4 | 1.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_000757 | CSF1 | 37.5 | 16.5 | -1.2 | 2.3 | 5.0E-05 |
| NM_032246 | MEX3B | 3.7 | 1.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_032304 | HAGHL | 5.8 | 2.5 | -1.2 | 2.3 | 2.0E-04 |
| NM_001278603 | NUP54 | 24.5 | 10.8 | -1.2 | 2.3 | 5.0E-05 |
| NM_000156 | GAMT | 42.4 | 18.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_001042544 | LTBP4 | 33.7 | 14.9 | -1.2 | 2.3 | 5.0E-05 |
| NM_000434 | NEU1 | 44.1 | 19.5 | -1.2 | 2.3 | 5.0E-05 |
| NM_001031740 | MANEAL | 1.5 | 0.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_003255 | TIMP2 | 129.0 | 57.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_022658 | HOXC8 | 2.4 | 1.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_032430 | BRSK1 | 4.4 | 2.0 | -1.2 | 2.3 | 5.0E-05 |
| NM_001001436 | C16orf87 | 8.3 | 3.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_001142627 | SEC61A2 | 11.6 | 5.1 | -1.2 | 2.3 | 5.0E-05 |
| NM_001271811 | MED21 | 12.7 | 5.7 | -1.2 | 2.3 | 5.0E-05 |
| NM_001032998 | KYNU | 5.1 | 2.3 | -1.2 | 2.3 | 5.0E-05 |
| NM_014460 | CSDC2 | 3.5 | 1.6 | -1.2 | 2.3 | 5.0E-05 |
| NM_000213 | ITGB4 | 2.6 | 1.2 | -1.2 | 2.3 | 5.0E-05 |
| NM_021939 | FKBP10 | 87.5 | 38.8 | -1.2 | 2.3 | 5.0E-05 |
| NM_001001503 | NDUFV3 | 31.2 | 13.8 | -1.2 | 2.3 | 5.0E-05 |
| NM_006014 | LAGE3 | 28.3 | 12.6 | -1.2 | 2.2 | 5.0E-05 |
| NM_019065 | NECAB2 | 1.6 | 0.7 | -1.2 | 2.2 | 5.0E-05 |
| NM_001252607 | THBS3 | 9.2 | 4.1 | -1.2 | 2.2 | 5.0E-05 |
| NM_138424 | KIF12 | 4.6 | 2.0 | -1.2 | 2.2 | 5.0E-05 |
| NM_020998 | MST1 | 4.4 | 2.0 | -1.2 | 2.2 | 5.0E-05 |
| NM_001098270 | MGAT3 | 2.5 | 1.1 | -1.2 | 2.2 | 5.0E-05 |
| NM_012205 | HAAO | 7.5 | 3.3 | -1.2 | 2.2 | 5.0E-05 |
| NM_080430 | SELM | 51.5 | 23.0 | -1.2 | 2.2 | 5.0E-05 |
| NM_012340 | NFATC2 | 2.5 | 1.1 | -1.2 | 2.2 | 2.0E-03 |
| NM_001130029 | RELL2 | 8.9 | 4.0 | -1.2 | 2.2 | 5.0E-05 |
| NM_001260 | CDK8 | 8.4 | 3.8 | -1.2 | 2.2 | 5.0E-05 |
| NM_021992 | TMSB15A | 12.9 | 5.8 | -1.2 | 2.2 | 5.0E-05 |
| NM_006221 | PIN1 | 79.4 | 35.7 | -1.2 | 2.2 | 5.0E-05 |
| NM_006443 | DNPH1 | 45.4 | 20.4 | -1.2 | 2.2 | 5.0E-05 |
| NM_001190942 | TNFSF10 | 20.9 | 9.4 | -1.2 | 2.2 | 5.0E-05 |
| NM_003730 | RNASSET2 | 137.0 | 61.6 | -1.2 | 2.2 | 5.0E-05 |
| NM_181900 | STARD5 | 2.3 | 1.0 | -1.2 | 2.2 | 5.0E-05 |
| NM_001006612 | WBP5 | 67.5 | 30.4 | -1.2 | 2.2 | 5.0E-05 |
| NM_001271711 | SLC2A8 | 14.2 | 6.4 | -1.2 | 2.2 | 5.0E-05 |

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|--------------|--------------|------|------|------|-----|---------|
| NM_004102 | FABP3 | 2.5 | 1.1 | -1.2 | 2.2 | 4.4E-03 |
| NM_006103 | WFDC2 | 4.0 | 1.8 | -1.1 | 2.2 | 5.0E-05 |
| NM_001130992 | RBP1 | 5.9 | 2.6 | -1.1 | 2.2 | 5.0E-05 |
| NM_002736 | PRKAR2B | 1.5 | 0.7 | -1.1 | 2.2 | 5.0E-05 |
| NM_138396 | MARCH9 | 3.0 | 1.3 | -1.1 | 2.2 | 5.0E-05 |
| NM_001204414 | TINAGL1 | 62.1 | 28.1 | -1.1 | 2.2 | 5.0E-05 |
| NM_001185056 | CLDN11 | 12.8 | 5.8 | -1.1 | 2.2 | 5.0E-05 |
| NM_018427 | RRN3 | 23.5 | 10.6 | -1.1 | 2.2 | 5.0E-05 |
| NM_002084 | GPX3 | 27.0 | 12.3 | -1.1 | 2.2 | 5.0E-05 |
| NM_001098519 | LRRC43 | 2.1 | 0.9 | -1.1 | 2.2 | 5.2E-03 |
| NM_018226 | RNPEPL1 | 13.7 | 6.2 | -1.1 | 2.2 | 5.0E-05 |
| NM_032521 | PAR6B | 1.9 | 0.9 | -1.1 | 2.2 | 5.0E-05 |
| NR_015367 | LOC550643 | 42.8 | 19.4 | -1.1 | 2.2 | 5.0E-05 |
| NM_025161 | C17orf70 | 24.5 | 11.1 | -1.1 | 2.2 | 5.0E-05 |
| NM_021800 | DNAJC12 | 2.9 | 1.3 | -1.1 | 2.2 | 5.0E-05 |
| NM_001202513 | MXD1 | 2.4 | 1.1 | -1.1 | 2.2 | 5.0E-05 |
| NM_025092 | ATHL1 | 3.1 | 1.4 | -1.1 | 2.2 | 5.0E-05 |
| NR_110115 | LOC101927746 | 4.6 | 2.1 | -1.1 | 2.2 | 3.5E-04 |
| NM_004843 | IL27RA | 19.4 | 8.9 | -1.1 | 2.2 | 5.0E-05 |
| NM_207346 | TSEN54 | 15.8 | 7.2 | -1.1 | 2.2 | 5.0E-05 |
| NM_020698 | TMCC3 | 1.9 | 0.9 | -1.1 | 2.2 | 5.0E-05 |
| NM_002201 | ISG20 | 7.1 | 3.2 | -1.1 | 2.2 | 5.0E-05 |
| NM_052855 | ANKRD40 | 18.3 | 8.4 | -1.1 | 2.2 | 5.0E-05 |
| NM_004925 | AQP3 | 3.3 | 1.5 | -1.1 | 2.2 | 5.0E-05 |
| NM_001145939 | PAFAH1B3 | 50.8 | 23.3 | -1.1 | 2.2 | 5.0E-05 |
| NM_032472 | PPIL3 | 20.2 | 9.3 | -1.1 | 2.2 | 5.0E-05 |
| NM_020533 | MCOLN1 | 15.1 | 6.9 | -1.1 | 2.2 | 5.0E-05 |
| NM_139172 | TMEM190 | 2.0 | 0.9 | -1.1 | 2.2 | 1.0E-04 |
| NM_020777 | SORCS2 | 3.0 | 1.4 | -1.1 | 2.2 | 5.0E-05 |
| NM_000737 | CGB | 4.6 | 2.1 | -1.1 | 2.2 | 5.0E-05 |
| NM_005755 | EBI3 | 6.7 | 3.1 | -1.1 | 2.2 | 5.0E-05 |
| NM_001145815 | AMDHD2 | 15.1 | 6.9 | -1.1 | 2.2 | 5.0E-05 |
| NM_001171690 | GCAT | 17.3 | 8.0 | -1.1 | 2.2 | 5.0E-05 |
| NM_001166356 | SHMT2 | 75.2 | 34.8 | -1.1 | 2.2 | 5.0E-05 |
| NM_001193520 | RASAL1 | 5.4 | 2.5 | -1.1 | 2.2 | 5.0E-05 |
| NM_001305 | CLDN4 | 3.0 | 1.4 | -1.1 | 2.2 | 5.0E-05 |
| NM_001271856 | GRASP | 2.5 | 1.2 | -1.1 | 2.2 | 5.0E-05 |
| NM_001142469 | C16orf45 | 8.3 | 3.9 | -1.1 | 2.2 | 5.0E-05 |
| NM_002246 | KCNK3 | 2.0 | 0.9 | -1.1 | 2.2 | 5.0E-05 |
| NM_001177801 | RANGRF | 12.7 | 5.9 | -1.1 | 2.1 | 5.0E-05 |
| NR_002736 | SNORD60 | 12.2 | 5.7 | -1.1 | 2.1 | 5.0E-05 |
| NM_001006946 | SDC1 | 36.3 | 16.9 | -1.1 | 2.1 | 5.0E-05 |
| NM_001270879 | MPC1 | 18.3 | 8.5 | -1.1 | 2.1 | 5.0E-05 |
| NM_001163446 | CPA4 | 8.7 | 4.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_005149 | TBX19 | 21.6 | 10.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_138370 | PKDCC | 4.3 | 2.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_001080425 | BEX4 | 11.5 | 5.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_004941 | DHX8 | 15.6 | 7.3 | -1.1 | 2.1 | 5.0E-05 |
| NR_002196 | H19 | 12.8 | 6.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_080744 | SRCRB4D | 2.4 | 1.1 | -1.1 | 2.1 | 5.0E-05 |
| NM_004977 | KCNC3 | 2.7 | 1.3 | -1.1 | 2.1 | 5.0E-05 |
| NM_001199017 | LRRC49 | 3.8 | 1.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_001278549 | PDK1 | 9.2 | 4.3 | -1.1 | 2.1 | 5.0E-05 |
| NM_022073 | EGLN3 | 4.8 | 2.2 | -1.1 | 2.1 | 5.0E-05 |
| NM_001130831 | GAS7 | 8.5 | 4.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_005443 | PAPSS1 | 41.2 | 19.4 | -1.1 | 2.1 | 5.0E-05 |
| NR_034084 | LOC729852 | 7.2 | 3.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_013242 | C16orf80 | 43.9 | 20.6 | -1.1 | 2.1 | 5.0E-05 |
| NM_007224 | NXPH4 | 4.3 | 2.0 | -1.1 | 2.1 | 5.0E-05 |
| NR_002809 | LOC338799 | 5.4 | 2.5 | -1.1 | 2.1 | 5.0E-05 |
| NM_002141 | HOXA4 | 9.9 | 4.7 | -1.1 | 2.1 | 2.5E-04 |

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|--------------|----------|-------|------|------|-----|---------|
| NM_004418 | DUSP2 | 13.0 | 6.1 | -1.1 | 2.1 | 5.0E-05 |
| NM_001256604 | C1orf85 | 33.9 | 16.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_001042574 | CRTC3 | 10.8 | 5.1 | -1.1 | 2.1 | 5.0E-05 |
| NM_199336 | FAHD2B | 9.5 | 4.5 | -1.1 | 2.1 | 5.0E-05 |
| NM_015907 | LAP3 | 32.6 | 15.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_014862 | ARNT2 | 1.5 | 0.7 | -1.1 | 2.1 | 5.0E-05 |
| NM_005950 | MT1G | 8.1 | 3.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_018004 | TMEM45A | 9.8 | 4.7 | -1.1 | 2.1 | 5.0E-05 |
| NM_002631 | PGD | 93.0 | 44.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_001135772 | LRP5L | 5.0 | 2.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_024524 | ATP13A3 | 58.6 | 27.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_018653 | GPRC5C | 58.6 | 27.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_004840 | ARHGEF6 | 2.0 | 0.9 | -1.1 | 2.1 | 5.0E-05 |
| NM_004140 | LLGL1 | 29.4 | 14.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_000159 | GCDH | 9.9 | 4.7 | -1.1 | 2.1 | 5.0E-05 |
| NM_177533 | NUDT14 | 18.8 | 8.9 | -1.1 | 2.1 | 5.0E-05 |
| NM_001015055 | RTKN | 7.4 | 3.5 | -1.1 | 2.1 | 5.0E-05 |
| NM_006026 | H1FX | 60.8 | 29.0 | -1.1 | 2.1 | 5.0E-05 |
| NM_001037324 | ECE2 | 15.5 | 7.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_031209 | QTRT1 | 22.6 | 10.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_001008495 | TMEM64 | 22.5 | 10.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_000187 | HGD | 4.8 | 2.3 | -1.1 | 2.1 | 5.0E-05 |
| NM_052874 | STX1B | 2.8 | 1.3 | -1.1 | 2.1 | 1.3E-03 |
| NM_152339 | SPATA2L | 6.6 | 3.1 | -1.1 | 2.1 | 3.5E-03 |
| NR_038831 | HOXA-AS3 | 4.7 | 2.2 | -1.1 | 2.1 | 5.0E-05 |
| NM_001206540 | CAPZB | 159.4 | 76.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_145057 | CDC42EP5 | 7.9 | 3.8 | -1.1 | 2.1 | 5.0E-05 |
| NM_002121 | HLA-DPB1 | 2.5 | 1.2 | -1.1 | 2.1 | 5.0E-05 |
| NM_032947 | SMIM3 | 54.3 | 26.1 | -1.1 | 2.1 | 5.0E-05 |
| NM_001206528 | CRTAC1 | 5.5 | 2.6 | -1.1 | 2.1 | 5.0E-05 |
| NM_012254 | SLC27A5 | 3.4 | 1.6 | -1.1 | 2.1 | 5.0E-05 |
| NM_001003683 | PDE1A | 2.5 | 1.2 | -1.1 | 2.1 | 5.0E-05 |
| NM_001130677 | C17orf96 | 7.0 | 3.4 | -1.1 | 2.1 | 5.0E-05 |
| NM_030647 | JHDM1D | 1.5 | 0.7 | -1.1 | 2.1 | 5.0E-05 |
| NM_001193511 | MAP3K12 | 9.8 | 4.7 | -1.0 | 2.1 | 4.0E-03 |
| NM_014329 | EDC4 | 27.5 | 13.3 | -1.0 | 2.1 | 5.0E-05 |
| NM_001170938 | ISYNA1 | 20.1 | 9.7 | -1.0 | 2.1 | 5.0E-05 |
| NM_033445 | HIST3H2A | 2.2 | 1.1 | -1.0 | 2.1 | 3.0E-04 |
| NM_021258 | IL22RA1 | 2.8 | 1.4 | -1.0 | 2.1 | 5.0E-05 |
| NM_021214 | ABHD17C | 9.5 | 4.6 | -1.0 | 2.1 | 5.0E-05 |
| NM_002607 | PDGFA | 4.0 | 2.0 | -1.0 | 2.1 | 5.0E-05 |
| NM_015104 | ATG2A | 6.5 | 3.1 | -1.0 | 2.1 | 5.0E-05 |
| NM_016399 | TRIAP1 | 27.8 | 13.5 | -1.0 | 2.1 | 6.0E-04 |
| NM_000022 | ADA | 16.1 | 7.8 | -1.0 | 2.1 | 5.0E-05 |
| NR_003613 | PMS2P1 | 6.2 | 3.0 | -1.0 | 2.1 | 1.3E-03 |
| NM_001172 | ARG2 | 7.5 | 3.6 | -1.0 | 2.1 | 5.0E-05 |
| NM_018973 | DPM3 | 29.9 | 14.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_006133 | DAGLA | 5.9 | 2.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001195483 | SLC12A8 | 18.9 | 9.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_001207012 | PGF | 9.9 | 4.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001193522 | FAM65A | 35.5 | 17.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_001135247 | MFAP2 | 64.6 | 31.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001201466 | ROPN1L | 2.2 | 1.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_001935 | DPP4 | 3.0 | 1.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_001289123 | TUBB4A | 7.3 | 3.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001190918 | THRA | 9.5 | 4.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_033510 | DISP2 | 4.4 | 2.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_145257 | CCSAP | 7.0 | 3.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_001077399 | PNKD | 68.5 | 33.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001286565 | KIAA0513 | 4.0 | 2.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_001130991 | HYOU1 | 70.7 | 34.7 | -1.0 | 2.0 | 5.0E-05 |

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|--------------|--------------|-------|-------|------|-----|---------|
| NM_020639 | RIPK4 | 6.9 | 3.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_080621 | SAMD10 | 2.5 | 1.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_024792 | FAM57A | 45.2 | 22.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_001206981 | C4orf26 | 3.0 | 1.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_020795 | NLGN2 | 30.6 | 15.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_000299 | PKP1 | 1.7 | 0.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001257328 | ARRB2 | 19.3 | 9.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_001286777 | CRISPLD1 | 7.2 | 3.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_001406 | EFNB3 | 10.4 | 5.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_001258307 | CCDC74B | 3.9 | 1.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_032512 | PDZD4 | 2.8 | 1.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_018356 | C5orf22 | 16.5 | 8.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_017813 | IMPAD1 | 27.5 | 13.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_020315 | PDXP | 11.9 | 5.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001287580 | RBKS | 5.6 | 2.8 | -1.0 | 2.0 | 1.9E-03 |
| NM_032437 | EFCAB7 | 3.6 | 1.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_153221 | CILP2 | 6.6 | 3.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_024520 | C2orf47 | 16.2 | 8.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_030579 | CYB5B | 29.3 | 14.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_024329 | EFHD2 | 31.1 | 15.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_000439 | PCSK1 | 1.8 | 0.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_004112 | FGF11 | 7.1 | 3.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_138358 | C19orf52 | 12.4 | 6.1 | -1.0 | 2.0 | 1.0E-04 |
| NM_001048212 | CEMP1 | 10.0 | 5.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_020879 | CCDC146 | 2.0 | 1.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_012079 | DGAT1 | 8.6 | 4.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_004223 | UBE2L6 | 43.5 | 21.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001174097 | LDHB | 715.2 | 355.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001039574 | KCNC4 | 1.6 | 0.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001023567 | GOLGA8B | 18.5 | 9.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_000561 | GSTM1 | 21.4 | 10.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_013241 | FHOD1 | 18.7 | 9.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_173564 | NYAP1 | 1.5 | 0.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_001007026 | ATN1 | 201.1 | 100.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_032343 | CHCHD6 | 16.7 | 8.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_002281 | KRT81 | 31.9 | 15.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_178448 | SAPCD2 | 8.5 | 4.2 | -1.0 | 2.0 | 5.0E-05 |
| NR_033959 | LOC100506060 | 4.8 | 2.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_004569 | PIGH | 14.3 | 7.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_017623 | CNNM3 | 7.5 | 3.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_005052 | RAC3 | 17.7 | 8.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_032683 | MPV17L2 | 22.9 | 11.4 | -1.0 | 2.0 | 5.0E-05 |
| NR_015454 | MAFG-AS1 | 2.8 | 1.4 | -1.0 | 2.0 | 2.0E-02 |
| NM_005101 | ISG15 | 100.9 | 50.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_001242487 | ZSWIM8 | 18.5 | 9.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_018285 | IMP3 | 29.1 | 14.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_004497 | FOXA3 | 1.5 | 0.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_002133 | HMOX1 | 37.5 | 18.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_001129 | AEBP1 | 6.7 | 3.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_001032279 | RCE1 | 27.0 | 13.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_001129891 | FAM196B | 1.5 | 0.7 | -1.0 | 2.0 | 6.0E-04 |
| NM_001142622 | GHDC | 6.9 | 3.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_207370 | GPR153 | 7.8 | 3.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001001994 | GPM6B | 2.1 | 1.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_004096 | EIF4EBP2 | 28.7 | 14.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_001206696 | IRF6 | 1.7 | 0.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001130720 | AHCYL2 | 4.2 | 2.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_018367 | ACER3 | 9.4 | 4.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_033513 | TPGS1 | 11.5 | 5.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001197216 | ASGR1 | 2.1 | 1.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_001005407 | CACNA1H | 3.6 | 1.8 | -1.0 | 2.0 | 5.0E-05 |

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|--------------|------------|--------|-------|------|-----|---------|
| NM_001172774 | DPY19L3 | 7.7 | 3.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001008701 | LPHN1 | 5.1 | 2.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001172700 | SHROOM1 | 11.6 | 5.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001164410 | CDK5 | 23.7 | 12.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_001083926 | ASRGL1 | 18.2 | 9.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_001217 | CA11 | 2.8 | 1.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_015320 | ARHGEF4 | 1.5 | 0.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_004750 | CRLF1 | 17.3 | 8.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001031709 | RNLS | 3.7 | 1.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_000941 | POR | 52.1 | 26.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_133468 | BMPER | 1.8 | 0.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_000701 | ATP1A1 | 159.0 | 80.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_016229 | CYB5R2 | 2.8 | 1.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_015141 | GPD1L | 6.1 | 3.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_001131064 | ACP2 | 24.6 | 12.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_001171971 | CDHR1 | 17.7 | 9.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_002850 | PTPRS | 23.7 | 12.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_138801 | GALM | 5.6 | 2.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001032409 | OAS1 | 4.5 | 2.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_001164462 | MUC12 | 3.4 | 1.7 | -1.0 | 2.0 | 2.5E-03 |
| NM_001039503 | PRSS53 | 179.4 | 91.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_001032367 | SPINT1 | 23.0 | 11.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_032142 | CEP192 | 7.4 | 3.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001271893 | TWIST2 | 1.7 | 0.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_001042535 | AGAP3 | 29.2 | 14.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_001015002 | LLGL2 | 6.1 | 3.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_001126181 | NRGN | 27.4 | 14.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_001258446 | TOP1MT | 7.1 | 3.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_002609 | PDGFRB | 16.6 | 8.5 | -1.0 | 2.0 | 5.0E-05 |
| NM_006688 | C1QL1 | 87.7 | 44.8 | -1.0 | 2.0 | 5.0E-05 |
| NM_015161 | ARL6IP1 | 185.9 | 95.1 | -1.0 | 2.0 | 5.0E-05 |
| NM_001083885 | DFNB31 | 5.0 | 2.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001166449 | ITIH4 | 11.7 | 6.0 | -1.0 | 2.0 | 5.0E-05 |
| NM_016217 | HECA | 3.2 | 1.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_001283034 | FAM92A1 | 11.0 | 5.6 | -1.0 | 2.0 | 5.0E-05 |
| NM_001270407 | JAM2 | 2.5 | 1.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_001166347 | SLC26A11 | 10.2 | 5.2 | -1.0 | 2.0 | 5.0E-05 |
| NM_001286496 | PIF1 | 6.7 | 3.4 | -1.0 | 2.0 | 5.0E-05 |
| NM_014507 | MCAT | 11.1 | 5.7 | -1.0 | 2.0 | 5.0E-05 |
| NM_005220 | DLX3 | 1.7 | 0.9 | -1.0 | 2.0 | 5.0E-05 |
| NM_005576 | LOXL1 | 33.8 | 17.3 | -1.0 | 2.0 | 5.0E-05 |
| NM_007260 | LYPLA2 | 46.6 | 23.9 | -1.0 | 1.9 | 5.0E-05 |
| NM_053279 | FAM167A | 23.3 | 12.0 | -1.0 | 1.9 | 5.0E-05 |
| NM_002855 | PVRL1 | 9.5 | 4.9 | -1.0 | 1.9 | 5.0E-05 |
| NM_002982 | CCL2 | 7.0 | 3.6 | -1.0 | 1.9 | 5.0E-05 |
| NM_021095 | SLC5A6 | 22.0 | 11.3 | -1.0 | 1.9 | 5.0E-05 |
| NM_032409 | PINK1 | 47.3 | 24.3 | -1.0 | 1.9 | 1.8E-03 |
| NM_175039 | ST6GALNAC4 | 16.1 | 8.3 | -1.0 | 1.9 | 5.0E-05 |
| NM_001282446 | YAE1D1 | 10.4 | 5.4 | -1.0 | 1.9 | 5.0E-05 |
| NM_024871 | MAP6D1 | 6.9 | 3.6 | -1.0 | 1.9 | 5.0E-05 |
| NM_024818 | UBA5 | 17.3 | 8.9 | -1.0 | 1.9 | 5.0E-05 |
| NM_003281 | TNNI1 | 2.3 | 1.2 | -1.0 | 1.9 | 5.0E-05 |
| NM_007006 | NUDT21 | 46.8 | 24.2 | -1.0 | 1.9 | 5.0E-05 |
| NM_003080 | SMPD2 | 6.3 | 3.3 | -1.0 | 1.9 | 5.0E-05 |
| NM_001042422 | SLC16A3 | 442.5 | 228.9 | -1.0 | 1.9 | 5.0E-05 |
| NM_001145396 | ALDH16A1 | 16.5 | 8.5 | -1.0 | 1.9 | 5.0E-05 |
| NM_152345 | ANKRD13B | 4.9 | 2.5 | -1.0 | 1.9 | 5.0E-05 |
| NM_001159287 | TPI1 | 1038.8 | 537.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_152911 | PAOX | 4.0 | 2.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_003239 | TGFB3 | 1.9 | 1.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_004711 | SYNGR1 | 18.0 | 9.4 | -0.9 | 1.9 | 5.0E-05 |

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|--------------|-----------|-------|-------|------|-----|---------|
| NM_005415 | SLC20A1 | 107.1 | 55.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001127320 | UBAP2L | 67.8 | 35.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_001277233 | TM7SF2 | 30.2 | 15.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_030576 | LIMD2 | 13.8 | 7.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_001172415 | BAG1 | 7.1 | 3.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_005434 | MALL | 12.7 | 6.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001160047 | TXNDC16 | 6.8 | 3.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001163817 | DHCR7 | 38.0 | 19.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_138401 | MVB12A | 22.7 | 11.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_001166111 | PNPLA6 | 22.3 | 11.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_002345 | LUM | 17.7 | 9.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_001079533 | CPEB1 | 1.5 | 0.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_001099952 | ITPR1 | 3.7 | 1.9 | -0.9 | 1.9 | 5.0E-05 |
| NM_001142861 | SMAD6 | 16.0 | 8.4 | -0.9 | 1.9 | 5.0E-05 |
| NM_018584 | CAMK2N1 | 4.3 | 2.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_001195218 | DCXR | 61.6 | 32.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_015956 | MRPL4 | 46.6 | 24.5 | -0.9 | 1.9 | 5.0E-05 |
| NM_003693 | SCARF1 | 4.0 | 2.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_005027 | PIK3R2 | 70.4 | 37.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_001146158 | MOGS | 27.8 | 14.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001253891 | DGAT2 | 3.6 | 1.9 | -0.9 | 1.9 | 5.0E-05 |
| NM_001018070 | CORO1B | 46.6 | 24.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_199285 | PRR19 | 3.6 | 1.9 | -0.9 | 1.9 | 1.5E-04 |
| NM_022726 | ELOVL4 | 4.3 | 2.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_001077262 | UBXN11 | 10.6 | 5.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_152285 | ARRDC1 | 13.6 | 7.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_018649 | H2AFY2 | 18.2 | 9.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001128141 | DPEP1 | 2.1 | 1.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_005475 | SH2B3 | 19.0 | 10.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_013324 | CISH | 1.9 | 1.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_014936 | ENPP4 | 3.8 | 2.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_033254 | BOC | 5.0 | 2.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001143780 | SLC25A39 | 80.3 | 42.5 | -0.9 | 1.9 | 5.0E-05 |
| NM_020338 | ZMIZ1 | 20.6 | 10.9 | -0.9 | 1.9 | 5.0E-05 |
| NM_016113 | TRPV2 | 1.9 | 1.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_002758 | MAP2K6 | 2.2 | 1.2 | -0.9 | 1.9 | 6.0E-04 |
| NM_138462 | ZMYND19 | 30.3 | 16.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_001031677 | RAB24 | 21.9 | 11.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001103160 | SH2D5 | 3.1 | 1.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_001143943 | EFCAB2 | 5.8 | 3.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_001202439 | NCR3LG1 | 1.8 | 1.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_001206878 | CTDSP1 | 27.9 | 14.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_001080824 | TRABD2A | 33.5 | 17.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_005044 | PRKX | 6.0 | 3.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_007284 | TWF2 | 66.2 | 35.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_001129727 | PLEKHG4 | 7.3 | 3.9 | -0.9 | 1.9 | 5.0E-05 |
| NM_000402 | G6PD | 72.3 | 38.4 | -0.9 | 1.9 | 5.0E-05 |
| NM_001166392 | TPBG | 8.0 | 4.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_012168 | FBXO2 | 3.1 | 1.7 | -0.9 | 1.9 | 1.5E-04 |
| NM_013439 | PILRA | 1.5 | 0.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_002229 | JUNB | 37.3 | 19.9 | -0.9 | 1.9 | 5.0E-05 |
| NM_001134875 | C14orf80 | 406.7 | 216.4 | -0.9 | 1.9 | 5.0E-05 |
| NM_020375 | C12orf5 | 5.1 | 2.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_001170726 | GPR137 | 20.6 | 11.0 | -0.9 | 1.9 | 5.0E-05 |
| NR_027032 | AGAP2-AS1 | 5.2 | 2.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_004147 | DRG1 | 60.1 | 32.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_015102 | NPHP4 | 6.1 | 3.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_001039477 | THEMIS2 | 4.4 | 2.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_145640 | APOL3 | 4.2 | 2.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_003137 | SRPK1 | 23.6 | 12.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_006455 | LEPREL4 | 23.7 | 12.7 | -0.9 | 1.9 | 5.0E-05 |

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|--------------|-----------------|-------|------|------|-----|---------|
| NM_001164741 | ARHGAP4 | 1.8 | 1.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_000189 | HK2 | 6.8 | 3.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_001005915 | ERBB3 | 1.5 | 0.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_018275 | C7orf43 | 9.9 | 5.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_006735 | HOXA2 | 16.4 | 8.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_001271904 | GSKIP | 18.2 | 9.8 | -0.9 | 1.9 | 5.0E-05 |
| NM_030978 | ARPC5L | 65.5 | 35.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_173687 | C8orf31 | 2.4 | 1.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_032271 | TRAF7 | 23.4 | 12.5 | -0.9 | 1.9 | 5.0E-05 |
| NM_080677 | DYNLL2 | 46.4 | 24.9 | -0.9 | 1.9 | 5.0E-05 |
| NM_001284355 | AMZ1 | 8.4 | 4.5 | -0.9 | 1.9 | 5.0E-05 |
| NM_001127325 | MAD2L2 | 67.1 | 36.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_004127 | GPS1 | 70.9 | 38.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_016234 | ACSL5 | 2.4 | 1.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_001946 | DUSP6 | 7.7 | 4.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_003093 | SNRPC | 102.6 | 55.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_001146310 | C1orf86 | 54.9 | 29.6 | -0.9 | 1.9 | 5.0E-05 |
| NM_032412 | CYSTM1 | 42.9 | 23.1 | -0.9 | 1.9 | 5.0E-05 |
| NM_001204103 | PPT2 | 21.2 | 11.4 | -0.9 | 1.9 | 5.0E-05 |
| NM_001286554 | USP49 | 5.0 | 2.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_032310 | C9orf89 | 23.0 | 12.4 | -0.9 | 1.9 | 5.0E-05 |
| NM_032902 | PPP1R16A | 12.5 | 6.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_000543 | SMPD1 | 29.0 | 15.7 | -0.9 | 1.9 | 5.0E-05 |
| NM_004322 | BAD | 52.3 | 28.2 | -0.9 | 1.9 | 5.0E-05 |
| NM_000283 | PDE6B | 2.6 | 1.4 | -0.9 | 1.9 | 5.0E-05 |
| NM_001009936 | PHF19 | 31.4 | 17.0 | -0.9 | 1.9 | 5.0E-05 |
| NM_012333 | GJA9-MYCBPMYCBP | 20.9 | 11.3 | -0.9 | 1.9 | 5.0E-05 |
| NM_014367 | FAM162A | 75.7 | 40.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_030622 | CYP2S1 | 4.9 | 2.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_025245 | PBX4 | 6.5 | 3.5 | -0.9 | 1.8 | 5.0E-05 |
| NM_020771 | HACE1 | 6.4 | 3.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_001085354 | MORC4 | 13.1 | 7.1 | -0.9 | 1.8 | 5.0E-05 |
| NM_001195278 | TMEM178B | 9.2 | 5.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_020862 | LRFN1 | 1.6 | 0.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_001077497 | PRR3 | 6.0 | 3.3 | -0.9 | 1.8 | 5.0E-04 |
| NM_002513 | NME3 | 69.9 | 37.9 | -0.9 | 1.8 | 5.0E-05 |
| NR_038393 | LOC100506178 | 2.0 | 1.1 | -0.9 | 1.8 | 5.0E-05 |
| NM_001100818 | PID1 | 23.7 | 12.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_003685 | KHSRP | 88.0 | 47.7 | -0.9 | 1.8 | 5.0E-05 |
| NM_017842 | SLC48A1 | 12.1 | 6.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_000367 | TPMT | 15.1 | 8.2 | -0.9 | 1.8 | 5.0E-05 |
| NM_001207009 | ZNF497 | 4.4 | 2.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_016466 | ANKRD39 | 14.7 | 8.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_001080396 | FAM155A | 2.3 | 1.2 | -0.9 | 1.8 | 5.0E-05 |
| NM_012401 | PLXNB2 | 63.1 | 34.3 | -0.9 | 1.8 | 5.0E-05 |
| NR_024031 | DANCR | 31.1 | 16.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_213720 | CHCHD10 | 33.3 | 18.1 | -0.9 | 1.8 | 5.0E-05 |
| NM_022835 | PLEKHG2 | 10.3 | 5.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_025232 | REEP4 | 51.7 | 28.2 | -0.9 | 1.8 | 5.0E-05 |
| NM_024571 | SNRNP25 | 96.1 | 52.3 | -0.9 | 1.8 | 5.0E-05 |
| NM_001860 | SLC31A2 | 4.7 | 2.5 | -0.9 | 1.8 | 1.1E-03 |
| NM_001286562 | C6orf211 | 34.3 | 18.7 | -0.9 | 1.8 | 5.0E-05 |
| NM_012338 | TSPAN12 | 2.0 | 1.1 | -0.9 | 1.8 | 5.0E-05 |
| NM_001135242 | NDRG1 | 23.8 | 13.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_001131027 | PDLIM4 | 75.9 | 41.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_017818 | WRAP73 | 8.5 | 4.7 | -0.9 | 1.8 | 5.0E-05 |
| NM_003635 | NDST2 | 7.0 | 3.8 | -0.9 | 1.8 | 5.0E-05 |
| NM_016582 | SLC15A3 | 6.2 | 3.4 | -0.9 | 1.8 | 5.0E-04 |
| NM_001202858 | ECM1 | 33.7 | 18.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_001256196 | ARAF | 31.5 | 17.2 | -0.9 | 1.8 | 5.0E-05 |
| NM_001098540 | HPSE | 11.4 | 6.2 | -0.9 | 1.8 | 5.0E-05 |

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|--------------|---------|--------|--------|------|-----|---------|
| NM_001190201 | CES4A | 5.2 | 2.8 | -0.9 | 1.8 | 5.0E-05 |
| NM_001024937 | MINK1 | 21.9 | 12.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_001040875 | GDAP1 | 9.4 | 5.2 | -0.9 | 1.8 | 5.0E-05 |
| NM_006369 | LRRC41 | 27.5 | 15.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_001190411 | RPH3AL | 3.0 | 1.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_001040167 | LFNG | 44.6 | 24.5 | -0.9 | 1.8 | 5.0E-05 |
| NM_153046 | TDRD9 | 8.2 | 4.5 | -0.9 | 1.8 | 5.0E-05 |
| NM_001276435 | KCNJ15 | 48.7 | 26.7 | -0.9 | 1.8 | 5.0E-05 |
| NM_001289164 | LOXL3 | 3.8 | 2.1 | -0.9 | 1.8 | 3.4E-03 |
| NM_001206998 | ZNRF3 | 9.1 | 5.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_032102 | SRSF8 | 4.4 | 2.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_001004431 | METRNL | 52.7 | 28.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_001134758 | ARFRP1 | 11.9 | 6.5 | -0.9 | 1.8 | 6.5E-04 |
| NM_001130848 | PITPNM1 | 24.7 | 13.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_001099652 | GPR137C | 7.5 | 4.1 | -0.9 | 1.8 | 5.0E-05 |
| NM_001257994 | TRMT2A | 10.4 | 5.7 | -0.9 | 1.8 | 2.4E-03 |
| NM_001167676 | FAM229A | 2.7 | 1.5 | -0.9 | 1.8 | 5.0E-05 |
| NM_005522 | HOXA1 | 3.9 | 2.2 | -0.9 | 1.8 | 1.6E-02 |
| NM_001039580 | MAP9 | 4.1 | 2.3 | -0.9 | 1.8 | 5.0E-05 |
| NM_001164267 | WDR46 | 31.4 | 17.3 | -0.9 | 1.8 | 5.0E-05 |
| NM_015541 | LRIG1 | 9.7 | 5.3 | -0.9 | 1.8 | 5.0E-05 |
| NM_006896 | HOXA7 | 2.3 | 1.3 | -0.9 | 1.8 | 1.6E-02 |
| NM_001142391 | SLC10A3 | 57.3 | 31.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_015155 | LARP4B | 15.3 | 8.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_001256534 | SLC25A1 | 76.0 | 41.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_002238 | KCNH1 | 4.9 | 2.7 | -0.9 | 1.8 | 5.0E-05 |
| NM_178820 | FBXO27 | 3.4 | 1.9 | -0.9 | 1.8 | 5.0E-05 |
| NM_000075 | CDK4 | 86.5 | 47.8 | -0.9 | 1.8 | 5.0E-05 |
| NM_001135911 | PIK3IP1 | 5.1 | 2.8 | -0.9 | 1.8 | 5.0E-05 |
| NM_001170806 | C8orf47 | 1.8 | 1.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_001040454 | SLC26A6 | 22.3 | 12.3 | -0.9 | 1.8 | 5.0E-05 |
| NM_058164 | OLFM2 | 4.7 | 2.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_032740 | SFT2D3 | 4.1 | 2.3 | -0.9 | 1.8 | 1.7E-03 |
| NM_145886 | PIDD | 9.1 | 5.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_032294 | CAMKK1 | 6.3 | 3.5 | -0.9 | 1.8 | 5.0E-05 |
| NM_001128228 | TPRN | 8.1 | 4.5 | -0.9 | 1.8 | 5.0E-05 |
| NM_001744 | CAMK4 | 1.8 | 1.0 | -0.9 | 1.8 | 5.0E-05 |
| NM_001008563 | USP20 | 4.9 | 2.7 | -0.9 | 1.8 | 5.0E-05 |
| NM_001199107 | TBC1D24 | 4.6 | 2.6 | -0.9 | 1.8 | 5.0E-05 |
| NM_001130144 | LTBP3 | 29.0 | 16.1 | -0.9 | 1.8 | 5.0E-05 |
| NM_173511 | FAM117B | 2.5 | 1.4 | -0.9 | 1.8 | 5.0E-05 |
| NM_002334 | LRP4 | 9.1 | 5.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001470 | GABBR1 | 10.8 | 6.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001080410 | FBXO41 | 4.2 | 2.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_019116 | UBFD1 | 28.4 | 15.8 | -0.8 | 1.8 | 5.0E-05 |
| NM_006291 | TNFAIP2 | 20.9 | 11.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_007183 | PKP3 | 3.6 | 2.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001122835 | TTC13 | 6.3 | 3.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_198993 | STAC2 | 3.8 | 2.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_001204298 | ZNF664 | 70.8 | 39.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_001003 | RPLP1 | 1839.7 | 1024.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_015720 | PODXL2 | 2.4 | 1.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_002960 | S100A3 | 17.4 | 9.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_023940 | RASL11B | 7.1 | 4.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001282708 | EXOSC2 | 26.8 | 15.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_002518 | NPAS2 | 3.5 | 2.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001134336 | STRIP2 | 7.5 | 4.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001077498 | FAM222B | 12.2 | 6.8 | -0.8 | 1.8 | 5.0E-05 |
| NM_000853 | GSTT1 | 16.2 | 9.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_001035223 | RGL3 | 2.8 | 1.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_032552 | DAB2IP | 9.8 | 5.5 | -0.8 | 1.8 | 5.0E-05 |

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|--------------|----------|-------|-------|------|-----|---------|
| NM_000263 | NAGLU | 12.6 | 7.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_004091 | E2F2 | 3.4 | 1.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_001197181 | TUBB3 | 97.9 | 54.8 | -0.8 | 1.8 | 5.0E-05 |
| NM_001606 | ABCA2 | 9.1 | 5.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_004074 | COX8A | 423.6 | 237.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_145288 | ZNF296 | 2.3 | 1.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_001136195 | TNPO2 | 34.9 | 19.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_000081 | LYST | 1.9 | 1.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001799 | CDK7 | 23.0 | 12.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_001145159 | INTS9 | 6.6 | 3.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_001197 | BIK | 1.8 | 1.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_031904 | FRMD8 | 24.7 | 13.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_001081003 | COMMD5 | 23.6 | 13.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001135642 | INPP5K | 8.0 | 4.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_002528 | NTHL1 | 18.6 | 10.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_018207 | TRIM62 | 5.1 | 2.8 | -0.8 | 1.8 | 5.0E-05 |
| NM_152892 | LRWD1 | 24.8 | 13.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_025250 | TTYH3 | 73.3 | 41.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001134398 | VAV2 | 30.9 | 17.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_001143836 | NOX4 | 2.5 | 1.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_016640 | MRPS30 | 20.8 | 11.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_006480 | RGS14 | 6.2 | 3.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_001144951 | GLYCTK | 3.9 | 2.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_012463 | ATP6V0A2 | 9.5 | 5.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_001130690 | PDE10A | 8.3 | 4.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_001195573 | DICER1 | 19.9 | 11.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001077494 | NFKB2 | 41.9 | 23.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_001007527 | LMBRD2 | 3.9 | 2.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001010938 | TNK2 | 7.6 | 4.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_023009 | MARCKSL1 | 126.3 | 71.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_023935 | DDRK1 | 40.9 | 23.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_017916 | PIH1D1 | 45.3 | 25.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_001253875 | UXS1 | 51.6 | 29.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001551 | IGBP1 | 32.6 | 18.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_001145044 | SLCO3A1 | 8.1 | 4.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_000033 | ABCD1 | 5.2 | 2.9 | -0.8 | 1.8 | 1.4E-02 |
| NM_001128918 | MARK3 | 26.7 | 15.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_018154 | ASF1B | 85.5 | 48.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_001127505 | ASAH1 | 29.8 | 16.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_001033087 | MACROD2 | 5.9 | 3.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_015395 | TECPR1 | 4.8 | 2.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_024496 | IRF2BPL | 12.7 | 7.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001289823 | FURIN | 39.1 | 22.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_001145670 | SORBS2 | 1.7 | 1.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_001198978 | SMAP2 | 11.5 | 6.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_024642 | GALNT12 | 6.8 | 3.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_018036 | ATG2B | 4.9 | 2.8 | -0.8 | 1.8 | 5.0E-05 |
| NM_003132 | SRM | 94.8 | 53.8 | -0.8 | 1.8 | 5.0E-05 |
| NM_001271888 | CIB2 | 16.2 | 9.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_024980 | GPR157 | 5.4 | 3.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_001168299 | KLHL13 | 2.6 | 1.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_004454 | ETV5 | 11.5 | 6.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_003821 | RIPK2 | 8.3 | 4.7 | -0.8 | 1.8 | 5.0E-05 |
| NM_001002019 | PUS1 | 20.3 | 11.5 | -0.8 | 1.8 | 5.0E-05 |
| NR_033323 | NSUN5P2 | 6.4 | 3.6 | -0.8 | 1.8 | 5.5E-03 |
| NM_001105203 | RUSC1 | 34.0 | 19.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_001003796 | NHP2L1 | 95.6 | 54.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_001191060 | SLC25A22 | 12.2 | 6.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_001077621 | VPS37D | 1.9 | 1.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_015016 | MAST3 | 5.2 | 3.0 | -0.8 | 1.8 | 5.0E-05 |
| NM_000017 | ACADS | 8.3 | 4.7 | -0.8 | 1.8 | 5.0E-05 |

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|--------------|------------|--------|--------|------|-----|---------|
| NM_005952 | MT1X | 102.7 | 58.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_001046 | SLC12A2 | 12.6 | 7.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_006076 | AGFG2 | 6.4 | 3.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_000331 | SAA1 | 1929.2 | 1099.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_001043318 | ELMSAN1 | 13.9 | 7.9 | -0.8 | 1.8 | 5.0E-05 |
| NM_005675 | DGCR6 | 5.9 | 3.4 | -0.8 | 1.8 | 5.0E-05 |
| NM_002237 | KCNG1 | 9.6 | 5.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_005560 | LAMA5 | 16.4 | 9.3 | -0.8 | 1.8 | 5.0E-05 |
| NM_001080415 | U2SURP | 21.2 | 12.1 | -0.8 | 1.8 | 5.0E-05 |
| NM_001178133 | SUFU | 8.0 | 4.6 | -0.8 | 1.8 | 5.0E-05 |
| NM_002230 | JUP | 19.6 | 11.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001934 | DLX4 | 2.0 | 1.2 | -0.8 | 1.8 | 5.0E-05 |
| NM_001184974 | PACSN3 | 42.9 | 24.5 | -0.8 | 1.8 | 5.0E-05 |
| NM_001040107 | HVCN1 | 2.2 | 1.2 | -0.8 | 1.7 | 2.5E-03 |
| NM_003463 | PTP4A1 | 59.2 | 33.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_001015052 | MPG | 45.7 | 26.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_024092 | TMEM109 | 65.6 | 37.5 | -0.8 | 1.7 | 5.0E-05 |
| NR_026551 | CA5BP1 | 8.2 | 4.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001142343 | CMKLR1 | 2.4 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_001159286 | HDAC10 | 33.3 | 19.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_017854 | TMEM160 | 77.1 | 44.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001096 | ACLY | 167.7 | 96.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001164144 | CHAMP1 | 18.7 | 10.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001031737 | CCDC78 | 1.6 | 0.9 | -0.8 | 1.7 | 8.7E-03 |
| NM_005524 | HES1 | 13.9 | 8.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_001396 | DYRK1A | 17.8 | 10.2 | -0.8 | 1.7 | 5.0E-05 |
| NR_003193 | SNORD114-1 | 3.2 | 1.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_004111 | FEN1 | 90.1 | 51.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_004230 | S1PR2 | 2.9 | 1.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_144772 | APOA1BP | 64.2 | 36.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_021254 | C21orf59 | 35.2 | 20.2 | -0.8 | 1.7 | 5.0E-05 |
| NR_015427 | LINC00094 | 8.5 | 4.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_020437 | ASPHD2 | 4.4 | 2.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_145296 | CADM4 | 47.2 | 27.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001178061 | SEMA6C | 3.2 | 1.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_018365 | MNS1 | 8.4 | 4.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_001171087 | CLCN2 | 4.1 | 2.3 | -0.8 | 1.7 | 3.0E-04 |
| NM_020823 | TMEM181 | 27.0 | 15.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_001173982 | CHST11 | 4.2 | 2.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_012324 | MAPK8IP2 | 1.5 | 0.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001199173 | MLST8 | 24.3 | 14.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_007254 | PNKP | 15.7 | 9.0 | -0.8 | 1.7 | 1.6E-03 |
| NM_130783 | TSPAN18 | 5.6 | 3.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_017646 | TRIT1 | 12.4 | 7.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_030968 | C1QTNF1 | 11.3 | 6.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_001080512 | BICC1 | 31.0 | 17.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_145176 | SLC2A12 | 1.9 | 1.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001037339 | PDE4B | 4.9 | 2.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_001267723 | CCDC61 | 3.5 | 2.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_004461 | FARSA | 57.5 | 33.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_023937 | MRPL34 | 32.8 | 18.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001277813 | YTHDF3 | 27.9 | 16.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_004335 | BST2 | 32.5 | 18.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_014053 | FLVCR1 | 4.7 | 2.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001282211 | NDRG2 | 6.6 | 3.8 | -0.8 | 1.7 | 6.9E-03 |
| NM_003331 | TYK2 | 25.4 | 14.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001884 | HAPLN1 | 1.8 | 1.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_001252119 | PASK | 10.4 | 6.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_002381 | MATN3 | 26.2 | 15.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_001242786 | BRF1 | 14.4 | 8.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_022900 | CASD1 | 6.1 | 3.5 | -0.8 | 1.7 | 5.0E-05 |

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|--------------|--------------|-------|-------|------|-----|---------|
| NM_032701 | SUV420H2 | 8.5 | 4.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001190328 | YJEFN3 | 357.5 | 206.8 | -0.8 | 1.7 | 5.0E-05 |
| NR_037631 | LOC100288911 | 4.9 | 2.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_133373 | PLCD3 | 18.4 | 10.6 | -0.8 | 1.7 | 5.0E-05 |
| NM_003902 | FUBP1 | 45.7 | 26.4 | -0.8 | 1.7 | 5.0E-05 |
| NR_002786 | CIDCEP | 10.7 | 6.2 | -0.8 | 1.7 | 1.8E-02 |
| NM_001102371 | FOXRED2 | 12.4 | 7.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_001124758 | SPNS2 | 5.0 | 2.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_015444 | TMEM158 | 4.5 | 2.6 | -0.8 | 1.7 | 5.0E-05 |
| NM_001145293 | NGLY1 | 11.5 | 6.6 | -0.8 | 1.7 | 5.0E-05 |
| NM_152592 | SYNE3 | 1.5 | 0.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001107 | ACYP1 | 25.2 | 14.6 | -0.8 | 1.7 | 5.0E-05 |
| NM_002628 | PFN2 | 107.8 | 62.6 | -0.8 | 1.7 | 5.0E-05 |
| NR_038357 | ZSWIM8-AS1 | 6.6 | 3.8 | -0.8 | 1.7 | 1.5E-02 |
| NM_178507 | OAF | 14.6 | 8.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_016310 | POLR3K | 45.2 | 26.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_005868 | BET1 | 8.8 | 5.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001005340 | GPNMB | 2.4 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_001286526 | BCL7C | 40.8 | 23.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_002221 | ITPKB | 2.4 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_001127392 | MYRF | 16.8 | 9.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_024589 | ROGDI | 17.9 | 10.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_004052 | BNIP3 | 150.3 | 87.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_001201372 | CCDC136 | 2.3 | 1.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_005809 | PRDX2 | 136.9 | 79.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_004739 | MTA2 | 63.8 | 37.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_000309 | PPOX | 6.5 | 3.8 | -0.8 | 1.7 | 1.5E-04 |
| NM_001136050 | DHRS1 | 16.0 | 9.4 | -0.8 | 1.7 | 2.5E-04 |
| NM_183376 | ARRDC4 | 15.6 | 9.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001173484 | NEBL | 3.2 | 1.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_000282 | PCCA | 4.6 | 2.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001031681 | CTNS | 5.9 | 3.4 | -0.8 | 1.7 | 1.2E-03 |
| NR_102400 | C16orf98 | 6.7 | 3.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_018945 | PDE7B | 3.4 | 2.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_178026 | GGT7 | 20.6 | 12.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_138444 | KCTD12 | 3.3 | 1.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_018166 | EVA1B | 22.4 | 13.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_178537 | B4GALNT4 | 7.0 | 4.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_003155 | STC1 | 7.6 | 4.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_001111307 | PDE4A | 6.7 | 3.9 | -0.8 | 1.7 | 6.0E-03 |
| NM_001282925 | ABI2 | 19.1 | 11.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_199242 | UNC13D | 2.0 | 1.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_001144925 | MX1 | 14.7 | 8.6 | -0.8 | 1.7 | 5.0E-05 |
| NM_001178111 | SCAMP5 | 11.6 | 6.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_018364 | RSBN1 | 3.0 | 1.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_002994 | CXCL5 | 71.2 | 41.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_017931 | TTC38 | 12.3 | 7.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_178868 | CMTM8 | 2.8 | 1.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001105538 | MYBBP1A | 24.3 | 14.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_133489 | SLC26A10 | 1.7 | 1.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_001040876 | ABCE1 | 39.4 | 23.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_003211 | TDG | 12.5 | 7.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_001256584 | GYPC | 15.7 | 9.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_030949 | PPP1R14C | 24.4 | 14.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_022337 | RAB38 | 2.4 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_018327 | SPTLC3 | 2.3 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_001037 | SCN1B | 21.7 | 12.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001099337 | COQ10A | 8.2 | 4.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_014807 | C2CD2L | 4.6 | 2.7 | -0.8 | 1.7 | 3.0E-03 |
| NR_033266 | WASH5P | 17.0 | 10.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_001002264 | EPST11 | 4.9 | 2.9 | -0.8 | 1.7 | 5.0E-05 |

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|--------------|--------------|-------|-------|------|-----|---------|
| NM_000548 | TSC2 | 16.5 | 9.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001039355 | SLC25A29 | 25.7 | 15.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001130698 | TRPC3 | 1.6 | 0.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_152556 | C7orf60 | 5.0 | 3.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_004116 | FKBP1B | 15.1 | 8.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_004184 | WARS | 46.9 | 27.6 | -0.8 | 1.7 | 5.0E-05 |
| NM_016037 | UTP11L | 23.7 | 14.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_021922 | FANCE | 5.5 | 3.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_001126105 | SLC7A7 | 9.6 | 5.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_001268 | RCBTB2 | 5.4 | 3.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_005934 | MLLT1 | 21.3 | 12.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_145798 | OSBPL7 | 5.2 | 3.1 | -0.8 | 1.7 | 5.0E-05 |
| NM_001287045 | SH3GLB2 | 19.9 | 11.7 | -0.8 | 1.7 | 1.5E-04 |
| NM_001171968 | CDHR5 | 4.5 | 2.6 | -0.8 | 1.7 | 1.4E-02 |
| NM_021008 | DEAF1 | 12.2 | 7.2 | -0.8 | 1.7 | 8.0E-04 |
| NM_031439 | SOX7 | 1.5 | 0.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001206389 | FGF8 | 43.8 | 25.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_020962 | IGDCC4 | 1.6 | 1.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_173570 | ZDHHC23 | 2.4 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_007144 | PCGF2 | 19.8 | 11.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_016937 | POLA1 | 11.5 | 6.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_002730 | PRKACA | 75.9 | 44.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_002800 | PSMB9 | 53.8 | 31.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_000177 | GSN | 51.1 | 30.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_172069 | PLEKHH2 | 2.3 | 1.4 | -0.8 | 1.7 | 5.0E-05 |
| NM_001168399 | BEX2 | 3.2 | 1.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_000041 | APOE | 191.0 | 113.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_001008709 | PPP1CA | 155.8 | 92.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_001145211 | SLCO2B1 | 5.4 | 3.2 | -0.8 | 1.7 | 5.0E-05 |
| NM_024407 | NDUFS7 | 89.3 | 52.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001195736 | FAM213B | 20.8 | 12.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_000155 | GALT | 14.3 | 8.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_004317 | ASNA1 | 106.0 | 62.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_014598 | SOCS7 | 5.5 | 3.3 | -0.8 | 1.7 | 5.0E-05 |
| NM_004651 | USP11 | 33.2 | 19.7 | -0.8 | 1.7 | 5.0E-05 |
| NM_024654 | NOL9 | 9.7 | 5.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_003689 | AKR7A2 | 29.6 | 17.5 | -0.8 | 1.7 | 5.0E-05 |
| NM_153232 | EID2 | 11.4 | 6.8 | -0.8 | 1.7 | 5.0E-05 |
| NM_001288950 | ASTE1 | 3.6 | 2.1 | -0.8 | 1.7 | 2.0E-02 |
| NM_001012508 | SPRN | 3.0 | 1.8 | -0.8 | 1.7 | 3.5E-04 |
| NM_003952 | RPS6KB2 | 26.8 | 15.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001253725 | KREMEN2 | 18.5 | 11.0 | -0.8 | 1.7 | 5.0E-05 |
| NM_182975 | ZNF326 | 23.4 | 13.9 | -0.8 | 1.7 | 5.0E-05 |
| NM_001204366 | MGST2 | 17.0 | 10.1 | -0.7 | 1.7 | 5.0E-05 |
| NM_024539 | RNF128 | 3.1 | 1.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_000202 | IDS | 27.0 | 16.1 | -0.7 | 1.7 | 5.0E-05 |
| NM_001017420 | ESCO2 | 13.1 | 7.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_001003801 | SMARCD3 | 15.9 | 9.5 | -0.7 | 1.7 | 5.5E-04 |
| NM_001361 | DHODH | 6.3 | 3.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_012193 | FZD4 | 2.9 | 1.7 | -0.7 | 1.7 | 5.0E-05 |
| NM_001282852 | CCNY | 23.4 | 14.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_152486 | SAMD11 | 20.9 | 12.4 | -0.7 | 1.7 | 1.0E-04 |
| NM_001007237 | IGSF3 | 7.0 | 4.2 | -0.7 | 1.7 | 5.0E-05 |
| NM_004040 | RHOB | 96.5 | 57.5 | -0.7 | 1.7 | 5.0E-05 |
| NM_001168241 | GAREML | 6.2 | 3.7 | -0.7 | 1.7 | 5.0E-05 |
| NM_006801 | KDEL1R1 | 124.6 | 74.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_001195001 | PTPRU | 15.9 | 9.5 | -0.7 | 1.7 | 5.0E-05 |
| NM_015871 | ZNF593 | 45.7 | 27.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_001251845 | TRPC1 | 6.5 | 3.9 | -0.7 | 1.7 | 5.0E-05 |
| NR_038396 | LOC100506469 | 2.1 | 1.2 | -0.7 | 1.7 | 9.7E-03 |
| NM_000320 | QDPR | 27.7 | 16.5 | -0.7 | 1.7 | 5.0E-05 |

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|--------------|-------------------|-------|-------|------|-----|---------|
| NM_001114135 | DMTN | 8.5 | 5.1 | -0.7 | 1.7 | 5.0E-05 |
| NM_005324 | H3F3AH3F3AP4H3F3B | 252.9 | 151.2 | -0.7 | 1.7 | 5.0E-05 |
| NM_030973 | MED25 | 22.1 | 13.2 | -0.7 | 1.7 | 5.0E-05 |
| NM_001145031 | PLAU | 51.8 | 31.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_032557 | USP38 | 8.9 | 5.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_001144884 | SLC30A7 | 6.8 | 4.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_015059 | TLN2 | 4.8 | 2.9 | -0.7 | 1.7 | 5.0E-05 |
| NM_000716 | C4BPB | 5.4 | 3.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_138798 | MITD1 | 28.4 | 17.0 | -0.7 | 1.7 | 2.0E-04 |
| NM_006822 | RAB40B | 8.0 | 4.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_198465 | NRK | 8.0 | 4.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_013335 | GMPPA | 20.1 | 12.1 | -0.7 | 1.7 | 5.0E-05 |
| NM_016010 | ZC2HC1A | 4.9 | 2.9 | -0.7 | 1.7 | 1.0E-04 |
| NM_018051 | WDR60 | 6.3 | 3.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_033315 | RASL10B | 3.1 | 1.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_000264 | PTCH1 | 2.1 | 1.2 | -0.7 | 1.7 | 5.0E-05 |
| NM_014240 | LIMD1 | 6.0 | 3.6 | -0.7 | 1.7 | 5.0E-05 |
| NM_017955 | CDCA4 | 25.4 | 15.2 | -0.7 | 1.7 | 5.0E-05 |
| NM_001134340 | PSMG3 | 43.9 | 26.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_013451 | MYOF | 28.4 | 17.1 | -0.7 | 1.7 | 5.0E-05 |
| NM_016932 | SIX2 | 1.7 | 1.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_001145018 | CCDC153 | 1.6 | 0.9 | -0.7 | 1.7 | 1.1E-03 |
| NM_001004419 | CLEC2D | 4.1 | 2.5 | -0.7 | 1.7 | 5.0E-05 |
| NM_001039803 | CDK20 | 3.7 | 2.2 | -0.7 | 1.7 | 5.0E-05 |
| NM_012420 | IFIT5 | 5.0 | 3.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_052846 | EMILIN3 | 4.0 | 2.4 | -0.7 | 1.7 | 5.0E-05 |
| NM_016529 | ATP8A2 | 2.8 | 1.7 | -0.7 | 1.7 | 5.0E-05 |
| NM_001124756 | PABPC1L | 19.4 | 11.7 | -0.7 | 1.7 | 5.0E-05 |
| NM_001127213 | LY6E | 197.2 | 118.9 | -0.7 | 1.7 | 5.0E-05 |
| NM_001037172 | ACPL2 | 6.3 | 3.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_001085375 | C1orf226 | 1.5 | 0.9 | -0.7 | 1.7 | 5.0E-05 |
| NM_001080453 | INTS1 | 24.8 | 15.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_001142503 | STARD8 | 2.7 | 1.7 | -0.7 | 1.7 | 5.0E-05 |
| NM_002198 | IRF1 | 15.6 | 9.4 | -0.7 | 1.7 | 5.0E-05 |
| NM_015419 | MXRA5 | 8.5 | 5.1 | -0.7 | 1.7 | 5.0E-05 |
| NM_198722 | AMIGO3 | 6.7 | 4.1 | -0.7 | 1.7 | 6.6E-03 |
| NM_001204255 | SCARB2 | 39.5 | 23.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_001002251 | ARL6IP4 | 123.3 | 74.5 | -0.7 | 1.7 | 5.0E-05 |
| NM_001271006 | STRA13 | 52.2 | 31.5 | -0.7 | 1.7 | 5.0E-05 |
| NM_001282450 | ESRRA | 15.5 | 9.4 | -0.7 | 1.7 | 1.8E-03 |
| NM_015448 | DPCD | 27.2 | 16.4 | -0.7 | 1.7 | 5.0E-05 |
| NM_015289 | VPS39 | 14.7 | 8.9 | -0.7 | 1.7 | 5.0E-05 |
| NM_001145416 | TMEM205 | 80.7 | 48.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_001145319 | PLS1 | 6.6 | 4.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_001084 | PLOD3 | 43.9 | 26.6 | -0.7 | 1.7 | 5.0E-05 |
| NM_004594 | SLC9A5 | 2.9 | 1.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_001039577 | CCNL2 | 38.8 | 23.5 | -0.7 | 1.7 | 5.0E-05 |
| NM_001040280 | CD83 | 4.6 | 2.8 | -0.7 | 1.7 | 5.0E-05 |
| NM_001014797 | KCNMA1 | 9.8 | 6.0 | -0.7 | 1.7 | 5.0E-05 |
| NM_182540 | DDX26B | 3.8 | 2.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_001253900 | MEST | 59.3 | 35.9 | -0.7 | 1.7 | 5.0E-05 |
| NM_001030272 | ARNTL | 5.5 | 3.3 | -0.7 | 1.7 | 5.0E-05 |
| NM_001282474 | AP1G2 | 19.6 | 11.9 | -0.7 | 1.7 | 5.0E-05 |
| NM_017670 | OTUB1 | 57.1 | 34.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_021946 | BCORL1 | 6.7 | 4.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001128827 | DLG4 | 8.6 | 5.2 | -0.7 | 1.6 | 4.1E-03 |
| NM_001114632 | JMJD7 | 6.6 | 4.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_001278529 | ARHGEF40 | 22.4 | 13.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_138368 | AP5B1 | 4.9 | 3.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_014161 | MRPL18 | 62.4 | 37.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001127496 | SPRY4 | 10.0 | 6.1 | -0.7 | 1.6 | 5.0E-05 |

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|--------------|-----------|--------|-------|------|-----|---------|
| NM_031908 | C1QTNF2 | 2.8 | 1.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_000325 | PITX2 | 38.0 | 23.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_006739 | MCM5 | 58.2 | 35.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001167942 | TNFAIP8L1 | 6.4 | 3.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_006064 | RRAGB | 5.2 | 3.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001080432 | FTO | 14.6 | 8.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001034194 | EXOSC9 | 52.8 | 32.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001282941 | RTKN2 | 2.7 | 1.6 | -0.7 | 1.6 | 5.8E-03 |
| NM_080738 | EDARADD | 3.4 | 2.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_032777 | GPR124 | 7.5 | 4.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_032193 | RNASEH2C | 14.8 | 9.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_001188 | BAK1 | 30.1 | 18.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001271803 | REEP2 | 9.7 | 5.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001017526 | ARHGAP8 | 19.1 | 11.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_138410 | CMTM7 | 17.6 | 10.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001256864 | DNAJC6 | 2.3 | 1.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_006264 | PTPN13 | 8.2 | 5.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_001258288 | SELENBP1 | 12.6 | 7.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_003054 | SLC18A2 | 2.3 | 1.4 | -0.7 | 1.6 | 7.1E-03 |
| NM_001256099 | CTHRC1 | 47.2 | 28.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_021237 | SELK | 42.4 | 25.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_003320 | TUB | 3.5 | 2.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001098482 | CRTC1 | 8.3 | 5.0 | -0.7 | 1.6 | 1.6E-03 |
| NM_021627 | SENP2 | 17.2 | 10.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_001278233 | LMCD1 | 73.3 | 44.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_016463 | CXXC5 | 2.2 | 1.4 | -0.7 | 1.6 | 7.9E-03 |
| NM_025090 | USP36 | 12.9 | 7.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001276468 | B4GALNT1 | 6.9 | 4.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001039583 | PICK1 | 13.9 | 8.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_001177355 | MSLN | 7.5 | 4.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_001039457 | ATP6V0B | 109.4 | 66.9 | -0.7 | 1.6 | 5.0E-05 |
| NR_033947 | LIMD1-AS1 | 6.4 | 3.9 | -0.7 | 1.6 | 1.0E-04 |
| NM_020846 | SLAIN2 | 9.5 | 5.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_015144 | ZCCHC14 | 6.1 | 3.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001252406 | ZBTB7B | 8.5 | 5.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001012 | RPS8 | 1401.1 | 858.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001012761 | RGMB | 7.0 | 4.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001134231 | NT5DC2 | 2.7 | 1.7 | -0.7 | 1.6 | 4.3E-03 |
| NM_002131 | HMGA1 | 92.4 | 56.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_033260 | FOXQ1 | 3.0 | 1.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_023078 | PYCR1 | 7.5 | 4.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_000828 | GRIA3 | 2.6 | 1.6 | -0.7 | 1.6 | 2.0E-04 |
| NM_001077446 | TSEN34 | 29.3 | 18.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_001130079 | MOV10 | 31.6 | 19.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_005763 | AASS | 3.1 | 1.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001082486 | ACD | 13.5 | 8.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001012643 | MYPOP | 4.0 | 2.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_001079528 | ABCC6 | 3.2 | 1.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_014365 | HSPB8 | 16.4 | 10.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_006467 | POLR3G | 10.0 | 6.2 | -0.7 | 1.6 | 1.1E-02 |
| NM_001014765 | FBXO44 | 7.7 | 4.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001206942 | CSPG5 | 1.8 | 1.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001168320 | TSPAN9 | 25.1 | 15.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_005481 | MED16 | 27.9 | 17.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001252402 | TMEM249 | 12.8 | 7.9 | -0.7 | 1.6 | 2.5E-04 |
| NM_005218 | DEFB1 | 2.8 | 1.7 | -0.7 | 1.6 | 4.4E-03 |
| NM_001203244 | SEMA4G | 1.9 | 1.1 | -0.7 | 1.6 | 6.2E-03 |
| NM_006821 | ACOT2 | 12.3 | 7.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_021129 | PPA1 | 134.4 | 82.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001281425 | DCTN3 | 79.3 | 48.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001080480 | MBOAT1 | 5.2 | 3.2 | -0.7 | 1.6 | 5.0E-05 |

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|--------------|-----------|-------|-------|------|-----|---------|
| NR_002795 | HOXA11-AS | 5.2 | 3.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_145173 | DIRAS1 | 3.1 | 1.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_002136 | HNRNPA1 | 699.4 | 431.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_002015 | FOXO1 | 15.4 | 9.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_002690 | POLB | 13.4 | 8.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_152914 | C17orf103 | 6.1 | 3.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001142776 | CHAC1 | 5.6 | 3.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_005257 | GATA6 | 4.6 | 2.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001202 | BMP4 | 3.7 | 2.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_015305 | ANGEL1 | 10.1 | 6.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001221 | CAMK2D | 8.5 | 5.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001122671 | CCBL1 | 17.5 | 10.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_006887 | ZFP36L2 | 21.1 | 13.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_015617 | PYGO1 | 2.9 | 1.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001118890 | GLRX | 32.5 | 20.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_000920 | PC | 8.8 | 5.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_001185012 | NDUFA2 | 166.9 | 103.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_012458 | TIMM13 | 95.1 | 58.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_013438 | UBQLN1 | 52.2 | 32.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_013337 | TIMM22 | 25.6 | 15.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_133259 | LRPPRC | 27.4 | 17.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_052831 | SLC18B1 | 6.0 | 3.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_016048 | ISOC1 | 23.2 | 14.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_001199280 | HAS3 | 5.7 | 3.5 | -0.7 | 1.6 | 1.7E-02 |
| NM_001014831 | PAK4 | 19.3 | 12.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_002616 | PER1 | 17.2 | 10.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_000874 | IFNAR2 | 17.4 | 10.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001079675 | ETV4 | 7.2 | 4.5 | -0.7 | 1.6 | 5.0E-05 |
| NR_003584 | SNHG8 | 28.4 | 17.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001080431 | SLC45A4 | 2.8 | 1.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001042573 | ENGASE | 5.6 | 3.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_138440 | VASN | 29.2 | 18.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001408 | CELSR2 | 9.9 | 6.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001100418 | C19orf60 | 23.6 | 14.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001135954 | UCK1 | 20.6 | 12.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_032390 | MKI67IP | 36.2 | 22.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_002917 | RFNG | 13.4 | 8.4 | -0.7 | 1.6 | 8.5E-04 |
| NM_001166102 | NDUFV1 | 84.5 | 52.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_014337 | PPIL2 | 14.5 | 9.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_033517 | SHANK3 | 3.4 | 2.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_004135 | IDH3G | 46.2 | 28.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_004104 | FASN | 50.9 | 31.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_019613 | WDR45B | 49.9 | 31.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001100873 | C16orf46 | 2.3 | 1.4 | -0.7 | 1.6 | 2.5E-04 |
| NM_001129979 | SYCE1L | 10.7 | 6.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_014061 | MAGEH1 | 10.0 | 6.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001012301 | ARSI | 23.8 | 14.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001009941 | ANKRD16 | 4.2 | 2.6 | -0.7 | 1.6 | 2.4E-02 |
| NM_024315 | TMEM243 | 17.2 | 10.8 | -0.7 | 1.6 | 2.0E-04 |
| NM_001287060 | RABGEF1 | 18.6 | 11.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_004069 | AP2S1 | 227.7 | 142.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001025366 | VEGFA | 19.7 | 12.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001325 | CSTF2 | 22.2 | 13.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_002089 | CXCL2 | 5.5 | 3.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_020135 | WRNIP1 | 31.9 | 20.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_015073 | SIPA1L3 | 1.8 | 1.1 | -0.7 | 1.6 | 5.3E-03 |
| NM_001040456 | RHBDD2 | 38.3 | 24.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_032532 | FNDC1 | 57.1 | 35.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001201536 | TAF1A | 7.8 | 4.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_031454 | SELO | 18.0 | 11.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_015897 | PIAS4 | 15.4 | 9.7 | -0.7 | 1.6 | 5.0E-05 |

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|--------------|----------|-------|-------|------|-----|---------|
| NM_001040135 | ACTR3B | 2.3 | 1.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_001130142 | VWA5A | 5.0 | 3.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001129994 | KCTD15 | 15.0 | 9.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_001204514 | KIFAP3 | 8.3 | 5.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001619 | ADRBK1 | 20.7 | 13.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_002449 | MSX2 | 5.1 | 3.2 | -0.7 | 1.6 | 5.0E-05 |
| NR_002822 | MGC72080 | 10.9 | 6.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_001017979 | RAB28 | 9.2 | 5.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_145249 | IFI27L1 | 18.4 | 11.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_198525 | KIF7 | 11.3 | 7.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_005530 | IDH3A | 19.8 | 12.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_001078650 | TMEM134 | 20.2 | 12.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_004406 | DMBT1 | 3.6 | 2.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_001007 | RPS4X | 829.7 | 522.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001289095 | PXK | 10.2 | 6.4 | -0.7 | 1.6 | 1.5E-04 |
| NM_001040667 | HSF4 | 2.8 | 1.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_002284 | KRT86 | 4.7 | 3.0 | -0.7 | 1.6 | 7.6E-03 |
| NM_005439 | MLF2 | 126.2 | 79.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_000674 | ADORA1 | 6.0 | 3.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001160184 | PLEKHN1 | 10.2 | 6.4 | -0.7 | 1.6 | 7.0E-03 |
| NM_012200 | B3GAT3 | 37.9 | 23.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_021974 | POLR2F | 24.8 | 15.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_000255 | MUT | 6.7 | 4.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_006951 | TAF5 | 4.0 | 2.5 | -0.7 | 1.6 | 2.0E-03 |
| NM_000848 | GSTM2 | 7.5 | 4.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_001005914 | SEMA3B | 3.6 | 2.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_015528 | RNF167 | 51.4 | 32.5 | -0.7 | 1.6 | 5.0E-05 |
| NM_001282684 | KCTD17 | 24.9 | 15.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001080446 | C11orf94 | 5.8 | 3.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001101340 | ADM5 | 160.9 | 101.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_016612 | SLC25A37 | 18.9 | 12.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_001916 | CYC1 | 149.4 | 94.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_001005271 | CHD3 | 25.5 | 16.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_014402 | UQCRQ | 136.0 | 86.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001143996 | OGDHL | 3.8 | 2.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_017696 | MCM9 | 3.1 | 1.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_004302 | ACVR1B | 17.3 | 11.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_017617 | NOTCH1 | 7.0 | 4.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_015420 | DCAF13 | 27.1 | 17.2 | -0.7 | 1.6 | 5.0E-05 |
| NM_002622 | PFDN1 | 105.1 | 66.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_001145438 | PGAP2 | 15.9 | 10.1 | -0.7 | 1.6 | 6.1E-03 |
| NM_018593 | SLC16A10 | 1.5 | 1.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_004148 | NINJ1 | 38.8 | 24.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_006305 | ANP32A | 52.1 | 33.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001163377 | QPCTL | 7.6 | 4.8 | -0.7 | 1.6 | 2.4E-02 |
| NM_001193646 | ATF5 | 20.4 | 13.0 | -0.7 | 1.6 | 8.5E-04 |
| NM_001017927 | C2orf76 | 6.8 | 4.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001863 | COX6B1 | 243.6 | 154.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_025077 | TOE1 | 15.4 | 9.8 | -0.7 | 1.6 | 5.0E-05 |
| NM_014067 | MACROD1 | 10.9 | 6.9 | -0.7 | 1.6 | 2.0E-02 |
| NM_002661 | PLCG2 | 3.9 | 2.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_001199111 | MDH1 | 111.8 | 71.0 | -0.7 | 1.6 | 5.0E-05 |
| NM_001206974 | DHPS | 118.6 | 75.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_000624 | SERPINA5 | 2.1 | 1.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_032140 | ENKD1 | 11.7 | 7.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_030767 | AKNA | 4.3 | 2.7 | -0.7 | 1.6 | 5.0E-05 |
| NM_001002017 | HCFC1R1 | 59.1 | 37.6 | -0.7 | 1.6 | 4.7E-03 |
| NM_020376 | PNPLA2 | 42.9 | 27.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_001252197 | IRX5 | 2.6 | 1.6 | -0.7 | 1.6 | 5.0E-05 |
| NM_001144072 | UBAC2 | 14.6 | 9.3 | -0.7 | 1.6 | 5.0E-05 |
| NM_152305 | POGLUT1 | 8.4 | 5.3 | -0.7 | 1.6 | 5.0E-05 |

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|--------------|---------|--------|--------|------|-----|---------|
| NM_001852 | COL9A2 | 4.8 | 3.1 | -0.7 | 1.6 | 5.0E-05 |
| NM_001142501 | MON1A | 7.6 | 4.9 | -0.7 | 1.6 | 5.0E-05 |
| NM_000154 | GALK1 | 27.3 | 17.4 | -0.7 | 1.6 | 5.0E-05 |
| NM_006509 | RELB | 16.0 | 10.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_001172745 | SEC23B | 32.4 | 20.7 | -0.6 | 1.6 | 5.0E-05 |
| NM_001134658 | SLC35G1 | 4.8 | 3.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_138797 | ANKRD54 | 14.4 | 9.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_001085454 | GIT1 | 21.6 | 13.8 | -0.6 | 1.6 | 5.0E-05 |
| NM_001143906 | TRAFD1 | 19.4 | 12.4 | -0.6 | 1.6 | 5.0E-05 |
| NM_000991 | RPL28 | 555.4 | 354.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_017824 | MARCH5 | 12.7 | 8.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_001035267 | RPL41 | 3303.1 | 2106.9 | -0.6 | 1.6 | 5.0E-05 |
| NM_006371 | CRTAP | 30.8 | 19.6 | -0.6 | 1.6 | 5.0E-05 |
| NM_001134418 | LEPREL1 | 128.6 | 82.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_198686 | RAB15 | 13.6 | 8.7 | -0.6 | 1.6 | 2.0E-04 |
| NM_001130721 | ELOVL6 | 13.3 | 8.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_001289396 | SMARCA2 | 24.6 | 15.7 | -0.6 | 1.6 | 5.0E-05 |
| NM_001171818 | PPARD | 21.2 | 13.6 | -0.6 | 1.6 | 5.0E-05 |
| NM_001093767 | FAM195B | 65.8 | 42.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_001025201 | CHN1 | 6.5 | 4.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_022766 | CERK | 19.9 | 12.7 | -0.6 | 1.6 | 5.0E-05 |
| NM_001150 | ANPEP | 25.7 | 16.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_001184 | ATR | 6.7 | 4.3 | -0.6 | 1.6 | 5.0E-05 |
| NM_000175 | GPI | 131.2 | 83.9 | -0.6 | 1.6 | 5.0E-05 |
| NM_003335 | UBA7 | 8.3 | 5.3 | -0.6 | 1.6 | 5.0E-05 |
| NM_001135239 | LDHA | 1345.3 | 860.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_006898 | HOXD3 | 16.5 | 10.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_003311 | PHLDA2 | 41.0 | 26.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_021105 | PLSCR1 | 20.7 | 13.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_001032381 | PQBP1 | 57.9 | 37.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_002601 | PDE6D | 22.2 | 14.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_001098483 | FUOM | 17.2 | 11.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_032854 | CORO6 | 3.5 | 2.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_014317 | PDSS1 | 10.7 | 6.9 | -0.6 | 1.6 | 8.0E-04 |
| NM_001008396 | WDHD1 | 9.2 | 5.9 | -0.6 | 1.6 | 5.0E-05 |
| NM_022823 | FNDC4 | 8.2 | 5.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_006681 | NMU | 1.8 | 1.1 | -0.6 | 1.6 | 1.7E-03 |
| NM_002245 | KCNK1 | 3.1 | 2.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_024902 | DNAJC22 | 12.9 | 8.3 | -0.6 | 1.6 | 5.0E-05 |
| NM_181723 | MICU3 | 2.3 | 1.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_001128212 | WDSUB1 | 4.1 | 2.6 | -0.6 | 1.6 | 5.0E-05 |
| NM_001202403 | ASB6 | 11.1 | 7.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_182565 | UBALD2 | 14.8 | 9.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_001127615 | ENOX1 | 1.5 | 1.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_031442 | TMEM47 | 9.3 | 6.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_016558 | SCAND1 | 22.4 | 14.4 | -0.6 | 1.6 | 5.0E-05 |
| NM_006909 | RASGRF2 | 3.9 | 2.5 | -0.6 | 1.6 | 9.0E-04 |
| NM_001130675 | CLGN | 4.8 | 3.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_012317 | LDOC1 | 14.2 | 9.1 | -0.6 | 1.6 | 5.0E-05 |
| NM_000135 | FANCA | 24.4 | 15.7 | -0.6 | 1.6 | 5.0E-05 |
| NM_001135053 | SIGIRR | 5.7 | 3.7 | -0.6 | 1.6 | 5.0E-05 |
| NM_018490 | LGR4 | 11.8 | 7.6 | -0.6 | 1.6 | 5.0E-05 |
| NM_001015881 | TSC22D3 | 34.5 | 22.2 | -0.6 | 1.6 | 5.0E-05 |
| NM_003993 | CLK2 | 63.0 | 40.6 | -0.6 | 1.6 | 5.0E-05 |
| NM_001031746 | VSTM4 | 2.3 | 1.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_001145853 | WFS1 | 14.5 | 9.4 | -0.6 | 1.6 | 5.0E-05 |
| NM_001284501 | NUBP2 | 47.6 | 30.7 | -0.6 | 1.6 | 5.0E-05 |
| NM_001204519 | P2RX5 | 78.9 | 50.8 | -0.6 | 1.6 | 5.0E-05 |
| NM_024963 | FBXL18 | 11.7 | 7.5 | -0.6 | 1.6 | 5.0E-05 |
| NM_001025091 | ABCF1 | 55.8 | 36.0 | -0.6 | 1.6 | 5.0E-05 |
| NM_014639 | TTC37 | 27.4 | 17.7 | -0.6 | 1.6 | 5.0E-05 |

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|--------------|-----------|-------|-------|------|-----|---------|
| NM_032352 | BRMS1L | 10.8 | 7.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_176880 | NR2C2AP | 11.3 | 7.3 | -0.6 | 1.5 | 4.0E-03 |
| NR_045839 | ANKRD11 | 4.2 | 2.7 | -0.6 | 1.5 | 1.9E-03 |
| NM_001256119 | NAA10 | 60.9 | 39.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001288718 | STAT5A | 2.5 | 1.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001242758 | HLA-A | 305.4 | 197.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_001002258 | ATP5G3 | 87.4 | 56.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001242597 | TMEM147 | 84.7 | 54.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_004330 | BNIP2 | 20.0 | 13.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_000408 | GPD2 | 11.8 | 7.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_000666 | ACY1 | 25.9 | 16.8 | -0.6 | 1.5 | 2.5E-04 |
| NM_014819 | PJA2 | 35.1 | 22.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_014059 | RGCC | 2.6 | 1.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001184854 | KLHDC4 | 19.3 | 12.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001198810 | SLC43A1 | 4.6 | 2.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001286365 | MAP7D1 | 55.0 | 35.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_005110 | GFPT2 | 70.7 | 45.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001167947 | TIMM17B | 58.7 | 38.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_015941 | ATP6V1H | 31.5 | 20.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_002224 | ITPR3 | 28.9 | 18.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001286132 | RPP40 | 12.9 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001130067 | TRIM2 | 2.8 | 1.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_021130 | PPIA | 538.5 | 349.1 | -0.6 | 1.5 | 5.0E-05 |
| NR_015432 | LINC00493 | 43.4 | 28.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001012727 | AGPAT2 | 45.8 | 29.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001145971 | RDH13 | 7.9 | 5.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_016577 | RAB6B | 1.9 | 1.2 | -0.6 | 1.5 | 2.5E-02 |
| NM_001040668 | BCL2L12 | 35.8 | 23.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_001170464 | CDK17 | 14.7 | 9.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_019099 | FAM212B | 1.6 | 1.0 | -0.6 | 1.5 | 2.5E-03 |
| NM_138820 | HIGD2A | 138.7 | 90.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001015882 | DNAJC25 | 86.2 | 56.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001083893 | STRN3 | 13.4 | 8.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_000207 | INS | 4.4 | 2.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_015139 | SLC35D1 | 6.8 | 4.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001031713 | MCUR1 | 10.3 | 6.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_003345 | UBE2I | 53.4 | 34.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001278669 | NFATC1 | 3.8 | 2.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001244949 | GPAM | 12.1 | 7.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_017823 | DUSP23 | 42.0 | 27.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_025106 | SPSB1 | 12.1 | 7.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001242854 | ARFIP2 | 16.0 | 10.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_005908 | MANBA | 8.3 | 5.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001141973 | ATP13A2 | 25.0 | 15.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001201472 | CORO7 | 48.7 | 31.7 | -0.6 | 1.5 | 1.4E-03 |
| NM_001270927 | IFIT1 | 2.9 | 1.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_201566 | SLC16A13 | 2.6 | 1.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001098817 | INO80C | 12.1 | 7.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_176870 | MT1M | 39.6 | 25.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001083600 | NAA60 | 19.4 | 12.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_022037 | TIA1 | 17.1 | 11.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_024078 | NOC4L | 23.3 | 15.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001097599 | SLC35G2 | 15.0 | 9.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_017582 | UBE2Q1 | 21.0 | 13.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_032861 | SERAC1 | 4.3 | 2.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001281297 | EDF1 | 322.5 | 210.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_005034 | POLR2K | 66.5 | 43.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001193493 | SLC1A4 | 13.6 | 8.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001170635 | LPPR2 | 20.4 | 13.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_001164501 | EIF4ENIF1 | 8.8 | 5.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001164814 | ACIN1 | 91.4 | 59.8 | -0.6 | 1.5 | 5.0E-05 |

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|--------------|-----------|-------|-------|------|-----|---------|
| NM_015268 | DNAJC13 | 12.9 | 8.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001009811 | AZI1 | 7.8 | 5.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001195731 | CHPF | 27.6 | 18.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_031212 | SLC25A28 | 16.3 | 10.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001160042 | IQCC | 47.0 | 30.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001171937 | FUZ | 9.8 | 6.4 | -0.6 | 1.5 | 2.6E-02 |
| NM_004260 | RECQL4 | 24.8 | 16.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_001199570 | CLIP3 | 12.9 | 8.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_015201 | BOP1 | 40.9 | 26.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001278505 | GPATCH11 | 7.8 | 5.1 | -0.6 | 1.5 | 1.1E-03 |
| NM_001033046 | C17orf62 | 21.4 | 14.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_005207 | CRKL | 23.0 | 15.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_020397 | CAMK1D | 4.8 | 3.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_015004 | EXOSC7 | 45.8 | 30.1 | -0.6 | 1.5 | 2.0E-04 |
| NM_198282 | TMEM173 | 28.1 | 18.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001031680 | RUNX3 | 6.1 | 4.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_004292 | RIN1 | 8.6 | 5.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_015603 | CCDC9 | 28.9 | 19.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001862 | COX5B | 257.0 | 169.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_004927 | MRPL49 | 30.5 | 20.0 | -0.6 | 1.5 | 3.6E-03 |
| NM_153006 | NAGS | 1.8 | 1.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_014225 | PPP2R1A | 120.3 | 79.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_032306 | ALKBH7 | 27.9 | 18.4 | -0.6 | 1.5 | 2.0E-03 |
| NM_001284367 | NDUFB8 | 175.3 | 115.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_006349 | ZNHIT1 | 53.0 | 34.9 | -0.6 | 1.5 | 4.0E-04 |
| NM_016307 | PRRX2 | 17.6 | 11.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001665 | RHOG | 37.9 | 25.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_152309 | PIK3AP1 | 2.8 | 1.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_000199 | SGSH | 12.8 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_203290 | POLR1C | 26.7 | 17.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001123383 | BCOR | 12.1 | 8.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_005949 | MT1F | 46.5 | 30.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_000487 | ARSA | 6.3 | 4.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_024939 | ESRP2 | 2.8 | 1.8 | -0.6 | 1.5 | 7.5E-03 |
| NM_001163724 | SMIM1 | 2.6 | 1.7 | -0.6 | 1.5 | 5.0E-03 |
| NM_001286699 | RCL1 | 11.5 | 7.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001260492 | RDX | 51.9 | 34.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001040715 | KIAA0895L | 6.5 | 4.3 | -0.6 | 1.5 | 2.5E-04 |
| NM_001003704 | MTFP1 | 44.1 | 29.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_004503 | HOXC6 | 11.3 | 7.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_000857 | GUCY1B3 | 2.2 | 1.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001144761 | TLE2 | 11.1 | 7.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001042371 | PGP | 20.5 | 13.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001166103 | SPINT2 | 7.6 | 5.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_014231 | VAMP1 | 10.2 | 6.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001146314 | ABHD14B | 40.2 | 26.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_015091 | FAM179B | 4.3 | 2.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001143917 | LYSMD2 | 4.8 | 3.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001920 | DCN | 47.4 | 31.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001127257 | SLC39A10 | 18.1 | 12.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_014757 | MAML1 | 17.2 | 11.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001198934 | ABCC10 | 6.3 | 4.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001008393 | C4orf46 | 7.4 | 4.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001098478 | HLA-F | 17.8 | 11.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001278201 | SLC43A3 | 84.6 | 56.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_004463 | FGD1 | 6.3 | 4.2 | -0.6 | 1.5 | 5.0E-05 |
| NR_037701 | PKI55 | 2.7 | 1.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001501 | GNRH2 | 50.3 | 33.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_014297 | ETHE1 | 22.4 | 14.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001415 | EIF2S3 | 74.9 | 49.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_032346 | PDCD2L | 10.5 | 7.0 | -0.6 | 1.5 | 5.0E-05 |

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|--------------|----------|--------|-------|------|-----|---------|
| NM_182603 | ANKRD42 | 4.3 | 2.8 | -0.6 | 1.5 | 4.5E-04 |
| NM_005646 | TARBP1 | 9.8 | 6.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_025108 | C16orf59 | 11.8 | 7.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_031921 | ATAD3B | 2.5 | 1.6 | -0.6 | 1.5 | 2.5E-02 |
| NM_000031 | ALAD | 13.2 | 8.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_175063 | EMC10 | 51.0 | 33.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_015447 | CAMSAP1 | 12.1 | 8.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001170634 | FUS | 150.5 | 99.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_032268 | ZNRF1 | 5.2 | 3.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_000584 | IL8 | 7.4 | 4.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_007208 | MRPL3 | 70.4 | 46.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001270691 | SMOX | 27.6 | 18.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_033257 | DGCR6L | 42.7 | 28.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001253815 | SLC52A2 | 48.9 | 32.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001276342 | C18orf8 | 15.0 | 10.0 | -0.6 | 1.5 | 7.1E-03 |
| NM_033502 | TRERF1 | 2.4 | 1.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001004023 | DYRK3 | 7.6 | 5.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_002111 | HTT | 10.4 | 6.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001253826 | GALNT14 | 18.9 | 12.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001114393 | PAPD4 | 12.5 | 8.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_003660 | PPFIA3 | 2.5 | 1.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001166599 | FAM122B | 12.7 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001136019 | FCGRT | 36.8 | 24.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001170750 | SRPX | 14.3 | 9.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_138572 | TAF8 | 14.0 | 9.3 | -0.6 | 1.5 | 1.0E-04 |
| NM_014801 | PCNXL2 | 2.7 | 1.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001136022 | NFATC4 | 3.4 | 2.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001257360 | AMPD2 | 13.5 | 9.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_014467 | SRPX2 | 4.1 | 2.7 | -0.6 | 1.5 | 3.0E-04 |
| NM_024031 | PRR14 | 12.8 | 8.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001004019 | FBLN2 | 30.3 | 20.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001206559 | POLR1D | 46.2 | 30.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001001975 | ATP5D | 97.6 | 65.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001143919 | LTB4R | 13.7 | 9.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_152769 | C19orf26 | 3.7 | 2.4 | -0.6 | 1.5 | 1.3E-02 |
| NM_013355 | PKN3 | 12.1 | 8.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001201407 | ZNF778 | 4.1 | 2.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001287516 | CDC25B | 47.0 | 31.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001278698 | POLR2H | 50.7 | 33.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001271765 | SLC16A5 | 14.7 | 9.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_007315 | STAT1 | 66.6 | 44.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_032451 | SPIRE2 | 4.6 | 3.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001099856 | IKBKG | 13.4 | 9.0 | -0.6 | 1.5 | 2.5E-03 |
| NM_015354 | NUP188 | 44.6 | 29.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_004972 | JAK2 | 3.1 | 2.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001278293 | ARL6 | 2.2 | 1.5 | -0.6 | 1.5 | 1.5E-04 |
| NM_001136053 | TPRA1 | 26.3 | 17.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_012393 | PFAS | 24.8 | 16.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_003864 | SAP30 | 12.6 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_182924 | MICALL2 | 6.1 | 4.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001084392 | DDT | 29.6 | 19.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_002266 | KPNA2 | 366.9 | 245.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_000904 | NQO2 | 33.4 | 22.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001286245 | DTX3 | 10.9 | 7.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_001145928 | SAP130 | 15.0 | 10.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001018 | RPS15 | 1140.5 | 763.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_024299 | PPDPF | 168.9 | 113.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_006897 | HOXC9 | 2.2 | 1.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_022165 | LIN7B | 6.6 | 4.4 | -0.6 | 1.5 | 5.5E-04 |
| NM_152517 | TTC30B | 1.8 | 1.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_024050 | DDA1 | 11.3 | 7.6 | -0.6 | 1.5 | 5.0E-05 |

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|--------------|----------|-------|-------|------|-----|---------|
| NM_019058 | DDIT4 | 173.2 | 116.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001031801 | LIMK2 | 19.8 | 13.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001042355 | CYLD | 6.9 | 4.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001035521 | GTF3C2 | 18.7 | 12.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_020343 | RALGAPA2 | 1.9 | 1.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_006598 | SLC12A7 | 18.1 | 12.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_000745 | CHRNA5 | 8.8 | 5.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_001769 | CD9 | 89.4 | 60.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_003384 | VRK1 | 28.8 | 19.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_003955 | SOCS3 | 16.0 | 10.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001272095 | STX4 | 17.6 | 11.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001145102 | SMAD3 | 14.9 | 10.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_005340 | HINT1 | 523.5 | 351.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_007107 | SSR3 | 97.5 | 65.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001143964 | TBC1D7 | 25.6 | 17.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001144831 | PHB2 | 151.7 | 102.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001111101 | CNRIP1 | 21.0 | 14.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_006285 | TESK1 | 9.0 | 6.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_003086 | SNAPC4 | 7.3 | 4.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_025104 | DBF4B | 15.9 | 10.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001099456 | NPW | 12.4 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_014050 | MRPL42 | 14.5 | 9.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001048218 | SCYL1 | 40.7 | 27.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_006877 | GMPR | 3.8 | 2.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001098637 | PWWP2B | 3.3 | 2.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001128203 | PLA2G16 | 40.5 | 27.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_024319 | C1orf35 | 21.0 | 14.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_032319 | PRADC1 | 21.8 | 14.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_000635 | RFX2 | 3.3 | 2.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001146258 | PIP4K2C | 21.1 | 14.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001167827 | TFEB | 3.4 | 2.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_003686 | EXO1 | 17.7 | 12.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_006122 | MAN2A2 | 8.6 | 5.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001286643 | MTERFD1 | 14.9 | 10.0 | -0.6 | 1.5 | 1.7E-02 |
| NM_001017981 | RNF215 | 10.7 | 7.2 | -0.6 | 1.5 | 1.9E-02 |
| NM_001135811 | FAM60A | 34.9 | 23.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_021930 | RINT1 | 12.8 | 8.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_178167 | ZNF598 | 19.8 | 13.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001126340 | ORAI2 | 8.6 | 5.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_032329 | ING5 | 8.9 | 6.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_006208 | ENPP1 | 3.1 | 2.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_006255 | PRKCH | 6.5 | 4.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001136017 | CCND3 | 108.1 | 73.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001256105 | WNT5A | 69.6 | 47.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_030780 | SLC25A32 | 14.4 | 9.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_014784 | ARHGEF11 | 12.3 | 8.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_013230 | CD24 | 213.4 | 144.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_012121 | CDC42EP4 | 21.3 | 14.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_017514 | PLXNA3 | 12.8 | 8.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001136199 | GRAMD1A | 24.7 | 16.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001029989 | KIAA0101 | 74.6 | 50.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001278495 | NUTM2B | 2.6 | 1.7 | -0.6 | 1.5 | 7.1E-03 |
| NM_016121 | KCTD3 | 22.5 | 15.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_032477 | MRPL41 | 122.1 | 82.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_198150 | ARSK | 8.2 | 5.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001244249 | APEX1 | 102.9 | 69.6 | -0.6 | 1.5 | 5.0E-05 |
| NR_003659 | WASH3P | 12.5 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_023079 | UBE2Z | 46.2 | 31.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_003761 | VAMP8 | 122.9 | 83.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001042555 | FRS2 | 6.8 | 4.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_183241 | C9orf142 | 32.8 | 22.2 | -0.6 | 1.5 | 5.0E-05 |

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|--------------|---------------------|--------|--------|------|-----|---------|
| NM_001286259 | ADAT2 | 3.8 | 2.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_020139 | BDH2 | 7.3 | 4.9 | -0.6 | 1.5 | 5.0E-05 |
| NM_024960 | PANK2 | 21.9 | 14.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_012478 | WBP2 | 43.3 | 29.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001282674 | TNFRSF16 | 195.6 | 132.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001127889 | SPG21 | 42.1 | 28.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001170535 | ATAD3A | 1.8 | 1.2 | -0.6 | 1.5 | 2.4E-02 |
| NM_153332 | ERI1 | 15.9 | 10.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_138356 | SHF | 2.3 | 1.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_001144978 | MTHFD2L | 2.2 | 1.5 | -0.6 | 1.5 | 1.0E-04 |
| NM_006098 | GNB2L1 | 1557.0 | 1057.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001001485 | ATP2C1 | 32.8 | 22.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_001282669 | DFFB | 2.9 | 2.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001004105 | GRK6 | 57.0 | 38.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_001947 | DUSP7 | 13.3 | 9.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_005969 | NAP1L4 | 75.7 | 51.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001080478 | LRRC14B | 7.8 | 5.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_207309 | UAP1L1 | 8.6 | 5.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_021034 | IFITM3 | 329.6 | 224.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_032830 | CIRH1A | 40.4 | 27.5 | -0.6 | 1.5 | 3.0E-04 |
| NM_022117 | TSPYL2 | 20.4 | 13.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001037808 | EIF3C | 6.6 | 4.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_007192 | SUPT16H | 58.0 | 39.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_020158 | EXOSC5 | 23.2 | 15.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_004598 | SPOCK1 | 23.6 | 16.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_014272 | ADAMTS7 | 3.7 | 2.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_173548 | ZNF584 | 6.5 | 4.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_001190981 | IL6ST | 88.3 | 60.1 | -0.6 | 1.5 | 5.0E-05 |
| NM_001037335 | HELZ2 | 8.5 | 5.8 | -0.6 | 1.5 | 5.0E-05 |
| NM_001130090 | LRRC48 | 1.7 | 1.2 | -0.6 | 1.5 | 1.3E-02 |
| NM_006473 | TAF6L | 36.0 | 24.5 | -0.6 | 1.5 | 1.6E-03 |
| NM_018113 | LMBR1L | 13.7 | 9.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_000183 | HADHB | 52.3 | 35.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_005523 | HOXA11 | 8.4 | 5.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_016076 | DES12 | 18.4 | 12.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001204204 | SEC14L2MTFP1SEC14L2 | 12.0 | 8.2 | -0.6 | 1.5 | 5.0E-05 |
| NM_001008739 | C6orf226 | 3.6 | 2.4 | -0.6 | 1.5 | 2.4E-03 |
| NM_014867 | KBTD11 | 9.7 | 6.6 | -0.6 | 1.5 | 5.0E-05 |
| NM_004398 | DDX10 | 11.7 | 8.0 | -0.6 | 1.5 | 5.0E-05 |
| NM_001160302 | SYNJ1 | 4.3 | 3.0 | -0.6 | 1.5 | 2.0E-04 |
| NM_001137559 | ANAPC5 | 54.7 | 37.3 | -0.6 | 1.5 | 5.0E-05 |
| NM_000204 | CFI | 12.4 | 8.4 | -0.6 | 1.5 | 5.0E-05 |
| NM_014347 | ZNF324 | 6.8 | 4.7 | -0.6 | 1.5 | 5.0E-05 |
| NM_005996 | TBX3 | 3.6 | 2.5 | -0.6 | 1.5 | 5.0E-05 |
| NM_001042368 | RALGDS | 8.7 | 5.9 | -0.5 | 1.5 | 5.0E-05 |
| NR_039985 | FLJ22447 | 20.7 | 14.1 | -0.5 | 1.5 | 5.0E-05 |
| NM_017622 | C17orf59 | 4.4 | 3.0 | -0.5 | 1.5 | 5.0E-05 |
| NR_040023 | ERVK13-1 | 1.8 | 1.2 | -0.5 | 1.5 | 5.0E-05 |
| NM_001158 | AOC2 | 55.8 | 38.2 | -0.5 | 1.5 | 5.0E-05 |
| NM_002593 | PCOLCE | 8.0 | 5.4 | -0.5 | 1.5 | 5.0E-03 |
| NM_016453 | NCKIPSD | 15.9 | 10.9 | -0.5 | 1.5 | 5.0E-05 |
| NM_203434 | IER5L | 11.8 | 8.1 | -0.5 | 1.5 | 5.0E-05 |
| NM_001243027 | AKT2 | 23.2 | 15.9 | -0.5 | 1.5 | 5.0E-05 |
| NM_001098790 | MID1IP1 | 6.8 | 4.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_002749 | MAPK7 | 12.9 | 8.8 | -0.5 | 1.5 | 5.5E-04 |
| NM_058190 | FAM207A | 49.5 | 33.9 | -0.5 | 1.5 | 5.0E-05 |
| NM_004691 | ATP6V0D1 | 66.8 | 45.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_001423 | EMP1 | 46.5 | 31.8 | -0.5 | 1.5 | 5.0E-05 |
| NM_004551 | NDUFS3 | 63.4 | 43.4 | -0.5 | 1.5 | 8.9E-03 |
| NM_004582 | RABGGTB | 29.3 | 20.1 | -0.5 | 1.5 | 5.0E-05 |
| NM_001037806 | NCKAP5L | 7.5 | 5.1 | -0.5 | 1.5 | 5.0E-05 |

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|--------------|-------------|--------|--------|------|-----|---------|
| NM_003713 | PPAP2B | 8.9 | 6.1 | -0.5 | 1.5 | 5.0E-05 |
| NM_001251902 | TNK1 | 3.9 | 2.7 | -0.5 | 1.5 | 7.0E-03 |
| NM_001193286 | SIRT2 | 14.1 | 9.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_145806 | ZNF511PRAP1 | 34.0 | 23.3 | -0.5 | 1.5 | 1.9E-03 |
| NM_022104 | PCIF1 | 12.7 | 8.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_001033714 | NOP2 | 94.4 | 64.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_007361 | NID2 | 21.6 | 14.8 | -0.5 | 1.5 | 5.0E-05 |
| NM_001272073 | QARS | 68.7 | 47.1 | -0.5 | 1.5 | 5.0E-05 |
| NM_024665 | TBL1XR1 | 18.4 | 12.6 | -0.5 | 1.5 | 5.0E-05 |
| NM_001243947 | PPP1R14A | 3.8 | 2.6 | -0.5 | 1.5 | 1.5E-04 |
| NM_013376 | SERTAD1 | 23.9 | 16.4 | -0.5 | 1.5 | 5.0E-05 |
| NM_001258384 | IDH3B | 68.1 | 46.7 | -0.5 | 1.5 | 1.0E-04 |
| NM_001162951 | SYTL2 | 5.2 | 3.6 | -0.5 | 1.5 | 5.0E-05 |
| NM_001609 | ACADSB | 2.4 | 1.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_001256539 | NOP16 | 42.9 | 29.5 | -0.5 | 1.5 | 5.0E-05 |
| NM_145047 | OSCP1 | 4.6 | 3.2 | -0.5 | 1.5 | 5.0E-05 |
| NM_002439 | MSH3 | 10.2 | 7.0 | -0.5 | 1.5 | 2.2E-02 |
| NM_001170543 | PGAM5 | 29.2 | 20.1 | -0.5 | 1.5 | 5.0E-05 |
| NM_004560 | ROR2 | 13.8 | 9.5 | -0.5 | 1.5 | 5.0E-05 |
| NM_005640 | TAF4B | 1.9 | 1.3 | -0.5 | 1.5 | 5.0E-05 |
| NM_020412 | CHMP1B | 19.4 | 13.4 | -0.5 | 1.5 | 5.0E-05 |
| NM_001977 | ENPEP | 3.3 | 2.3 | -0.5 | 1.5 | 5.0E-05 |
| NM_005813 | PRKD3 | 15.9 | 11.0 | -0.5 | 1.5 | 5.0E-05 |
| NM_031299 | CDCA3 | 30.9 | 21.3 | -0.5 | 1.5 | 1.6E-02 |
| NM_198924 | TRIM73 | 8.8 | 6.0 | -0.5 | 1.5 | 1.2E-02 |
| NM_001092 | ABR | 16.0 | 11.0 | -0.5 | 1.5 | 5.0E-05 |
| NM_001201459 | ZNF513 | 123.8 | 85.2 | -0.5 | 1.5 | 5.0E-05 |
| NM_001003941 | OGDH | 21.8 | 15.0 | -0.5 | 1.5 | 5.0E-05 |
| NM_001128922 | LRRC32 | 3.4 | 2.3 | -0.5 | 1.5 | 5.0E-05 |
| NM_032429 | LZTS2 | 38.5 | 26.5 | -0.5 | 1.5 | 5.0E-05 |
| NM_003827 | NAPA | 61.7 | 42.5 | -0.5 | 1.5 | 5.0E-05 |
| NM_006946 | SPTBN2 | 1.9 | 1.3 | -0.5 | 1.5 | 5.0E-05 |
| NM_002035 | KDSR | 7.2 | 4.9 | -0.5 | 1.5 | 5.0E-05 |
| NM_152328 | ADSSL1 | 5.3 | 3.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_001173466 | AAAS | 31.2 | 21.5 | -0.5 | 1.5 | 5.0E-05 |
| NM_001024 | RPS21 | 1372.2 | 945.7 | -0.5 | 1.5 | 5.0E-05 |
| NM_000987 | RPL26 | 1688.3 | 1163.6 | -0.5 | 1.5 | 5.0E-05 |
| NM_001039659 | IL18BP | 23.9 | 16.8 | -0.5 | 1.5 | 2.0E-02 |
| NM_001040160 | C16orf13 | 59.2 | 40.8 | -0.5 | 1.5 | 5.0E-05 |
| NM_022782 | MPHOSPH9 | 9.5 | 13.8 | 0.5 | 1.5 | 5.0E-05 |
| NM_001024215 | FBLIM1 | 40.3 | 58.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_020244 | CHPT1 | 18.0 | 26.1 | 0.5 | 1.5 | 5.0E-05 |
| NM_004472 | FOXD1 | 32.4 | 47.0 | 0.5 | 1.5 | 5.0E-05 |
| NM_001190709 | COL11A1 | 24.1 | 35.0 | 0.5 | 1.5 | 5.0E-05 |
| NM_001005176 | SP140 | 9.9 | 14.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_001136123 | FAM178A | 11.9 | 17.2 | 0.5 | 1.5 | 5.0E-05 |
| NM_018352 | TMA16 | 14.9 | 21.7 | 0.5 | 1.5 | 5.0E-05 |
| NM_001145923 | SCAPER | 1.5 | 2.2 | 0.5 | 1.5 | 5.0E-05 |
| NM_021109 | TMSB4X | 1409.1 | 2048.7 | 0.5 | 1.5 | 5.0E-05 |
| NM_003102 | SOD3 | 3.2 | 4.6 | 0.5 | 1.5 | 5.0E-05 |
| NM_001002814 | RAB11FIP1 | 8.6 | 12.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_005786 | TSHZ1 | 1.7 | 2.5 | 0.5 | 1.5 | 5.0E-05 |
| NM_005128 | DOPEY2 | 3.1 | 4.5 | 0.5 | 1.5 | 5.0E-05 |
| NM_001256619 | R3HCC1L | 4.8 | 7.0 | 0.5 | 1.5 | 5.0E-05 |
| NM_001621 | AHR | 5.6 | 8.1 | 0.5 | 1.5 | 5.0E-05 |
| NM_176877 | INADL | 1.5 | 2.2 | 0.5 | 1.5 | 5.0E-05 |
| NM_001142651 | NEURL1B | 2.8 | 4.0 | 0.5 | 1.5 | 5.0E-05 |
| NM_001145648 | RASGRF1 | 1.7 | 2.5 | 0.5 | 1.5 | 5.0E-05 |
| NM_001271314 | ZNF266 | 6.1 | 8.9 | 0.5 | 1.5 | 5.0E-05 |
| NM_014035 | SNX24 | 16.4 | 23.9 | 0.5 | 1.5 | 5.0E-05 |
| NM_001284251 | GUCD1 | 19.3 | 28.1 | 0.5 | 1.5 | 2.0E-04 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NM_001271762 | DUS2L | 7.4 | 10.8 | 0.5 | 1.5 | 5.0E-05 |
| NM_001130688 | HMGB2 | 183.7 | 267.6 | 0.5 | 1.5 | 5.0E-05 |
| NM_207517 | ADAMTSL3 | 1.7 | 2.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_052854 | CREB3L1 | 18.1 | 26.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_001276277 | PPIP5K2 | 7.1 | 10.3 | 0.5 | 1.5 | 5.0E-05 |
| NM_001007538 | SHISA2 | 12.9 | 18.8 | 0.5 | 1.5 | 5.0E-05 |
| NM_020728 | ESYT2 | 19.2 | 28.0 | 0.5 | 1.5 | 5.0E-05 |
| NM_207318 | FAM199X | 14.5 | 21.1 | 0.5 | 1.5 | 1.6E-03 |
| NM_007282 | RNF13 | 11.9 | 17.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_001681 | ATP2A2 | 64.9 | 94.7 | 0.5 | 1.5 | 5.0E-05 |
| NM_004458 | ACSL4 | 25.9 | 37.8 | 0.5 | 1.5 | 5.0E-05 |
| NM_133636 | HELQ | 5.0 | 7.3 | 0.5 | 1.5 | 2.7E-03 |
| NM_001039651 | MSH5-SAPCD1 | 5.1 | 7.5 | 0.5 | 1.5 | 1.7E-02 |
| NR_033937 | LOC100132077 | 1.5 | 2.1 | 0.5 | 1.5 | 5.0E-05 |
| NM_001077686 | AGAP8 | 9.7 | 14.2 | 0.5 | 1.5 | 5.0E-05 |
| NM_001244871 | DAB2 | 15.3 | 22.3 | 0.5 | 1.5 | 5.0E-05 |
| NM_005077 | TLE1 | 4.7 | 6.8 | 0.5 | 1.5 | 5.0E-05 |
| NM_013943 | CLIC4 | 153.8 | 224.8 | 0.5 | 1.5 | 5.0E-05 |
| NM_001013836 | MAD1L1 | 10.5 | 15.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_001258211 | FBXO16 | 1.5 | 2.2 | 0.5 | 1.5 | 2.5E-04 |
| NM_032656 | DHX37 | 6.4 | 9.3 | 0.5 | 1.5 | 5.0E-05 |
| NM_001097577 | ANG | 3.1 | 4.6 | 0.5 | 1.5 | 5.0E-05 |
| NM_000356 | TCOF1 | 31.9 | 46.7 | 0.5 | 1.5 | 5.0E-05 |
| NM_001001992 | USP16 | 15.6 | 22.9 | 0.5 | 1.5 | 5.0E-05 |
| NM_001039467 | RGS19 | 5.8 | 8.4 | 0.5 | 1.5 | 5.0E-05 |
| NM_003824 | FADD | 20.9 | 30.5 | 0.5 | 1.5 | 5.0E-05 |
| NM_001278604 | LARP1B | 10.7 | 15.6 | 0.5 | 1.5 | 5.0E-05 |
| NM_001012644 | DUSP15 | 3.7 | 5.3 | 0.5 | 1.5 | 5.0E-05 |
| NM_005968 | HNRNPM | 119.9 | 175.6 | 0.5 | 1.5 | 5.0E-05 |
| NM_001197026 | PLEKHA8 | 3.0 | 4.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_004294 | MTRF1 | 2.9 | 4.3 | 0.6 | 1.5 | 4.0E-04 |
| NM_001145417 | MSL2 | 5.0 | 7.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_014957 | DENND3 | 3.7 | 5.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_004491 | ARHGAP35 | 13.6 | 19.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001170637 | SRGAP2 | 17.6 | 25.7 | 0.6 | 1.5 | 5.0E-05 |
| NR_103821 | EMC3-AS1 | 3.5 | 5.1 | 0.6 | 1.5 | 1.0E-04 |
| NR_040584 | STAG3L2 | 10.6 | 15.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_033412 | SLC25A51 | 8.2 | 12.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001128148 | TFRC | 65.9 | 96.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_006734 | HIVEP2 | 3.6 | 5.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001007466 | TULP4 | 3.5 | 5.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_030816 | ANKRD13C | 8.7 | 12.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001204220 | ZNF670 | 5.9 | 8.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001099269 | ZNF506 | 1.5 | 2.2 | 0.6 | 1.5 | 2.6E-03 |
| NM_001195156 | ZMYM6NB | 15.9 | 23.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001270528 | RNF111 | 6.1 | 9.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001136000 | ABL2 | 6.0 | 8.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_024523 | GCC1 | 5.3 | 7.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001042383 | CEP63 | 5.2 | 7.7 | 0.6 | 1.5 | 5.5E-04 |
| NM_001284333 | TLK2 | 7.8 | 11.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001145028 | PALM3 | 1.6 | 2.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_007034 | DNAJB4 | 26.7 | 39.3 | 0.6 | 1.5 | 9.5E-04 |
| NM_000249 | MLH1 | 21.6 | 31.7 | 0.6 | 1.5 | 5.0E-05 |
| NR_002594 | SLC7A5P2 | 2.1 | 3.0 | 0.6 | 1.5 | 3.5E-04 |
| NM_020772 | NUFIP2 | 19.2 | 28.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001008211 | OPTN | 29.5 | 43.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001142560 | RRNAD1 | 2.4 | 3.5 | 0.6 | 1.5 | 2.1E-02 |
| NM_001199865 | KIF16B | 2.5 | 3.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001010891 | MTX3 | 7.5 | 11.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_145062 | ZUFSP | 6.2 | 9.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001039690 | CHTF8 | 37.4 | 55.0 | 0.6 | 1.5 | 5.0E-05 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NM_006373 | VAT1 | 52.5 | 77.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_178314 | RILPL1 | 5.8 | 8.6 | 0.6 | 1.5 | 5.5E-04 |
| NM_001033583 | ACOT9 | 35.7 | 52.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001008485 | SLC41A3 | 13.3 | 19.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_013240 | N6AMT1 | 5.2 | 7.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001130674 | CALU | 101.7 | 149.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001253829 | PTPDC1 | 4.9 | 7.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_174909 | TMEM167A | 24.3 | 35.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001164315 | ANKRD36 | 1.6 | 2.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_030939 | C6orf62 | 56.0 | 82.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_002446 | MAP3K10 | 3.2 | 4.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001282428 | KCNS3 | 3.5 | 5.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001288962 | TRIP10 | 38.8 | 57.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_020664 | DECR2 | 11.1 | 16.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001166425 | GNAI2 | 174.2 | 257.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_024594 | PANK3 | 20.2 | 29.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_015283 | DPY19L1 | 14.1 | 20.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001204426 | LIMK1 | 25.4 | 37.5 | 0.6 | 1.5 | 5.0E-05 |
| NR_029401 | LOC731275 | 2.0 | 2.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001145199 | C12orf75 | 104.6 | 154.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_002890 | RASA1 | 14.2 | 20.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_018050 | MANSC1 | 2.3 | 3.4 | 0.6 | 1.5 | 5.0E-05 |
| NR_027054 | MIR31HG | 2.5 | 3.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001256876 | KANK1 | 4.2 | 6.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_033127 | SEC16B | 3.0 | 4.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_005399 | PRKAB2 | 8.0 | 11.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001145548 | ZDHHC7 | 24.2 | 35.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_018273 | TMEM143 | 2.8 | 4.2 | 0.6 | 1.5 | 5.0E-05 |
| NR_029408 | LOC439994 | 3.4 | 5.0 | 0.6 | 1.5 | 2.9E-03 |
| NM_018362 | LIN7C | 8.3 | 12.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001271834 | RSRC1 | 11.9 | 17.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001080412 | ZBTB38 | 10.5 | 15.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001271783 | FAR2 | 1.7 | 2.5 | 0.6 | 1.5 | 1.6E-02 |
| NM_001271734 | COPZ1 | 57.0 | 84.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001545 | ICT1 | 22.4 | 33.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001284303 | TBC1D22A | 6.0 | 8.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_005313 | PDIA3 | 195.5 | 289.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001164189 | PLIN3 | 62.5 | 92.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001029835 | CCM2 | 20.6 | 30.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001142434 | MGEA5 | 46.2 | 68.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_145049 | UBLCP1 | 12.1 | 17.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001024649 | CANX | 253.4 | 376.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001080391 | SP100 | 13.1 | 19.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_017672 | TRPM7 | 6.4 | 9.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001190447 | PPP2R3A | 3.4 | 5.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_001079539 | XBP1 | 48.2 | 71.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_003455 | ZNF202 | 2.9 | 4.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_006742 | PSKH1 | 7.0 | 10.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001172674 | ZNF347 | 2.5 | 3.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001008405 | BCAP29 | 9.5 | 14.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001043351 | TPM3 | 170.9 | 254.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_021079 | NMT1 | 35.2 | 52.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001174159 | SH2D4A | 11.2 | 16.7 | 0.6 | 1.5 | 5.0E-05 |
| NR_029407 | LOC642361 | 3.0 | 4.5 | 0.6 | 1.5 | 2.7E-02 |
| NM_001085411 | NADKD1 | 9.3 | 13.8 | 0.6 | 1.5 | 5.0E-05 |
| NR_109909 | CTC-338M12.4 | 2.9 | 4.3 | 0.6 | 1.5 | 1.2E-02 |
| NM_001137675 | ATXN1L | 9.5 | 14.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_052972 | LRG1 | 1.6 | 2.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001018116 | MURC | 29.5 | 44.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_016570 | ERGIC2 | 25.6 | 38.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_032765 | TRIM52 | 3.4 | 5.1 | 0.6 | 1.5 | 1.0E-04 |

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| NM_015352 | POFUT1 | 20.4 | 30.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_016350 | NIN | 14.1 | 21.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_003844 | TNFRSF10A | 3.3 | 5.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001271854 | GPR176 | 10.9 | 16.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001145446 | ZNF200 | 3.8 | 5.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_021928 | SPCS3 | 43.8 | 65.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001184977 | UQCC | 9.1 | 13.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001165966 | PITPNM3 | 3.5 | 5.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_017649 | CNNM2 | 2.5 | 3.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_017694 | MFSD6 | 2.4 | 3.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_015697 | COQ2 | 19.2 | 28.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_014423 | AFF4 | 27.0 | 40.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001661 | ARL4D | 17.8 | 26.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_000212 | ITGB3 | 19.3 | 28.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_032492 | JAGN1 | 17.5 | 26.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_015033 | FBNP1 | 6.4 | 9.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_080836 | STK35 | 7.9 | 11.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_006602 | TCFL5 | 10.4 | 15.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_003009 | SEPW1 | 74.0 | 110.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001282495 | ZNF343 | 3.2 | 4.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001145721 | HOMER3 | 24.4 | 36.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_003778 | B4GALT4 | 13.8 | 20.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001040157 | CEP44 | 4.0 | 6.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_003566 | EEA1 | 4.5 | 6.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_152504 | C20orf196 | 3.8 | 5.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001270520 | DAAM1 | 2.8 | 4.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001104587 | SLFN11 | 10.6 | 16.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001164811 | PET117 | 10.2 | 15.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_213604 | ADAMTSL5 | 3.7 | 5.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_006526 | ZNF217 | 9.7 | 14.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_003370 | VASP | 27.5 | 41.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001282142 | TFE3 | 15.4 | 23.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_017846 | TRNAU1AP | 10.6 | 16.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_015898 | ZBTB7A | 5.5 | 8.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_139159 | DPP9 | 19.0 | 28.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_022748 | TNS3 | 15.1 | 22.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001185063 | ZNF75D | 2.5 | 3.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001943 | DSG2 | 23.9 | 35.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001042417 | RUFY2 | 6.8 | 10.2 | 0.6 | 1.5 | 2.1E-02 |
| NM_144492 | CLDN14 | 2.8 | 4.2 | 0.6 | 1.5 | 1.5E-04 |
| NM_015458 | MTMR9 | 5.9 | 8.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001170460 | CDK16 | 24.4 | 36.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001167882 | ANKRD50 | 5.1 | 7.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_018676 | THSD1 | 4.3 | 6.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001144964 | NEDD4L | 4.3 | 6.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_175907 | ZADH2 | 2.6 | 3.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_002702 | POU6F1 | 2.5 | 3.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001198953 | ZFYVE21 | 27.6 | 41.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001002762 | DNAJB12 | 18.4 | 27.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_015960 | CUTC | 11.3 | 17.1 | 0.6 | 1.5 | 1.5E-02 |
| NM_052852 | ZNF486 | 1.6 | 2.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_182609 | ZNF677 | 2.2 | 3.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001142443 | EDC3 | 12.1 | 18.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_006842 | SF3B2 | 54.0 | 81.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001201380 | CNTNAP3B | 2.1 | 3.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_004964 | HDAC1 | 65.1 | 98.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001068 | TOP2B | 25.6 | 38.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001010924 | FAM171A1 | 7.7 | 11.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001146319 | GRAMD3 | 16.2 | 24.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001172435 | RAB3GAP1 | 14.2 | 21.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001540 | HSPB1 | 496.6 | 750.4 | 0.6 | 1.5 | 5.0E-05 |

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| NM_001101662 | NRD1 | 32.8 | 49.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_017848 | FAM120C | 2.9 | 4.4 | 0.6 | 1.5 | 6.5E-04 |
| NM_024582 | FAT4 | 2.1 | 3.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001012333 | MDK | 154.7 | 233.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_022100 | MRPS14 | 24.1 | 36.4 | 0.6 | 1.5 | 2.8E-02 |
| NM_015153 | PHF3 | 8.2 | 12.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_144778 | MBNL2 | 16.1 | 24.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001122665 | DDX3Y | 18.1 | 27.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001128301 | LYRM1 | 7.2 | 10.9 | 0.6 | 1.5 | 4.0E-04 |
| NM_001033604 | BBS9 | 2.4 | 3.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001271977 | STK25 | 44.9 | 67.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001282805 | MARCH7 | 25.9 | 39.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_006558 | KHDRBS3 | 7.3 | 11.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_016545 | IER5 | 13.6 | 20.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001039792 | HRCT1 | 2.4 | 3.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001204813 | NT5E | 20.9 | 31.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001171201 | UBAP1 | 25.4 | 38.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_033393 | FHDC1 | 3.1 | 4.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_080627 | SOGA1 | 7.0 | 10.7 | 0.6 | 1.5 | 5.0E-05 |
| NR_029635 | MIR221 | 3.6 | 5.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001143676 | SGK1 | 42.0 | 63.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_000208 | INSR | 2.2 | 3.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001164431 | ARHGAP40 | 2.3 | 3.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_000614 | CNTF | 18.1 | 27.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_022491 | SUDS3 | 7.0 | 10.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001136139 | TCF3 | 20.8 | 31.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_080660 | ZC3HAV1L | 6.5 | 9.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001199492 | PDCD4 | 15.7 | 23.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_033211 | C5orf30 | 6.2 | 9.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_014246 | CELSR1 | 16.2 | 24.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001675 | ATF4 | 121.6 | 184.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_020524 | PBXIP1 | 16.3 | 24.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_012088 | PGLS | 36.2 | 55.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001003694 | BRPF1 | 7.2 | 10.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001270987 | LTBR | 37.3 | 56.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001186 | BACH1 | 5.5 | 8.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_144680 | ZNF18 | 2.0 | 3.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_001334 | CTSO | 3.4 | 5.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_175884 | CCDC71L | 2.9 | 4.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001142966 | GREB1L | 1.6 | 2.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001005743 | NUMB | 18.5 | 28.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_030640 | DUSP16 | 3.2 | 4.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_032427 | MAML2 | 3.4 | 5.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_018283 | NUDT15 | 15.7 | 23.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001255976 | PMEP1 | 44.7 | 68.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_001110503 | TMEM87A | 18.0 | 27.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001080471 | PEAR1 | 5.6 | 8.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001010989 | HERPUD1 | 23.9 | 36.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_000286 | PEX12 | 2.6 | 4.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_005735 | ACTR1B | 15.2 | 23.1 | 0.6 | 1.5 | 5.0E-05 |
| NR_033908 | LOC100288069 | 5.8 | 8.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_016644 | PRR16 | 2.3 | 3.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_024640 | YRDC | 13.4 | 20.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_152284 | CHMP4C | 2.1 | 3.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001130101 | NR1H3 | 5.4 | 8.2 | 0.6 | 1.5 | 6.6E-03 |
| NM_001284245 | SIPA1L1 | 12.0 | 18.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001002759 | SFR1 | 3.8 | 5.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001242844 | RNF146 | 9.2 | 14.1 | 0.6 | 1.5 | 2.0E-04 |
| NM_012327 | PIGN | 6.0 | 9.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_022465 | IKZF4 | 1.7 | 2.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001048249 | SMIM15 | 21.9 | 33.5 | 0.6 | 1.5 | 5.0E-05 |

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| NM_031283 | TCF7L1 | 5.3 | 8.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_006379 | SEMA3C | 12.1 | 18.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_016231 | NLK | 6.0 | 9.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_020820 | PREX1 | 3.3 | 5.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_030645 | SH3BP5L | 14.9 | 22.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_006342 | TACC3 | 45.7 | 69.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001013415 | FBXW7 | 6.9 | 10.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_003677 | DENR | 24.4 | 37.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_004227 | CYTH3 | 10.4 | 16.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_003885 | CDK5R1 | 2.7 | 4.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_032509 | MAK16 | 9.9 | 15.2 | 0.6 | 1.5 | 5.0E-05 |
| NR_028379 | FTX | 2.8 | 4.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_001282750 | SUCO | 15.9 | 24.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_022831 | AIDA | 45.8 | 70.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_000540 | RYR1 | 1.8 | 2.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001178040 | STX3 | 8.1 | 12.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_032336 | GIN54 | 15.5 | 23.7 | 0.6 | 1.5 | 5.0E-05 |
| NR_026052 | MGC2752 | 5.2 | 8.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001172702 | SLC38A6 | 4.0 | 6.1 | 0.6 | 1.5 | 1.2E-03 |
| NM_001281441 | WBSCR16 | 16.8 | 25.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001256339 | NKX3-1 | 2.8 | 4.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_000165 | GJA1 | 34.6 | 53.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_173084 | TRIM59 | 10.3 | 15.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_001252129 | LSM4 | 37.8 | 58.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001024596 | ZNF772 | 1.8 | 2.7 | 0.6 | 1.5 | 5.0E-05 |
| NM_001079812 | DIAPH1 | 39.6 | 60.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_006996 | SLC19A2 | 12.6 | 19.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_004850 | ROCK2 | 14.0 | 21.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_002840 | PTPRF | 51.9 | 79.8 | 0.6 | 1.5 | 5.0E-05 |
| NM_019022 | TMX3 | 10.7 | 16.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_019043 | APBB1IP | 2.1 | 3.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001160354 | LY6K | 5.6 | 8.7 | 0.6 | 1.5 | 6.5E-04 |
| NM_001184992 | RNF135 | 5.0 | 7.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_001010880 | ZNF780A | 2.9 | 4.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_006289 | TLN1 | 70.5 | 108.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001039675 | UNC45A | 21.6 | 33.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001173479 | ARHGEF9 | 4.1 | 6.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_145011 | ZNF25 | 1.5 | 2.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_022758 | C6orf106 | 19.4 | 29.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001287385 | FAM72C | 5.6 | 8.6 | 0.6 | 1.5 | 5.0E-05 |
| NR_015353 | LOC92249 | 4.6 | 7.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_001191028 | TNPO3 | 17.5 | 27.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_000946 | PRIM1 | 15.5 | 23.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001035230 | RABGAP1L | 4.1 | 6.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_173674 | DCBLD1 | 13.2 | 20.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001030055 | ARHGAP5 | 10.1 | 15.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_016436 | PHF20 | 10.5 | 16.2 | 0.6 | 1.5 | 5.0E-05 |
| NM_139178 | ALKBH3 | 7.9 | 12.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_173637 | SLC25A41 | 1.5 | 2.3 | 0.6 | 1.5 | 4.5E-03 |
| NM_145063 | OARD1 | 9.1 | 14.1 | 0.6 | 1.5 | 1.2E-03 |
| NM_006743 | RBM3 | 60.5 | 93.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001792 | CDH2 | 54.7 | 84.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_024942 | C10orf88 | 3.9 | 6.0 | 0.6 | 1.5 | 5.0E-05 |
| NM_001135768 | PVR | 33.4 | 51.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_181705 | LYRM7 | 3.3 | 5.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_001284413 | HACL1 | 8.5 | 13.1 | 0.6 | 1.5 | 5.0E-05 |
| NM_001071775 | MZT1 | 14.6 | 22.7 | 0.6 | 1.5 | 1.5E-04 |
| NM_145266 | NUDCD2 | 25.5 | 39.4 | 0.6 | 1.5 | 5.0E-05 |
| NM_001243466 | STARD13 | 4.8 | 7.5 | 0.6 | 1.5 | 5.0E-05 |
| NM_001267580 | PRC1 | 67.0 | 103.8 | 0.6 | 1.5 | 5.0E-05 |
| NR_102759 | LOC100507602 | 5.6 | 8.7 | 0.6 | 1.5 | 2.7E-02 |

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|--------------|----------|-------|-------|-----|-----|---------|
| NM_000786 | CYP51A1 | 31.8 | 49.3 | 0.6 | 1.5 | 5.0E-05 |
| NM_001003792 | RBMS3 | 5.7 | 8.9 | 0.6 | 1.5 | 5.0E-05 |
| NM_001256264 | FLII | 33.9 | 52.6 | 0.6 | 1.5 | 5.0E-05 |
| NM_017761 | PNRC2 | 53.1 | 82.3 | 0.6 | 1.6 | 5.0E-05 |
| NM_000462 | UBE3A | 12.8 | 19.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_001135733 | TP53INP1 | 4.1 | 6.4 | 0.6 | 1.6 | 5.0E-05 |
| NM_001040260 | DCLK2 | 4.4 | 6.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_000875 | IGF1R | 13.9 | 21.6 | 0.6 | 1.6 | 5.0E-05 |
| NM_001085423 | MILR1 | 3.7 | 5.7 | 0.6 | 1.6 | 2.2E-03 |
| NM_144689 | ZNF420 | 1.7 | 2.7 | 0.6 | 1.6 | 5.0E-05 |
| NM_024620 | ZNF329 | 2.5 | 3.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_032015 | RNF26 | 33.3 | 51.7 | 0.6 | 1.6 | 5.0E-05 |
| NR_027107 | MGC45800 | 1.8 | 2.8 | 0.6 | 1.6 | 2.7E-02 |
| NM_001253861 | MND1 | 8.0 | 12.4 | 0.6 | 1.6 | 5.0E-05 |
| NM_001099653 | FAM86C1 | 2.0 | 3.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_006236 | POU3F3 | 15.5 | 24.0 | 0.6 | 1.6 | 5.0E-05 |
| NM_019050 | USP53 | 2.6 | 4.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_001013649 | C2orf68 | 3.3 | 5.1 | 0.6 | 1.6 | 5.0E-04 |
| NM_001193360 | EXD2 | 3.5 | 5.5 | 0.6 | 1.6 | 5.0E-05 |
| NM_001207000 | HNRPDL | 47.8 | 74.4 | 0.6 | 1.6 | 5.0E-05 |
| NM_170606 | KMT2C | 4.3 | 6.7 | 0.6 | 1.6 | 5.0E-05 |
| NM_001270639 | JOSD2 | 17.3 | 26.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_001145769 | XPC | 10.6 | 16.5 | 0.6 | 1.6 | 5.0E-05 |
| NM_001203250 | ZNF20 | 3.8 | 5.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_015836 | WARS2 | 2.5 | 3.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_018429 | BDP1 | 7.8 | 12.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_001009813 | MEIS3 | 6.3 | 9.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_001278610 | MYBL2 | 88.3 | 137.5 | 0.6 | 1.6 | 5.0E-05 |
| NM_001289088 | ZMYM1 | 6.4 | 9.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_001130475 | THAP5 | 5.6 | 8.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_005438 | FOSL1 | 24.6 | 38.4 | 0.6 | 1.6 | 5.0E-05 |
| NM_001242377 | DCP2 | 9.0 | 14.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_001195071 | TMEM184B | 31.6 | 49.2 | 0.6 | 1.6 | 5.0E-05 |
| NM_001244698 | ZFP36L1 | 55.9 | 87.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_005109 | OXSRI | 19.2 | 30.0 | 0.6 | 1.6 | 5.0E-05 |
| NM_016531 | KLF3 | 6.4 | 10.0 | 0.6 | 1.6 | 5.0E-05 |
| NM_002901 | RCN1 | 153.3 | 239.2 | 0.6 | 1.6 | 5.0E-05 |
| NM_145305 | SLC25A43 | 7.7 | 11.9 | 0.6 | 1.6 | 5.0E-05 |
| NM_139241 | FGD4 | 2.9 | 4.5 | 0.6 | 1.6 | 5.0E-05 |
| NM_144982 | ZFC3H1 | 7.7 | 12.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_001164446 | C6orf132 | 4.7 | 7.4 | 0.6 | 1.6 | 5.0E-05 |
| NM_001199297 | UIMC1 | 11.3 | 17.7 | 0.6 | 1.6 | 5.0E-05 |
| NM_003405 | YWHAH | 100.3 | 156.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_001287532 | ZNF92 | 1.8 | 2.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_033034 | TRIM5 | 4.0 | 6.3 | 0.6 | 1.6 | 5.0E-05 |
| NM_002577 | PAK2 | 24.8 | 38.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_001243186 | PIM1 | 5.0 | 7.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_001127190 | CSK | 17.0 | 26.5 | 0.6 | 1.6 | 5.0E-05 |
| NR_045680 | HEIH | 5.3 | 8.2 | 0.6 | 1.6 | 5.0E-05 |
| NM_001178075 | ASNS | 13.0 | 20.3 | 0.6 | 1.6 | 5.0E-05 |
| NM_001168355 | OSMR | 48.3 | 75.7 | 0.6 | 1.6 | 5.0E-05 |
| NM_001145391 | OXSM | 5.3 | 8.3 | 0.6 | 1.6 | 5.5E-04 |
| NM_001135669 | XPR1 | 4.6 | 7.2 | 0.6 | 1.6 | 5.0E-05 |
| NM_032582 | USP32 | 6.8 | 10.7 | 0.6 | 1.6 | 5.0E-05 |
| NM_004808 | NMT2 | 10.4 | 16.3 | 0.6 | 1.6 | 5.0E-05 |
| NM_033428 | C9orf123 | 14.3 | 22.4 | 0.6 | 1.6 | 5.0E-05 |
| NM_001276722 | C11orf74 | 11.5 | 18.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_006763 | BTG2 | 3.5 | 5.6 | 0.6 | 1.6 | 5.0E-05 |
| NM_001040450 | FAM63B | 3.7 | 5.8 | 0.6 | 1.6 | 5.0E-05 |
| NM_001243797 | TSC22D1 | 13.4 | 21.1 | 0.6 | 1.6 | 5.0E-05 |
| NM_032211 | LOXL4 | 3.2 | 5.0 | 0.7 | 1.6 | 5.0E-05 |

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|--------------------|-----------|-------|-------|-----|-----|---------|
| NM_000235 | LIPA | 16.3 | 25.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001278510 | ZNF229 | 1.7 | 2.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_020894 | UVSSA | 2.1 | 3.3 | 0.7 | 1.6 | 4.2E-03 |
| NM_017510 | TMED9 | 236.0 | 370.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_006988 | ADAMTS1 | 8.2 | 12.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_001083625 | ANKRD12 | 3.4 | 5.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001037164 | ARL4A | 4.1 | 6.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_018976 | SLC38A2 | 49.6 | 78.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_178169 | RASSF3 | 8.6 | 13.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_015055 | SWAP70 | 14.4 | 22.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_005611 | RBL2 | 11.0 | 17.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001206994 | PPP2R2C | 4.1 | 6.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001098845 | ANXA8 | 13.1 | 20.6 | 0.7 | 1.6 | 7.0E-04 |
| NM_001276479 | LONP1 | 29.0 | 45.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001105549,77945 | ZNF83 | 14.0 | 22.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_002410 | MGAT5 | 6.8 | 10.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_020935 | USP37 | 3.5 | 5.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_018453 | EAPP | 15.4 | 24.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001270584 | IQCA1 | 2.9 | 4.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_012434 | SLC17A5 | 4.2 | 6.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_152678 | DENND6A | 5.4 | 8.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_138383 | MTSS1L | 13.9 | 22.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_004907 | IER2 | 13.1 | 20.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001130963 | TMEM194A | 19.1 | 30.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001143941 | RBM24 | 3.1 | 4.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_012388 | BLOC1S6 | 10.3 | 16.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_015974 | CRYL1 | 1.9 | 3.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_152387 | KCTD18 | 3.8 | 6.0 | 0.7 | 1.6 | 6.5E-04 |
| NR_003505 | PPP4R1L | 2.5 | 3.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001040134 | PALM | 13.7 | 21.6 | 0.7 | 1.6 | 5.0E-05 |
| NR_028502 | MIR22HG | 13.7 | 21.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001005368 | ZNF32 | 8.0 | 12.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_015286 | SYNM | 2.4 | 3.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_147156 | SGMS1 | 6.2 | 9.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001100412 | DROSHA | 14.8 | 23.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001258217 | MIS12 | 11.9 | 18.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_006062 | SMYD5 | 11.7 | 18.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_001265588 | ZNF267 | 3.1 | 4.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_178821 | DAW1 | 7.3 | 11.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_003487 | TAF15 | 62.6 | 99.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_005358 | LMO7 | 5.8 | 9.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_004947 | DOCK3 | 109.8 | 174.1 | 0.7 | 1.6 | 5.0E-05 |
| NR_034105 | CRNDE | 6.3 | 9.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_005544 | IRS1 | 15.9 | 25.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_004376 | COX15 | 6.8 | 10.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_033540 | MFN1 | 8.5 | 13.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_080725 | SRXN1 | 23.8 | 37.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_001254740 | SLC24A1 | 1.5 | 2.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_003768 | PEA15 | 103.1 | 164.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_001178002 | ATP8B3 | 2.0 | 3.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145432 | SMIM20 | 13.0 | 20.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_144508 | CASC5 | 8.0 | 12.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_012325 | MAPRE1 | 109.8 | 175.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_001270726 | BCL2L13 | 7.8 | 12.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001252226 | PLK2 | 57.9 | 92.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001270539 | PEX11G | 1.6 | 2.6 | 0.7 | 1.6 | 5.0E-05 |
| NR_037875 | LOC728730 | 3.0 | 4.7 | 0.7 | 1.6 | 1.7E-03 |
| NM_002898 | RBMS2 | 7.4 | 11.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145434 | ZNF880 | 3.9 | 6.2 | 0.7 | 1.6 | 6.5E-04 |
| NM_001017395 | TMCC1 | 5.6 | 8.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001031725 | DDX59 | 3.6 | 5.8 | 0.7 | 1.6 | 5.0E-05 |

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|--------------|------------|-------|-------|-----|-----|---------|
| NM_032840 | SPRYD3 | 8.6 | 13.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_012198 | GCA | 4.1 | 6.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_138400 | NOM1 | 9.0 | 14.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_003816 | ADAM9 | 176.3 | 281.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001012329 | CTNNBIP1 | 3.9 | 6.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_012242 | DKK1 | 26.3 | 42.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_016053 | CCDC53 | 15.3 | 24.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001161546 | PROB1 | 4.0 | 6.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001034841 | ITPRIPL2 | 6.3 | 10.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_001033569 | AMZ2 | 24.6 | 39.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001040000 | MLLT4 | 8.9 | 14.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001177475 | MOSPD2 | 5.4 | 8.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_031215 | CABLES2 | 2.3 | 3.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_006825 | CKAP4 | 69.4 | 111.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001278211 | LRRC20 | 7.5 | 12.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_007008 | RTN4 | 204.1 | 327.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145542 | ZSCAN18 | 6.4 | 10.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_138493 | CCDC167 | 18.2 | 29.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001011655 | TMEM44 | 15.6 | 25.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_001127487 | FLNC | 41.0 | 65.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_080607 | VSTM2L | 1.6 | 2.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_033114 | ZCRB1 | 16.7 | 26.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_017919 | STX17 | 4.1 | 6.7 | 0.7 | 1.6 | 1.0E-04 |
| NM_001286617 | MAP3K7CL | 4.8 | 7.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_017946 | FKBP14 | 4.5 | 7.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_017425 | SPA17 | 8.6 | 13.9 | 0.7 | 1.6 | 1.2E-03 |
| NM_007111 | TFDP1 | 65.0 | 104.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001287054 | ZKSCAN1 | 3.9 | 6.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001284301 | ANLN | 76.7 | 123.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_001170796 | ZFAND1 | 12.0 | 19.4 | 0.7 | 1.6 | 2.0E-04 |
| NM_020870 | SH3RF1 | 6.0 | 9.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_004278 | PIGL | 4.4 | 7.0 | 0.7 | 1.6 | 5.0E-05 |
| NR_003108 | NBR2 | 2.5 | 4.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_000393 | COL5A2 | 14.6 | 23.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_020702 | KIAA1161 | 5.5 | 8.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001085049 | MRAS | 5.6 | 9.0 | 0.7 | 1.6 | 5.0E-05 |
| NR_109992 | SUCLG2-AS1 | 3.0 | 4.8 | 0.7 | 1.6 | 1.0E-04 |
| NM_001135821 | FDPS | 79.8 | 128.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001024660 | KALRN | 2.7 | 4.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_006943 | SOX12 | 5.9 | 9.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_152522 | ARL6IP6 | 14.0 | 22.6 | 0.7 | 1.6 | 1.4E-03 |
| NM_030940 | ISCA1 | 10.5 | 17.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_001014380 | KATNAL1 | 5.3 | 8.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001142393 | NEDD9 | 9.1 | 14.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001226 | CASP6 | 9.5 | 15.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_018268 | WDR41 | 12.9 | 20.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001172677 | ZNF607 | 1.6 | 2.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145306 | CDK6 | 11.4 | 18.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_001040633 | PRKAG2 | 17.6 | 28.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_022373 | HERPUD2 | 7.5 | 12.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_016343 | CENPF | 20.5 | 33.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001206840 | TGOLN2 | 42.1 | 68.1 | 0.7 | 1.6 | 5.0E-05 |
| NR_029193 | SH3RF3-AS1 | 2.3 | 3.7 | 0.7 | 1.6 | 3.5E-04 |
| NM_001009984 | C20orf194 | 3.7 | 5.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_003607 | CDC42BPA | 5.0 | 8.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_007043 | KRR1 | 19.6 | 31.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_001190799 | PLK4 | 12.7 | 20.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001288980 | C18orf54 | 4.0 | 6.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_001017369 | MSMO1 | 32.4 | 52.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001161625 | NXNL2 | 2.8 | 4.6 | 0.7 | 1.6 | 3.0E-04 |
| NM_001287437 | JADE1 | 21.4 | 34.8 | 0.7 | 1.6 | 5.0E-05 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NM_006366 | CAP2 | 12.2 | 19.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_002072 | GNAQ | 12.5 | 20.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_015150 | RFTN1 | 17.7 | 28.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_032449 | CC2D1B | 6.9 | 11.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_021090 | MTMR3 | 5.0 | 8.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_001272053 | MRFAP1 | 114.5 | 186.2 | 0.7 | 1.6 | 5.0E-05 |
| NR_002612 | DLEU2 | 2.8 | 4.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_001010895 | ERCC6L2 | 3.2 | 5.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_152680 | TMEM154 | 4.5 | 7.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_017858 | TIPIN | 9.4 | 15.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001010915 | PTPLAD2 | 5.0 | 8.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001013619 | AGPHD1 | 1.5 | 2.4 | 0.7 | 1.6 | 2.0E-04 |
| NM_001144995 | CCDC85C | 6.4 | 10.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_052845 | MMAB | 4.1 | 6.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_016093 | RPL26L1 | 68.5 | 111.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001271608 | LASP1 | 93.0 | 151.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145277 | NECAP2 | 32.6 | 53.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_017572 | MKNK2 | 22.4 | 36.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_015655 | ZNF337 | 5.3 | 8.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001261833 | JRKL | 3.4 | 5.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_003715 | USO1 | 20.4 | 33.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001142725 | ERI2 | 4.9 | 8.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_006915 | RP2 | 7.3 | 11.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001261408 | BCAR3 | 16.1 | 26.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145154 | DNAH14 | 3.5 | 5.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_001167865 | NSMCE4A | 12.2 | 20.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_001455 | FOXO3 | 7.6 | 12.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001282546 | STK40 | 6.3 | 10.4 | 0.7 | 1.6 | 5.0E-05 |
| NM_001105573 | FBXO45 | 5.7 | 9.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001145349 | IPP | 4.2 | 6.9 | 0.7 | 1.6 | 5.0E-05 |
| NR_037883 | LOC100506421 | 4.5 | 7.4 | 0.7 | 1.6 | 2.0E-03 |
| NM_001112734 | ZSCAN30 | 2.0 | 3.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_001159699 | FHL1 | 36.6 | 60.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_001143959 | C2orf74 | 3.6 | 6.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_014048 | MKL2 | 5.4 | 8.8 | 0.7 | 1.6 | 5.0E-05 |
| NM_012448 | STAT5B | 6.2 | 10.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_001242812 | LOC284385 | 1.5 | 2.5 | 0.7 | 1.6 | 3.9E-03 |
| NM_001001974 | PLEKHA1 | 12.5 | 20.5 | 0.7 | 1.6 | 5.0E-05 |
| NM_145166 | ZBTB47 | 3.8 | 6.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_001130414 | APBA2 | 3.1 | 5.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_001037144 | CNTROB | 11.6 | 19.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_012479 | YWHAG | 77.9 | 128.1 | 0.7 | 1.6 | 5.0E-05 |
| NM_001165030 | TMEM41B | 10.5 | 17.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_020156 | C1GALT1 | 11.7 | 19.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_017639 | DCHS2 | 2.0 | 3.3 | 0.7 | 1.6 | 3.5E-04 |
| NM_181786 | HKR1 | 5.4 | 8.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_173475 | DCUN1D3 | 4.1 | 6.7 | 0.7 | 1.6 | 5.0E-05 |
| NM_024713 | KATNBL1 | 9.1 | 15.0 | 0.7 | 1.6 | 5.0E-05 |
| NM_001155 | ANXA6 | 116.8 | 192.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_024028 | PCYOX1L | 10.5 | 17.2 | 0.7 | 1.6 | 5.0E-05 |
| NM_152603 | ZNF567 | 2.0 | 3.3 | 0.7 | 1.6 | 5.0E-05 |
| NM_016371 | HSD17B7 | 4.8 | 7.9 | 0.7 | 1.6 | 5.0E-05 |
| NM_001012398 | AKTIP | 5.6 | 9.3 | 0.7 | 1.6 | 1.5E-04 |
| NR_027451 | LINC00657 | 30.6 | 50.6 | 0.7 | 1.6 | 5.0E-05 |
| NM_005741 | ZNF263 | 6.5 | 10.8 | 0.7 | 1.7 | 5.0E-05 |
| NR_001588 | SBDSP1 | 12.2 | 20.1 | 0.7 | 1.7 | 5.0E-05 |
| NM_153257 | ZNF461 | 1.7 | 2.8 | 0.7 | 1.7 | 5.0E-05 |
| NM_001156 | ANXA7 | 30.2 | 49.9 | 0.7 | 1.7 | 5.0E-05 |
| NM_001031701 | NT5DC3 | 2.4 | 3.9 | 0.7 | 1.7 | 5.0E-05 |
| NM_001012754 | NHLRC3 | 6.4 | 10.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_017769 | G2E3 | 8.4 | 13.9 | 0.7 | 1.7 | 5.0E-05 |

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|--------------|--------------|--------|--------|-----|-----|---------|
| NM_001134364 | MAP4 | 71.6 | 118.4 | 0.7 | 1.7 | 5.0E-05 |
| NM_000201 | ICAM1 | 18.7 | 31.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_199227 | METAP1D | 1.8 | 3.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_001100389 | TMEM192 | 4.8 | 8.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_001243571 | MTMR2 | 14.2 | 23.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_153358 | ZNF791 | 2.9 | 4.8 | 0.7 | 1.7 | 5.0E-05 |
| NM_001042552 | TATDN3 | 3.9 | 6.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_173683 | XKR6 | 1.5 | 2.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_031910 | C1QTNF6 | 6.3 | 10.4 | 0.7 | 1.7 | 5.0E-05 |
| NM_021137 | TNFAIP1 | 34.8 | 57.8 | 0.7 | 1.7 | 5.0E-05 |
| NM_001131035 | ZCCHC9 | 15.2 | 25.2 | 0.7 | 1.7 | 5.0E-05 |
| NM_014168 | METTL5 | 31.1 | 51.6 | 0.7 | 1.7 | 6.0E-04 |
| NM_001143823 | ZBTB14 | 3.8 | 6.3 | 0.7 | 1.7 | 5.0E-05 |
| NR_026827 | LINC00839 | 3.8 | 6.4 | 0.7 | 1.7 | 5.0E-05 |
| NM_015525 | IBTK | 9.9 | 16.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_005953 | MT2A | 2204.6 | 3667.3 | 0.7 | 1.7 | 5.0E-05 |
| NM_001025300 | RAB12 | 13.9 | 23.1 | 0.7 | 1.7 | 5.0E-05 |
| NM_001251904 | APPL2 | 11.2 | 18.6 | 0.7 | 1.7 | 5.0E-05 |
| NM_016433 | GLTP | 12.4 | 20.6 | 0.7 | 1.7 | 5.0E-05 |
| NM_001010854 | TTC7B | 5.8 | 9.6 | 0.7 | 1.7 | 5.0E-05 |
| NM_001010883 | FAM102B | 3.6 | 6.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_001113226 | NTNG1 | 2.5 | 4.1 | 0.7 | 1.7 | 5.0E-05 |
| NM_001114734 | PABPC4L | 1.8 | 3.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_014425 | INVS | 2.8 | 4.7 | 0.7 | 1.7 | 5.0E-05 |
| NM_001190972 | LOC100127983 | 9.4 | 15.6 | 0.7 | 1.7 | 5.0E-05 |
| NM_001033057 | MAG1 | 3.0 | 5.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_001082480 | ZNF623 | 5.0 | 8.4 | 0.7 | 1.7 | 5.0E-05 |
| NM_001173523 | PCDH7 | 2.6 | 4.3 | 0.7 | 1.7 | 5.0E-05 |
| NM_003649 | DDO | 1.6 | 2.6 | 0.7 | 1.7 | 5.0E-05 |
| NM_001195200 | CCDC107 | 9.4 | 15.8 | 0.7 | 1.7 | 5.0E-05 |
| NM_001195822 | HSDL2 | 7.6 | 12.8 | 0.7 | 1.7 | 5.0E-05 |
| NM_001127394 | TSEN15 | 16.4 | 27.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_181719 | TMCO4 | 4.2 | 7.1 | 0.7 | 1.7 | 5.0E-05 |
| NM_152342 | CDYL2 | 1.7 | 2.9 | 0.7 | 1.7 | 5.0E-05 |
| NM_001164317 | FLNB | 84.5 | 141.6 | 0.7 | 1.7 | 5.0E-05 |
| NM_001142645 | TMEM194B | 3.9 | 6.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_181716 | CENPV | 6.6 | 11.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_001130071 | EPN1 | 26.2 | 44.0 | 0.7 | 1.7 | 5.0E-05 |
| NM_001102592 | HENMT1 | 1.6 | 2.7 | 0.7 | 1.7 | 5.0E-05 |
| NM_015626 | WSB1 | 29.9 | 50.2 | 0.7 | 1.7 | 5.0E-05 |
| NM_001184734 | ASTN2 | 2.0 | 3.3 | 0.7 | 1.7 | 5.8E-03 |
| NM_001284338 | NEDD4 | 14.4 | 24.3 | 0.7 | 1.7 | 5.0E-05 |
| NM_194285 | SPTY2D1 | 5.4 | 9.1 | 0.7 | 1.7 | 5.0E-05 |
| NM_001256171 | ZNF85 | 3.9 | 6.5 | 0.7 | 1.7 | 5.0E-05 |
| NM_173566 | PRR14L | 4.6 | 7.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_198468 | MMS22L | 4.0 | 6.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_003766 | BECN1 | 19.1 | 32.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_024641 | MANEA | 4.7 | 7.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_012173 | FBXO25 | 3.4 | 5.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_024734 | CLMN | 4.7 | 7.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001270766 | NTAN1 | 32.9 | 55.4 | 0.8 | 1.7 | 3.0E-04 |
| NM_130847 | AMOTL1 | 5.1 | 8.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_003840 | TNFRSF10D | 16.0 | 27.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001142556 | HMMR | 30.2 | 50.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001127183 | CFLAR | 18.5 | 31.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_001007189 | IGIP | 8.9 | 15.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001171506 | MCFD2 | 44.9 | 75.8 | 0.8 | 1.7 | 5.0E-05 |
| NR_038904 | LOC100506305 | 5.4 | 9.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001204492 | CAMK2G | 9.5 | 16.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001093771 | TXNRD1 | 65.9 | 111.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_001012455 | ZSCAN23 | 2.0 | 3.4 | 0.8 | 1.7 | 5.0E-05 |

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|--------------|-----------|-------|-------|-----|-----|---------|
| NM_001003897 | MANBAL | 34.1 | 57.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_144682 | SLFN13 | 3.0 | 5.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_007018 | CNTRL | 2.3 | 3.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_016173 | HEMK1 | 2.0 | 3.5 | 0.8 | 1.7 | 5.0E-05 |
| NM_001193508 | REST | 11.1 | 18.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_052899 | GPRIN1 | 9.0 | 15.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_207380 | C15orf52 | 4.4 | 7.5 | 0.8 | 1.7 | 5.0E-05 |
| NM_001008493 | ENAH | 21.0 | 35.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_032933 | TMEM241 | 3.2 | 5.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_001113347 | ECE1 | 30.6 | 52.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001512 | GSTA4 | 3.9 | 6.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_001127207 | SMARCAL1 | 6.6 | 11.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_152485 | C1orf74 | 2.8 | 4.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_005112 | WDR1 | 186.6 | 317.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001099289 | SH3RF3 | 3.1 | 5.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_001018057 | DKK3 | 72.3 | 122.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_004157 | PRKAR2A | 12.5 | 21.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_001039886 | ZNF808 | 4.3 | 7.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_001282168 | VPS36 | 10.7 | 18.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001002000 | GMPR2 | 15.3 | 26.1 | 0.8 | 1.7 | 6.4E-03 |
| NM_001100619 | CABLES1 | 4.9 | 8.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_001278055 | SACS | 13.6 | 23.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_002006 | FGF2 | 13.7 | 23.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_001005417 | B4GALT2 | 24.4 | 41.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_152653 | UBE2E2 | 7.6 | 12.9 | 0.8 | 1.7 | 5.0E-05 |
| NR_037480 | MIR3916 | 9.0 | 15.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_001146068 | CAPN2 | 98.8 | 168.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_144976 | ZNF564 | 1.8 | 3.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_002705 | PPL | 1.9 | 3.2 | 0.8 | 1.7 | 9.4E-03 |
| NM_001135037 | MFAP3 | 18.0 | 30.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_020755 | SERINC1 | 61.4 | 105.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_002211 | ITGB1 | 467.4 | 799.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_144721 | THAP6 | 3.5 | 5.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001146337 | AFAP1L1 | 16.8 | 28.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_005013 | NUCB2 | 19.5 | 33.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_001032372 | ZNF226 | 5.9 | 10.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001080416 | MYBL1 | 9.0 | 15.5 | 0.8 | 1.7 | 5.0E-05 |
| NM_001252148 | SLC39A9 | 14.0 | 24.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_153369 | KIAA1919 | 3.2 | 5.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_024562 | TANGO6 | 4.1 | 7.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001080411 | ZNF433 | 1.9 | 3.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_000050 | ASS1 | 28.6 | 49.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001135178 | ZNF397 | 2.2 | 3.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_004716 | PCSK7 | 24.2 | 41.5 | 0.8 | 1.7 | 2.8E-02 |
| NM_001258388 | FAM173B | 3.6 | 6.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_012081 | ELL2 | 24.4 | 42.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_016618 | KRCC1 | 7.1 | 12.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_001104925 | PCMTD2 | 3.9 | 6.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_001201329 | PPP1R3B | 9.8 | 16.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_005804 | DDX39A | 71.2 | 122.5 | 0.8 | 1.7 | 5.0E-05 |
| NM_001085471 | FOXN3 | 8.1 | 14.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_012405 | ICMT | 26.0 | 44.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001013625 | C1orf192 | 1.5 | 2.6 | 0.8 | 1.7 | 1.5E-02 |
| NM_002053 | GBP1 | 21.3 | 36.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_016028 | SUV420H1 | 12.6 | 21.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_001135820 | TMEM2 | 32.9 | 56.8 | 0.8 | 1.7 | 5.0E-05 |
| NR_029495 | LOC284454 | 3.5 | 6.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_002214 | ITGB8 | 3.3 | 5.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_001031628 | SMAGP | 9.4 | 16.3 | 0.8 | 1.7 | 1.6E-02 |
| NM_152308 | RMI2 | 10.8 | 18.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_001040020 | FAM3C | 22.6 | 39.2 | 0.8 | 1.7 | 5.0E-05 |

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|--------------|-----------|-------|-------|-----|-----|---------|
| NM_001102 | ACTN1 | 275.4 | 477.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001286233 | SLC2A14 | 8.2 | 14.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_001039492 | FHL2 | 79.0 | 136.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_145911 | ZNF23 | 2.9 | 5.0 | 0.8 | 1.7 | 5.0E-05 |
| NR_103711 | PAPPA-AS1 | 4.2 | 7.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_015319 | TENC1 | 5.7 | 9.8 | 0.8 | 1.7 | 5.0E-05 |
| NM_001136494 | C1orf198 | 7.8 | 13.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_001012270 | BIRC5 | 45.0 | 78.2 | 0.8 | 1.7 | 5.0E-05 |
| NM_001080976 | DSE | 20.4 | 35.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_030915 | LBH | 41.6 | 72.3 | 0.8 | 1.7 | 5.0E-05 |
| NM_001024847 | TGFBR2 | 47.2 | 81.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001008539 | SLC7A2 | 10.0 | 17.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_014629 | ARHGEF10 | 10.2 | 17.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_017945 | SLC35A5 | 11.0 | 19.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_001099225 | CCDC43 | 13.7 | 23.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_030821 | PLA2G12A | 2.9 | 5.1 | 0.8 | 1.7 | 5.0E-05 |
| NM_005955 | MTF1 | 3.4 | 5.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001128223 | ZNF717 | 1.5 | 2.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_014974 | DIP2C | 4.3 | 7.4 | 0.8 | 1.7 | 5.0E-05 |
| NM_001083963 | TDRKH | 4.0 | 6.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001254738 | RND3 | 29.8 | 52.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001281293 | ZNF281 | 8.0 | 14.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_005321 | HIST1H1E | 2.4 | 4.2 | 0.8 | 1.7 | 3.0E-03 |
| NM_002254 | KIF3C | 4.0 | 7.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_005246 | FER | 6.1 | 10.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_030961 | TRIM56 | 6.8 | 11.9 | 0.8 | 1.7 | 5.0E-05 |
| NM_001286702 | ARMC1 | 14.9 | 26.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001114120 | DEPDC1 | 18.0 | 31.5 | 0.8 | 1.7 | 5.0E-05 |
| NM_001249 | ENTPD5 | 2.8 | 4.8 | 0.8 | 1.7 | 4.2E-03 |
| NM_002907 | RECQL | 13.0 | 22.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_001008410 | STEAP3 | 6.9 | 12.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001029859 | KCTD21 | 2.9 | 5.0 | 0.8 | 1.7 | 5.0E-05 |
| NM_001033553 | SPECC1 | 17.5 | 30.6 | 0.8 | 1.7 | 5.0E-05 |
| NM_007271 | STK38 | 21.0 | 36.7 | 0.8 | 1.7 | 5.0E-05 |
| NM_052876 | NACC1 | 20.3 | 35.5 | 0.8 | 1.7 | 5.0E-05 |
| NM_022475 | HHIP | 1.9 | 3.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001025247 | TAF5L | 9.5 | 16.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_014241 | PTPLA | 19.4 | 33.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_138330 | ZNF675 | 3.0 | 5.2 | 0.8 | 1.8 | 5.0E-05 |
| NM_207330 | NIPAL1 | 1.6 | 2.8 | 0.8 | 1.8 | 5.0E-05 |
| NM_001287491 | TET3 | 3.5 | 6.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001271848 | ZNF700 | 5.8 | 10.2 | 0.8 | 1.8 | 5.0E-05 |
| NM_000713 | BLVRB | 24.9 | 43.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_001400 | S1PR1 | 3.6 | 6.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_173666 | DTWD2 | 2.0 | 3.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_022483 | C5orf28 | 3.5 | 6.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_206966 | C5orf46 | 7.2 | 12.7 | 0.8 | 1.8 | 4.0E-03 |
| NM_002998 | SDC2 | 35.6 | 62.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_001080510 | METTL23 | 14.6 | 25.8 | 0.8 | 1.8 | 5.0E-05 |
| NM_001101669 | INPP4B | 5.7 | 10.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_002581 | PAPPA | 3.5 | 6.2 | 0.8 | 1.8 | 5.0E-05 |
| NM_001380 | DOCK1 | 12.3 | 21.6 | 0.8 | 1.8 | 5.0E-05 |
| NM_020651 | PELI1 | 4.5 | 8.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_001122679 | TENM2 | 3.0 | 5.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_001172671 | ZNF430 | 1.9 | 3.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001164478 | C5orf63 | 2.5 | 4.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001285387 | THOC7 | 36.2 | 64.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_017845 | COMMD8 | 12.4 | 22.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_022121 | PERP | 3.0 | 5.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_005067 | SIAH2 | 8.6 | 15.2 | 0.8 | 1.8 | 5.0E-05 |
| NR_026761 | LINC00467 | 7.0 | 12.4 | 0.8 | 1.8 | 5.0E-05 |

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|--------------|-------------|-------|-------|-----|-----|---------|
| NM_018218 | USP40 | 8.3 | 14.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_001190992 | SLC33A1 | 5.2 | 9.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_001112808 | FPGT-TNNI3K | 1.7 | 3.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001011513 | PDLIM5 | 35.5 | 70.8 | 0.8 | 1.8 | 5.0E-05 |
| NM_007082 | RABL2A | 1.5 | 2.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_001286247 | RALGPS2 | 5.4 | 9.5 | 0.8 | 1.8 | 5.0E-05 |
| NR_027183 | LINC00847 | 1.7 | 3.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_022746 | MARC1 | 8.9 | 15.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_001144060 | NHSL1 | 1.5 | 2.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_001243766 | POMGNT1 | 14.0 | 24.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_014519 | ZNF232 | 4.6 | 8.2 | 0.8 | 1.8 | 2.7E-02 |
| NM_017421 | COQ3 | 7.3 | 12.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_001031672 | CYB5RL | 1.6 | 2.8 | 0.8 | 1.8 | 5.0E-05 |
| NM_153267 | MAMDC2 | 5.1 | 9.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001177381 | CPEB2 | 1.9 | 3.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_018664 | BATF3 | 3.0 | 5.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001497 | B4GALT1 | 34.2 | 61.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_000754 | COMT | 23.5 | 41.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_002841 | PTPRG | 7.2 | 12.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_175617 | MT1E | 537.3 | 957.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_003045 | SLC7A1 | 29.2 | 52.2 | 0.8 | 1.8 | 5.0E-05 |
| NM_001177591 | PPP2R2A | 12.4 | 22.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_058182 | SMIM11 | 8.7 | 15.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001130 | AES | 59.7 | 106.6 | 0.8 | 1.8 | 5.0E-05 |
| NM_006052 | DSCR3 | 9.2 | 16.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_003150 | STAT3 | 24.1 | 43.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001080493 | ZNF823 | 2.8 | 5.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_007130 | ZNF41 | 1.6 | 2.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_014153 | ZC3H7A | 13.0 | 23.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_020371 | AVEN | 13.7 | 24.5 | 0.8 | 1.8 | 5.0E-05 |
| NM_014594 | ZNF354C | 2.3 | 4.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_002852 | PTX3 | 5.2 | 9.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001284388 | NOLC1 | 24.3 | 43.5 | 0.8 | 1.8 | 5.0E-05 |
| NM_001256282 | KRT8 | 538.3 | 964.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001003679 | LEPR | 27.0 | 48.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001004065 | AKAP2 | 46.8 | 83.8 | 0.8 | 1.8 | 5.0E-05 |
| NM_153705 | KDELC2 | 16.8 | 30.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_001287385 | FAM72C | 1.7 | 3.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001206748 | CAV2 | 20.4 | 36.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_000059 | BRCA2 | 3.2 | 5.7 | 0.8 | 1.8 | 5.0E-05 |
| NM_015653 | RIBC2 | 1.9 | 3.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_001042576 | RRBP1 | 52.6 | 94.5 | 0.8 | 1.8 | 5.0E-05 |
| NM_001286974 | CTNNA1 | 28.4 | 51.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_002204 | ITGA3 | 66.3 | 119.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001113239 | HIPK2 | 13.6 | 24.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_003754 | EIF3F | 99.3 | 178.4 | 0.8 | 1.8 | 5.0E-05 |
| NM_080821 | FAM210B | 5.5 | 9.9 | 0.8 | 1.8 | 5.0E-05 |
| NM_006956 | ZNF12 | 3.8 | 6.8 | 0.8 | 1.8 | 5.0E-05 |
| NM_001102402 | PCTP | 6.7 | 12.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_001011666 | CREB5 | 2.5 | 4.5 | 0.8 | 1.8 | 5.0E-05 |
| NR_030732 | LOC645638 | 3.5 | 6.3 | 0.8 | 1.8 | 5.0E-05 |
| NM_020947 | TLDC1 | 6.1 | 11.1 | 0.8 | 1.8 | 5.0E-05 |
| NM_003082 | SNAPC1 | 12.2 | 22.0 | 0.8 | 1.8 | 5.0E-05 |
| NM_007238 | PXMP4 | 2.5 | 4.6 | 0.8 | 1.8 | 5.0E-05 |
| NM_031218 | ZNF93 | 4.5 | 8.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_194449 | PHLPP1 | 4.3 | 7.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_022460 | HS1BP3 | 8.1 | 14.6 | 0.9 | 1.8 | 5.0E-05 |
| NM_021076 | NEFH | 1.7 | 3.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_001135703 | LRP12 | 12.6 | 22.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_032353 | VPS25 | 44.1 | 79.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_001129993 | KIAA1841 | 4.8 | 8.6 | 0.9 | 1.8 | 5.0E-05 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NM_015225 | PRUNE2 | 10.9 | 19.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_000140 | FECH | 3.6 | 6.6 | 0.9 | 1.8 | 5.0E-05 |
| NM_153028 | ZNF75A | 7.1 | 12.9 | 0.9 | 1.8 | 5.0E-05 |
| NM_001271866 | GTF2H3 | 9.3 | 16.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_014519 | ZNF232 | 3.0 | 5.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_000210 | ITGA6 | 2.9 | 5.3 | 0.9 | 1.8 | 5.0E-05 |
| NM_001080477 | TENM3 | 8.2 | 14.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_001006617 | MAPKAP1 | 30.3 | 55.0 | 0.9 | 1.8 | 5.0E-05 |
| NM_152446 | CEP128 | 2.2 | 4.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_001031693 | HHLA3 | 4.0 | 7.2 | 0.9 | 1.8 | 5.4E-03 |
| NM_001172638 | ZFP62 | 5.2 | 9.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_005556 | KRT7 | 218.9 | 397.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_001020818 | MYADM | 40.0 | 72.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_016429 | COPZ2 | 8.7 | 15.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_001029839 | TCAIM | 4.7 | 8.5 | 0.9 | 1.8 | 5.0E-05 |
| NM_004162 | RAB5A | 15.2 | 27.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_003299 | HSP90B1 | 357.8 | 651.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_001100910 | FAM72B | 2.3 | 4.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_001164674 | SUMF1 | 11.7 | 21.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_001005498 | RHBDF2 | 5.2 | 9.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_001286116 | CCDC90B | 6.4 | 11.6 | 0.9 | 1.8 | 5.0E-05 |
| NR_034121 | LOC100131067 | 2.1 | 3.8 | 0.9 | 1.8 | 4.5E-04 |
| NM_014214 | IMPA2 | 13.4 | 24.5 | 0.9 | 1.8 | 5.0E-05 |
| NM_014480 | ZNF544 | 4.1 | 7.5 | 0.9 | 1.8 | 5.0E-05 |
| NM_001007088 | ZNF182 | 1.8 | 3.3 | 0.9 | 1.8 | 5.0E-05 |
| NM_001195139 | COG4 | 15.6 | 28.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_001039885 | FKRP | 5.1 | 9.2 | 0.9 | 1.8 | 4.0E-04 |
| NR_038360 | SPTY2D1-AS1 | 2.8 | 5.0 | 0.9 | 1.8 | 5.9E-03 |
| NM_022039 | FBXW4 | 6.5 | 11.9 | 0.9 | 1.8 | 5.0E-05 |
| NM_001135032 | EVA1A | 12.4 | 22.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_001136570 | FAM47E | 5.4 | 10.0 | 0.9 | 1.8 | 5.0E-05 |
| NM_021216 | ZNF71 | 3.1 | 5.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_001244638 | ARID5B | 2.7 | 5.0 | 0.9 | 1.8 | 5.0E-05 |
| NM_001001396 | ATP2B4 | 11.2 | 20.6 | 0.9 | 1.8 | 5.0E-05 |
| NM_006609 | MAP3K2 | 4.0 | 7.3 | 0.9 | 1.8 | 5.0E-05 |
| NM_003174 | SVIL | 4.6 | 8.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_003507 | FZD7 | 9.4 | 17.3 | 0.9 | 1.8 | 5.0E-05 |
| NM_004747 | DLG5 | 12.9 | 23.6 | 0.9 | 1.8 | 5.0E-05 |
| NM_022090 | C5orf54 | 1.6 | 2.9 | 0.9 | 1.8 | 5.0E-05 |
| NR_027007 | SETD5-AS1 | 6.6 | 12.1 | 0.9 | 1.8 | 5.5E-04 |
| NM_001289861 | PER3 | 2.1 | 3.9 | 0.9 | 1.8 | 5.0E-05 |
| NM_001145365 | ZNF652 | 2.8 | 5.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_153681 | PIGP | 7.1 | 13.0 | 0.9 | 1.8 | 5.0E-05 |
| NM_006315 | PCGF3 | 10.6 | 19.6 | 0.9 | 1.8 | 5.0E-05 |
| NM_138459 | NUS1 | 20.9 | 38.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_001039141 | TRIOBP | 21.1 | 38.9 | 0.9 | 1.8 | 5.0E-05 |
| NM_001289097 | AJUBA | 24.0 | 44.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_001270942 | KLF7 | 5.8 | 10.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_001135554 | EPB41L2 | 30.6 | 56.3 | 0.9 | 1.8 | 5.0E-05 |
| NM_030572 | C12orf39 | 2.8 | 5.1 | 0.9 | 1.8 | 4.0E-04 |
| NM_173582 | PGM2L1 | 3.0 | 5.6 | 0.9 | 1.8 | 5.0E-05 |
| NM_001001890 | RUNX1 | 12.4 | 22.9 | 0.9 | 1.8 | 5.0E-05 |
| NM_001288579 | BROX | 12.7 | 23.5 | 0.9 | 1.8 | 5.0E-05 |
| NM_052906 | ELFN2 | 3.1 | 5.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_032834 | ALG10 | 3.5 | 6.4 | 0.9 | 1.8 | 5.0E-05 |
| NM_001164276 | ZNF44 | 3.9 | 7.3 | 0.9 | 1.8 | 5.0E-05 |
| NM_173531 | ZNF100 | 2.0 | 3.8 | 0.9 | 1.8 | 5.0E-05 |
| NM_001945 | HBEGF | 9.0 | 16.6 | 0.9 | 1.8 | 5.0E-05 |
| NR_003051 | RMRP | 19.9 | 36.7 | 0.9 | 1.8 | 5.0E-05 |
| NM_014779 | TSC22D2 | 9.2 | 17.1 | 0.9 | 1.8 | 5.0E-05 |
| NM_198476 | C19orf54 | 5.1 | 9.5 | 0.9 | 1.8 | 5.0E-05 |

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|--------------|------------|-------|-------|-----|-----|---------|
| NM_001278196 | ZBTB18 | 8.2 | 15.2 | 0.9 | 1.8 | 5.0E-05 |
| NM_001025580 | AMMECR1 | 5.5 | 10.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_001014794 | ILK | 49.0 | 90.8 | 0.9 | 1.9 | 5.0E-05 |
| NM_005764 | PDZK1IP1 | 12.4 | 22.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_016312 | WBP11 | 26.6 | 49.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_001012320 | ZNF302 | 5.9 | 10.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_001145775 | FKBP5 | 71.4 | 132.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_002097 | GTF3A | 28.4 | 52.7 | 0.9 | 1.9 | 5.0E-05 |
| NM_153260 | LRRC57 | 7.6 | 14.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_021111 | RECK | 10.4 | 19.3 | 0.9 | 1.9 | 5.0E-05 |
| NM_017947 | MOCOS | 3.8 | 7.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_001164715 | ZNF605 | 1.7 | 3.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_021915 | ZNF69 | 3.5 | 6.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_001100164 | PHACTR2 | 3.4 | 6.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_014220 | TM4SF1 | 23.2 | 43.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_001281463 | SMC1A | 15.3 | 28.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_001080392 | KIAA1147 | 3.8 | 7.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_001287385 | FAM72C | 3.0 | 5.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_005100 | AKAP12 | 20.9 | 39.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_001080417 | ZNF629 | 4.7 | 8.7 | 0.9 | 1.9 | 1.3E-03 |
| NM_001278734 | ZNF274 | 6.2 | 11.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_005793 | NME6 | 10.2 | 19.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_024685 | BBS10 | 2.2 | 4.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_014077 | FAM32A | 27.1 | 50.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_001012756 | ZNF260 | 3.5 | 6.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_001007094 | ZNF37A | 3.6 | 6.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_001079670 | CAB39L | 1.5 | 2.7 | 0.9 | 1.9 | 5.0E-05 |
| NM_002473 | MYH9 | 239.0 | 447.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_001286045 | RBM7 | 7.2 | 13.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_033224 | PURB | 8.4 | 15.8 | 0.9 | 1.9 | 5.0E-05 |
| NR_038378 | LOC441242 | 1.6 | 2.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_173632 | ZNF776 | 2.5 | 4.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_153687 | IKBIP | 35.7 | 66.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_021127 | PMAIP1 | 12.9 | 24.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_018948 | ERRF1 | 22.4 | 42.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_005909 | MAP1B | 14.2 | 26.7 | 0.9 | 1.9 | 5.0E-05 |
| NM_014569 | ZKSCAN5 | 3.8 | 7.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_002395 | ME1 | 5.1 | 9.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_144600 | FOPNL | 10.8 | 20.3 | 0.9 | 1.9 | 5.0E-05 |
| NM_001042454 | TGFB111 | 48.4 | 91.3 | 0.9 | 1.9 | 5.0E-05 |
| NM_001166159 | NDUFS2 | 22.5 | 42.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_004705 | PRKRIR | 15.9 | 30.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_001172411 | VANGL1 | 7.4 | 14.1 | 0.9 | 1.9 | 5.0E-05 |
| NR_024397 | NUTM2A-AS1 | 6.7 | 12.7 | 0.9 | 1.9 | 5.0E-05 |
| NM_000191 | HMGCL | 11.8 | 22.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_001242946 | EPDR1 | 9.4 | 17.8 | 0.9 | 1.9 | 5.0E-05 |
| NM_001161576 | SAMD4A | 8.1 | 15.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_133460 | ZNF418 | 2.2 | 4.1 | 0.9 | 1.9 | 5.0E-05 |
| NR_040585 | STAG3L4 | 4.2 | 7.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_001669 | ARSD | 3.1 | 6.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_001286398 | RNF217 | 3.0 | 5.7 | 0.9 | 1.9 | 5.0E-05 |
| NM_007149 | ZNF184 | 1.7 | 3.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_014925 | R3HDM2 | 4.4 | 8.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_016500 | PBDC1 | 15.4 | 29.3 | 0.9 | 1.9 | 5.0E-05 |
| NM_001171993 | HPD | 6.6 | 12.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_133473 | ZNF431 | 5.8 | 10.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_001141972 | DPH6 | 4.2 | 7.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_001080791 | C15orf57 | 5.7 | 10.9 | 0.9 | 1.9 | 5.0E-05 |
| NR_034085 | LOC648987 | 4.3 | 8.2 | 0.9 | 1.9 | 9.0E-04 |
| NM_002228 | JUN | 29.2 | 55.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_005649 | ZNF354A | 5.1 | 9.7 | 0.9 | 1.9 | 5.0E-05 |

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| NM_001127244 | LRRC8A | 18.6 | 35.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_012232 | PTRF | 177.0 | 338.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_133474 | ZNF721 | 5.3 | 10.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_001013672 | C17orf97 | 1.6 | 3.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_020243 | TOMM22 | 28.7 | 54.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_031923 | TAF3 | 3.3 | 6.3 | 0.9 | 1.9 | 5.0E-05 |
| NM_001098831 | MORN4 | 1.9 | 3.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_001130042 | CRYZ | 29.6 | 56.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_006955 | ZNF33B | 3.2 | 6.1 | 0.9 | 1.9 | 4.5E-04 |
| NM_001030287 | ATF3 | 2.9 | 5.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_001164232 | DDHD2 | 8.4 | 16.1 | 0.9 | 1.9 | 5.0E-05 |
| NM_001287349 | ZNF852 | 2.1 | 4.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_001242797 | ZNF322 | 4.3 | 8.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_032788 | ZNF514 | 2.6 | 4.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_001190791 | ZNF317 | 6.2 | 12.0 | 0.9 | 1.9 | 5.0E-05 |
| NR_002211 | MEIS3P1 | 4.5 | 8.6 | 0.9 | 1.9 | 5.0E-05 |
| NM_001270436 | CDC42EP3 | 8.9 | 17.0 | 0.9 | 1.9 | 5.0E-05 |
| NM_003526 | HIST1H2BC | 1.6 | 3.0 | 0.9 | 1.9 | 8.1E-03 |
| NM_001145204 | SHISA9 | 13.0 | 25.0 | 0.9 | 1.9 | 5.0E-05 |
| NR_034006 | LOC100132352 | 2.8 | 5.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_001257158 | CEP41 | 2.2 | 4.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_001143820 | ETS1 | 25.1 | 48.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_000027 | AGA | 3.9 | 7.5 | 0.9 | 1.9 | 5.0E-05 |
| NM_000692 | ALDH1B1 | 44.3 | 85.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_002335 | LRP5 | 15.8 | 30.4 | 0.9 | 1.9 | 5.0E-05 |
| NM_014572 | LATS2 | 18.1 | 34.9 | 0.9 | 1.9 | 5.0E-05 |
| NM_001142401 | CD164 | 82.5 | 159.2 | 0.9 | 1.9 | 5.0E-05 |
| NM_001128833 | ZBTB4 | 10.8 | 20.8 | 0.9 | 1.9 | 5.0E-05 |
| NM_001037277 | GGPS1 | 6.0 | 11.6 | 1.0 | 1.9 | 5.0E-05 |
| NM_001166243 | FHIT | 2.0 | 3.9 | 1.0 | 1.9 | 8.0E-03 |
| NM_001135999 | RUSC2 | 8.6 | 16.7 | 1.0 | 1.9 | 5.0E-05 |
| NM_015130 | TBC1D9 | 5.2 | 10.0 | 1.0 | 1.9 | 5.0E-05 |
| NM_001145008 | BTN3A1 | 4.0 | 7.8 | 1.0 | 1.9 | 1.5E-04 |
| NM_133459 | CCBE1 | 6.6 | 12.7 | 1.0 | 1.9 | 5.0E-05 |
| NM_022081 | HPS4 | 4.1 | 7.9 | 1.0 | 1.9 | 5.0E-05 |
| NM_001136265 | IFFO2 | 5.4 | 10.4 | 1.0 | 1.9 | 5.0E-05 |
| NM_001256550 | MPP5 | 10.2 | 19.9 | 1.0 | 1.9 | 5.0E-05 |
| NM_033208 | TIGD7 | 1.6 | 3.1 | 1.0 | 1.9 | 5.0E-05 |
| NM_138794 | LYPLAL1 | 4.1 | 8.0 | 1.0 | 1.9 | 5.0E-05 |
| NM_004090 | DUSP3 | 18.3 | 35.7 | 1.0 | 1.9 | 5.0E-05 |
| NM_006690 | MMP24 | 6.5 | 12.7 | 1.0 | 1.9 | 5.0E-05 |
| NM_015332 | NUDCD3 | 8.3 | 16.1 | 1.0 | 1.9 | 5.0E-05 |
| NR_038291 | LINC00707 | 10.3 | 20.1 | 1.0 | 1.9 | 5.0E-05 |
| NM_001198972 | KIAA1522 | 12.5 | 24.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_001244710 | GFPT1 | 16.2 | 31.6 | 1.0 | 2.0 | 5.0E-05 |
| NM_005498 | AP1M2 | 4.9 | 9.6 | 1.0 | 2.0 | 5.0E-05 |
| NM_001080479 | ARHGEF28 | 6.2 | 12.1 | 1.0 | 2.0 | 5.0E-05 |
| NM_002583 | PAWR | 33.4 | 65.3 | 1.0 | 2.0 | 5.0E-05 |
| NM_006948 | HSPA13 | 20.0 | 39.1 | 1.0 | 2.0 | 5.0E-05 |
| NM_014188 | SSU72 | 38.9 | 76.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001277403 | ZNF730 | 2.0 | 4.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_002834 | PTPN11 | 26.2 | 51.4 | 1.0 | 2.0 | 5.0E-05 |
| NM_024613 | PLEKHF2 | 5.1 | 9.9 | 1.0 | 2.0 | 5.0E-05 |
| NM_001164766 | ZFH3 | 5.8 | 11.5 | 1.0 | 2.0 | 5.0E-05 |
| NR_103768 | LOC158960 | 1.7 | 3.3 | 1.0 | 2.0 | 5.0E-05 |
| NM_144638 | TMEM42 | 8.0 | 15.7 | 1.0 | 2.0 | 5.0E-05 |
| NM_001130706 | C14orf93 | 2.0 | 3.9 | 1.0 | 2.0 | 5.0E-05 |
| NM_001099638 | ZNF146 | 14.6 | 28.6 | 1.0 | 2.0 | 5.0E-05 |
| NM_152640 | DCP1B | 2.8 | 5.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_006544 | EXOC5 | 7.6 | 15.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_006506 | RASA2 | 3.7 | 7.2 | 1.0 | 2.0 | 5.0E-05 |

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|--------------|------------|-------|-------|-----|-----|---------|
| NM_000092 | COL4A4 | 2.6 | 5.1 | 1.0 | 2.0 | 5.0E-05 |
| NM_144684 | ZNF480 | 2.2 | 4.4 | 1.0 | 2.0 | 5.0E-05 |
| NM_000224 | KRT18 | 165.5 | 325.9 | 1.0 | 2.0 | 5.0E-05 |
| NM_001014764 | EMC6 | 20.7 | 40.8 | 1.0 | 2.0 | 8.0E-04 |
| NM_001032281 | TFPI | 13.9 | 27.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_001195053 | DDIT3 | 6.9 | 13.6 | 1.0 | 2.0 | 8.7E-03 |
| NM_001195811 | PLD5 | 8.9 | 17.5 | 1.0 | 2.0 | 5.0E-05 |
| NR_000029 | RPL23AP7 | 6.5 | 12.8 | 1.0 | 2.0 | 5.0E-05 |
| NM_000093 | COL5A1 | 36.5 | 72.1 | 1.0 | 2.0 | 5.0E-05 |
| NM_001199741 | GADD45A | 35.5 | 70.2 | 1.0 | 2.0 | 5.0E-05 |
| NM_001282225 | CECR1 | 3.3 | 6.6 | 1.0 | 2.0 | 5.0E-05 |
| NM_003805 | CRADD | 2.2 | 4.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_005797 | MPZL2 | 5.3 | 10.4 | 1.0 | 2.0 | 5.0E-05 |
| NM_001242559 | MAP4K4 | 22.1 | 44.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001081492 | KRT80 | 8.5 | 16.9 | 1.0 | 2.0 | 5.0E-05 |
| NM_001166108 | PALLD | 82.4 | 163.8 | 1.0 | 2.0 | 5.0E-05 |
| NM_001006945 | LRIF1 | 5.2 | 10.4 | 1.0 | 2.0 | 5.0E-05 |
| NM_002444 | MSN | 129.4 | 257.3 | 1.0 | 2.0 | 5.0E-05 |
| NM_002608 | PDGFB | 4.6 | 9.2 | 1.0 | 2.0 | 5.0E-05 |
| NM_003818 | CDS2 | 5.5 | 11.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001003794 | MGLL | 9.1 | 18.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001005502 | CPM | 21.8 | 43.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_000410 | HFE | 3.4 | 6.8 | 1.0 | 2.0 | 5.0E-05 |
| NM_001284498 | SLC43A2 | 8.5 | 17.1 | 1.0 | 2.0 | 5.0E-05 |
| NM_080652 | TMEM41A | 6.5 | 13.1 | 1.0 | 2.0 | 5.0E-05 |
| NR_023921 | DHRS4-AS1 | 2.1 | 4.2 | 1.0 | 2.0 | 5.0E-05 |
| NM_015641 | TES | 18.1 | 36.2 | 1.0 | 2.0 | 5.0E-05 |
| NM_001258320 | TP53I11 | 9.6 | 19.3 | 1.0 | 2.0 | 5.0E-05 |
| NM_024513 | FYCO1 | 3.5 | 7.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001286514 | ATF7IP | 6.3 | 12.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_001038603 | MARVELD2 | 1.7 | 3.4 | 1.0 | 2.0 | 5.0E-05 |
| NM_001177716 | KLF11 | 3.9 | 7.8 | 1.0 | 2.0 | 5.0E-05 |
| NM_004669 | CLIC3 | 26.1 | 52.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_016206 | VGLL3 | 3.3 | 6.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_001007253 | ERV3-1 | 2.5 | 5.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001284263 | CCDC117 | 8.9 | 17.9 | 1.0 | 2.0 | 5.0E-05 |
| NM_001112736 | FAM208A | 6.7 | 13.5 | 1.0 | 2.0 | 5.0E-05 |
| NM_003427 | ZNF76 | 6.4 | 12.9 | 1.0 | 2.0 | 5.0E-05 |
| NR_038975 | MIR181A2HG | 1.5 | 3.0 | 1.0 | 2.0 | 6.0E-04 |
| NM_001100626 | ERLIN1 | 31.6 | 64.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001242864 | PRMT2 | 24.7 | 50.0 | 1.0 | 2.0 | 5.0E-05 |
| NM_001013620 | ALG10B | 2.2 | 4.4 | 1.0 | 2.0 | 5.0E-05 |
| NM_002895 | RBL1 | 4.8 | 9.8 | 1.0 | 2.0 | 5.0E-05 |
| NR_015431 | FLJ43663 | 1.6 | 3.3 | 1.0 | 2.0 | 5.0E-05 |
| NM_020824 | ARHGAP21 | 7.8 | 15.9 | 1.0 | 2.0 | 5.0E-05 |
| NM_001003818 | TRIM6 | 4.7 | 9.7 | 1.0 | 2.0 | 5.0E-05 |
| NM_003440 | ZNF140 | 2.4 | 4.9 | 1.0 | 2.1 | 5.0E-05 |
| NM_001099455 | CPPED1 | 4.9 | 10.1 | 1.0 | 2.1 | 5.0E-05 |
| NM_001159377 | MTHFSD | 4.7 | 9.7 | 1.0 | 2.1 | 5.0E-05 |
| NM_033512 | TSPYL5 | 4.4 | 9.0 | 1.0 | 2.1 | 5.0E-05 |
| NM_001135564 | HSF2 | 4.2 | 8.8 | 1.0 | 2.1 | 5.0E-05 |
| NM_001010911 | C10orf114 | 2.3 | 4.7 | 1.0 | 2.1 | 5.0E-05 |
| NM_001042481 | FRMD6 | 26.8 | 55.3 | 1.0 | 2.1 | 5.0E-05 |
| NM_001845 | COL4A1 | 334.7 | 689.8 | 1.0 | 2.1 | 5.0E-05 |
| NM_004746 | DLGAP1 | 1.7 | 3.6 | 1.0 | 2.1 | 5.0E-05 |
| NM_001254755 | CYB5D2 | 4.3 | 9.0 | 1.0 | 2.1 | 5.0E-04 |
| NM_001037125 | UNKL | 7.6 | 15.7 | 1.0 | 2.1 | 5.0E-05 |
| NM_194318 | B3GALTL | 5.6 | 11.5 | 1.0 | 2.1 | 5.0E-05 |
| NM_001170905 | ZNF736 | 2.8 | 5.9 | 1.0 | 2.1 | 5.0E-05 |
| NM_001042415 | ZNF596 | 1.6 | 3.4 | 1.0 | 2.1 | 5.0E-05 |
| NM_001171795 | TRIQK | 3.2 | 6.7 | 1.0 | 2.1 | 5.0E-05 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NR_046163 | MIRLET7DHG | 1.6 | 3.4 | 1.1 | 2.1 | 5.0E-05 |
| NM_001100623 | PLEKHB2 | 23.9 | 49.6 | 1.1 | 2.1 | 5.0E-05 |
| NR_024582 | JPX | 1.8 | 3.7 | 1.1 | 2.1 | 5.0E-05 |
| NM_020381 | PDSS2 | 2.9 | 6.1 | 1.1 | 2.1 | 5.0E-05 |
| NM_001270367 | TMEM254 | 6.3 | 13.2 | 1.1 | 2.1 | 5.0E-05 |
| NM_012425 | RSU1 | 30.3 | 63.2 | 1.1 | 2.1 | 5.0E-05 |
| NM_022787 | NMNAT1 | 2.4 | 4.9 | 1.1 | 2.1 | 5.0E-05 |
| NM_021633 | KLHL12 | 9.1 | 19.2 | 1.1 | 2.1 | 5.0E-05 |
| NM_003289 | TPM2 | 412.8 | 867.5 | 1.1 | 2.1 | 5.0E-05 |
| NM_001145418 | TTC28 | 3.8 | 8.0 | 1.1 | 2.1 | 5.0E-05 |
| NM_133458 | ZFP90 | 3.1 | 6.5 | 1.1 | 2.1 | 5.0E-05 |
| NM_001251977 | RCAN3 | 6.2 | 13.1 | 1.1 | 2.1 | 5.0E-05 |
| NM_003811 | TNFSF9 | 6.5 | 13.7 | 1.1 | 2.1 | 5.0E-05 |
| NM_001010853 | PM20D2 | 5.4 | 11.4 | 1.1 | 2.1 | 5.0E-05 |
| NM_021038 | MBNL1 | 15.1 | 31.8 | 1.1 | 2.1 | 5.0E-05 |
| NM_001821 | CHML | 8.9 | 18.7 | 1.1 | 2.1 | 5.0E-05 |
| NM_003079 | SMARCE1 | 25.0 | 52.7 | 1.1 | 2.1 | 5.0E-05 |
| NM_001278599 | AXL | 51.6 | 108.8 | 1.1 | 2.1 | 5.0E-05 |
| NM_001009555 | SH3D19 | 4.1 | 8.6 | 1.1 | 2.1 | 5.0E-05 |
| NM_001178106 | ZNF185 | 7.3 | 15.5 | 1.1 | 2.1 | 5.0E-05 |
| NM_001143819 | TPCN1 | 6.9 | 14.7 | 1.1 | 2.1 | 5.0E-05 |
| NM_001191322 | GREM1 | 43.2 | 91.4 | 1.1 | 2.1 | 5.0E-05 |
| NM_152455 | ZSCAN29 | 3.3 | 6.9 | 1.1 | 2.1 | 5.0E-05 |
| NM_001001549 | GRB10 | 5.2 | 10.9 | 1.1 | 2.1 | 5.0E-05 |
| NM_001160113 | C15orf40 | 6.8 | 14.5 | 1.1 | 2.1 | 5.0E-05 |
| NM_001042705 | IQCJ | 9.4 | 20.0 | 1.1 | 2.1 | 5.0E-05 |
| NM_001160223 | RNF170 | 3.1 | 6.6 | 1.1 | 2.1 | 5.0E-05 |
| NM_145295 | ZNF627 | 4.1 | 8.8 | 1.1 | 2.1 | 5.0E-05 |
| NM_003401 | XRCC4 | 6.2 | 13.2 | 1.1 | 2.1 | 5.0E-05 |
| NM_001039547 | GK5 | 2.1 | 4.4 | 1.1 | 2.1 | 5.0E-05 |
| NM_001973 | ELK4 | 4.5 | 9.7 | 1.1 | 2.1 | 5.0E-05 |
| NM_000141 | FGFR2 | 4.8 | 10.3 | 1.1 | 2.1 | 5.0E-05 |
| NM_006997 | TACC2 | 6.8 | 14.5 | 1.1 | 2.1 | 5.0E-05 |
| NM_004486 | GOLGA2 | 10.6 | 22.8 | 1.1 | 2.1 | 5.0E-05 |
| NM_003307 | TRPM2 | 3.5 | 7.5 | 1.1 | 2.2 | 5.0E-05 |
| NM_000694 | ALDH3B1 | 5.0 | 10.8 | 1.1 | 2.2 | 5.0E-05 |
| NM_138389 | FAM114A1 | 13.2 | 28.4 | 1.1 | 2.2 | 5.0E-05 |
| NM_001277971 | SGK196 | 9.0 | 19.4 | 1.1 | 2.2 | 5.0E-05 |
| NR_003277 | HNRNPA1P33 | 20.6 | 44.4 | 1.1 | 2.2 | 5.0E-05 |
| NR_026757 | OIP5-AS1 | 16.5 | 35.6 | 1.1 | 2.2 | 5.0E-05 |
| NM_001256295 | ETS2 | 10.2 | 22.0 | 1.1 | 2.2 | 5.0E-05 |
| NM_001130916 | TGFBR1 | 54.0 | 116.5 | 1.1 | 2.2 | 5.0E-05 |
| NM_203462 | MRFAP1L1 | 16.0 | 34.6 | 1.1 | 2.2 | 5.0E-05 |
| NM_001195227 | TRPM4 | 6.3 | 13.6 | 1.1 | 2.2 | 5.0E-05 |
| NM_003309 | TSPYL1 | 15.3 | 33.1 | 1.1 | 2.2 | 5.0E-05 |
| NR_045525 | ZNF724P | 2.1 | 4.5 | 1.1 | 2.2 | 5.0E-05 |
| NM_014330 | PPP1R15A | 6.8 | 14.8 | 1.1 | 2.2 | 5.0E-05 |
| NM_001131028 | ATG10 | 3.3 | 7.2 | 1.1 | 2.2 | 5.0E-05 |
| NM_001271887 | SRGAP2D | 6.9 | 15.0 | 1.1 | 2.2 | 5.0E-05 |
| NM_033204 | ZNF101 | 3.3 | 7.3 | 1.1 | 2.2 | 5.0E-05 |
| NM_001175 | ARHGDIB | 11.4 | 24.8 | 1.1 | 2.2 | 5.0E-05 |
| NM_001127211 | KIAA1598 | 4.4 | 9.5 | 1.1 | 2.2 | 5.0E-05 |
| NM_001098520 | HTATIP2 | 16.1 | 35.2 | 1.1 | 2.2 | 5.0E-05 |
| NR_109781 | LOC100506985 | 1.7 | 3.6 | 1.1 | 2.2 | 2.4E-03 |
| NM_001039127 | ZNF718 | 7.4 | 16.1 | 1.1 | 2.2 | 5.0E-05 |
| NM_000903 | NQO1 | 59.7 | 130.7 | 1.1 | 2.2 | 5.0E-05 |
| NM_006406 | PRDX4 | 67.4 | 147.9 | 1.1 | 2.2 | 5.0E-05 |
| NM_007076 | FICD | 2.6 | 5.8 | 1.1 | 2.2 | 5.0E-05 |
| NM_007187 | WBP4 | 3.7 | 8.2 | 1.1 | 2.2 | 5.0E-05 |
| NM_001144063 | OSBPL5 | 6.8 | 15.1 | 1.1 | 2.2 | 5.0E-05 |
| NM_033515 | ARHGAP18 | 4.4 | 9.6 | 1.1 | 2.2 | 5.0E-05 |

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|--------------|---------------|-------|-------|-----|-----|---------|
| NM_001013746 | ZNF107 | 3.9 | 8.6 | 1.1 | 2.2 | 5.0E-05 |
| NM_001006114 | YBEY | 3.5 | 7.9 | 1.1 | 2.2 | 4.0E-03 |
| NR_001447 | MT1L | 31.4 | 69.6 | 1.1 | 2.2 | 5.0E-05 |
| NM_032842 | TMEM209 | 5.9 | 13.1 | 1.2 | 2.2 | 5.0E-05 |
| NM_001144074 | DET1 | 1.7 | 3.8 | 1.2 | 2.2 | 5.0E-05 |
| NM_001256648 | ZNF43 | 1.9 | 4.3 | 1.2 | 2.2 | 5.0E-05 |
| NM_001191 | BCL2L1 | 26.5 | 59.2 | 1.2 | 2.2 | 5.0E-05 |
| NM_001620 | AHNAK | 123.4 | 276.2 | 1.2 | 2.2 | 5.0E-05 |
| NM_001010879 | ZIK1 | 1.9 | 4.3 | 1.2 | 2.2 | 5.0E-05 |
| NM_007173 | PRSS23 | 16.4 | 36.8 | 1.2 | 2.2 | 5.0E-05 |
| NR_047573 | TMEM44-AS1 | 1.5 | 3.4 | 1.2 | 2.2 | 8.5E-03 |
| NM_006851 | GLIPR1 | 22.9 | 51.5 | 1.2 | 2.2 | 5.0E-05 |
| NR_026981 | RPL23AP82 | 3.6 | 8.1 | 1.2 | 2.2 | 5.0E-05 |
| NM_018284 | GBP3 | 9.5 | 21.4 | 1.2 | 2.2 | 5.0E-05 |
| NM_018691 | FAM114A2 | 7.1 | 16.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_017629 | AGO4 | 3.3 | 7.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_002205 | ITGA5 | 121.6 | 273.9 | 1.2 | 2.3 | 5.0E-05 |
| NM_001310 | CREBL2 | 4.9 | 11.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_001184740 | CTTN | 54.9 | 124.0 | 1.2 | 2.3 | 5.0E-05 |
| NM_000142 | FGFR3 | 4.9 | 11.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_001281736 | ENOX2 | 2.0 | 4.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_138374 | ZNF845 | 3.0 | 6.8 | 1.2 | 2.3 | 5.0E-05 |
| NM_001785 | CDA | 10.1 | 22.9 | 1.2 | 2.3 | 5.0E-05 |
| NM_080750 | DPH3P1 | 2.3 | 5.2 | 1.2 | 2.3 | 5.0E-05 |
| NM_174908 | CCDC50 | 9.6 | 22.0 | 1.2 | 2.3 | 5.0E-05 |
| NM_001130455 | DYSF | 7.6 | 17.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_032415 | CARD11 | 2.6 | 6.0 | 1.2 | 2.3 | 5.0E-05 |
| NM_001282663 | MICAL2 | 24.3 | 55.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_130468 | CHST14 | 8.1 | 18.5 | 1.2 | 2.3 | 5.0E-05 |
| NR_038269 | LOC100506844 | 7.2 | 16.5 | 1.2 | 2.3 | 5.0E-05 |
| NM_001992 | F2R | 11.4 | 26.2 | 1.2 | 2.3 | 5.0E-05 |
| NM_001247997 | CLIP1 | 10.3 | 23.7 | 1.2 | 2.3 | 5.0E-05 |
| NM_001001683 | MED11 | 4.8 | 11.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_003435 | ZNF134 | 3.6 | 8.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_017868 | TTC12 | 3.8 | 8.7 | 1.2 | 2.3 | 5.0E-05 |
| NM_001206729 | AKT3 | 9.6 | 22.2 | 1.2 | 2.3 | 5.0E-05 |
| NM_002256 | KISS1 | 3.1 | 7.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_022909 | CENPH | 21.5 | 49.9 | 1.2 | 2.3 | 5.0E-05 |
| NM_001260491 | SLC9A8 | 2.0 | 4.7 | 1.2 | 2.3 | 5.0E-05 |
| NM_015299 | KHNYN | 5.4 | 12.5 | 1.2 | 2.3 | 5.0E-05 |
| NM_001135599 | TGFB2 | 12.3 | 28.7 | 1.2 | 2.3 | 5.0E-05 |
| NM_032423 | ZNF528 | 1.5 | 3.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_005502 | ABCA1 | 4.2 | 9.8 | 1.2 | 2.3 | 5.0E-05 |
| NM_021148 | ZNF273 | 1.5 | 3.6 | 1.2 | 2.3 | 5.0E-05 |
| NM_019002 | ETAA1 | 4.2 | 9.9 | 1.2 | 2.3 | 5.0E-05 |
| NM_015227 | POFUT2 | 15.5 | 36.2 | 1.2 | 2.3 | 5.0E-05 |
| NM_001178102 | LOX | 53.4 | 125.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_001172650 | ZNF559-ZNF177 | 2.4 | 5.7 | 1.2 | 2.3 | 5.0E-05 |
| NM_001190826 | FAM217B | 2.6 | 6.1 | 1.2 | 2.3 | 5.0E-05 |
| NM_015689 | DENND2A | 1.7 | 3.9 | 1.2 | 2.3 | 5.0E-05 |
| NM_014742 | TM9SF4 | 14.2 | 33.4 | 1.2 | 2.3 | 5.0E-05 |
| NM_016205 | PDGFC | 12.4 | 29.1 | 1.2 | 2.4 | 5.0E-05 |
| NM_001113411 | FGGY | 2.7 | 6.3 | 1.2 | 2.4 | 5.0E-05 |
| NR_015360 | FLJ33630 | 5.9 | 13.9 | 1.2 | 2.4 | 2.0E-04 |
| NM_001010851 | ZNF766 | 2.7 | 6.4 | 1.2 | 2.4 | 5.0E-05 |
| NM_001270938 | ZNF551 | 1.6 | 3.8 | 1.2 | 2.4 | 5.0E-05 |
| NM_001130022 | ZNF680 | 3.4 | 8.1 | 1.2 | 2.4 | 5.0E-05 |
| NM_004724 | ZW10 | 6.2 | 14.7 | 1.2 | 2.4 | 5.0E-05 |
| NR_040091 | LOC100506990 | 3.5 | 8.4 | 1.2 | 2.4 | 5.0E-05 |
| NM_145243 | OMA1 | 1.9 | 4.4 | 1.2 | 2.4 | 5.0E-05 |
| NM_030777 | SLC2A10 | 3.0 | 7.0 | 1.2 | 2.4 | 5.0E-05 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NM_001174118 | MEX3D | 11.8 | 28.0 | 1.2 | 2.4 | 5.0E-05 |
| NM_004839 | HOMER2 | 17.8 | 42.3 | 1.3 | 2.4 | 5.0E-05 |
| NM_016078 | TVP23B | 12.5 | 29.9 | 1.3 | 2.4 | 5.0E-05 |
| NM_018328 | MBD5 | 1.5 | 3.5 | 1.3 | 2.4 | 5.0E-05 |
| NR_003127 | ZNF542 | 1.9 | 4.6 | 1.3 | 2.4 | 5.0E-05 |
| NM_152550 | SH3RF2 | 3.3 | 8.0 | 1.3 | 2.4 | 5.0E-05 |
| NM_005159 | ACTC1 | 1.7 | 4.0 | 1.3 | 2.4 | 5.0E-05 |
| NM_033089 | ZCCHC3 | 6.0 | 14.4 | 1.3 | 2.4 | 5.0E-05 |
| NM_001270362 | RAD23A | 18.7 | 45.0 | 1.3 | 2.4 | 5.0E-05 |
| NM_001124 | ADM | 7.3 | 17.5 | 1.3 | 2.4 | 5.0E-05 |
| NM_024830 | LPCAT1 | 30.4 | 73.1 | 1.3 | 2.4 | 5.0E-05 |
| NR_110032 | LOC101927045 | 1.6 | 3.8 | 1.3 | 2.4 | 5.0E-05 |
| NM_018137 | PRMT6 | 5.9 | 14.1 | 1.3 | 2.4 | 5.0E-05 |
| NM_000089 | COL1A2 | 12.8 | 30.9 | 1.3 | 2.4 | 5.0E-05 |
| NM_004273 | CHST3 | 12.6 | 30.4 | 1.3 | 2.4 | 5.0E-05 |
| NM_001142502 | PPP1R13L | 16.0 | 38.6 | 1.3 | 2.4 | 5.0E-05 |
| NM_001040185 | ZNF765 | 1.8 | 4.5 | 1.3 | 2.4 | 5.0E-05 |
| NM_030648 | SETD7 | 3.7 | 9.1 | 1.3 | 2.4 | 5.0E-05 |
| NM_014584 | ERO1L | 16.4 | 39.8 | 1.3 | 2.4 | 5.0E-05 |
| NR_024565 | ZNF271 | 2.8 | 6.9 | 1.3 | 2.4 | 5.0E-05 |
| NR_024430 | MIR100HG | 4.7 | 11.3 | 1.3 | 2.4 | 5.0E-05 |
| NM_001195610 | DCDC2 | 2.1 | 5.1 | 1.3 | 2.4 | 5.0E-05 |
| NM_000332 | ATXN1 | 2.7 | 6.6 | 1.3 | 2.4 | 5.0E-05 |
| NM_001243254 | DENND5A | 15.6 | 38.0 | 1.3 | 2.4 | 5.0E-05 |
| NM_003110 | SP2 | 1.6 | 3.8 | 1.3 | 2.4 | 6.0E-04 |
| NM_006097 | MYL9 | 322.6 | 790.1 | 1.3 | 2.4 | 5.0E-05 |
| NM_018956 | C9orf9 | 3.4 | 8.3 | 1.3 | 2.5 | 5.0E-05 |
| NM_001850 | COL8A1 | 49.4 | 121.1 | 1.3 | 2.5 | 5.0E-05 |
| NM_001031719 | DHRS12 | 1.6 | 3.9 | 1.3 | 2.5 | 5.0E-05 |
| NM_002999 | SDC4 | 44.1 | 108.5 | 1.3 | 2.5 | 5.0E-05 |
| NM_000908 | NPR3 | 5.0 | 12.4 | 1.3 | 2.5 | 5.0E-05 |
| NR_034170 | EIF3J-AS1 | 1.9 | 4.7 | 1.3 | 2.5 | 5.0E-05 |
| NM_001083592 | ROR1 | 3.9 | 9.7 | 1.3 | 2.5 | 5.0E-05 |
| NR_036511 | LOC100129917 | 2.2 | 5.4 | 1.3 | 2.5 | 9.5E-04 |
| NM_144618 | GABPB2 | 2.2 | 5.5 | 1.3 | 2.5 | 5.0E-05 |
| NM_014872 | ZBTB5 | 3.3 | 8.2 | 1.3 | 2.5 | 5.0E-05 |
| NR_038429 | LOC100506054 | 2.2 | 5.4 | 1.3 | 2.5 | 5.0E-05 |
| NM_000024 | ADRB2 | 2.0 | 5.1 | 1.3 | 2.5 | 5.0E-05 |
| NM_005471 | GNPDA1 | 21.6 | 53.9 | 1.3 | 2.5 | 5.0E-05 |
| NM_138689 | PPP1R14B | 61.8 | 154.1 | 1.3 | 2.5 | 5.0E-05 |
| NM_001164407 | TLCD2 | 2.3 | 5.7 | 1.3 | 2.5 | 5.0E-05 |
| NM_000043 | FAS | 6.2 | 15.6 | 1.3 | 2.5 | 5.0E-05 |
| NR_023392 | ZNF252P | 1.5 | 3.9 | 1.3 | 2.5 | 5.0E-05 |
| NM_001001557 | GDF6 | 16.6 | 41.6 | 1.3 | 2.5 | 5.0E-05 |
| NM_001271003 | TFPI2 | 27.2 | 68.0 | 1.3 | 2.5 | 5.0E-05 |
| NM_001289166 | ZNF227 | 2.0 | 4.9 | 1.3 | 2.5 | 5.0E-05 |
| NR_002312 | RPPH1 | 8.4 | 21.3 | 1.3 | 2.5 | 5.0E-05 |
| NM_001284282 | VOPP1 | 26.6 | 67.3 | 1.3 | 2.5 | 5.0E-05 |
| NM_001244606 | IMMP2L | 3.8 | 9.6 | 1.3 | 2.5 | 5.0E-05 |
| NM_001278661 | ZNF254 | 3.8 | 9.7 | 1.3 | 2.5 | 5.0E-05 |
| NM_001202554 | PIGV | 2.5 | 6.3 | 1.3 | 2.5 | 5.0E-05 |
| NM_006969 | ZNF28 | 2.7 | 6.8 | 1.3 | 2.5 | 5.0E-05 |
| NM_001242359 | RHOBTB1 | 3.0 | 7.5 | 1.3 | 2.5 | 5.0E-05 |
| NR_037897 | SAP30L-AS1 | 1.8 | 4.6 | 1.3 | 2.5 | 4.3E-03 |
| NM_001204300 | ARHGAP19 | 4.0 | 10.2 | 1.4 | 2.6 | 5.0E-05 |
| NM_004805 | POLR2D | 12.4 | 31.8 | 1.4 | 2.6 | 5.0E-05 |
| NM_001165881 | ZNF268 | 2.8 | 7.3 | 1.4 | 2.6 | 5.0E-05 |
| NM_003430 | ZNF91 | 1.9 | 4.9 | 1.4 | 2.6 | 5.0E-05 |
| NM_153367 | ZCCHC24 | 2.7 | 7.1 | 1.4 | 2.6 | 5.0E-05 |
| NM_017905 | TMCO3 | 17.9 | 46.6 | 1.4 | 2.6 | 5.0E-05 |
| NM_153695 | ZNF367 | 6.5 | 16.9 | 1.4 | 2.6 | 5.0E-05 |

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|--------------|-----------|-------|--------|-----|-----|---------|
| NM_012297 | G3BP2 | 31.8 | 83.7 | 1.4 | 2.6 | 5.0E-05 |
| NM_000916 | OXTR | 1.8 | 4.8 | 1.4 | 2.6 | 5.0E-05 |
| NM_001134381 | TBC1D5 | 6.7 | 17.7 | 1.4 | 2.6 | 5.0E-05 |
| NM_024106 | ZNF426 | 1.9 | 5.1 | 1.4 | 2.7 | 5.0E-05 |
| NM_001085 | SERPINA3 | 3.4 | 9.1 | 1.4 | 2.7 | 5.0E-05 |
| NM_001136108 | R3HCC1 | 9.0 | 23.9 | 1.4 | 2.7 | 1.8E-02 |
| NM_001160124 | KLF6 | 25.1 | 67.1 | 1.4 | 2.7 | 5.0E-05 |
| NM_001033083 | PBLD | 3.0 | 8.1 | 1.4 | 2.7 | 6.0E-04 |
| NM_005037 | PPARG | 3.5 | 9.4 | 1.4 | 2.7 | 5.0E-05 |
| NM_001099650 | GXYLT1 | 7.4 | 20.0 | 1.4 | 2.7 | 5.0E-05 |
| NM_199341 | C19orf68 | 2.6 | 6.9 | 1.4 | 2.7 | 5.0E-05 |
| NM_001042483 | NUPR1 | 12.7 | 34.4 | 1.4 | 2.7 | 5.0E-05 |
| NM_016546 | C1RL | 3.3 | 8.9 | 1.4 | 2.7 | 5.0E-05 |
| NM_001008801 | ZNF468 | 2.1 | 5.7 | 1.4 | 2.7 | 5.0E-05 |
| NM_001042403 | USP44 | 4.6 | 12.4 | 1.4 | 2.7 | 5.0E-05 |
| NM_001657 | AREG | 3.7 | 10.1 | 1.5 | 2.7 | 5.0E-05 |
| NM_001134445 | DDAH1 | 19.7 | 54.0 | 1.5 | 2.7 | 5.0E-05 |
| NM_007346 | OGFR | 7.2 | 19.8 | 1.5 | 2.7 | 5.0E-05 |
| NM_001178096 | F3 | 23.5 | 64.8 | 1.5 | 2.8 | 5.0E-05 |
| NM_005603 | ATP8B1 | 2.6 | 7.2 | 1.5 | 2.8 | 5.0E-05 |
| NM_213606 | SLC16A12 | 1.6 | 4.6 | 1.5 | 2.8 | 5.0E-05 |
| NM_000782 | CYP24A1 | 3.0 | 8.3 | 1.5 | 2.8 | 5.0E-05 |
| NM_000700 | ANXA1 | 73.5 | 204.3 | 1.5 | 2.8 | 5.0E-05 |
| NM_001177701 | IFT27 | 5.2 | 14.6 | 1.5 | 2.8 | 5.0E-05 |
| NM_145039 | CENPBD1 | 1.7 | 4.7 | 1.5 | 2.8 | 5.0E-05 |
| NM_001136257 | SGMS2 | 5.6 | 15.8 | 1.5 | 2.8 | 5.0E-05 |
| NM_138432 | SDSL | 8.6 | 24.7 | 1.5 | 2.9 | 5.0E-05 |
| NM_001257180 | SLC20A2 | 8.0 | 23.0 | 1.5 | 2.9 | 5.0E-05 |
| NM_001003800 | BICD2 | 5.8 | 16.8 | 1.5 | 2.9 | 5.0E-05 |
| NR_040245 | LINC00941 | 1.9 | 5.6 | 1.5 | 2.9 | 5.0E-05 |
| NM_024576 | OGFRL1 | 17.0 | 49.5 | 1.5 | 2.9 | 5.0E-05 |
| NM_001159 | AOX1 | 2.0 | 5.9 | 1.5 | 2.9 | 5.0E-05 |
| NM_015459 | ATL3 | 19.0 | 55.5 | 1.5 | 2.9 | 5.0E-05 |
| NM_001278192 | GANAB | 84.3 | 246.4 | 1.5 | 2.9 | 5.0E-05 |
| NM_032283 | ZDHHC18 | 7.1 | 20.8 | 1.6 | 2.9 | 5.0E-05 |
| NM_001201546 | SLC16A4 | 3.5 | 10.2 | 1.6 | 2.9 | 5.0E-05 |
| NM_000527 | LDLR | 13.2 | 39.0 | 1.6 | 2.9 | 5.0E-05 |
| NM_001018109 | PIR | 2.9 | 8.4 | 1.6 | 3.0 | 5.0E-05 |
| NM_015154 | MESDC2 | 24.7 | 73.1 | 1.6 | 3.0 | 5.0E-05 |
| NM_001172895 | CAV1 | 62.0 | 185.1 | 1.6 | 3.0 | 5.0E-05 |
| NM_014945 | ABLIM3 | 7.1 | 21.4 | 1.6 | 3.0 | 5.0E-05 |
| NM_001077349 | ZNF682 | 2.5 | 7.4 | 1.6 | 3.0 | 5.0E-05 |
| NM_004436 | ENSA | 44.8 | 134.8 | 1.6 | 3.0 | 5.0E-05 |
| NR_015381 | TP53TG1 | 2.4 | 7.2 | 1.6 | 3.0 | 5.0E-05 |
| NM_000602 | SERPINE1 | 582.2 | 1776.9 | 1.6 | 3.1 | 5.0E-05 |
| NR_023918 | LINC00339 | 3.5 | 10.7 | 1.6 | 3.1 | 5.0E-05 |
| NM_001145425 | NR1D2 | 4.1 | 12.6 | 1.6 | 3.1 | 5.0E-05 |
| NM_001001522 | TAGLN | 608.4 | 1902.9 | 1.6 | 3.1 | 5.0E-05 |
| NM_020814 | MARCH4 | 3.5 | 11.0 | 1.6 | 3.1 | 5.0E-05 |
| NR_036496 | LOC339803 | 2.1 | 6.8 | 1.7 | 3.2 | 5.0E-05 |
| NM_005542 | INSIG1 | 15.1 | 47.9 | 1.7 | 3.2 | 5.0E-05 |
| NM_014282 | HABP4 | 5.5 | 17.3 | 1.7 | 3.2 | 5.0E-05 |
| NM_001012426 | FOXP4 | 4.8 | 15.3 | 1.7 | 3.2 | 5.0E-05 |
| NM_001135919 | SLC46A3 | 9.0 | 28.9 | 1.7 | 3.2 | 5.0E-05 |
| NM_006612 | KIF1C | 12.5 | 40.2 | 1.7 | 3.2 | 5.0E-05 |
| NM_000933 | PLCB4 | 14.7 | 48.2 | 1.7 | 3.2 | 5.0E-05 |
| NM_001142964 | C22orf46 | 2.3 | 7.5 | 1.7 | 3.3 | 5.0E-05 |
| NM_001227 | CASP7 | 9.0 | 29.7 | 1.7 | 3.3 | 5.0E-05 |
| NM_001554 | CYR61 | 155.8 | 512.4 | 1.7 | 3.3 | 5.0E-05 |
| NM_177424 | STX12 | 7.5 | 24.9 | 1.7 | 3.3 | 5.0E-05 |
| NM_001145056 | SLC44A2 | 55.3 | 183.0 | 1.7 | 3.3 | 5.0E-05 |

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|--------------|--------------|-------|-------|-----|-----|---------|
| NM_001136037 | LIMS2 | 7.1 | 23.7 | 1.7 | 3.3 | 5.0E-05 |
| NM_001003790 | ERLIN2 | 12.2 | 41.2 | 1.8 | 3.4 | 5.0E-05 |
| NM_001901 | CTGF | 80.3 | 275.7 | 1.8 | 3.4 | 5.0E-05 |
| NR_038903 | LOC100506233 | 3.9 | 13.6 | 1.8 | 3.5 | 5.0E-05 |
| NR_024322 | MSL3P1 | 1.8 | 6.3 | 1.8 | 3.5 | 5.0E-05 |
| NM_001160183 | ZNF138 | 3.0 | 10.4 | 1.8 | 3.5 | 5.0E-05 |
| NM_001145646 | APH1B | 2.0 | 7.1 | 1.8 | 3.5 | 5.0E-05 |
| NM_005139 | ANXA3 | 14.7 | 51.7 | 1.8 | 3.5 | 5.0E-05 |
| NM_019054 | FAM35A | 5.2 | 18.7 | 1.8 | 3.6 | 5.0E-05 |
| NM_002192 | INHBA | 10.2 | 37.2 | 1.9 | 3.6 | 5.0E-05 |
| NM_001141945 | ACTA2 | 13.6 | 49.7 | 1.9 | 3.6 | 5.0E-05 |
| NM_033520 | C19orf33 | 7.7 | 28.7 | 1.9 | 3.7 | 5.0E-05 |
| NM_000800 | FGF1 | 1.5 | 5.6 | 1.9 | 3.8 | 5.0E-05 |
| NM_001199893 | ACTG2 | 2.0 | 7.7 | 1.9 | 3.9 | 5.0E-05 |
| NM_199511 | CCDC80 | 36.0 | 139.4 | 2.0 | 3.9 | 5.0E-05 |
| NR_027082 | SFTA1P | 1.7 | 6.7 | 2.0 | 3.9 | 5.0E-05 |
| NM_001167671 | LPP | 12.3 | 47.8 | 2.0 | 3.9 | 5.0E-05 |
| NM_002298 | LCP1 | 2.0 | 7.9 | 2.0 | 4.0 | 5.0E-05 |
| NM_001168319 | EDN1 | 14.8 | 63.0 | 2.1 | 4.3 | 5.0E-05 |
| NM_001299 | CNN1 | 21.7 | 95.0 | 2.1 | 4.4 | 5.0E-05 |
| NM_001172309 | NEXN | 4.2 | 18.4 | 2.1 | 4.4 | 5.0E-05 |
| NM_001145160 | TPM4 | 113.5 | 503.2 | 2.1 | 4.4 | 5.0E-05 |
| NM_001287135 | CDK14 | 2.5 | 11.4 | 2.2 | 4.6 | 5.0E-05 |
| NM_001126337 | TUFT1 | 8.7 | 40.3 | 2.2 | 4.6 | 5.0E-05 |
| NM_001031679 | MSRB3 | 4.5 | 21.6 | 2.3 | 4.8 | 5.0E-05 |
| NM_014391 | ANKRD1 | 17.0 | 84.6 | 2.3 | 5.0 | 5.0E-05 |
| NM_000104 | CYP1B1 | 1.6 | 7.9 | 2.3 | 5.1 | 5.0E-05 |
| NM_001009814 | VWA8 | 3.8 | 25.6 | 2.7 | 6.7 | 5.0E-05 |
| NM_002521 | NPPB | 7.5 | 51.0 | 2.8 | 6.8 | 5.0E-05 |
| NM_000361 | THBD | 2.3 | 16.2 | 2.8 | 7.1 | 5.0E-05 |
| NR_038861 | LINC00617 | 2.3 | 16.5 | 2.9 | 7.3 | 5.0E-05 |