| ID           | gene_name | Annotation                                              | Ratio (TP-5/POF) |
|--------------|-----------|---------------------------------------------------------|-----------------|
| ENSMUSG00000 | Yy2       | transcription factor YY2 [Mus musculus]                | 36.201          |
| 091736       |           |                                                         |                 |
| ENSMUSG00000 | C1rb      | complement C1r-B subcomponent precursor [Mus musculus] | 13.503          |
| 098470       |           |                                                         |                 |
| ENSMUSG00000 | Gm1100    | KRAB box and zinc finger, C2H2 type domain containing   | 9.537           |
| 094475       | 7         | [Mus musculus]                                         |                 |
| ENSMUSG00000 | Zfp871    | mKIAA3006 protein, partial [Mus musculus]              | 5.094           |
| 024298       |           |                                                         |                 |
| ENSMUSG00000 | Gm144     | novel KRAB box and zinc finger, C2H2 type domain        | 4.383           |
| 078875       | 19        | containing protein [Mus musculus]                      |                 |
| ENSMUSG00000 | Gucy1a    | guanylate cyclase soluble subunit alpha-2 [Mus musculus]| 4.151           |
| 041624       | 2         |                                                         |                 |
| ENSMUSG00000 | Nbea1l    | neurobeachin-like protein 1 [Mus musculus]             | 3.906           |
| 073664       |           |                                                         |                 |
| ENSMUSG00000 | mt-Atp6   | ATP synthase F0 subunit 6 (mitochondrion) [Mus spretus] | 3.824           |
| 064357       |           |                                                         |                 |
| ENSMUSG00000 | Zfp169    | zinc finger protein 169 isoform a [Mus musculus]       | 3.713           |
| 091736       |           |                                                         |                 |
| Gene ID          | Description                                           | Ratio |
|-----------------|-------------------------------------------------------|-------|
| ENSMUSG000000009145 | ATP-dependent RNA helicase DQX1 [Mus musculus]       | 3.677 |
| ENSMUSG0000000023036 | protocadherin gamma-C4 [Mus musculus]                | 3.613 |
| ENSMUSG0000000075324 | fidgetin isoform 1 [Mus musculus]                    | 3.526 |
| ENSMUSG0000000074221 | zinc finger protein 568 isoform 1 [Mus musculus]     | 3.386 |
| ENSMUSG0000000024742 | flap structure specific endonuclease 1, isoform CRA_a, partial [Mus musculus] | 3.320 |
| ENSMUSG0000000089774 | sodium/myo-inositol cotransporter [Mus musculus]     | 3.274 |
| ENSMUSG0000000048154 | histone-lysine N-methyltransferase 2D [Mus musculus] | 3.242 |
| ENSMUSG0000000024383 | mitogen-activated protein kinase kinase 2 [Mus musculus] | 3.223 |
| ENSMUSG000000002028 | RecName: Full=Histone-lysine N-methyltransferase 2A; Short=Lysine N-methyltransferase 2A; AltName: Full=ALL-1; AltName: Full=Myeloid/lymphoid or mixed-lineage | 3.201 |
| Gene ID       | Description                                                                 | Annotation                  | Value  |
|--------------|------------------------------------------------------------------------------|-----------------------------|--------|
| ENSMUSG00000051506 | leukemic; **AltName:** Full=Myeloid/lymphoid or mixed-lineage leukemia protein 1; **AltName:** Full=Zinc finger protein HRX; **Contains:** **RecName:** Full=MLL cleavage product N320; **AltName:** Full=N-terminal cleavage product of 320 kDa; **Short**: p320; **Contains:** **RecName:** Full=MLL cleavage product C180; **AltName:** Full=C-terminal cleavage product of 180 kDa; **Short**: p180 | Wdfy4 | 3.127 |
| ENSMUSG00000057894 | PREDICTED: **WD repeat- and FYVE domain-containing protein 4 isoform X1 [Mus musculus]** | Zfp329 | 3.082 |
| ENSMUSG00000067336 | PREDICTED: **zinc finger protein 329 isoform X1 [Mus musculus]** | Bmpr2 | 3.081 |
| ENSMUSG00000037533 | bone morphogenetic protein receptor type-2 precursor [Mus musculus] | Rapgef6 | 3.071 |
| ENSMUSG00000025094 | PREDICTED: **rap guanine nucleotide exchange factor 6 isoform X2 [Mus musculus]** | Slc18a2 | 3.057 |
| Gene ID          | Gene Symbol | Description                                                                 | Expression Value |
|-----------------|-------------|------------------------------------------------------------------------------|------------------|
| ENSMUSG000000057335 | Cep170      | PREDICTED: centrosomal protein of 170 kDa isoform X6 [Mus musculus]           | 3.057            |
| ENSMUSG00000028053 | Ash1l       | histone-lysine N-methyltransferase ASH1L [Mus musculus]                       | 3.054            |
| ENSMUSG00000022419 | Deptor      | mKIAA4200 protein, partial [Mus musculus]                                    | 3.041            |
| ENSMUSG000000003282 | Plag1    | zinc finger protein PLAG1 [Mus musculus]                                     | 3.032            |
| ENSMUSG000000017291 | Taok1      | serine/threonine-protein kinase TAO1 [Mus musculus]                          | 3.021            |
| ENSMUSG000000021514 | Zfp369     | neurotrophin receptor-interacting factor 2 [Mus musculus]                     | 3.015            |
| ENSMUSG000000024294 | Mib1       | E3 ubiquitin-protein ligase MIB1 [Mus musculus]                              | 2.954            |
| ENSMUSG000000019841 | Rev3l      | DNA polymerase zeta catalytic subunit [Mus musculus]                          | 2.932            |
| ENSMUSG000000034647 | Ankrd1     | ankyrin repeat domain-containing protein 12 [Mus musculus]                   | 2.931            |
| ENSMUSG000000038267 | Sle22a2    | solute carrier family 22 member 23 [Mus musculus]                            | 2.921            |
| ENSMUSG000000026648 | Dclre1c    | protein artemis isoform 1 [Mus musculus]                                     | 2.915            |
| Gene Name   | Protein Name                                      | Symbol   | Description                                                                 | Log2 Fold Change |
|------------|--------------------------------------------------|----------|-----------------------------------------------------------------------------|------------------|
| ENSMUSG00000047793 | Sushi, nidogen and EGF-like domain-containing protein 1 precursor [Mus musculus] | Sned1    | 2.912                                                                        |
| ENSMUSG00000034158 | Leucine-rich repeat-containing protein 58 [Mus musculus] | Lrcc58   | 2.877                                                                        |
| ENSMUSG00000004328 | Hypoxia-inducible factor 3-alpha isoform 1 [Mus musculus] | Hif3a    | 2.865                                                                        |
| ENSMUSG000000078816 | Protein kinase C gamma type isoform 1 [Mus musculus] | Prkcg    | 2.852                                                                        |
| ENSMUSG000000061436 | Homeodomain-interacting protein kinase 2 isoform 2 [Mus musculus] | Hipk2    | 2.846                                                                        |
| ENSMUSG000000037416 | DmX-like protein 1 [Mus musculus] | DmXl1    | 2.844                                                                        |
| ENSMUSG000000038056 | Histone-lysine N-methyltransferase 2C [Mus musculus] | Kmt2c    | 2.797                                                                        |
| ENSMUSG000000041245 | Serine/threonine-protein kinase WNK3 isoform 1 [Mus musculus] | Wnk3     | 2.790                                                                        |
| ENSMUSG000000032253 | PH-interacting protein [Mus musculus] | Phip     | 2.781                                                                        |
| ENSMUSG000000017418 | ADP-ribosylation factor-like protein 5B [Mus musculus] | Arl5b    | 2.751                                                                        |
| ENSMUSG000000Lnpep | Leucyl-cystinyl aminopeptidase [Mus] | Lnpep    | 2.738                                                                        |
| Gene ID     | Symbol | Description                                                                 | Value  |
|------------|--------|------------------------------------------------------------------------------|--------|
| ENSMUSG000000058006 | Mdn1   | PREDICTED: midasin isoform X1 [Mus musculus]                                | 2.738  |
| ENSMUSG000000022629 | Kif21a | kinesin-like protein KIF21A isoform 1 [Mus musculus]                        | 2.713  |
| ENSMUSG000000068130 | Zfp442  | PREDICTED: zinc finger protein 442 isoform X1 [Mus musculus]                | 2.691  |
| ENSMUSG000000019726 | Lyst   | lysosomal-trafficking regulator [Mus musculus]                               | 2.686  |
| ENSMUSG000000034160 | Ogt    | UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit isoform 1 [Mus musculus] | 2.683  |
| ENSMUSG000000078866 | Gm144 20 | KRAB box and zinc finger C2H2 type domain containing protein-like [Mus musculus] | 2.674  |
| ENSMUSG000000041268 | DmXL2  | dmX-like protein 2 [Mus musculus]                                           | 2.667  |
| ENSMUSG000000048279 | Sacs   | PREDICTED: sacsin isoform X3 [Mus musculus]                                  | 2.662  |
| ENSMUSG000000033004 | MycBP2 | E3 ubiquitin-protein ligase MYCBP2 [Mus musculus]                            | 2.654  |
| ENSMUSG0000000ZFP708 | Zfp708 | zinc finger protein 708 isoform b [Mus musculus]                             | 2.645  |
| ENSMUSG00000058883 | musculus | cyclin-dependent kinase-like 5 [Mus musculus] | 2.634 |
| ENSMUSG00000031292 | Cdkl5 | DNA repair protein XRCC3 [Mus musculus] | 2.632 |
| ENSMUSG00000031292 | Xrcc3 | transcriptional regulator ATRX [Mus musculus] | 2.629 |
| ENSMUSG00000050064 | Zfp697 | zinc finger protein 697 [Mus musculus] | 2.623 |
| ENSMUSG00000056608 | Chd9 | chromodomain-helicase-DNA-binding protein 9 isoform 1 [Mus musculus] | 2.617 |
| ENSMUSG00000063894 | Zkscan8 | zinc finger protein with KRAB and SCAN domains 8 isoform 1 [Mus musculus] | 2.615 |
| ENSMUSG00000063108 | Zfp26 | zinc finger protein 26 [Mus musculus] | 2.604 |
| ENSMUSG00000090100 | Ttbk2 | tau-tubulin kinase 2 isoform 1 [Mus musculus] | 2.600 |
| ENSMUSG00000050174 | Nudt6 | nucleoside diphosphate-linked moiety X motif 6 isoform 1 [Mus musculus] | 2.594 |
| ENSMUSG000000043940 | Wdfy3 | PREDICTED: WD repeat and FYVE domain-containing protein 3 isoform X2 [Mus musculus] | 2.590 |
| Gene ID          | Gene Name              | Description                                                                 | Log2 Fold-change |
|------------------|------------------------|------------------------------------------------------------------------------|------------------|
| ENSMGUSG000000   | Abl2                   | Abelson tyrosine-protein kinase 2 isoform b [Mus musculus]                  | 2.582            |
| 026596           |                        |                                                                              |                  |
| ENSMGUSG000000   | N4bp2                  | PREDICTED: NEDD4-binding protein 2 isoform X1 [Mus musculus]                | 2.570            |
| 037795           |                        |                                                                              |                  |
| ENSMGUSG000000   | Fat1                   | protocadherin Fat 1 precursor [Mus musculus]                                | 2.545            |
| 070047           |                        |                                                                              |                  |
| ENSMGUSG000000   | Mtx3                   | metaxin-3 [Mus musculus]                                                    | 2.533            |
| 021704           |                        |                                                                              |                  |
| ENSMGUSG000000   | Peg3                   | paternally-expressed gene 3 protein [Mus musculus]                          | 2.525            |
| 002265           |                        |                                                                              |                  |
| ENSMGUSG000000   | Zfp808                 | zinc finger protein 80 [Mus musculus]                                       | 2.519            |
| 074867           |                        |                                                                              |                  |
| ENSMGUSG000000   | Prdm9                  | histone-lysine N-methyltransferase PRDM9 [Mus musculus]                     | 2.517            |
| 051977           |                        |                                                                              |                  |
| ENSMGUSG000000   | Zbtb16                 | zinc finger and BTB domain-containing protein 16 [Mus musculus]             | 2.508            |
| 066687           |                        |                                                                              |                  |
| ENSMGUSG000000   | Tnks                   | tankyrase-1 [Mus musculus]                                                  | 2.499            |
| 031529           |                        |                                                                              |                  |
| ENSMGUSG000000   | Braf                   | serine/threonine-protein kinase B-raf [Mus musculus]                        | 2.485            |
| 002413           |                        |                                                                              |                  |
| ENSMGUSG000000   | Herc1                  | probable E3 ubiquitin-protein ligase HERC1 [Mus musculus]                   | 2.481            |
| 038664           |                        |                                                                              |                  |
| ENSMUSG00000053580 | Tanc2 | protein TANC2 [Mus musculus] | 2.479 |
|---------------------|-------|-----------------------------|------|
| ENSMUSG00000078651 | Aoc2  | retina-specific copper amine oxidase [Mus musculus] | 2.446 |
| ENSMUSG00000027009 | Itga4 | integrin alpha-4 precursor [Mus musculus] | 2.438 |
| ENSMUSG00000052557 | Gan   | gigaxonin [Mus musculus] | 2.432 |
| ENSMUSG00000032525 | Nktr  | PREDICTED: NK-tumor recognition protein isoform X4 [Mus musculus] | 2.431 |
| ENSMUSG00000052812 | Atad2b | ATPase family AAA domain-containing protein 2B [Mus musculus] | 2.430 |
| ENSMUSG00000002107 | Celf2 | CUGBP Elav-like family member 2 isoform 1 [Mus musculus] | 2.422 |
| ENSMUSG00000020948 | Klhl28 | BTB (POZ) domain containing 5, isoform CRA_b, partial [Mus musculus] | 2.401 |
| ENSMUSG00000028370 | Pappa | pregnancy-associated plasma protein-A, partial [Mus musculus] | 2.400 |
| ENSMUSG00000048732 | Klhl11 | kelch-like protein 11 precursor [Mus musculus] | 2.393 |
| ENSMUSG00000045962 | Wnk1  | serine/threonine-protein kinase WNK1 isoform 5 [Mus musculus] | 2.379 |
| Ensembl ID       | Gene Symbol | Gene Name                                                                 | Value  |
|------------------|-------------|---------------------------------------------------------------------------|--------|
| ENSMUSG000000    | Zbtb41      | zinc finger and BTB domain-containing protein 41 [Mus musculus]            | 2.372  |
| 033964           | Mast4       | microtubule-associated serine/threonine-protein kinase 4 [Mus musculus]   | 2.366  |
| ENSMUSG000000    | Trove2      | 60 kDa SS-A/Ro ribonucleoprotein [Mus musculus]                           | 2.365  |
| 018199           | Ppp1r12     | protein phosphatase 1 regulatory subunit 12B [Mus musculus]               | 2.356  |
| ENSMUSG000000    | Prkaa2      | 5'-AMP-activated protein kinase catalytic subunit alpha-2 isoform 1 [Mus musculus] | 2.353  |
| 028518           | Aak1        | AP2 associated kinase 1 [Mus musculus]                                    | 2.350  |
| ENSMUSG000000    | Zgrf1       | protein ZGRF1 [Mus musculus]                                              | 2.350  |
| 051278           | Herc2       | E3 ubiquitin-protein ligase HERC2 [Mus musculus]                           | 2.333  |
| ENSMUSG000000    | Uprt        | uracil phosphoribosyltransferase homolog [Mus musculus]                   | 2.332  |
| 073016           | Setd1b      | PREDICTED: histone-lysine N-methyltransferase SETD1B isoform X1            | 2.331  |
| Ensembl ID        | Description                                                                 | Abundance |
|-------------------|-----------------------------------------------------------------------------|-----------|
| ENSMUSG000000026384 | tyrosine-protein phosphatase non-receptor type 4 [Mus musculus]             | 2.321     |
| ENSMUSG000000017550 | ATPase family AAA domain-containing protein 5 [Mus musculus]                | 2.317     |
| ENSMUSG000000103037 | protocadherin gamma-B1 precursor [Mus musculus]                            | 2.312     |
| ENSMUSG000000067928 | zinc finger protein 760 [Mus musculus]                                     | 2.307     |
| ENSMUSG000000022812 | glycogen synthase kinase-3 beta isoform 2 [Mus musculus]                   | 2.292     |
| ENSMUSG000000040021 | serine/threonine-protein kinase LATS1 [Mus musculus]                       | 2.292     |
| ENSMUSG000000062627 | histone H2A deubiquitinase MYSM1 [Mus musculus]                           | 2.291     |
| ENSMUSG000000090112 | E3 ubiquitin-protein ligase SHPRH isoform a [Mus musculus]                 | 2.262     |
| ENSMUSG000000003226 | E3 SUMO-protein ligase RanBP2 [Mus musculus]                               | 2.259     |
| ENSMUSG000000020580 | rho-associated protein kinase 2 [Mus musculus]                             | 2.251     |
| ENSMUSG000000000000 | zinc finger protein 101 [Mus musculus]                                     | 2.246     |
| ID      | Gene Symbol | Description                                                                 | Affinity |
|---------|-------------|-----------------------------------------------------------------------------|----------|
| 055240  | Zfp40       | zinc finger protein 40 [Mus musculus]                                       | 2.246    |
| ENSMUSG000000002617 | Ankrd4 4 | PREDICTED: serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B isoform X4 [Mus musculus] | 2.242    |
| ENSMUSG0000000026667 | Uhmk1 | serine/threonine-protein kinase Kist isoform 1 [Mus musculus]              | 2.238    |
| ENSMUSG0000000002109 | Ddb2 | DNA damage-binding protein 2 [Mus musculus]                                 | 2.238    |
| ENSMUSG00000000024290 | Rock1 | rho-associated protein kinase 1 [Mus musculus]                              | 2.230    |
| ENSMUSG00000000026409 | Pfkfb2 | 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2 isoform X5 [Mus caroli] | 2.229    |
| ENSMUSG00000000026490 | Cdc42bpa | Cdc42bpa protein [Mus musculus]                                            | 2.228    |
| ENSMUSG00000000031644 | Nek1 | mKIAA1901 protein, partial [Mus musculus]                                   | 2.221    |
| ENSMUSG00000000040661 | Rad54l2 | Rad54 like 2 (S. cerevisiae) [Mus musculus]                                 | 2.218    |
| ENSMUSG00000000032384 | Csnk1g1 | casein kinase 1, gamma 1, partial [Mus musculus]                            | 2.209    |
| ID              | Gene Symbol | Description                                                                 | Quantity |
|-----------------|-------------|------------------------------------------------------------------------------|----------|
| ENSMUSG000000054737 | Zfp182      | zinc finger protein 182, isoform CRA_a [Mus musculus]                        | 2.205    |
| ENSMUSG000000022263 | Trio        | triple functional domain protein [Mus musculus]                              | 2.202    |
| ENSMUSG000000041235 | Chd7        | chromodomain-helicase-DNA-binding protein 7 isoform X1 [Mus pahari]          | 2.190    |
| ENSMUSG000000043535 | Setx        | probable helicase senataxin [Mus musculus]                                  | 2.190    |
| ENSMUSG000000052942 | Glis3       | zinc finger protein GLIS3 isoform 1 [Mus musculus]                          | 2.184    |
| ENSMUSG000000027799 | Nbea        | neurobeachin [Mus musculus]                                                | 2.175    |
| ENSMUSG000000038146 | Notch3      | neurogenic locus notch homolog protein 3 precursor [Mus musculus]           | 2.175    |
| ENSMUSG000000037826 | Ppm1k       | protein phosphatase 1K, mitochondrial precursor [Mus musculus]              | 2.171    |
| ENSMUSG000000053877 | Srcap       | helicase SRCAP [Mus musculus]                                              | 2.160    |
| ENSMUSG000000030201 | Lrp6        | low-density lipoprotein receptor-related protein 6 precursor [Mus musculus] | 2.156    |
| ENSMUSG000000025949 | Pikfyve     | 1-phosphatidylinositol 3-phosphate 5-kinase isoform 1 [Mus musculus]        | 2.155    |
| Gene Name | Description                                    | Annotation                          | Score |
|----------|------------------------------------------------|-------------------------------------|-------|
| ENSMUSG00000063663 | Brwd3 bromodomain and WD repeat-containing protein 3 [Mus musculus] |                                    | 2.143 |
| ENSMUSG00000029238 | Clock mKIAA0334 protein, partial [Mus musculus] |                                    | 2.132 |
| ENSMUSG00000007613 | Tgfbr1 TGF-beta receptor type-1 isoform X1 [Mus pahari] |                                    | 2.128 |
| ENSMUSG00000022811 | Zfp148 zinc finger protein 148 [Mus musculus] |                                    | 2.121 |
| ENSMUSG000000095253 | Zfp799 zinc finger protein 799 isoform 1 [Mus musculus] |                                    | 2.120 |
| ENSMUSG000000021318 | Gli3 transcriptional activator GLI3 [Mus musculus] |                                    | 2.119 |
| ENSMUSG000000021488 | Nsd1 histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific [Mus musculus] |                                    | 2.105 |
| ENSMUSG000000062949 | Atp11c phospholipid-transporting ATPase 11C isoform a [Mus musculus] |                                    | 2.091 |
| ENSMUSG000000042225 | Ammece r1 PREDICTED: AMME syndrome candidate gene 1 protein [Fukomys damarensis] |                                    | 2.091 |
| ENSMUSG000000046743 | Fat4 protocadherin Fat 4 precursor [Mus musculus] |                                    | 2.089 |
| Gene ID       | Gene Symbol | Description                                                                 | Log2 Fold Change |
|--------------|-------------|-----------------------------------------------------------------------------|-----------------|
| ENSMUSG00000027737 | Slc7a11    | cystine/glutamate transporter [Mus musculus]                                | 2.089           |
| ENSMUSG00000057110 | Cntrl      | PREDICTED: centriolin isoform X1 [Mus musculus]                             | 2.082           |
| ENSMUSG00000031433 | Rbm41      | RNA-binding protein 41 isoform 4 [Mus musculus]                             | 2.075           |
| ENSMUSG00000049076 | Acap2      | arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2 [Mus musculus] | 2.068           |
| ENSMUSG00000067942 | Zfp160     | zinc finger protein 160 [Mus musculus]                                      | 2.061           |
| ENSMUSG00000040433 | Zbtb38     | zinc finger and BTB domain-containing protein 38 [Mus musculus]             | 2.061           |
| ENSMUSG00000024122 | Pdpk1      | 3-phosphoinositide-dependent protein kinase 1 isoform X1 [Mus caroli]       | 2.060           |
| ENSMUSG00000022623 | Shank3     | Proline rich synapse associated protein 2 [Rattus norvegicus]               | 2.056           |
| ENSMUSG00000039789 | Zfp597     | zinc finger protein 597 [Mus musculus]                                      | 2.054           |
| ENSMUSG00000026604 | Ptpn14     | tyrosine-protein phosphatase non-receptor type 14 [Mus musculus]             | 2.054           |
| ENSMUSG00000040433 | Zfp937     | zinc finger protein family member [Mus musculus]                            | 2.052           |
| Accession     | Symbol  | Description                                                                 | Expression |
|--------------|---------|-----------------------------------------------------------------------------|------------|
| ENSMUSG000000051285 | Pcmtd1 | PREDICTED: protein-L-isoaspartate O-methyltransferase domain-containing protein 1 [Microtus ochrogaster] | 2.051      |
| ENSMUSG000000078606 | Gm4070 | interferon-induced very large GTPase 1 [Mus musculus]                       | 2.050      |
| ENSMUSG000000003119 | Cdk12  | cyclin-dependent kinase 12 isoform X1 [Mus caroli]                          | 2.048      |
| ENSMUSG000000021709 | Erbb2ip| erbin isoform 1 [Mus musculus]                                              | 2.042      |
| ENSMUSG000000024276 | Zfp397 | zinc finger protein 397 [Mus musculus]                                      | 2.040      |
| ENSMUSG000000066324 | Impad1 | inositol monophosphatase 3 [Mus musculus]                                   | 2.039      |
| ENSMUSG000000021754 | Map3k1 | mitogen-activated protein kinase kinase 1 [Mus musculus]                    | 2.036      |
| ENSMUSG000000027630 | Tbl1xr1| F-box-like/WD repeat-containing protein TBL1XR1 [Mus musculus]             | 2.033      |
| ENSMUSG000000041459 | Tardbp | TAR DNA-binding protein 43 isoform 1 [Mus musculus]                         | 2.031      |
| ENSMUSG000000034206 | Polq   | DNA polymerase theta isoform 1 [Mus musculus]                               | 2.030      |
| Accession       | Description                                                                 | Value  |
|-----------------|-----------------------------------------------------------------------------|--------|
| ENSMUSG00000041440 | Gk5 PREDICTED: putative glycerol kinase 5 isoform X1 [Mus musculus]       | 2.029  |
| ENSMUSG00000033209 | Ttc28 tetratricopeptide repeat protein 28 [Mus musculus]                  | 2.029  |
| ENSMUSG00000001280 | Sp1 transcription factor Sp1 [Mus musculus]                                 | 2.028  |
| ENSMUSG00000051323 | Pcdh19 protocadherin-19 isoform a precursor [Mus musculus]                | 2.020  |
| ENSMUSG00000025323 | Sp4 trans-acting transcription factor 4, partial [Mus musculus]           | 2.017  |
| ENSMUSG00000044791 | Setd2 histone-lysine N-methyltransferase SETD2 [Mus musculus]             | 2.009  |
| ENSMUSG00000050192 | Eif5a2 LOW QUALITY PROTEIN: eukaryotic translation initiation factor 5A-2 [Cavia porcellus] | 2.007  |
| ENSMUSG000000003929 | Zfp81 zinc finger protein 81 [Mus musculus]                                | 2.006  |
| ENSMUSG00000051790 | Nlgn2 neuroligin-2 precursor [Mus musculus]                                | 2.005  |
| ENSMUSG00000060510 | Zfp266 zinc finger protein 426-like [Mus musculus]                         | 2.004  |
| ENSMUSG0000000184 | Igflr insulin-like growth factor 1 receptor                                | 1.998  |
| gene_id       | symbol  | description                              | log2fc |
|--------------|---------|------------------------------------------|--------|
| ENSMUSG000000021870 | Slmap   | sarcolemmal membrane-associated protein isoform 1 [Mus musculus] | 1.994  |
| ENSMUSG000000024241 | Sos1    | son of sevenless homolog 1 [Mus musculus] | 1.989  |
| ENSMUSG000000037111 | Setd7   | mKIAA1717 protein, partial [Mus musculus] | 1.988  |
| ENSMUSG000000074220 | Zfp382  | zinc finger protein 382 [Mus musculus] | 1.986  |
| ENSMUSG000000032332 | Col12a1 | collagen alpha-1(XII) chain isoform X3 [Mus caroli] | 1.985  |
| ENSMUSG000000030759 | Far1    | fatty acyl-CoA reductase 1 isoform 1 [Mus musculus] | 1.985  |
| ENSMUSG000000024085 | Man2a1  | alpha-mannosidase 2 [Mus musculus] | 1.978  |
| ENSMUSG000000031004 | Mki67   | proliferation marker protein Ki-67 [Mus musculus] | 1.976  |
| ENSMUSG000000045868 | Gvin1   | interferon-induced very large GTPase 1 [Mus musculus] | 1.974  |
| ENSMUSG000000024462 | Gabbr1  | PREDICTED: gamma-aminobutyric acid type B receptor subunit 1 isoform X1 [Rattus norvegicus] | 1.970  |
| Accession | Description                                      | Symbol | Function/Protein Name                                         | Species          | Gene Expression |
|-----------|--------------------------------------------------|--------|---------------------------------------------------------------|------------------|-----------------|
| ENSMUSG000000014786 | sodium/hydrogen exchanger 5 precursor [Mus musculus] | Slc9a5 | [Mus musculus]                                                | 1.969            |
| ENSMUSG000000032097 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 6, isoform CRA_a, partial [Mus musculus] | Ddx6   | [Mus musculus]                                                | 1.965            |
| ENSMUSG000000025092 | heat shock 70 kDa protein 12A isoform 2 [Mus musculus] | Hspa12a | [Mus musculus]                                                | 1.963            |
| ENSMUSG000000062901 | kelch-like protein 24 [Mus musculus] | Klhl24  | [Mus musculus]                                                | 1.961            |
| ENSMUSG000000014498 | serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit C [Mus musculus] | Ankrd52 | [Mus musculus]                                                | 1.957            |
| ENSMUSG000000032293 | iron-responsive element-binding protein 2 [Mus musculus] | Ireb2  | [Mus musculus]                                                | 1.956            |
| ENSMUSG000000005534 | insulin receptor isoform A preproprotein [Mus musculus] | Insr   | [Mus musculus]                                                | 1.951            |
| ENSMUSG000000054051 | DNA excision repair protein ERCC-6 [Mus musculus] | Ercc6  | [Mus musculus]                                                | 1.946            |
| ENSMUSG000000052920 | cGMP-dependent protein kinase 1 beta isoform [Mus musculus] | Prkg1  | [Mus musculus]                                                | 1.944            |
| ENSMUSG000000024077 | striatin [Mus musculus] | Strn   | [Mus musculus]                                                | 1.941            |
| Accession   | Gene Symbol | Description                                                                 | Ratio |
|-------------|-------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG00000043019 | Edem3       | PREDICTED: ER degradation-enhancing alpha-mannosidase-like protein 3 isoform X2 [Mus musculus] | 1.940 |
| ENSMUSG00000038095 | Sbno1       | protein strawberry notch homolog 1 isoform a [Mus musculus]                | 1.937 |
| ENSMUSG00000035898 | Uba6        | ubiquitin-like modifier-activating enzyme 6 [Mus musculus]                | 1.936 |
| ENSMUSG00000026674 | Ddr2        | discoidin domain-containing receptor 2 precursor [Mus musculus]            | 1.934 |
| ENSMUSG00000053965 | Pde5a       | cGMP-specific 3′,5′-cyclic phosphodiesterase [Mus musculus]                | 1.927 |
| ENSMUSG00000033792 | Atp7a       | copper-transporting ATPase 1 isoform 1 [Mus musculus]                      | 1.923 |
| ENSMUSG00000022360 | Atad2       | ATPase family AAA domain-containing protein 2 [Mus musculus]               | 1.921 |
| ENSMUSG00000028381 | Ugcg        | ceramide glucosyltransferase [Mus musculus]                               | 1.917 |
| ENSMUSG00000022533 | Atp13a3     | probable cation-transporting ATPase 13A3 isoform 1 [Mus musculus]          | 1.907 |
| ENSMUSG00000022228 | Zscan26     | zinc finger and SCAN domain-containing protein 26 isoform a [Mus musculus] | 1.901 |
| ENSMUSG000000 Hipk1 |              | homeodomain-interacting protein kinase 1                                   | 1.900 |
| Accession   | Description                                                                 | Value  |
|-------------|-----------------------------------------------------------------------------|--------|
| 008730      | isoform 1 [Mus musculus]                                                    |        |
| ENSMUSG00000 051098 | metallo-beta-lactamase domain-containing protein 2 [Mus musculus]              | 1.898  |
| ENSMUSG00000 022801 | leucine-rich repeat and calponin homology domain-containing protein 3 isoform 4 [Mus musculus] | 1.896  |
| ENSMUSG00000 028399 | RecName: Full=Receptor-type tyrosine-protein phosphatase delta; Short=Protein-tyrosine phosphatase delta; Short=R-PTP-delta; Flags: Precursor | 1.896  |
| ENSMUSG00000 024140 | endothelial PAS domain-containing protein 1 [Mus musculus]                  | 1.896  |
| ENSMUSG00000 047414 | leucine-rich repeat transmembrane protein FLRT2 precursor [Mus musculus]     | 1.895  |
| ENSMUSG00000 067780 | peptidase inhibitor 15 precursor [Mus musculus]                              | 1.895  |
| ENSMUSG00000 095440 | putative fidgetin-like protein 2 [Mus musculus]                             | 1.890  |
| ENSMUSG00000 032913 | leucine-rich repeats and immunoglobulin-like domains protein 2 isoform 1 precursor [Mus musculus] | 1.889  |
| ENSMUSG00000 002981 | PREDICTED: zinc finger protein 236                                           | 1.888  |
| Code          | Reference                   | Description                                                                 | Score |
|--------------|-----------------------------|----------------------------------------------------------------------------|-------|
| 041258       | isoform X1 [Mus musculus]   |                                                                             |       |
| ENSMUSG00000060224 | Pyroxd2                   | pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2 [Mus musculus] | 1.882 |
| ENSMUSG00000021112 | Mpp5                     | MAGUK p55 subfamily member 5 [Mus musculus]                                | 1.882 |
| ENSMUSG00000035847 | Ids                      | iduronate 2-sulfatase precursor [Mus musculus]                              | 1.881 |
| ENSMUSG00000078671 | Chd2                     | chromodomain-helicase-DNA-binding protein 2 [Mus musculus]                  | 1.870 |
| ENSMUSG00000025892 | Gria4                    | glutamate receptor 4 isoform X3 [Mus pahari]                                | 1.867 |
| ENSMUSG00000058624 | Gda                      | guanine deaminase [Mus musculus]                                            | 1.866 |
| ENSMUSG00000027878 | Notch2                    | neurogenic locus notch homolog protein 2 precursor [Mus musculus]           | 1.866 |
| ENSMUSG00000038205 | Prkab2                    | 5'-AMP-activated protein kinase subunit beta-2 [Mus musculus]                | 1.864 |
| ENSMUSG00000039529 | Atp8b1                    | phospholipid-transporting ATPase IC [Mus musculus]                          | 1.862 |
| ENSMUSG00000053626 | Tll1                      | toloid-like protein 1 precursor [Mus musculus]                              | 1.857 |
| ENSMUSG0000004317 | Clcn5 | H(+)/Cl(-) exchange transporter 5 isoform 2 [Mus musculus] | 1.852 |
|-------------------|-------|----------------------------------------------------------|------|
| ENSMUSG00000037541 | Shank2 | PREDICTED: SH3 and multiple ankyrin repeat domains protein 2 isoform X13 [Mus musculus] | 1.852 |
| ENSMUSG00000040249 | Lrp1 | prolow-density lipoprotein receptor-related protein 1 precursor [Mus musculus] | 1.851 |
| ENSMUSG00000027087 | Itgav | integrin alpha-V precursor [Mus musculus] | 1.846 |
| ENSMUSG00000037926 | Ssh2 | protein phosphatase Slingshot homolog 2 isoform 2 [Mus musculus] | 1.843 |
| ENSMUSG00000031386 | Hcfc1 | PREDICTED: host cell factor 1 isoform X1 [Mus musculus] | 1.842 |
| ENSMUSG00000067851 | Arfgef1 | brefeldin A-inhibited guanine nucleotide-exchange protein 1 [Mus musculus] | 1.842 |
| ENSMUSG00000020362 | Cnot6 | CCR4-NOT transcription complex subunit 6 [Rattus norvegicus] | 1.842 |
| ENSMUSG00000031284 | Pak3 | serine/threonine-protein kinase PAK 3 isoform C [Mus musculus] | 1.841 |
| ENSMUSG00000028763 | Hspg2 | basement membrane-specific heparan sulfate proteoglycan core protein precursor | 1.841 |
| Gene ID       | Gene Symbol | Description                                                   | Log2FoldChange |
|--------------|-------------|---------------------------------------------------------------|---------------|
| ENSMUSG0000096433 | Gm494        | predicted gene 4944 [Mus musculus]                           | 1.840         |
| ENSMUSG0000019907 | Ppp1r12      | protein phosphatase 1 regulatory subunit 12A [Mus musculus]  | 1.837         |
| ENSMUSG0000028233 | Tgs1         | trimethylguanosine synthase [Mus musculus]                  | 1.837         |
| ENSMUSG0000035569 | Ankrd11      | ankyrin repeat domain-containing protein 11 [Mus musculus] | 1.835         |
| ENSMUSG0000034731 | Dgkh         | diacylglycerol kinase eta isoform 1 [Mus musculus]           | 1.834         |
| ENSMUSG0000020721 | Helz         | probable helicase with zinc finger domain [Mus musculus]     | 1.833         |
| ENSMUSG0000018800 | Abca5        | ATP-binding cassette sub-family A member 5 [Mus musculus]    | 1.830         |
| ENSMUSG0000036676 | Tmtc3        | transmembrane and TPR repeat-containing protein 3 isoform 1 [Mus musculus] | 1.827         |
| ENSMUSG00000055884 | Fancm        | Fanconi anemia group M protein homolog [Mus musculus]        | 1.826         |
| ENSMUSG00000021668 | Polk         | DNA polymerase kappa isoform a [Mus musculus]                | 1.825         |
| ENSMUSG00000Suv420 | Suv420      | histone-lysine N-methyltransferase                           | 1.820         |
| ID            | Symbol | Description                                                                 | E-value |
|---------------|--------|-----------------------------------------------------------------------------|---------|
| 045098        | h1     | KMT5B isoform a [Mus musculus]                                               |         |
| ENSMUSG000000| Ep400  | E1A-binding protein p400 isoform 1 [Mus musculus]                           | 1.819   |
| 029505        |        |                                                                              |         |
| ENSMUSG000000| Atp11b | probable phospholipid-transporting ATPase IF [Mus musculus]                  | 1.819   |
| 037400        |        |                                                                              |         |
| ENSMUSG000000| Fktn   | PREDICTED: fukutin isoform X1 [Mus musculus]                                 | 1.816   |
| 028414        |        |                                                                              |         |
| ENSMUSG000000| Ddx17  | Putative ATP-dependent RNA helicase DDX17 [Fukomys damarensis]              | 1.814   |
| 055065        |        |                                                                              |         |
| ENSMUSG000000| Chd6   | chromodomain-helicase-DNA-binding protein 6 [Mus musculus]                  | 1.813   |
| 057133        |        |                                                                              |         |
| ENSMUSG000000| Brwd1  | PREDICTED: bromodomain and WD repeat-containing protein 1 isoform X1 [Mus musculus] | 1.809   |
| 022914        |        |                                                                              |         |
| ENSMUSG000000| Manea  | glycoprotein endo-alpha-1,2-mannosidase [Mus musculus]                      | 1.808   |
| 040520        |        |                                                                              |         |
| ENSMUSG000000| Lrrc8b | volume-regulated anion channel subunit LRRC8B [Mus musculus]                | 1.808   |
| 070639        |        |                                                                              |         |
| ENSMUSG000000| Tmppe  | transmembrane protein with metallophosphoesterase domain [Mus musculus]     | 1.806   |
| 079260        |        |                                                                              |         |
| ENSMUSG000000| Acvr2a | activin receptor type-2A isoform X1 [Mus musculus]                          | 1.804   |
| ENSMUSG00000 | gene    | description                                                                 | Fold Change |
|-------------|---------|-----------------------------------------------------------------------------|------------|
| 031365      | Zfp275  | zinc finger protein 275 isoform 1 [Mus musculus]                             | 1.804      |
| 066800      | Rnasel  | 2-5A-dependent ribonuclease [Mus musculus]                                  | 1.803      |
| 039607      | Rbms3   | RNA-binding motif, single-stranded-interacting protein 3 isoform 4 [Mus musculus] | 1.802      |
| 055204      | Ankrd1 7| ankyrin repeat domain-containing protein 17 isoform a [Mus musculus]         | 1.798      |
| 032855      | Pkd1    | polycystin-1 precursor [Mus musculus]                                       | 1.798      |
| 035247      | Hectd1  | RecName: Full=E3 ubiquitin-protein ligase HECTD1; AltName: Full=HECT domain-containing protein 1; AltName: Full=HECT-type E3 ubiquitin transferase HECTD1; AltName: Full=Protein open mind | 1.796      |
| 017376      | Nlk     | serine/threonine-protein kinase NLK [Mus musculus]                          | 1.791      |
| 022883      | Robo1   | roundabout homolog 1 precursor [Mus musculus]                               | 1.791      |
| Gene ID         | Gene Name                  | Description                                                      | Score |
|----------------|----------------------------|-----------------------------------------------------------------|-------|
| ENSMUSG00000020715 | Ern1                       | serine/threonine-protein kinase/endoribonuclease IRE1 precursor [Mus musculus] | 1.786 |
| ENSMUSG00000000823 | Znf512b                   | Znf512b protein, partial [Mus musculus]                         | 1.785 |
| ENSMUSG00000023026 | Dip2b                     | disco-interacting protein 2 homolog B isoform 1 [Mus musculus] | 1.777 |
| ENSMUSG000000069743 | Zfp820                    | zinc finger protein 820 [Mus musculus]                          | 1.774 |
| ENSMUSG000000069769 | Msi2                      | RNA-binding protein Musashi homolog 2 isoform 1 [Mus musculus] | 1.770 |
| ENSMUSG000000035878 | Hykk                      | RIKEN cDNA C630028N24, isoform CRA_a [Mus musculus]            | 1.770 |
| ENSMUSG000000033624 | Pdpr                      | pyruvate dehydrogenase phosphatase regulatory subunit, mitochondrial precursor [Mus musculus] | 1.770 |
| ENSMUSG000000023852 | Chd1                      | DNA-binding protein [Mus musculus]                             | 1.769 |
| ENSMUSG000000020883 | Fbxl20                    | mKIAA4147 protein, partial [Mus musculus]                      | 1.765 |
| ENSMUSG000000014547 | Wdfy2                     | WD repeat and FYVE domain-containing protein 2 [Mus musculus] | 1.764 |
| Gene ID         | Symbol | Name                                           | Ensembl ID | Expression |
|----------------|--------|------------------------------------------------|------------|------------|
| ENSMUSG00000028080 | Lrba   | lipopolysaccharide-responsive and beige-like anchor protein isoform alpha | ENSMUSG00000028080 | 1.763 |
| ENSMUSG00000037921 | Ddx60  | probable ATP-dependent RNA helicase DDX60 [Mus musculus] | ENSMUSG00000037921 | 1.763 |
| ENSMUSG00000029106 | Add1   | alpha-adducin isoform 1 [Mus musculus] | ENSMUSG00000029106 | 1.763 |
| ENSMUSG00000028197 | Col24a1| collagen alpha-1(XXIV) chain isoform 1 precursor [Mus musculus] | ENSMUSG00000028197 | 1.762 |
| ENSMUSG000000041642 | Kif21b | kinesin-like protein KIF21B [Mus musculus] | ENSMUSG000000041642 | 1.759 |
| ENSMUSG000000028630 | Dyrk2  | dual specificity tyrosine-phosphorylation-regulated kinase 2 [Mus musculus] | ENSMUSG000000028630 | 1.759 |
| ENSMUSG000000067931 | Zfp948 | zinc finger protein 948 [Mus musculus] | ENSMUSG000000067931 | 1.757 |
| ENSMUSG000000030930 | Chst15 | mKIAA0598 protein, partial [Mus musculus] | ENSMUSG000000030930 | 1.754 |
| ENSMUSG000000027130 | S1c12a6| solute carrier family 12 member 6 isoform 2 [Mus musculus] | ENSMUSG000000027130 | 1.752 |
| ENSMUSG000000015533 | Itga2  | VLA-2 homologue [Mus musculus] | ENSMUSG000000015533 | 1.749 |
| Gene ID     | Symbol | Description                                                                 | Expression Ratio |
|------------|--------|-----------------------------------------------------------------------------|------------------|
| ENSMUSG00000022822 | Abcc5  | multidrug resistance-associated protein 5 isoform 1 [Mus musculus]         | 1.747            |
| ENSMUSG00000056124 | B4galt6 | beta-1,4-galactosyltransferase 6 [Mus musculus]                             | 1.746            |
| ENSMUSG00000027340 | Slc23a2 | solute carrier family 23 member 2 isoform a [Mus musculus]                 | 1.739            |
| ENSMUSG00000027580 | Helz2  | PREDICTED: helicase with zinc finger domain 2 isoform X3 [Mus musculus]     | 1.737            |
| ENSMUSG00000039633 | Lonrf1 | LON peptidase N-terminal domain and RING finger protein 1 [Mus musculus]    | 1.734            |
| ENSMUSG00000025314 | Ptprj  | receptor-type tyrosine-protein phosphatase eta isoform 1 [Mus musculus]     | 1.734            |
| ENSMUSG00000015243 | Abca1  | ATP-binding cassette sub-family A member 1 [Mus musculus]                   | 1.733            |
| ENSMUSG00000036093 | Arl5a  | ADP-ribosylation factor-like protein 5A [Mus musculus]                      | 1.733            |
| ENSMUSG00000005802 | Slc30a4 | zinc transporter 4 isoform a [Mus musculus]                                 | 1.733            |
| ENSMUSG000000031309 | Rps6ka3 | ribosomal protein S6 kinase alpha-3 isoform 1 [Mus musculus]               | 1.730            |
| ENSMUSG000000033565 | Rbfox2 | RNA binding protein fox-1 homolog 2 isoform 1 [Mus musculus]               | 1.725            |
| Gene ID       | Description                                                                 | Description                                                                 | Ratio  |
|--------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------|
| ENSMUSG000000028246 | Thioredoxin-like fold containing protein [Cricetulus griseus] | PREDICTED: serine/threonine-protein kinase PRP4 homolog [Peromyscus maniculatus bairdii] | 1.725  |
| ENSMUSG000000021413 | probable phospholipid-transporting ATPase IH isoform 1 [Mus musculus] | RNA-binding motif, single-stranded-interacting protein 1 isoform 1 [Mus musculus] | 1.719  |
| ENSMUSG000000031441 | SRSF protein kinase 2 isoform b [Mus musculus] | apoptotic protease-activating factor 1 isoform 1 [Mus musculus] | 1.716  |
| ENSMUSG000000026970 | DNAJ homolog subfamily B member 14 [Mus musculus] | protein kinase C epsilon type [Mus musculus] | 1.713  |
| ENSMUSG000000019979 | TATA-binding protein-associated factor 172 [Mus musculus] | zinc finger protein 658 [Mus musculus] | 1.712  |
| ENSMUSG00000034724 | Cnot6l | CCR4-NOT transcription complex subunit 6-like isoform 2 [Mus musculus] | 1.711 |
|---------------------|--------|---------------------------------------------------------------------|------|
| ENSMUSG00000040118  | Cacna2d1 | voltage-dependent calcium channel subunit alpha-2/delta-1 isoform a preproprotein [Mus musculus] | 1.711 |
| ENSMUSG00000017485  | Top2b   | DNA topoisomerase 2-beta [Mus musculus] | 1.708 |
| ENSMUSG00000027288  | Zfp106  | zinc finger protein 106 [Mus musculus] | 1.706 |
| ENSMUSG000000006307 | Kmt2b  | PREDICTED: histone-lysine N-methyltransferase 2B isoform X1 [Mus musculus] | 1.706 |
| ENSMUSG00000016756  | Cmah    | cytidine monophosphate-N-acetylneuraminic acid hydroxylase isoform a [Mus musculus] | 1.703 |
| ENSMUSG000000074698  | Csnk2a1 | casein kinase II subunit alpha [Mus musculus] | 1.700 |
| ENSMUSG000000031608  | Galnt7  | N-acetylgalactosaminyltransferase 7 isoform 1 [Mus musculus] | 1.700 |
| ENSMUSG000000029992  | Gfpt1   | RecName: Full=Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1; | 1.697 |
| Gene ID         | Gene Symbol | Description                                                                 | Log2 Fold Change |
|----------------|-------------|-----------------------------------------------------------------------------|------------------|
| ENSMUSG00000015944 | Gatsl2      | Cytosolic arginine sensor for mTORC1 subunit 2 [Mus musculus]               | 1.695            |
| ENSMUSG00000028369 | Svep1       | Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1 precursor [Mus musculus] | 1.694            |
| ENSMUSG00000031290 | Lrch2       | Leucine-rich repeat and calponin homology domain-containing protein 2 isoform 1 [Mus musculus] | 1.692            |
| ENSMUSG00000054509 | Parp4       | Poly [ADP-ribose] polymerase 4 [Mus musculus]                               | 1.687            |
| ENSMUSG00000028030 | Tbck        | TBC domain-containing protein kinase-like protein [Mus musculus]            | 1.684            |
| ENSMUSG00000024597 | Slc12a2     | Solute carrier family 12 member 2 [Mus musculus]                           | 1.683            |
| ENSMUSG00000027589 | Pcmtd2      | Protein-L-isoaspartate O-methyltransferase domain-containing protein 2 isoform a | 1.683            |
| Ensembl ID   | Symbol | Description                                           | Value |
|--------------|--------|-------------------------------------------------------|-------|
| ENSMUSG000000040274 | Cdk6   | cyclin-dependent kinase 6 [Mus musculus]               | 1.681 |
| ENSMUSG000000032624 | Eml4   | echinoderm microtubule-associated protein-like 4 isoform 1 [Mus musculus] | 1.680 |
| ENSMUSG000000032558 | Nphp3  | nephrocystin-3 isoform a [Mus musculus]                | 1.679 |
| ENSMUSG000000032308 | Ulk3   | serine/threonine-protein kinase ULK3 [Mus musculus]    | 1.678 |
| ENSMUSG000000036943 | Rab8b  | ras-related protein Rab-8B [Rattus norvegicus]        | 1.677 |
| ENSMUSG000000020687 | Cdc27  | PREDICTED: cell division cycle protein 27 homolog isoform X1 [Mus musculus] | 1.674 |
| ENSMUSG000000075595 | Zfp652 | zinc finger protein 652 [Mus musculus]                 | 1.674 |
| ENSMUSG000000019796 | Lrp11  | low-density lipoprotein receptor-related protein 11 isoform 1 precursor [Mus musculus] | 1.673 |
| ENSMUSG000000025060 | Sk     | STE20-like serine/threonine-protein kinase isoform 1 [Mus musculus] | 1.673 |
| ENSMUSG000000032621 | Srek1  | PREDICTED: splicing regulatory glutamine/lysine-rich protein 1 isoform X3 | 1.672 |
| Gene ID           | Symbol   | Description                                                                 | Ensembl ID | Value  |
|------------------|----------|------------------------------------------------------------------------------|------------|--------|
| ENSMUSG000000005198 | Polr2a   | RNA polymerase II largest subunit [Mus musculus]                           | 1.671      |
| ENSMUSG00000022292 | Rrm2b    | ribonucleoside-diphosphate reductase subunit M2 B isoform 1 [Mus musculus]  | 1.671      |
| ENSMUSG00000025810 | Nrp1     | neuropilin-1 isoform X1 [Mus pahari]                                       | 1.668      |
| ENSMUSG00000027778 | Ift80    | intraflagellar transport protein 80 homolog [Mus musculus]                 | 1.668      |
| ENSMUSG00000042410 | Agps     | alkyldihydroxyacetonephosphate synthase, peroxisomal [Mus musculus]        | 1.666      |
| ENSMUSG00000053774 | Ubxn7    | UBX domain-containing protein 7 [Mus musculus]                             | 1.665      |
| ENSMUSG00000014932 | Yes1     | tyrosine-protein kinase Yes [Mus musculus]                                 | 1.663      |
| ENSMUSG00000033902 | Mapkbp1  | mitogen-activated protein kinase-binding protein 1 isoform 2 [Mus musculus]| 1.663      |
| ENSMUSG00000035798 | Zdhhc17  | palmitoyltransferase ZDHHC17 isoform 1 [Mus musculus]                      | 1.661      |
| ENSMUSG00000029920 | Smarca d1| SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A containing DEAD/H box 1 | 1.659      |
| Gene ID       | Gene Symbol | Description                                                                 | Log2 Fold Change |
|--------------|-------------|-----------------------------------------------------------------------------|------------------|
| ENSMUSG000000029516 | Cit         | PREDICTED: citron Rho-interacting kinase isoform X8 [Mus musculus]          | 1.658            |
| ENSMUSG000000027966 | Coll11a1    | collagen alpha-1(XI) chain preproprotein [Mus musculus]                     | 1.657            |
| ENSMUSG000000032243 | Itga11      | integrin alpha-11 precursor [Mus musculus]                                  | 1.656            |
| ENSMUSG000000022048 | Dpysl2      | dihydropyrimidinase-related protein 2 [Mus musculus]                       | 1.655            |
| ENSMUSG000000054008 | Ndst1       | bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1-like protein [Cricetulus griseus] | 1.654            |
| ENSMUSG000000014496 | Ankrd2      | ankyrin repeat domain 28, isoform CRA_a, partial [Mus musculus]            | 1.651            |
| ENSMUSG000000037369 | Kdm6a       | lysine-specific demethylase 6A isoform 1 [Mus musculus]                    | 1.650            |
| ENSMUSG000000034663 | Bmp2k       | BMP-2-inducible protein kinase [Mus musculus]                              | 1.650            |
| ENSMUSG000000028312 | Smc2        | structural maintenance of chromosomes protein 2 [Mus musculus]             | 1.648            |
| ENSMUSG000000038774 | Ascc3       | activating signal cointegrator 1 complex subunit 3 [Mus musculus]          | 1.647            |
| Gene ID          | Name                       | Description                                                                 | Ratio |
|-----------------|----------------------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000057982 | Zfp809                     | zinc finger protein 809 isoform 1 [Mus musculus]                            | 1.646 |
| ENSMUSG000000029406 | Pitpm2                     | membrane-associated phosphatidylinositol transfer protein 2 isoform 2 [Mus musculus] | 1.646 |
| ENSMUSG000000028086 | Fbxw7                      | F-box and WD-40 domain protein 7, archipelago homolog (Drosophila), isoform CRA_b, partial [Mus musculus] | 1.646 |
| ENSMUSG000000020899 | Pfas                       | phosphoribosylformylglycinamidine synthase [Mus musculus]                    | 1.646 |
| ENSMUSG000000037343 | Taf2                       | transcription initiation factor TFIID subunit 2 [Mus musculus]              | 1.644 |
| ENSMUSG000000021959 | Lats2                      | large tumor suppressor 2, isoform CRA_b, partial [Mus musculus]              | 1.642 |
| ENSMUSG000000031166 | Wdr13                      | WD repeat-containing protein 13 isoform 1 [Mus musculus]                    | 1.642 |
| ENSMUSG000000021614 | Vcan                       | mCG116562, isoform CRA_b, partial [Mus musculus]                             | 1.642 |
| ENSMUSG000000034320 | Slep2                      | sulfate transporter [Mus musculus]                                          | 1.641 |
| ENSMUSG000000029674 | Limk1                      | LIM domain kinase 1 isoform 1 [Mus musculus]                                | 1.641 |
| Gene ID        | Gene Symbol | Description                                                                 | Score |
|---------------|-------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000057551 | Zfp317      | zinc finger protein 317 [Mus musculus]                                       | 1.640 |
| ENSMUSG000000046351 | Zfp322a     | zinc finger protein 322 [Mus musculus]                                       | 1.639 |
| ENSMUSG000000032560 | Dnajc13     | dnaJ homolog subfamily C member 13 isoform 1 [Mus musculus]                 | 1.638 |
| ENSMUSG000000030084 | P1xna1      | plexin-A1 precursor [Mus musculus]                                           | 1.635 |
| ENSMUSG000000075040 | Zfp408      | zinc finger protein 408 isoform 1 [Mus musculus]                            | 1.633 |
| ENSMUSG000000024811 | Tnks2       | tankyrase-2 [Mus musculus]                                                  | 1.629 |
| ENSMUSG000000029729 | Zkscan1     | zinc finger protein with KRAB and SCAN domains 1 isoform 1 [Mus musculus]   | 1.629 |
| ENSMUSG000000052539 | Magi3       | membrane-associated guanylate kinase, WW and PDZ domain-containing protein 3 isoform 1 [Mus musculus] | 1.629 |
| ENSMUSG000000034154 | Ino80       | DNA helicase INO80 [Mus musculus]                                            | 1.629 |
| ENSMUSG000000004085 | Zak         | mitogen-activated protein kinase kinase 20 isoform 1 [Mus musculus]         | 1.628 |
| ENSMUSG0000000          | Clcn3       | H(+)/Cl(-) exchange transporter 3 isoform                                     | 1.628 |
| Gene ID       | Symbol | Description                                                                 | Expression |
|--------------|--------|------------------------------------------------------------------------------|------------|
| ENSMUSG000000| Prkx   | cAMP-dependent protein kinase catalytic subunit PRKX [Mus musculus]          | 1.627      |
| 035725       | Fem1c  | protein fem-1 homolog C [Mus musculus]                                      | 1.626      |
| ENSMUSG000000| Lrrk2  | leucine-rich repeat serine/threonine-protein kinase 2 [Mus musculus]         | 1.626      |
| 036273       | Zswim6 | zinc finger SWIM domain-containing protein 6 [Mus musculus]                  | 1.625      |
| ENSMUSG000000| Cyp1b1 | cytochrome P450 1B1 [Mus musculus]                                          | 1.624      |
| 024087       | Strn3  | striatin-3 isoform 1 [Mus musculus]                                         | 1.621      |
| ENSMUSG000000| Lmtk2  | serine/threonine-protein kinase LMTK2 precursor [Mus musculus]              | 1.619      |
| 038970       | Dclk1  | serine/threonine-protein kinase DCLK1 isoform 1 [Mus musculus]              | 1.618      |
| ENSMUSG000000| Tmx3   | protein disulfide-isomerase TMX3 precursor [Mus musculus]                   | 1.617      |
| 024614       | Sle6a6 | sodium- and chloride-dependent taurine transporter [Mus musculus]           | 1.617      |
| Gene Symbol | Description                                                                 | Log2 Fold Change |
|-------------|------------------------------------------------------------------------------|------------------|
| ENSMUSG00000056383 | mCG55139, isoform CRA_c, partial [Mus musculus] | 1.617 |
| ENSMUSG00000041915 | AMMECR1-like protein isoform 2 [Mus musculus] | 1.615 |
| ENSMUSG00000044807 | mKIAA4218 protein, partial [Mus musculus] | 1.615 |
| ENSMUSG00000029016 | chloride transport protein 6 [Mus musculus] | 1.615 |
| ENSMUSG00000070923 | mKIAA1354 protein, partial [Mus musculus] | 1.614 |
| ENSMUSG00000037643 | protein kinase C iota type [Mus musculus] | 1.614 |
| ENSMUSG00000027109 | transcription factor Sp3 isoform 1 [Mus musculus] | 1.613 |
| ENSMUSG00000052040 | Krueppel-like factor 13 [Mus musculus] | 1.612 |
| ENSMUSG00000039202 | monoacylglycerol lipase ABHD2 [Mus musculus] | 1.611 |
| ENSMUSG00000034653 | probable ATP-dependent RNA helicase YTHDC2 [Mus musculus] | 1.609 |
| ENSMUSG00000020273 | poly(A) polymerase gamma [Mus musculus] | 1.608 |
| Gene ID          | Symbol | Description                                                                 | Log2 Fold Change |
|-----------------|--------|-----------------------------------------------------------------------------|-----------------|
| ENSMUSG00000005371 | Fbxo11 | F-box only protein 11 isoform X2 [Mus pahari]                               | 1.604           |
| ENSMUSG000000072623 | Zfp9   | zinc finger protein 25 [Mus musculus]                                       | 1.604           |
| ENSMUSG000000031278 | Acsl4  | acyl-CoA synthase long-chain family member 4, isoform CRA_a, partial [Mus musculus] | 1.603           |
| ENSMUSG000000048410 | Zfp407 | zinc finger protein 407 [Mus musculus]                                      | 1.599           |
| ENSMUSG000000021796 | Bmpr1a | bone morphogenetic protein receptor type-1A precursor [Mus musculus]        | 1.596           |
| ENSMUSG000000027312 | Atrn   | attractin preproprotein [Mus musculus]                                      | 1.592           |
| ENSMUSG000000020661 | Dnmt3a | DNA (cytosine-5)-methyltransferase 3A isoform 1 [Mus musculus]              | 1.589           |
| ENSMUSG000000043090 | Zfp866 | zinc finger protein 866 [Mus musculus]                                      | 1.588           |
| ENSMUSG000000019699 | Akt3   | RAC-gamma serine/threonine-protein kinase [Mus musculus]                    | 1.584           |
| ENSMUSG000000041415 | Dicer1 | Dicer1, Dcr-1 homolog (Drosophila), isoform CRA_b, partial [Mus musculus]   | 1.583           |
| ENSMUSG000000061922 | Tanc1  | protein TANC1 isoform a [Mus musculus]                                     | 1.574           |
| ID          | Description                                      | Symbol   | Description                                         | Value  |
|-------------|--------------------------------------------------|----------|-----------------------------------------------------|--------|
| 035168      | tyrosine-protein phosphatase non-receptor type 21 [Mus musculus] | Ptpn21   |                                                     | 1.572  |
| ENSMUSG000000021009 | lymphocyte antigen 75 precursor [Mus musculus] | Ly75     |                                                     | 1.568  |
| ENSMUSG000000026980 | krev interaction trapped protein 1 isoform 1 [Mus musculus] | Krit1    |                                                     | 1.566  |
| ENSMUSG000000000600 | Krueppel-like factor 9 [Mus musculus] | Klf9     |                                                     | 1.565  |
| ENSMUSG000000022897 | dual specificity tyrosine-phosphorylation-regulated kinase 1A isoform 1 [Mus musculus] | Dyrk1a   |                                                     | 1.563  |
| ENSMUSG000000036333 | kinase D-interacting substrate of 220 kDa [Mus musculus] | Kidins20  |                                                     | 1.561  |
| ENSMUSG000000040351 | mKIAA1386 protein, partial [Mus musculus] | Ankib1   |                                                     | 1.560  |
| ENSMUSG000000036959 | BCL-6 corepressor-like protein 1 [Mus musculus] | Bcorl1   |                                                     | 1.559  |
| ENSMUSG000000024943 | mCG5312, isoform CRA_b, partial [Mus musculus] | Smc5     |                                                     | 1.557  |
| ENSMUSG000000005397 | nidogen-1 precursor [Mus musculus] | Nid1     |                                                     | 1.555  |
| Accession   | Gene Symbol | Description                                                                 | Log2 Fold Change |
|-------------|-------------|-----------------------------------------------------------------------------|-----------------|
| ENSMUSG00000032252 | Glce | D-glucuronyl C5-epimerase [Mus musculus]                                   | 1.555           |
| ENSMUSG00000022601 | Zbtb11 | zinc finger and BTB domain-containing protein 11 [Mus musculus]            | 1.554           |
| ENSMUSG00000026313 | Hdac4 | histone deacetylase 4 [Mus musculus]                                       | 1.553           |
| ENSMUSG00000041313 | Slc7a1 | solute carrier family 7 (cationic amino acid transporter, y+ system), member 1, partial [Mus musculus] | 1.552 |
| ENSMUSG00000021111 | Papola | poly(A) polymerase alpha isoform 1 [Mus musculus]                          | 1.549           |
| ENSMUSG00000020841 | Cpd | carboxypeptidase D precursor [Mus musculus]                                | 1.548           |
| ENSMUSG000000070867 | Trabd2b | metalloprotease TIKI2 precursor [Mus musculus]                            | 1.548           |
| ENSMUSG00000026781 | Acbd5 | acyl-CoA-binding domain-containing protein 5 isoform a precursor [Mus musculus] | 1.548 |
| ENSMUSG00000025266 | Gnl3I | guanine nucleotide-binding protein-like 3-like protein [Mus musculus]     | 1.542           |
| ENSMUSG000000036282 | Naa30 | N-alpha-acetyltransferase 30 [Mus musculus]                                | 1.542           |
| Accession     | Gene      | Description                                                                 | Fold Change |
|--------------|-----------|------------------------------------------------------------------------------|-------------|
| ENSMUSG000000022770 | Dlg1      | disks large homolog 1 isoform 1 [Mus musculus]                               | 1.540       |
| ENSMUSG000000021327 | Zkscan3   | zinc finger protein with KRAB and SCAN domains 3 [Mus musculus]              | 1.538       |
| ENSMUSG000000053754 | Chd8      | chromodomain-helicase-DNA-binding protein 8 [Mus musculus]                   | 1.536       |
| ENSMUSG000000022797 | Tfrf      | transferrin receptor protein 1 [Mus musculus]                                | 1.535       |
| ENSMUSG000000028207 | Asph      | aspartyl/asparaginyl beta-hydroxylase isoform 1 [Mus musculus]               | 1.534       |
| ENSMUSG000000026102 | Inpp1     | inositol polyphosphate 1-phosphatase [Mus musculus]                          | 1.534       |
| ENSMUSG000000038733 | Wdr26     | WD repeat-containing protein 26 [Mus musculus]                               | 1.534       |
| ENSMUSG000000032194 | Kank2     | KN motif and ankyrin repeat domain-containing protein 2 [Mus musculus]       | 1.533       |
| ENSMUSG000000032601 | Prkar2a   | cAMP-dependent protein kinase type II-alpha regulatory subunit [Mus musculus] | 1.532       |
| ENSMUSG000000022994 | Adey6     | adenylate cyclase type 6 [Mus musculus]                                      | 1.529       |
| Ensembl ID     | Gene Symbol | Gene Name | Description                                                                 | Fold Change |
|---------------|-------------|-----------|------------------------------------------------------------------------------|-------------|
| ENSMUSG000000013236 | Ptprs      | receptor-type tyrosine-protein phosphatase S isoform 1 precursor [Mus musculus] | 1.529       |
| ENSMUSG000000021147 | Wdr37      | WD repeat-containing protein 37 isoform a [Mus musculus]                      | 1.528       |
| ENSMUSG000000029231 | Pdgfra     | platelet-derived growth factor receptor alpha isoform 1 precursor [Mus musculus] | 1.527       |
| ENSMUSG000000044864 | Ankrd50    | PREDICTED: ankyrin repeat domain-containing protein 50 isoform X1 [Mus musculus] | 1.525       |
| ENSMUSG000000034422 | Parp14     | poly [ADP-ribose] polymerase 14 [Mus musculus]                               | 1.525       |
| ENSMUSG000000021745 | Ptprg      | receptor-type tyrosine-protein phosphatase gamma isoform 1 precursor [Mus musculus] | 1.523       |
| ENSMUSG000000020256 | Aldh12     | mitochondrial 10-formyltetrahydrofolate dehydrogenase [Mus musculus]         | 1.523       |
| ENSMUSG000000032244 | Fem1b      | protein fem-1 homolog B [Mus musculus]                                       | 1.522       |
| ENSMUSG000000002428 | Hltf       | helicase-like transcription factor [Mus musculus]                            | 1.521       |
| ENSMUSG000000029648 | Flt1       | vascular endothelial growth factor receptor 1 precursor [Mus musculus]       | 1.519       |
| Gene ID       | Symbol | Description                                                                 | Ratio |
|--------------|--------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000037112 | Sik2   | serine/threonine-protein kinase SIK2 [Mus musculus]                        | 1.518 |
| ENSMUSG000000020385 | Clk4   | dual specificity protein kinase CLK4 isoform 1 [Mus musculus]              | 1.517 |
| ENSMUSG000000017677 | Wsb1   | WD repeat and SOCS box-containing protein 1 isoform 1 [Mus musculus]       | 1.517 |
| ENSMUSG000000006281 | Tep1   | telomerase protein component 1 [Mus musculus]                              | 1.516 |
| ENSMUSG000000034312 | Iqsec1 | PREDICTED: IQ motif and SEC7 domain-containing protein 1 isoform X7 [Mus musculus] | 1.516 |
| ENSMUSG000000005506 | Celf1  | CUGBP Elav-like family member 1 isoform 1 [Mus musculus]                  | 1.510 |
| ENSMUSG000000032393 | Dpp8   | dipeptidylpeptidase 8, isoform CRA_a, partial [Mus musculus]               | 1.510 |
| ENSMUSG000000035469 | Rcbtb1 | RCC1 and BTB domain-containing protein 1 isoform 1 [Mus musculus]          | 1.509 |
| ENSMUSG000000024242 | Map4k3 | mitogen-activated protein kinase kinase kinase kinase 3 isoform 1 [Mus musculus] | 1.508 |
| ENSMUSG000000024754 | Tmem2  | cell surface hyaluronidase [Mus musculus]                                  | 1.508 |
| ENSMUSG0000000 Wdr7 | WD repeat-containing protein 7 isoform 1                                   | 1.507 |
| Accession  | protein ID   | protein Name                                       | expression value |
|------------|--------------|----------------------------------------------------|------------------|
| ENSEMBL     | Chd3         | chromodomain-helicase-DNA-binding protein 3 [Mus musculus] | 1.506            |
|            | Kirrel       | kin of IRRE-like protein 1 precursor [Mus musculus]  | 1.506            |
|            | Kras         | PREDICTED: GTPase KRas isoform X1 [Mus musculus]    | 1.503            |
|            | Usp33        | ubiquitin carboxyl-terminal hydrolase 33 isoform 1 [Mus musculus] | 1.502            |
|            | Trim2        | tripartite motif-containing protein 2 isoform 1 [Mus musculus] | 1.502            |
|            | Wrn          | Werner syndrome ATP-dependent helicase homolog [Mus musculus] | 1.500            |
|            | Cep170b      | centrosomal protein of 170 kDa protein B [Mus musculus] | 1.499            |
|            | Pkn2         | serine/threonine-protein kinase N2 [Mus musculus]   | 1.499            |
|            | Slit2        | slit homolog 2 protein isoform a precursor [Mus musculus] | 1.495            |
|            | Arnt         | aryl hydrocarbon receptor nuclear translocator isoform a [Mus musculus] | 1.494            |
|            | Cmip         | C-Maf-inducing protein isoform 1 [Mus musculus]     | 1.494            |
| Gene ID     | Protein Name                                      | Description                                                                 | Z Score |
|------------|--------------------------------------------------|-----------------------------------------------------------------------------|---------|
| 034390     | musculus[ ]                                      |                                                                             |         |
| ENSMUSG00000020015 | Cdk17                                          | cyclin-dependent kinase 17 [Mus musculus]                                   | 1.491   |
| ENSMUSG00000046873 | Mbtps2                                         | membrane-bound transcription factor site-2 protease [Mus musculus]          | 1.487   |
| ENSMUSG00000021712 | Trim23                                         | RecName: Full=E3 ubiquitin-protein ligase TRIM23; AltName: Full=ADP-ribosylation factor domain-containing protein 1; AltName: Full=GTP-binding protein ARD-1; AltName: Full=RING-type E3 ubiquitin transferase TRIM23; AltName: Full=Tripartite motif-containing protein 23 | 1.486   |
| ENSMUSG000000063362 | Alg11                                          | GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase isoform 1 [Mus musculus] | 1.485   |
| ENSMUSG000000021470 | Ercc6l2                                        | DNA excision repair protein ERCC-6-like 2 isoform 1 [Mus musculus]          | 1.484   |
| ENSMUSG000000037885 | Stk35                                          | serine/threonine kinase 35 [Mus musculus]                                  | 1.483   |
| ENSMUSG000000026393 | Nek7                                           | serine/threonine-protein kinase Nek7 isoform 1 [Mus musculus]              | 1.483   |
| Ensembl ID     | Gene Symbol | Description                                                                 | Ratio |
|---------------|-------------|------------------------------------------------------------------------------|-------|
| ENSMUSG000000041297 | Cdk13       | cyclin-dependent kinase 13 isoform 1 [Mus musculus]                           | 1.480 |
| ENSMUSG000000051615 | Rap2a       | ras-related protein Rap-2a precursor [Mus musculus]                           | 1.479 |
| ENSMUSG000000025986 | Slc39a1 0   | PREDICTED: zinc transporter ZIP10 isoform X1 [Mus musculus]                  | 1.478 |
| ENSMUSG000000058793 | Cds2        | phosphatidate cytidylyltransferase 2 isoform a [Mus musculus]                | 1.477 |
| ENSMUSG000000020790 | Ankfy1      | rabankyrin-5 [Mus musculus]                                                  | 1.477 |
| ENSMUSG000000024130 | Abca3       | ATP-binding cassette sub-family A member 3 [Mus musculus]                    | 1.476 |
| ENSMUSG000000029009 | Mthfr       | methylenetetrahydrofolate reductase isoform a [Mus musculus]                | 1.476 |
| ENSMUSG000000026516 | Nvl         | nuclear valosin-containing protein-like [Mus musculus]                      | 1.473 |
| ENSMUSG000000013663 | Pten        | phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, partial [Mesocricetus auratus] | 1.471 |
| ENSMUSG000000043262 | Uevld       | ubiquitin-conjugating enzyme E2 variant 3 [Mus musculus]                    | 1.470 |
| Gene ID          | Accession | Description                                              | Log2 Fold Change |
|-----------------|-----------|-----------------------------------------------------------|-----------------|
| ENSMUSG0000000628 | Hk2       | hexokinase-2 [Mus musculus]                               | 1.468           |
| ENSMUSG0000033991 | Ttc37     | tetratricopeptide repeat protein 37 [Mus musculus]       | 1.468           |
| ENSMUSG0000022401 | Xpnpep3   | probable Xaa-Pro aminopeptidase 3 isoform 2 [Mus musculus]| 1.468           |
| ENSMUSG0000022911 | Arl13b    | ADP-ribosylation factor-like protein 13B [Mus musculus]  | 1.463           |
| ENSMUSG0000026923 | Notch1    | neurogenic locus notch homolog protein 1 precursor [Mus musculus] | 1.463 |
| ENSMUSG00000054580 | Pla2r1    | phospholipase A2 receptor 1 [Mus musculus]                | 1.459           |
| ENSMUSG00000040102 | Klhl42    | kelch-like protein 42 [Mus musculus]                      | 1.459           |
| ENSMUSG00000026705 | Klhl20    | kelch-like protein 20 [Mus musculus]                      | 1.459           |
| ENSMUSG00000051853 | Arf3      | ADP-ribosylation factor 3-like protein [Cricetulus griseus]| 1.458           |
| ENSMUSG00000019943 | Atp2b1    | plasma membrane calcium-transporting ATPase 1 isoform 2 [Mus musculus] | 1.456 |
| ENSMUSG00000024976 | Shoc2     | leucine-rich repeat protein SHOC-2 [Mus musculus]         | 1.455           |
| Gene ID          | Gene Symbol | Description                                                                 | Log2 Fold Change |
|-----------------|-------------|-----------------------------------------------------------------------------|------------------|
| ENSMUSG00000024079 | Eif2ak2     | interferon-induced, double-stranded RNA-activated protein kinase [Mus musculus] | 1.453            |
| ENSMUSG00000032826 | Ank2        | PREDICTED: ankyrin-2 isoform X27 [Mus musculus]                             | 1.452            |
| ENSMUSG00000060671 | Atp8b2      | phospholipid-transporting ATPase ID [Mus musculus]                          | 1.452            |
| ENSMUSG00000041773 | Enc1        | ectoderm-neural cortex protein 1 [Mus musculus]                            | 1.452            |
| ENSMUSG00000025584 | Pde8a       | high affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A [Mus musculus] | 1.450            |
| ENSMUSG000000054823 | Whsc1l1     | histone-lysine N-methyltransferase NSD3 isoform 2 [Mus musculus]            | 1.450            |
| ENSMUSG00000025246 | Tbl1x       | PREDICTED: F-box-like/WD repeat-containing protein TBL1X isoform X1 [Peromyscus maniculatus bairdii] | 1.449            |
| ENSMUSG00000021109 | Hif1a       | hypoxia-inducible factor 1-alpha isoform 2 [Mus musculus]                  | 1.448            |
| ENSMUSG000000018334 | Ksr1        | kinase suppressor of Ras 1 isoform 1 [Mus musculus]                        | 1.447            |
| ENSMUSG00000000000 | Kbtbd2      | kelch repeat and BTB domain-containing                                       | 1.447            |
| ID          | Gene Symbol | Description                                                  | Ratio |
|-------------|-------------|--------------------------------------------------------------|-------|
| 059486      | protein 2   | [Mus musculus]                                               |       |
| ENSMUSG000000031508 | Ankrd10 | ankyrin repeat domain-containing protein 10 isoform 1 [Mus musculus] | 1.446 |
| ENSMUSG000000042046 | Dstyk | dual serine/threonine and tyrosine protein kinase [Mus musculus] | 1.445 |
| ENSMUSG000000034573 | Ptpn13 | tyrosine-protein phosphatase non-receptor type 13 [Mus musculus] | 1.445 |
| ENSMUSG000000022781 | Pak2 | serine/threonine-protein kinase PAK 2 [Ictidomys tridecemlineatus] | 1.445 |
| ENSMUSG000000031833 | Mast3 | microtubule-associated serine/threonine-protein kinase 3 [Mus musculus] | 1.441 |
| ENSMUSG000000075703 | Ept1 | ethanolaminephosphotransferase 1 [Mus musculus] | 1.440 |
| ENSMUSG000000021559 | Dapk1 | death-associated protein kinase 1 isoform 1 [Mus musculus] | 1.439 |
| ENSMUSG000000029334 | Prkg2 | cGMP-dependent protein kinase 2 [Mus musculus] | 1.438 |
| ENSMUSG000000005102 | Eif2ak4 | eIF-2-alpha kinase GCN2 isoform 1 [Mus musculus] | 1.436 |
| ENSMUSG000000061130 | Ppm1b | mCG15599, isoform CRA_e, partial [Mus musculus] | 1.435 |
| Gene ID       | Description                                           | Expression Ratio |
|--------------|-------------------------------------------------------|------------------|
| ENSMUSG00000001986 | Gria3 PREDICTED: glutamate receptor 3 isoform X1 [Nannospalax galili] | 1.435            |
| ENSMUSG00000005034 | Prkacb cAMP-dependent protein kinase catalytic subunit beta isoform 4 [Mus musculus] | 1.432            |
| ENSMUSG000000036894 | Rap2b ras-related protein Rap-2b precursor [Mus musculus] | 1.430            |
| ENSMUSG000000047409 | Ctdspl CTD small phosphatase-like protein [Mus musculus] | 1.430            |
| ENSMUSG000000063273 | Naa15 N-alpha-acetyltransferase 15, NatA auxiliary subunit [Mus musculus] | 1.424            |
| ENSMUSG000000028413 | B4galt1 beta-1,4-galactosyltransferase 1 [Mus musculus] | 1.424            |
| ENSMUSG000000028161 | Ppp3ca serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform [Rattus norvegicus] | 1.424            |
| ENSMUSG000000074582 | Arfgef2 brefeldin A-inhibited guanine nucleotide-exchange protein 2 [Mus musculus] | 1.423            |
| ENSMUSG000000036893 | Ehmt1 histone-lysine N-methyltransferase EHMT1 isoform 1 [Mus musculus] | 1.421            |
| ENSMUSG000000050029 | Rap2c ras-related protein Rap-2c precursor [Mus musculus] | 1.421            |
| Gene Accession | Gene Name   | Description                                                                 | Ratio |
|----------------|-------------|------------------------------------------------------------------------------|-------|
| ENSMUSG000000024143 | Rhoq        | rho-related GTP-binding protein RhoQ precursor [Rattus norvegicus]            | 1.419 |
| ENSMUSG000000053436 | Mapk14      | mitogen-activated protein kinase 14 isoform 2 [Mus musculus]                  | 1.418 |
| ENSMUSG000000024974 | Smc3        | structural maintenance of chromosomes protein 3 [Mus musculus]               | 1.417 |
| ENSMUSG000000024789 | Jak2        | tyrosine-protein kinase JAK2 [Mus musculus]                                   | 1.416 |
| ENSMUSG000000031659 | Adcy7       | adenylate cyclase type 7 [Mus musculus]                                      | 1.414 |
| ENSMUSG000000054027 | Nt5dc3      | 5'-nucleotidase domain-containing protein 3 [Mus musculus]                    | 1.414 |
| ENSMUSG000000044340 | Phlpp1      | PH domain leucine-rich repeat-containing protein phosphatase 1 [Mus musculus] | 1.409 |
| ENSMUSG000000024483 | Ankhd1      | ankyrin repeat and KH domain-containing protein 1 [Mus musculus]             | 1.408 |
| ENSMUSG000000020152 | Actr2       | actin-related protein 2 [Rattus norvegicus]                                  | 1.407 |
| ENSMUSG000000018481 | Appbp2      | amyloid protein-binding protein 2 [Mus musculus]                              | 1.403 |
| ENSMUSG000000038886 | Man2a2      | alpha-mannosidase 2x [Mus musculus]                                           | 1.403 |
| Gene ID       | Gene Symbol | Gene Name                                      | Description                                                                 | Ratio |
|--------------|-------------|------------------------------------------------|------------------------------------------------------------------------------|-------|
| ENSMUSG00000| Smc6        | structural maintenance of chromosomes protein 6 isoform 1 [Mus musculus] |                                                                              | 1.402 |
| 020608       |             |                                                |                                                                              |       |
| ENSMUSG00000| Gabpb2      | GA-binding protein subunit beta-2 [Mus musculus] |                                                                              | 1.398 |
| 038766       |             |                                                |                                                                              |       |
| ENSMUSG00000| Mapk6       | mitogen-activated protein kinase 6 [Mus musculus] |                                                                              | 1.396 |
| 042688       |             |                                                |                                                                              |       |
| ENSMUSG00000| Hif1an      | hypoxia-inducible factor 1-alpha inhibitor [Mus musculus] |                                                                              | 1.394 |
| 036450       |             |                                                |                                                                              |       |
| ENSMUSG00000| Mgea5       | protein O-GlcNAcase [Mus musculus]              |                                                                              | 1.393 |
| 025220       |             |                                                |                                                                              |       |
| ENSMUSG00000| Seh11       | centrosomal protein of 192 kDa isoform X3 [Mus caroli] |                                                                              | 1.393 |
| 079614       |             |                                                |                                                                              |       |
| ENSMUSG00000| Hspa4l      | heat shock protein 4 like, isoform CRA_c, partial [Mus musculus] |                                                                              | 1.391 |
| 025757       |             |                                                |                                                                              |       |
| ENSMUSG00000| Tenm3       | teneurin-3 isoform 1 [Mus musculus]             |                                                                              | 1.390 |
| 031561       |             |                                                |                                                                              |       |
| ENSMUSG00000| Ddx3x       | Ddx3x protein [Mus musculus]                   |                                                                              | 1.388 |
| 000787       |             |                                                |                                                                              |       |
| ENSMUSG00000| Gpam        | glycerol-3-phosphate acyltransferase 1, mitochondrial [Mus musculus] |                                                                              | 1.387 |
| 024978       |             |                                                |                                                                              |       |
| ENSMUSG00000| Atp2c1      | calcium-transporting ATPase type 2C member 1 isoform 1 [Mus musculus] |                                                                              | 1.387 |
| 032570       |             |                                                |                                                                              |       |
| Accession          | Symbol | Description                                                                 | Species             | Ratio  |
|-------------------|--------|-----------------------------------------------------------------------------|---------------------|--------|
| ENSMUSG000000046324 | Ermp1  | endoplasmic reticulum metallopeptidase 1                                   | Mus musculus        | 1.383  |
| ENSMUSG000000001773 | Folh1  | glutamate carboxypeptidase 2 isoform 1                                     | Mus musculus        | 1.381  |
| ENSMUSG000000033295 | Ptpref | receptor-type tyrosine-protein phosphatase F precursor                      | Mus musculus        | 1.379  |
| ENSMUSG000000024006 | Stk38  | serine/threonine kinase 38, isoform CRA_a, partial                          | Mus musculus        | 1.378  |
| ENSMUSG000000027893 | Aheyl1 | S-adenosylhomocysteine hydrolase-like protein 1                            | Meriones unguiculatus | 1.378  |
| ENSMUSG000000070780 | Rbm47  | RNA-binding protein 47 isoform a                                           | Mus musculus        | 1.376  |
| ENSMUSG000000053819 | Camk2d | PREDICTED: calcium/calmodulin-dependent protein kinase type II subunit delta isoform X1 | Jaculus jaculus     | 1.374  |
| ENSMUSG000000030509 | Asb7   | ankyrin repeat and SOCS box protein 7                                      | Mus musculus        | 1.374  |
| ENSMUSG000000024501 | Dpysl3 | dihydropyrimidinase-related protein 3 CRMP4b                               | Mus musculus        | 1.373  |
| ENSMUSG000000028676 | Srsf10 | neural specific sr protein NSSR 1                                          | Mus musculus        | 1.372  |
| Accession     | Description                                      | Species         | Ratio |
|--------------|--------------------------------------------------|-----------------|-------|
| ENSMUSG000000035941 | inhibitor of Bruton tyrosine kinase isoform 1 [Mus musculus] |                 | 1.371 |
| ENSMUSG000000015133 | leucine-rich repeat serine/threonine-protein kinase 1 [Mus musculus] |                 | 1.371 |
| ENSMUSG000000029840 | myotrophin [Mus musculus] |                 | 1.370 |
| ENSMUSG000000030704 | ras-related protein Rab-6A isoform 2 [Mus musculus] |                 | 1.368 |
| ENSMUSG000000032440 | TGF-beta receptor type-2 isoform 1 precursor [Mus musculus] |                 | 1.368 |
| ENSMUSG000000050697 | 5'-AMP-activated protein kinase catalytic subunit alpha-1 isoform 1 [Mus musculus] |                 | 1.367 |
| ENSMUSG000000039159 | ubiquitin-conjugating enzyme E2 H [Mus caroli] |                 | 1.366 |
| ENSMUSG000000027770 | ATP-dependent RNA helicase DHX36 [Mus musculus] |                 | 1.366 |
| ENSMUSG000000037071 | acyl-CoA desaturase 1 [Mus musculus] |                 | 1.365 |
| ENSMUSG000000020032 | NUAK family SNF1-like kinase 1 [Mus musculus] |                 | 1.364 |
| Gene ID       | Gene Symbol | Description                                                                 | Fold Change |
|--------------|-------------|-----------------------------------------------------------------------------|-------------|
| ENSMUSG000000034761 | Map4k5      | mitogen-activated protein kinase kinase 5 [Mus musculus]                    | 1.364       |
| ENSMUSG00000017929 | B4galt5     | beta-1,4-galactosyltransferase V [Mus musculus]                             | 1.358       |
| ENSMUSG000000045039 | Megf8       | multiple epidermal growth factor-like domains protein 8 precursor [Mus musculus] | 1.357       |
| ENSMUSG000000024921 | Smarca2     | PREDICTED: probable global transcription activator SNF2L2 isoform X1 [Mus musculus] | 1.353       |
| ENSMUSG000000042793 | Lgr6        | leucine-rich repeat-containing G-protein coupled receptor 6 precursor [Mus musculus] | 1.337       |
| ENSMUSG000000021279 | Cdc42bp     | serine/threonine-protein kinase MRCK beta [Mus musculus]                    | 1.330       |
| ENSMUSG000000022194 | Pabpn1      | Polyadenylate-binding protein 2 [Cricetulus griseus]                        | 1.328       |
| ENSMUSG000000020532 | Acaca       | PREDICTED: acetyl-CoA carboxylase 1 isoform X2 [Mus musculus]               | 1.321       |
| ENSMUSG000000020122 | Egfr        | epidermal growth factor receptor isoform 1 precursor [Mus musculus]         | 1.279       |
| ENSMUSG00000002451a | Cslnk1a     | casein kinase I isoform X6                                                   | 1.277       |
| Accession    | Gene Symbol | Description                                                                 | Ratio |
|-------------|-------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG00000024576 | 024576 | [Heterocephalus glaber]                                                     |       |
| ENSMUSG00000022604 | Cep97    | centrosomal protein of 97 kDa isoform 1 [Mus musculus]                      | 1.270 |
| ENSMUSG000000019790 | Stxbp5   | PREDICTED: syntaxin-binding protein 5 isoform X1 [Mus musculus]             | 1.247 |
| ENSMUSG000000005686 | Ampd3    | PREDICTED: AMP deaminase 3 isoform X3 [Mus musculus]                         | 1.220 |
| ENSMUSG000000026207 | Speg     | SPEG complex locus, isoform CRA_b, partial [Mus musculus]                    | 1.056 |
| ENSMUSG000000021040 | Slirp    | SRA stem-loop-interacting RNA-binding protein, mitochondrial [Mus musculus] | 0.884 |
| ENSMUSG000000030533 | Unc45a   | protein unc-45 homolog A [Mus musculus]                                     | 0.849 |
| ENSMUSG000000033701 | Acbd6    | acyl-CoA-binding domain-containing protein 6 isoform 1 [Mus musculus]       | 0.836 |
| ENSMUSG000000005514 | Por      | NADPH--cytochrome P450 reductase [Mus musculus]                             | 0.824 |
| ENSMUSG000000068039 |Tcp1      | T-complex protein 1 subunit alpha isoform 1 [Mus musculus]                  | 0.802 |
| ENSMUSG000000025613 | Cet8     | mKIAA0002 protein, partial [Mus musculus]                                   | 0.799 |
| ENSMUSG000000025613 | Csnk1g   | casein kinase I isoform gamma-2 isoform [Mus musculus]                      | 0.793 |
| Ensembl Gene ID   | Gene Symbol | Gene Name                                                                 | Organism           | Gene Score |
|------------------|-------------|---------------------------------------------------------------------------|--------------------|------------|
| ENSMUSG000000020869 | Lrrc59      | leucine-rich repeat-containing protein 59 [Mus musculus]                  |                    | 0.791      |
| ENSMUSG00000029147  | Ppm1g       | protein phosphatase 1G [Mus musculus]                                     |                    | 0.789      |
| ENSMUSG000000021760 | Gpx8        | RIKEN cDNA 2310016C16, partial [Mus musculus]                            |                    | 0.789      |
| ENSMUSG000000025232 | Hexa        | beta-hexosaminidase subunit alpha preproprotein [Mus musculus]           |                    | 0.788      |
| ENSMUSG000000020844 | Nxn         | nucleoredoxin [Mus musculus]                                             |                    | 0.787      |
| ENSMUSG000000063065 | Mapk3       | extracellular signal-regulated kinase 1b [Rattus norvegicus]             |                    | 0.787      |
| ENSMUSG000000024538 | Ppic        | peptidyl-prolyl cis-trans isomerase C precursor [Mus musculus]           |                    | 0.786      |
| ENSMUSG000000029209 | Gnpda2      | glucosamine-6-phosphate isomerase 2 isoform 1 [Mus musculus]            |                    | 0.786      |
| ENSMUSG000000023913 | Pla2g7      | platelet-activating factor acetylhydrolase precursor [Mus musculus]     |                    | 0.785      |
| ENSMUSG000000005378 | Wbser2      | hypothetical protein [Mus musculus]                                      |                    | 0.784      |
| ENSMUSG000000008331 | Nhp2l1      | NHP2-like protein 1 [Mesocricetus]                                       |                    | 0.783      |
| Gene ID     | Description                                                                 | ENSMUSG00000 | Score |
|------------|-----------------------------------------------------------------------------|--------------|-------|
| 063480     | auratus]                                                                    |               |       |
| ENSMUSG00000 | Pa2g4  PREDICTED: proliferation-associated protein 2G4 [Microtus ochrogaster] | 0.783        |       |
| ENSMUSG00000 | Stip1 stress-induced-phosphoprotein 1 [Mus musculus]                        | 0.781        |       |
| ENSMUSG00000 | Prpf19 pre-mRNA-processing factor 19 isoform 1 [Mus musculus]              | 0.780        |       |
| ENSMUSG00000 | Sec11a Sec11-like 1 (S. cerevisiae), isoform CRA_d [Mus musculus]          | 0.780        |       |
| ENSMUSG00000 | Shmt2 serine hydroxymethyltransferase, mitochondrial isoform 1 [Mus musculus] | 0.780        |       |
| ENSMUSG00000 | Apex1 DNA-(apurinic or apyrimidinic site) lyase [Mus musculus]              | 0.779        |       |
| ENSMUSG00000 | Ilk hypothetical protein A6R68_21216, partial [Neotoma lepida]              | 0.778        |       |
| ENSMUSG00000 | Atp5g2 ATP synthase F(0) complex subunit C2, mitochondrial precursor [Mus musculus] | 0.777        |       |
| ENSMUSG00000 | Prmt5 protein arginine N-methyltransferase 5 isoform 1 [Mus musculus]      | 0.776        |       |
| ENSMUSG00000 | Bub3 mitotic checkpoint protein BUB3 isoform X1 [Ictidomys tridecemlineatus] | 0.776        |       |
| ENSMUSG00000 | Dbi acyl-CoA-binding protein isoform 1 [Mus]                                | 0.775        |       |
| ID     | Name                  | Description                                                                 | Score |
|--------|-----------------------|-----------------------------------------------------------------------------|-------|
| 026385 | ENSMUSG000000022024   | musculus]                                                                   |       |
|       | Sught1               | protein SGT1 homolog [Mus musculus]                                         | 0.775 |
| 025917 | ENSMUSG000000025917   | Cops5                                                                       |       |
|       | COP9 signalosome complex subunit 5 isoform 1 [Mus musculus]                  | 0.775 |
| 030681 | ENSMUSG000000030681   | Mvp                                                                         |       |
|       | major vault protein [Mus musculus]                                           | 0.774 |
| 031672 | ENSMUSG000000031672   | Got2                                                                        |       |
|       | aspartate aminotransferase, mitochondrial [Mus musculus]                      | 0.774 |
| 035585 | ENSMUSG000000035585   | Tsen34                                                                       |       |
|       | tRNA-splicing endonuclease subunit Sen34 isoform a [Mus musculus]            | 0.774 |
| 015363 | ENSMUSG000000015363   | Trabd                                                                        |       |
|       | traB domain-containing protein isoform 1 [Mus musculus]                      | 0.773 |
| 024803 | ENSMUSG000000024803   | Ankrd1                                                                       |       |
|       | ankyrin repeat domain-containing protein 1 [Mus musculus]                   | 0.772 |
| 040354 | ENSMUSG000000040354   | Mars                                                                         |       |
|       | methionine--tRNA ligase, cytoplasmic isoform 1 [Mus musculus]                | 0.772 |
| 024858 | ENSMUSG000000024858   | Adrblk1                                                                      |       |
|       | beta-adrenergic receptor kinase 1 isoform 1 [Mus musculus]                  | 0.771 |
| 038279 | ENSMUSG000000038279   | Nop2                                                                         |       |
|       | probable 28S rRNA (cytosine-C(5))-methyltransferase [Mus musculus]           | 0.771 |
| Gene ID          | Symbol | Description                                      | Score |
|-----------------|--------|--------------------------------------------------|-------|
| ENSMUSG00000025161 | Slc16a3 | monocarboxylate transporter 4 [Mus caroli]       | 0.771 |
| ENSMUSG00000024835 | Coro1b | coronin-1B [Mus musculus]                        | 0.770 |
| ENSMUSG00000030751 | Psma1  | proteasome subunit alpha type-1 [Mus musculus]  | 0.769 |
| ENSMUSG00000025225 | Nfkb2  | nuclear factor NF-kappa-B p100 subunit isoform a [Mus musculus] | 0.769 |
| ENSMUSG00000001380 | Hars   | histidine--tRNA ligase, cytoplasmic [Mus musculus] | 0.768 |
| ENSMUSG00000024997 | Prdx3  | thioredoxin-dependent peroxide reductase, mitochondrial precursor [Mus musculus] | 0.767 |
| ENSMUSG00000020238 | Ncln   | nicalin precursor [Mus musculus]                | 0.767 |
| ENSMUSG00000004937 | Sgta   | small glutamine-rich tetratricopeptide repeat-containing protein alpha isoform 1 [Mus musculus] | 0.767 |
| ENSMUSG000000058076 | Sdhc   | succinate dehydrogenase cytochrome b560 subunit, mitochondrial precursor [Mus musculus] | 0.767 |
| ENSMUSG000000021957 | Tkt    | transketolase [Mus musculus]                    | 0.766 |
| Gene ID       | Description                                                                 | ENSMUSG000000 | Score |
|--------------|------------------------------------------------------------------------------|---------------|-------|
| ENSMUSG000000052833 | SUMO-activating enzyme subunit 1 isoform a [Mus musculus]                   | Sae1          | 0.766 |
| ENSMUSG000000005483 | dnaJ homolog subfamily B member 1 isoform 1 [Mus musculus]                  | Dnajb1        | 0.766 |
| ENSMUSG000000020706 | pre-rRNA processing protein FTSJ3 [Mus musculus]                             | Ftsj3         | 0.766 |
| ENSMUSG000000030682 | CDP-diacylglycerol--inositol 3-phosphatidylintransferase isoform 1 [Mus musculus] | Cdipt         | 0.765 |
| ENSMUSG000000071547 | rCG42310 [Rattus norvegicus]                                                 | Nt5dc2        | 0.764 |
| ENSMUSG000000039615 | STIP1 homology and U box-containing protein 1 [Mus musculus]                 | Stub1         | 0.763 |
| ENSMUSG000000034729 | 28S ribosomal protein S10, mitochondrial isoform 1 [Mus musculus]           | Mrps10        | 0.763 |
| ENSMUSG000000029017 | mitochondrial-processing peptidase subunit beta precursor [Mus musculus]     | Pmpcb         | 0.761 |
| ENSMUSG000000033423 | ERI1 exoribonuclease 3 isoform a [Mus musculus]                              | Eri3          | 0.761 |
| ENSMUSG000000008348 | polyubiquitin-C [Mus musculus]                                               | Ubc           | 0.760 |
| ENSMUSG000000034200 | cell division cycle protein 20 homolog                                      | Cdc20         | 0.760 |
| Gene ID | Accession | Description | Score |
|---------|-----------|-------------|-------|
| ENSMUSG00000026914 | Psmd14 | PREDICTED: 26S proteasome non-ATPase regulatory subunit 14 isoform X1 [Nannospalax galili] | 0.759 |
| ENSMUSG000000040562 | Gstm2 | mCG4061, partial [Mus musculus] | 0.759 |
| ENSMUSG000000011179 | Odc1 | ornithine decarboxylase [Mus musculus] | 0.758 |
| ENSMUSG000000027405 | Nop56 | nucleolar protein 56 [Mus musculus] | 0.758 |
| ENSMUSG000000020018 | Snrpf | Snrpf protein, partial [Mus musculus] | 0.757 |
| ENSMUSG000000003848 | Nob1 | RNA-binding protein NOB1 [Mus musculus] | 0.757 |
| ENSMUSG000000060147 | Serpinb6a | serine (or cysteine) peptidase inhibitor, clade B, member 6a, isoform CRA_b, partial [Mus musculus] | 0.757 |
| ENSMUSG000000022635 | Zcrbl | zinc finger CCHC-type and RNA-binding motif-containing protein 1 isoform X2 [Mus pahari] | 0.756 |
| ENSMUSG000000031505 | Carkd | ATP-dependent (S)-NAD(P)H-hydrate dehydratase isoform 1 [Mus musculus] | 0.756 |
| Gene ID          | Description                                      | Score |
|-----------------|--------------------------------------------------|-------|
| ENSMUSG000000 025027 | Xpnpep1 xaa-Pro aminopeptidase 1 [Mus musculus] | 0.756 |
| ENSMUSG000000 021273 | Fdft1 squalene synthase [Mus musculus]         | 0.756 |
| ENSMUSG000000 002844 | Adprh ADP-ribosylarginine hydrolase [Mus musculus] | 0.756 |
| ENSMUSG000000 039682 | Lap3 cytosol aminopeptidase [Mus musculus]    | 0.756 |
| ENSMUSG000000 025781 | Atp5c1 ATP synthase subunit gamma, mitochondrial isoform a [Mus musculus] | 0.756 |
| ENSMUSG000000 020440 | Arf5 PREDICTED: ADP-ribosylation factor 5-like [Peromyscus maniculatus bairdii] | 0.756 |
| ENSMUSG000000 030884 | Uqrc2 cytochrome b-c1 complex subunit 2, mitochondrial precursor [Mus musculus] | 0.755 |
| ENSMUSG000000 018574 | Acadvl very long-chain specific acyl-CoA dehydrogenase, mitochondrial precursor [Mus musculus] | 0.755 |
| ENSMUSG000000 046756 | Mrps7 28S ribosomal protein S7, mitochondrial precursor [Mus musculus] | 0.755 |
| ENSMUSG000000 024952 | Rps6ka4 ribosomal protein S6 kinase alpha-4 [Mus musculus] | 0.754 |
| ENSMUSG000000 | Psma3 proteasome subunit alpha type-3 isoform | 0.754 |
| Gene ID       | Description                                                                 | ENSMUSG00000 | NESMUSG00000 |
|--------------|------------------------------------------------------------------------------|--------------|--------------|
| 060073       | X1 [Meriones unguiculatus]                                                    |              |              |
| ENSMUSG00000 | Mdh1 malate dehydrogenase 1, NAD (soluble), isoform CRA_c, partial [Mus musculus] | 0.754        |              |
| 020321       |                                                                              |              |              |
| ENSMUSG00000 | Dusp5 dual specificity protein phosphatase 5 [Mus musculus]                  | 0.754        |              |
| 034765       |                                                                              |              |              |
| ENSMUSG00000 | Sar1b GTP-binding protein SAR1b [Mus musculus]                               | 0.754        |              |
| 020386       |                                                                              |              |              |
| ENSMUSG00000 | Dhrs1 dehydrogenase/reductase SDR family member 1 [Mus musculus]             | 0.753        |              |
| 002332       |                                                                              |              |              |
| ENSMUSG00000 | Slc3a2 4F2 cell-surface antigen heavy chain isoform a [Mus musculus]          | 0.753        |              |
| 010095       |                                                                              |              |              |
| ENSMUSG00000 | Akr1b8 aldose reductase-related protein 2 [Mus musculus]                      | 0.753        |              |
| 029762       |                                                                              |              |              |
| ENSMUSG00000 | Oxa11 mitochondrial inner membrane protein OXA1L [Mus musculus]              | 0.752        |              |
| 00959        |                                                                              |              |              |
| ENSMUSG00000 | Idh3b isocitrate dehydrogenase [NAD] subunit beta, mitochondrial [Mus musculus] | 0.752        |              |
| 027406       |                                                                              |              |              |
| ENSMUSG00000 | Idh2 isocitrate dehydrogenase [NADP], mitochondrial precursor [Mus musculus] | 0.752        |              |
| 030541       |                                                                              |              |              |
| ENSMUSG00000 | Aldh2 aldehyde dehydrogenase, mitochondrial isoform 1 precursor [Mus musculus] | 0.752        |              |
| 029455       |                                                                              |              |              |
| ENSMUSG00000 | Plrg1 pleiotropic regulator 1 [Mus musculus]                                 | 0.750        |              |
| ID          | Gene Symbol | Description                                                                 | Score |
|-------------|-------------|------------------------------------------------------------------------------|-------|
| ENSMUSG00000027998 | Ptgr1       | prostaglandin reductase 1 [Mus musculus]                                    | 0.749 |
| ENSMUSG00000028378 | Pak1ip1     | p21-activated protein kinase-interacting protein 1 [Mus musculus]            | 0.749 |
| ENSMUSG000000038683 | Cdk4        | cyclin-dependent kinase 4 isoform 1 [Mus musculus]                          | 0.749 |
| ENSMUSG000000006728 | Sars        | serine--tRNA ligase, cytoplasmic isoform 1 [Mus musculus]                   | 0.748 |
| ENSMUSG000000003662 | Ciao1       | probable cytosolic iron-sulfur protein assembly protein CIAO1 [Mus musculus] | 0.748 |
| ENSMUSG0000000053898 | Ech1       | delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial precursor [Mus musculus] | 0.748 |
| ENSMUSG0000000027342 | Pcna       | proliferating cell nuclear antigen [Mus musculus]                           | 0.748 |
| ENSMUSG0000000003037 | Rab8a      | ras-related protein Rab-8A [Mus musculus]                                   | 0.748 |
| ENSMUSG0000000031400 | G6pdx      | glucose-6-phosphate 1-dehydrogenase X [Mus musculus]                      | 0.747 |
| ENSMUSG0000000034424 | Gcsh       | glycine cleavage system H protein, mitochondrial precursor [Mus musculus]   | 0.746 |
| Gene ID          | Description                                                                 | Similarity Score |
|-----------------|------------------------------------------------------------------------------|------------------|
| ENSMUSG000000026209 | aspartyl aminopeptidase isoform a [Mus musculus]                           | 0.746            |
| ENSMUSG000000029599 | ATP-dependent RNA helicase DDX54 [Mus musculus]                            | 0.746            |
| ENSMUSG000000015994 | protein farnesyltransferase/geranylgeranyltransferase type-I subunit alpha [Mus musculus] | 0.746            |
| ENSMUSG000000030225 | deoxyribose-phosphate aldolase [Mus musculus]                              | 0.745            |
| ENSMUSG000000022437 | sorting and assembly machinery component 50 homolog [Mus musculus]         | 0.745            |
| ENSMUSG000000057388 | 39S ribosomal protein L18, mitochondrial [Mus musculus]                     | 0.745            |
| ENSMUSG000000002064 | stromal cell-derived factor 2 isoform 1 precursor [Mus musculus]            | 0.745            |
| ENSMUSG000000032301 | proteasome subunit alpha type-4 [Mus musculus]                             | 0.744            |
| ENSMUSG000000020116 | RNA-binding protein PNO1 [Mus musculus]                                    | 0.744            |
| ENSMUSG000000029446 | phosphoserine phosphatase [Mus musculus]                                   | 0.744            |
| ENSMUSG0000000026357 | PREDICTED: SOSS complex subunit B1                                          | 0.744            |
| Gene ID          | Description                                                                 | Expression Score |
|-----------------|-----------------------------------------------------------------------------|------------------|
| 025374          | isoform X2 [Nannospalax galili]                                             |                  |
| ENSMUSG000000   | Kars lysine--tRNA ligase isoform 1 [Mus musculus]                           | 0.743            |
| 031948          | Eno1b enolase 1B, retrotransposed [Mus musculus]                            |                  |
| 059040          | Cct4 T-complex protein 1 subunit delta [Mus musculus]                       |                  |
| 007739          | Dtymk thymidylate kinase isoform 1 [Mus musculus]                           |                  |
| 026281          | Pgd 6-phosphogluconate dehydrogenase, decarboxylating isoform 1 [Mus musculus] |                  |
| 028961          | Mmp8 neutrophil collagenase preproprotein [Mus musculus]                   |                  |
| 005800          | Sod1 superoxide dismutase [Cu-Zn] [Mus musculus]                            |                  |
| 022982          | Plsr1 phospholipid scramblase 1 [Mus musculus]                              |                  |
| 032369          | Cdkn2d cyclin-dependent kinase 4 inhibitor D [Mus musculus]                 |                  |
| 096472          | Ddx49 probable ATP-dependent RNA helicase DDX49 [Mus musculus]             |                  |
| 057788          | Emg1 ribosomal RNA small subunit                                             |                  |
| ENSMUSG000000   |                                                                                  |                  |
| Gene ID       | Description                                      | Mus musculus  |
|--------------|--------------------------------------------------|---------------|
| 004268       | methyltransferase NEP1                           |               |
| ENSMUSG00000| Msrb1 methionine-R-sulfoxide reductase B1         | 0.740         |
| 075705       |                                                   |               |
| ENSMUSG00000| Aurka aurora kinase A isoform a                   | 0.740         |
| 027496       |                                                   |               |
| ENSMUSG00000| Rbm3 RNA-binding protein 3 isoform 1              | 0.740         |
| 031167       |                                                   |               |
| ENSMUSG00000| Exosc1 exosome complex component CSL4 isoform 1  | 0.739         |
| 034321       |                                                   |               |
| ENSMUSG00000| Klf2 Krueppel-like factor 2                       | 0.739         |
| 055148       |                                                   |               |
| ENSMUSG00000| Rangap1 ran GTPase-activating protein 1 isoform 1 | 0.738         |
| 022391       |                                                   |               |
| ENSMUSG00000| Abcf2 ATP-binding cassette sub-family F member 2 isoform 1 | 0.738 |
| 028953       |                                                   |               |
| ENSMUSG00000| Mrpl9 39S ribosomal protein L9, mitochondrial     | 0.737         |
| 028140       |                                                   |               |
| ENSMUSG00000| Srp19 signal recognition particle 19 kDa protein  | 0.737         |
| 014504       |                                                   |               |
| ENSMUSG00000| Acta2 Actin, aortic smooth muscle                 | 0.737         |
| 035783       |                                                   |               |
| ENSMUSG00000| Ehd1 Ehd1 protein, partial                        | 0.737         |
| 024852       |                                                   |               |
| Gene ID          | Description                                                                 | Score |
|-----------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000064341 | NADH dehydrogenase subunit 1 (mitochondrion) [Mus musculus]               | 0.737 |
| ENSMUSG00000030298 | plasma membrane calcium-transporting ATPase 2 isoform 2 [Cricetulus griseus] | 0.737 |
| ENSMUSG00000015290 | ubiquitin-like protein 4A [Mus musculus]                                   | 0.736 |
| ENSMUSG00000019428 | peptidyl-prolyl cis-trans isomerase FKB8 isoform a [Mus musculus]           | 0.735 |
| ENSMUSG000000063694 | PREDICTED: cytochrome c, somatic [Dipodomys ordii]                           | 0.735 |
| ENSMUSG000000072582 | peptidyl-tRNA hydrolase 2, mitochondrial isoform b [Mus musculus]            | 0.735 |
| ENSMUSG000000020935 | dephospho-CoA kinase domain-containing protein [Mus musculus]               | 0.734 |
| ENSMUSG000000025393 | Atp5b protein, partial [Mus musculus]                                       | 0.734 |
| ENSMUSG000000064358 | cytochrome c oxidase subunit III (mitochondrion) [Mus musculus]             | 0.734 |
| ENSMUSG000000058600 | PREDICTED: 60S ribosomal protein L30-like [Peromyscus maniculatus bairdii]   | 0.734 |
| Gene Accession | Gene Name   | Description                                                                 | Score |
|---------------|-------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000003099 | Ppp5c      | serine/threonine-protein phosphatase 5 [Mus musculus]                       | 0.734 |
| ENSMUSG000000036632 | Alg5       | dolichyl-phosphate beta-glucosyltransferase [Mus musculus]                  | 0.733 |
| ENSMUSG000000031783 | Polr2c     | DNA-directed RNA polymerase II subunit RPB3 [Mus musculus]                  | 0.733 |
| ENSMUSG0000000005575 | Ube2m     | NEDD8-conjugating enzyme Ubc12 [Meriones unguiculatus]                      | 0.732 |
| ENSMUSG0000000078812 | Eif5a     | eukaryotic translation initiation factor 5A, isoform CRA_j, partial [Mus musculus] | 0.732 |
| ENSMUSG0000000041278 | Ttc1      | tetratricopeptide repeat protein 1 [Mus musculus]                          | 0.731 |
| ENSMUSG0000000073982 | Rhog      | hypothetical protein A6R68_14799 [Neotoma lepida]                          | 0.731 |
| ENSMUSG0000000022814 | Umps      | uridine 5'-monophosphate synthase isoform 1 [Mus musculus]                 | 0.731 |
| ENSMUSG0000000024646 | Cyb5a     | cytochrome b5 isoform 1 [Mus musculus]                                     | 0.730 |
| ENSMUSG0000000024099 | NdufV2    | NADH dehydrogenase flavoprotein 2, mitochondrial isoform 1 precursor [Mus musculus] | 0.730 |
| ENSMUSG00000000Ndus2 | NdufS2    | NADH dehydrogenase [ubiquinone]                                            | 0.729 |
| Gene ID | Description                                      | ENSMUSG000000 | 013593 | iron-sulfur protein 2, mitochondrial precursor [Mus musculus] |
|---------|--------------------------------------------------|---------------|--------|---------------------------------------------------------------|
| ENSMUSG000000027078 | Ube2l6 ubiquitin/ISG15-conjugating enzyme E2 L6 [Mus musculus] | ENSMUSG000000 | 027078 | Ube2l6 ubiquitin/ISG15-conjugating enzyme E2 L6 [Mus musculus] |
| ENSMUSG000000058558 | Rpl5 60S ribosomal protein L5 [Mus musculus] | ENSMUSG000000 | 058558 | Rpl5 60S ribosomal protein L5 [Mus musculus] |
| ENSMUSG000000030357 | Fkbp4 peptidyl-prolyl cis-trans isomerase FKBP4 [Mus musculus] | ENSMUSG000000 | 030357 | Fkbp4 peptidyl-prolyl cis-trans isomerase FKBP4 [Mus musculus] |
| ENSMUSG000000020708 | Psmc5 26S proteasome regulatory subunit 8 [Mus musculus] | ENSMUSG000000 | 020708 | Psmc5 26S proteasome regulatory subunit 8 [Mus musculus] |
| ENSMUSG000000030272 | Camk1 transcriptional adapter 3-like protein [Cricetulus griseus] | ENSMUSG000000 | 030272 | Camk1 transcriptional adapter 3-like protein [Cricetulus griseus] |
| ENSMUSG000000035443 | Thyn1 PREDICTED: thymocyte nuclear protein 1 isoform X1 [Mus musculus] | ENSMUSG000000 | 035443 | Thyn1 PREDICTED: thymocyte nuclear protein 1 isoform X1 [Mus musculus] |
| ENSMUSG000000030867 | Plk1 serine/threonine-protein kinase PLK1 [Mus musculus] | ENSMUSG000000 | 030867 | Plk1 serine/threonine-protein kinase PLK1 [Mus musculus] |
| ENSMUSG000000063888 | Rpl7l1 60S ribosomal protein L7-like 1 [Mus musculus] | ENSMUSG000000 | 063888 | Rpl7l1 60S ribosomal protein L7-like 1 [Mus musculus] |
| ENSMUSG000000039356 | Exosc2 exosome complex component RRP4 [Mus musculus] | ENSMUSG000000 | 039356 | Exosc2 exosome complex component RRP4 [Mus musculus] |
| ENSMUSG000000003235 | Eif2b5 translation initiation factor eIF-2B subunit epsilon [Mus musculus] | ENSMUSG000000 | 003235 | Eif2b5 translation initiation factor eIF-2B subunit epsilon [Mus musculus] |
| Gene ID             | Gene Symbol | Description                                              | Score |
|--------------------|-------------|----------------------------------------------------------|-------|
| ENSMUSG00000003808 | Farsa       | phenylalanine--tRNA ligase alpha subunit [Mus musculus]   | 0.727 |
| ENSMUSG00000019173 | Rab5c       | ras-related protein Rab-5C isoform 2 [Mus musculus]      | 0.726 |
| ENSMUSG000000073838| Tufm        | elongation factor Tu, mitochondrial isoform 1 [Mus musculus] | 0.726 |
| ENSMUSG000000031068| Glrx3       | glutaredoxin-3 isoform 1 [Mus musculus]                  | 0.726 |
| ENSMUSG000000001403| Ube2c       | ubiquitin-conjugating enzyme E2 C [Mus musculus]         | 0.726 |
| ENSMUSG000000028861| Mrps15      | 28S ribosomal protein S15, mitochondrial precursor [Mus musculus] | 0.724 |
| ENSMUSG000000030417| Pdcd5       | programmed cell death protein 5 [Mus musculus]           | 0.724 |
| ENSMUSG000000024870| Rab1b       | ras-related protein Rab-1B [Mus musculus]                | 0.724 |
| ENSMUSG000000001416| Cct3        | T-complex protein 1 subunit gamma [Mus musculus]         | 0.724 |
| ENSMUSG000000041926| Rnpep       | aminopeptidase B isoform 1 [Mus musculus]                | 0.724 |
| ENSMUSG000000020457| Drg1        | PREDICTED: developmentally-regulated GTP-binding protein 1 [Cricetulus griseus] | 0.723 |
| Ensembl Gene ID | Accession | Gene Symbol | Description | Similarity Score |
|----------------|-----------|-------------|-------------|------------------|
| ENSMUSG00000030007 | Cct7 | T-complex protein 1 subunit eta [Mus musculus] | 0.723 |
| ENSMUSG00000031536 | Polb | DNA polymerase beta [Mus musculus] | 0.723 |
| ENSMUSG00000032126 | Hmbs | Porphobilinogen deaminase isoform 1 [Mus musculus] | 0.723 |
| ENSMUSG00000005069 | Pex5 | Peroxisomal targeting signal 1 receptor isoform 1 [Mus musculus] | 0.723 |
| ENSMUSG000000028692 | Akr1a1 | Alcohol dehydrogenase [NADP+] [Mus musculus] | 0.722 |
| ENSMUSG000000028671 | Gale | Galactose-4-epimerase, UDP, isoform CRA_b, partial [Mus musculus] | 0.722 |
| ENSMUSG000000071415 | Rpl23 | PREDICTED: 60S ribosomal protein L23 [Microtus ochrogaster] | 0.721 |
| ENSMUSG000000019853 | Hebp2 | Heme-binding protein 2 [Mus musculus] | 0.721 |
| ENSMUSG000000032383 | Ppib | Peptidyl-prolyl cis-trans isomerase B precursor [Mus musculus] | 0.721 |
| ENSMUSG000000026260 | Ndufa10 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial precursor [Mus musculus] | 0.721 |
| ENSMUSG0000000Cct5 | mKIAA0098 protein, partial | 0.720 |
| ID             | Symbol   | Name                                                                 | Species         | Score |
|---------------|----------|----------------------------------------------------------------------|-----------------|-------|
| ENSMUSG00000002234 | Wdr46    | WD repeat-containing protein 46 [Mus musculus]                        | 0.720           |
| ENSMUSG000000024312 | Rtcb     | tRNA-splicing ligase RtcB homolog [Mus musculus]                      | 0.720           |
| ENSMUSG000000001783 | Park7    | protein/nucleic acid deoxyribonuclease DJ-1 [Mus musculus]            | 0.720           |
| ENSMUSG000000028964 | MrpL13   | 39S ribosomal protein L13, mitochondrial [Mus musculus]               | 0.720           |
| ENSMUSG000000049401 | Ogfr     | opioid growth factor receptor [Mus musculus]                         | 0.720           |
| ENSMUSG000000024194 | Cuta     | protein CutA isoform 1 precursor [Mus musculus]                      | 0.719           |
| ENSMUSG000000062054 | Iah1     | isoamyl acetate-hydrolyzing esterase 1 homolog [Mus musculus]        | 0.719           |
| ENSMUSG000000008373 | Prpf31   | U4/U6 small nuclear ribonucleoprotein Prp31 isoform 1 [Mus musculus]  | 0.719           |
| ENSMUSG000000002326 | Gmpr2    | GMP reductase 2 [Mus musculus]                                        | 0.719           |
| ENSMUSG000000005410 | Mcm5     | DNA replication licensing factor MCM5 [Mus musculus]                  | 0.719           |
| ENSMUSG00000000234 | Myl6     | myosin light polypeptide 6 isoform                                   | 0.719           |
| Gene ID       | Symbol | Description                                                                 | Score |
|--------------|--------|------------------------------------------------------------------------------|-------|
| ENSMUSG00000 | Psmb2  | proteasome subunit beta type-2 [Mus musculus]                               | 0.718 |
| 028837       |        |                                                                              |       |
| ENSMUSG00000 | Nudt19 | nucleoside diphosphate-linked moiety X motif 19 precursor [Mus musculus]    | 0.718 |
| 034875       |        |                                                                              |       |
| ENSMUSG00000 | Prdx1  | peroxiredoxin-1 [Mus musculus]                                             | 0.718 |
| 028691       |        |                                                                              |       |
| ENSMUSG00000 | Tpi1   | triosephosphate isomerase [Mus musculus]                                   | 0.717 |
| 023456       |        |                                                                              |       |
| ENSMUSG00000 | Aco7   | cytosolic acyl coenzyme A thioester hydrolase isoform 1 [Mus musculus]      | 0.717 |
| 028937       |        |                                                                              |       |
| ENSMUSG00000 | Ripk3  | receptor-interacting serine/threonine-protein kinase 3 isoform 1 [Mus musculus] | 0.716 |
| 022221       |        |                                                                              |       |
| ENSMUSG00000 | Rpl35a | 60S ribosomal protein L35a [Rattus norvegicus]                              | 0.716 |
| 060636       |        |                                                                              |       |
| ENSMUSG00000 | Echs1  | enoyl-CoA hydratase, mitochondrial precursor [Mus musculus]                 | 0.716 |
| 025465       |        |                                                                              |       |
| ENSMUSG00000 | Pfδn5  | prefoldin subunit 5 [Mus musculus]                                          | 0.716 |
| 001289       |        |                                                                              |       |
| ENSMUSG00000 | Lrwd1  | RIKEN cDNA 1200011O22, isoform CRA_a, partial [Mus musculus]                | 0.716 |
| 029703       |        |                                                                              |       |
| Ensembl ID   | Gene ID | Description                                                                 | Score |
|-------------|---------|------------------------------------------------------------------------------|-------|
| ENSMUSG00000029145 | Eif2b4 | translation initiation factor eIF-2B subunit delta isoform 2 [Mus musculus] | 0.716 |
| ENSMUSG00000037580 | Gch1   | GTP cyclohydrolase 1 precursor [Mus musculus]                               | 0.716 |
| ENSMUSG00000028597 | Gpx7   | glutathione peroxidase 7 precursor [Mus musculus]                            | 0.715 |
| ENSMUSG00000030060 | Hmces  | RIKEN cDNA 8430410A17, isoform CRA_b, partial [Mus musculus]                | 0.715 |
| ENSMUSG00000025260 | Hsd17b10 | 3-hydroxyacyl-CoA dehydrogenase type-2 [Mus musculus]                      | 0.715 |
| ENSMUSG00000062382 | Gm10116 | ferritin light chain 1 [Mus musculus]                                       | 0.715 |
| ENSMUSG00000002963 | Pnkp   | PREDICTED: bifunctional polynucleotide phosphatase/kinase isoform X5 [Mus musculus] | 0.715 |
| ENSMUSG00000002524 | Puf60  | poly(U)-binding-splicing factor PUF60 isoform a [Mus musculus]             | 0.714 |
| ENSMUSG000000050370 | Ch25h  | cholesterol 25-hydroxylase [Mus musculus]                                  | 0.714 |
| ENSMUSG000000025872 | Thoc3  | THO complex subunit 3 [Mus caroli]                                          | 0.714 |
| ENSMUSG0000000522 | Mrpl22 | PREDICTED: 39S ribosomal protein L22,                                       | 0.714 |
| Accession     | Description                                                                 | Score  |
|---------------|------------------------------------------------------------------------------|--------|
| 020514        | mitochondrial isoform X1 [Mus musculus]                                      |        |
| ENSMUSG00000  | NFU1 iron-sulfur cluster scaffold homolog, mitochondrial isoform 1 precursor [Mus musculus] | 0.714  |
| 029993        |                                                                                |        |
| ENSMUSG00000  | THAP domain-containing protein 4 isoform 1 [Mus musculus]                    | 0.713  |
| 026279        |                                                                                |        |
| ENSMUSG00000  | ubiquitin-related modifier 1 [Mus musculus]                                  | 0.713  |
| 069020        |                                                                                |        |
| ENSMUSG00000  | 5-aminolevulinate synthase, nonspecific, mitochondrial precursor [Mus musculus] | 0.713  |
| 032786        |                                                                                |        |
| ENSMUSG00000  | developmentally-regulated GTP-binding protein 2 [Mus musculus]               | 0.713  |
| 020537        |                                                                                |        |
| ENSMUSG00000  | mKIAA0106 protein, partial [Mus musculus]                                    | 0.712  |
| 026701        |                                                                                |        |
| ENSMUSG00000  | PREDICTED: DNA-directed RNA polymerase II subunit RPB7 isoform X1 [Cricetulus griseus] | 0.712  |
| 071662        |                                                                                |        |
| ENSMUSG00000  | 5'-AMP-activated protein kinase subunit gamma-1 [Mus musculus]                | 0.712  |
| 067713        |                                                                                |        |
| ENSMUSG00000  | purine nucleoside phosphorylase [Mus musculus]                               | 0.711  |
| 021871        |                                                                                |        |
| ENSMUSG00000  | glutathione S-transferase omega-1 [Mus musculus]                             | 0.711  |
| 021037        |                                                                                |        |
| ENSMUSG00000 | Cdk1 | cyclin-dependent kinase 1 [Mus musculus] | 0.711 |
| ENSMUSG00000 | Arl3 | ADP-ribosylation factor-like protein 3 isoform 1 [Mus musculus] | 0.710 |
| ENSMUSG00000 | Adh5 | alcohol dehydrogenase class-3 isoform 1 [Mus musculus] | 0.708 |
| ENSMUSG00000 | Gde1 | glycerophosphodiester phosphodiesterase 1 [Mus musculus] | 0.708 |
| ENSMUSG00000 | Fh1 | fumarate hydratase, mitochondrial precursor [Mus musculus] | 0.707 |
| ENSMUSG00000 | Mri1 | methylthioribose-1-phosphate isomerase [Mus musculus] | 0.707 |
| ENSMUSG00000 | Atp5g3 | ATP synthase F(0) complex subunit C3, mitochondrial isoform a precursor [Mus musculus] | 0.706 |
| ENSMUSG00000 | Agpat2 | 1-acyl-sn-glycerol-3-phosphate acyltransferase beta precursor [Mus musculus] | 0.706 |
| ENSMUSG00000 | Mrpl15 | 39S ribosomal protein L15, mitochondrial isoform 1 precursor [Mus musculus] | 0.706 |
| ENSMUSG00000 | Eef1g | speckle targeted PIP5K1A-regulated | 0.706 |
| Ensembl ID | Gene Name | Description |
|------------|-----------|-------------|
| ENSEMBL000000039660 | D2Wsu | putative methyltransferase C9orf114 homolog [Mus musculus] |
| ENSEMBL000000040385 | Ppp1ca | serine/threonine-protein phosphatase PP1-alpha catalytic subunit [Mus musculus] |
| ENSEMBL000000060288 | Ppih | peptidyl-prolyl cis-trans isomerase H isoform 2 [Mus musculus] |
| ENSEMBL000000028070 | Apoa1b | NAD(P)H-hydrate epimerase precursor [Mus musculus] |
| ENSEMBL000000038489 | Polr2l | Ab1-108 [Rattus norvegicus] |
| ENSEMBL000000060098 | Prmt7 | mKIAA1933 protein, partial [Mus musculus] |
| ENSEMBL000000037916 | Ndufv1 | NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial precursor [Mus musculus] |
| ENSEMBL000000027597 | Ahcy | mCG21063, isoform CRA_b, partial [Mus musculus] |
| ENSEMBL000000061979 | Wbscr1 | RCC1-like G exchanging factor-like protein [Mus musculus] |
| Accession   | Gene Symbol | Description                                                                 | Score |
|------------|-------------|------------------------------------------------------------------------------|-------|
| ENSMUSG000000103472 | Pcdhga7     | protocadherin gamma-A7 precursor [Mus musculus]                              | 0.704 |
| ENSMUSG000000032306 | Mpi         | mannose-6-phosphate isomerase [Mus musculus]                                | 0.704 |
| ENSMUSG000000028673 | Fuca1       | tissue alpha-L-fucosidase precursor [Mus musculus]                           | 0.703 |
| ENSMUSG000000025290 | Rps24       | 40S ribosomal protein S24 isoform X1 [Heterocephalus glaber]                 | 0.703 |
| ENSMUSG000000020767 | Mrpl2       | 39S ribosomal protein L2, mitochondrial isoform 1 precursor [Mus musculus]   | 0.702 |
| ENSMUSG000000024164 | C3          | complement C3 preproprotein [Mus musculus]                                  | 0.702 |
| ENSMUSG000000025747 | Tyms        | thymidylate synthase, isoform CRA_a, partial [Mus musculus]                 | 0.702 |
| ENSMUSG000000050335 | Lgals3      | galectin-3 [Mus musculus]                                                   | 0.701 |
| ENSMUSG000000030826 | Bcat2       | branched-chain-amino-acid aminotransferase, mitochondrial isoform 1 precursor [Mus musculus] | 0.701 |
| ENSMUSG000000049960 | Mrps16      | 28S ribosomal protein S16, mitochondrial precursor [Mus musculus]            | 0.701 |
| ENSMUSG00000000000 | Ethel       | persulfide dioxygenase ETHE1,                                               | 0.700 |
| ENSMUSG00000 | 064254 | mitochondrial precursor [Mus musculus] |
|-------------|--------|---------------------------------------|
| ENSMUSG00000 | 079641 | Rpl39 mCG146274, partial [Mus musculus] |
| ENSMUSG00000 | 028772 | Zcche17 nucleolar protein of 40 kDa isoform X1 [Mus pahari] |
| ENSMUSG00000 | 028334 | Nans sialic acid synthase [Mus musculus] |
| ENSMUSG00000 | 007041 | Clic1 chloride intracellular channel protein 1 [Mus musculus] |
| ENSMUSG00000 | 029713 | Gnb2 guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 [Mus musculus] |
| ENSMUSG00000 | 036613 | Tssc1 EARP-interacting protein [Mus musculus] |
| ENSMUSG00000 | 016503 | Gtf3a general transcription factor III A, isoform CRA_a, partial [Mus musculus] |
| ENSMUSG00000 | 070284 | Gmppb PREDICTED: mannose-1-phosphate guanylyltransferase beta isoform X1 [Rattus norvegicus] |
| ENSMUSG00000 | 006818 | Sod2 manganese superoxide dismutase [Mus musculus] |
| ENSMUSG00000 | Fkbp2 | peptidyl-prolyl cis-trans isomerase FKBP2 |
| Gene ID       | Description                                               | ENSMUSG ID | RPKM |
|--------------|------------------------------------------------------------|-----------|------|
| 056629       | isoform X1 [Mus pahari]                                     |           |      |
| ENSMUSG000000034974 | PREDICTED: death-associated protein kinase 3 isoform X1 [Rattus norvegicus] |          | 0.697|
| ENSMUSG00000044303 | cyclin-dependent kinase inhibitor 2A p16INK4a [Mus musculus] |          | 0.696|
| ENSMUSG00000073702 | mCG126194, isoform CRA_b [Mus musculus] |          | 0.695|
| ENSMUSG00000021024 | proteasome (prosome, macropain) subunit, alpha type 6, isoform CRA_b, partial [Mus musculus] |          | 0.695|
| ENSMUSG00000042660 | WD repeat-containing protein 55 [Mus musculus] |          | 0.695|
| ENSMUSG00000028029 | aminoacyl tRNA synthase complex-interacting multifunctional protein 1 [Mus musculus] |          | 0.695|
| ENSMUSG00000007950 | protein ABHD8 [Mus musculus] |          | 0.695|
| ENSMUSG00000020225 | protein lifeguard 4 [Mus musculus] |          | 0.694|
| ENSMUSG00000049751 | LOW QUALITY PROTEIN: 60S ribosomal protein L36a [Mus caroli] |          | 0.694|
| ENSMUSG000000Atp5o | ATP synthase subunit O, mitochondrial |          | 0.694|
| Gene ID     | Description                                                                 | Expression Score |
|------------|-----------------------------------------------------------------------------|-------------------|
| 022956     | precursor [Mus musculus]                                                    |                  |
| ENSMGUS00000039183 | Nubp2 cytosolic Fe-S cluster assembly factor NUBP2 isoform 1 [Mus musculus] | 0.693             |
| ENSMGUS00000035493 | Tgfbi transforming growth factor-beta-induced protein ig-h3 precursor [Mus musculus] | 0.693             |
| ENSMGUS00000025289 | Prdx4 peroxiredoxin-4 isoform 2 precursor [Mus musculus]                  | 0.693             |
| ENSMGUS00000030079 | Ruvbl1 ruvB-like 1 [Mus musculus]                                          | 0.693             |
| ENSMGUS00000060803 | Gstp1 glutathione S-transferase P 1 [Mus musculus]                         | 0.693             |
| ENSMGUS00000029622 | Arpe1b actin-related protein 2/3 complex subunit 1B [Mus musculus]         | 0.693             |
| ENSMGUS00000041506 | Rrp9 U3 small nucleolar RNA-interacting protein 2 [Mus musculus]           | 0.693             |
| ENSMGUS00000021996 | Esd S-formylglutathione hydrolase isoform 1 [Mus musculus]                 | 0.693             |
| ENSMGUS00000032399 | Rpl4 PREDICTED: 60S ribosomal protein L4 [Dipodomys ordii]                 | 0.692             |
| ENSMGUS000000078440 | Dohh deoxyhypusine hydroxylase [Mus musculus]                            | 0.692             |
| ENSMGUS000000Psmbl | proteasome subunit beta type-1 precursor                                   | 0.691             |
| Gene ID       | Gene Symbol | Description                                                                 | Score |
|--------------|-------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000029028 | Lrrc47      | leucine-rich repeat-containing protein 47 [Mus musculus]                    | 0.690 |
| ENSMUSG000000029028 | Ndufa9      | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial precursor [Mus musculus] | 0.690 |
| ENSMUSG000000029028 | Psmc4       | 26S proteasome regulatory subunit 6B [Rattus norvegicus]                    | 0.690 |
| ENSMUSG000000029028 | Uqcrfs1     | cytochrome b-c1 complex subunit Rieske, mitochondrial [Mus musculus]       | 0.690 |
| ENSMUSG000000029028 | Rabepk      | rab9 effector protein with kelch motifs [Mus musculus]                     | 0.690 |
| ENSMUSG000000029028 | Polr1d      | DNA-directed RNA polymerases I and III subunit RPAC2 isoform 1 [Mus musculus] | 0.689 |
| ENSMUSG000000029028 | Cndp2       | cytosolic non-specific dipeptidase [Mus musculus]                          | 0.689 |
| ENSMUSG000000029028 | Taldo1      | transaldolase [Mus musculus]                                               | 0.689 |
| ENSMUSG000000029028 | Nudt2       | Nudt2 gene product [Mus musculus]                                          | 0.689 |
| ENSMUSG000000029028 | Isyna1      | inositol-3-phosphate synthase 1 [Mus musculus]                             | 0.688 |
| Gene ID     | Accession | Description                                                                 | Score |
|------------|-----------|-----------------------------------------------------------------------------|-------|
| ENSMUSG00000002233 | Rhoc     | p21RhoC [Mus musculus]                                                      | 0.688 |
| ENSMUSG000000015671 | Psma2    | proteasome subunit alpha type-2 [Rattus norvegicus]                        | 0.687 |
| ENSMUSG000000034892 | Rps29    | mCG7602, partial [Mus musculus]                                            | 0.687 |
| ENSMUSG000000030595 | Nfkbib   | NF-kappa-B inhibitor beta [Mus musculus]                                    | 0.686 |
| ENSMUSG000000028898 | Trnau1ap | tRNA selenocysteine 1-associated protein 1 [Mus musculus]                  | 0.686 |
| ENSMUSG000000041571 | Sepw1    | selenoprotein W [Mus caroli]                                                | 0.686 |
| ENSMUSG000000016256 | Ctsz     | cathepsin Z preproprotein [Mus musculus]                                   | 0.686 |
| ENSMUSG000000028932 | Psmc2    | 26S proteasome regulatory subunit 7 [Mus musculus]                         | 0.686 |
| ENSMUSG000000042729 | Wdr74    | WD repeat-containing protein 74 [Mus musculus]                             | 0.686 |
| ENSMUSG000000021178 | Psmc1    | 26S protease regulatory subunit 4 [Heterocephalus glaber]                  | 0.685 |
| ENSMUSG000000052456 | Asna1    | PREDICTED: ATPase ASNA1 [Nannospalax galili]                                | 0.685 |
| Ensembl ID     | Gene Symbol | Gene Name                                                                 | Similarity Score |
|---------------|-------------|---------------------------------------------------------------------------|------------------|
| ENSMUSG00000 079435 | Rpl36a      | LOW QUALITY PROTEIN: 60S ribosomal protein L36a [Mus caroli]               | 0.684            |
| ENSMUSG00000 053398 | Phgdh       | D-3-phosphoglycerate dehydrogenase [Mus musculus]                         | 0.684            |
| ENSMUSG00000 026377 | Nifk        | MKI67 FHA domain-interacting nucleolar phosphoprotein [Mus musculus]      | 0.681            |
| ENSMUSG00000 031429 | Psmd10      | 26S proteasome non-ATPase regulatory subunit 10 isoform 1 [Mus musculus]  | 0.680            |
| ENSMUSG00000 068749 | Psma5       | proteasome subunit alpha type-5 [Mus musculus]                            | 0.680            |
| ENSMUSG00000 062345 | Serpinb2    | PREDICTED: plasminogen activator inhibitor 2, macrophage isoform X1 [Mus musculus] | 0.680            |
| ENSMUSG00000 003299 | Mrpl4       | Mrpl4 protein, partial [Mus musculus]                                     | 0.680            |
| ENSMUSG00000 026750 | Psmb7       | proteasome subunit beta type-7 precursor [Mus musculus]                   | 0.680            |
| ENSMUSG00000 060376 | Bckdha      | 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial [Mus musculus] | 0.680            |
| ENSMUSG00000 020267 | Hint1       | histidine triad nucleotide-binding protein 1 [Mus musculus]               | 0.679            |
| ENSMUSG00000 020267 | Hspe1       | 10 kDa heat shock protein, mitochondrial                                   | 0.679            |
| Accession     | Ensembl ID | Description                                                                 | Score |
|--------------|------------|------------------------------------------------------------------------------|-------|
| 073676       |            | [Mus musculus]                                                               |       |
| ENSMUSG000000020089 | Ppa1      | pyrophosphatase (inorganic) 1, partial [Mus musculus]                        | 0.679 |
| ENSMUSG000000068417 | Pnp2      | purine-nucleoside phosphorylase 2 [Mus musculus]                             | 0.679 |
| ENSMUSG000000003868 | Ruvbl2    | ruvB-like 2 [Mus musculus]                                                   | 0.678 |
| ENSMUSG000000022474 | Pmm1      | phosphomannomutase 1 isoform 1 [Mus musculus]                               | 0.678 |
| ENSMUSG000000005803 | Sqrld     | sulfide:quinone oxidoreductase, mitochondrial [Mus musculus]                 | 0.678 |
| ENSMUSG0000000059323 | Tonsl     | tonsoku-like protein [Mus musculus]                                          | 0.677 |
| ENSMUSG0000000046865 | Fbl       | PREDICTED: rRNA 2'-O-methyltransferase fibrillarin                            | 0.675 |
| ENSMUSG000000026956 | Uap11l    | UDP-N-acetylhexosamine pyrophosphorylase-like protein 1 [Mus musculus]       | 0.675 |
| ENSMUSG0000000012474 | Rps17     | 40S ribosomal protein S17 [Mus musculus]                                     | 0.676 |
| ENSMUSG0000000024436 | Mrps18b   | 28S ribosomal protein S18b, mitochondrial isoform 1 [Mus musculus]          | 0.676 |
| Gene ID         | Gene Name       | Description                                              | Score |
|----------------|-----------------|----------------------------------------------------------|-------|
| ENSMUSG000000002580 | Mien1           | migration and invasion enhancer 1 [Mus musculus]         | 0.675 |
| ENSMUSG00000028848  | Gpn2            | GPN-loop GTPase 2 isoform 1 [Mus musculus]               | 0.675 |
| ENSMUSG000000062867 | Impdh2          | inosine-5'-monophosphate dehydrogenase 2 [Mus musculus] | 0.674 |
| ENSMUSG000000026820 | Ptges2          | prostaglandin E synthase 2 [Mus musculus]               | 0.674 |
| ENSMUSG000000020444 | Guk1            | guanylate kinase isoform 1 [Mus musculus]                | 0.674 |
| ENSMUSG000000078695 | Cisd3           | CDGSH iron-sulfur domain-containing protein 3, mitochondrial precursor [Mus musculus] | 0.673 |
| ENSMUSG000000095687 | Rnaset2         | ribonuclease T2-B precursor [Mus musculus]               | 0.673 |
| ENSMUSG000000030189 | Ybx3            | Y-box-binding protein 3 long isoform [Mus musculus]      | 0.672 |
| ENSMUSG000000005447 | Pafah1b3        | platelet-activating factor acetylhydrolase IB subunit gamma [Mus musculus] | 0.672 |
| ENSMUSG000000098274 | Rpl24           | Rpl24 protein, partial [Mus musculus]                    | 0.671 |
| Gene ID           | Symbol | Description                                                                 | Score |
|------------------|--------|-----------------------------------------------------------------------------|-------|
| ENSMUSG00000006299 | Aamp   | angio-associated migratory cell protein isoform 1 [Mus musculus]            | 0.671 |
| ENSMUSG00000004929 | Thop1  | thimet oligopeptidase [Mus musculus]                                         | 0.671 |
| ENSMUSG00000019179 | Mdh2  | malate dehydrogenase, mitochondrial precursor [Mus musculus]                  | 0.670 |
| ENSMUSG00000000295 | Hddc2  | HD domain-containing protein 2 [Mus musculus]                                 | 0.669 |
| ENSMUSG00000002102 | Psmc3  | proteasome (prosome, macropain) 26S subunit, ATPase 3, isoform CRA_c [Mus musculus] | 0.668 |
| ENSMUSG000000035754 | Wdr18  | WD repeat-containing protein 18 [Mus musculus]                                | 0.668 |
| ENSMUSG000000035027 | Map2k2 | dual specificity mitogen-activated protein kinase kinase 2 isoform 1 [Mus musculus] | 0.668 |
| ENSMUSG000000029066 | Mrpl20 | 39S ribosomal protein L20, mitochondrial precursor [Mus musculus]             | 0.668 |
| ENSMUSG000000018858 | Ict1   | peptidyl-tRNA hydrolase ICT1, mitochondrial isoform 2 precursor [Mus musculus] | 0.667 |
| ENSMUSG000000025825 | Iscu   | mCG3543, isoform CRA_a [Mus musculus]                                         | 0.667 |
| Gene ID       | Accession | Description                                                                 | Similarity |
|--------------|-----------|------------------------------------------------------------------------------|------------|
| ENSMUSG000000019505 | Ubb      | polyubiquitin-B [Mus musculus]                                                | 0.666      |
| ENSMUSG000000057841 | Rpl32     | 60S ribosomal protein L32 [Mesocricetus auratus]                              | 0.666      |
| ENSMUSG00000004610 | Etfb     | electron transfer flavoprotein subunit beta [Mus musculus]                   | 0.665      |
| ENSMUSG000000028495 | Rps6     | 40S ribosomal protein S6 [Mus musculus]                                      | 0.664      |
| ENSMUSG000000020736 | Nt5c     | 5&apos;(3&apos;)-deoxyribonucleotidase, cytosolic type [Mus musculus]         | 0.664      |
| ENSMUSG000000008683 | Rps15a   | Rps15a protein, partial [Mus musculus]                                      | 0.664      |
| ENSMUSG000000031383 | Dusp9    | dual specificity phosphatase 9, isoform CRA_c [Mus musculus]                 | 0.663      |
| ENSMUSG000000070394 | Tmem256  | transmembrane protein 256 precursor [Mus musculus]                           | 0.663      |
| ENSMUSG000000022503 | Nubp1    | cytosolic Fe-S cluster assembly factor NUBP1 [Mus musculus]                  | 0.663      |
| ENSMUSG000000006057 | Atp5g1   | ATP synthase F(0) complex subunit C1, mitochondrial [Mus musculus]           | 0.663      |
| ENSMUSG000000022407 | Adsl     | adenylsuccinate lyase [Mus musculus]                                         | 0.663      |
| Accession   | Gene ID | Gene Name       | Description                                                                 | Score |
|-------------|---------|-----------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG00000 024158 | Hagh    | hydroxyacylglutathione hydrolase, mitochondrial isoform 1 precursor [Mus musculus] | 0.662 |
| ENSMUSG00000 046364 | Rpl27a  | 60S ribosomal protein L27a [Mesocricetus auratus]                             | 0.661 |
| ENSMUSG00000 004393 | Ddx56   | probable ATP-dependent RNA helicase DDX56 [Mus musculus]                    | 0.661 |
| ENSMUSG00000 022557 | Bop1    | ribosome biogenesis protein BOP1 [Mus musculus]                             | 0.660 |
| ENSMUSG00000 012405 | Rpl15   | 60S ribosomal protein L15 [Mus musculus]                                    | 0.660 |
| ENSMUSG00000 040688 | Tbl3    | transducin beta-like protein 3 [Mus musculus]                               | 0.660 |
| ENSMUSG00000 010911 | Apip    | methylthioribulose-1-phosphate dehydratase isoform 1 [Mus musculus]         | 0.660 |
| ENSMUSG00000 059743 | Fdps    | farnesyl pyrophosphate synthase isoform 2 [Mus musculus]                    | 0.660 |
| ENSMUSG00000 006517 | Mvd     | diphosphomevalonate decarboxylase [Mus musculus]                            | 0.659 |
| ENSMUSG00000 025794 | Rpl14   | 60S ribosomal protein L14 [Mus musculus]                                    | 0.659 |
| ENSMUSG00000 000000 | Mif     | macrophage migration inhibitory factor                                      | 0.659 |
| Accession     | Gene Symbol | Description                                                                 | Score |
|--------------|-------------|-----------------------------------------------------------------------------|-------|
| ENSMUSG000000028367 | Txn1        | thioredoxin [Mus musculus]                                                  | 0.659 |
| ENSMUSG000000047215  | Rpl9        | 60S ribosomal protein L9 [Mus musculus]                                     | 0.659 |
| ENSMUSG000000041841  | Rpl37       | PREDICTED: 60S ribosomal protein L37 [Nannospalax galili]                   | 0.659 |
| ENSMUSG000000005510  | Ndufs3      | NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial precursor [Mus musculus] | 0.658 |
| ENSMUSG000000006378  | Gcat        | 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial isoform a [Mus musculus] | 0.658 |
| ENSMUSG000000026036  | Nif3l1      | NIF3-like protein 1 [Mus musculus]                                          | 0.658 |
| ENSMUSG000000025651  | Uqrc1       | cytochrome b-c1 complex subunit 1, mitochondrial precursor [Mus musculus]    | 0.658 |
| ENSMUSG000000067288  | Rps28       | ribosomal protein S28, partial [Cricetulus griseus]                         | 0.657 |
| ENSMUSG000000031388  | Naa10       | N-alpha-acetyltransferase 10 isoform 1 [Mus musculus]                       | 0.657 |
| ENSMUSG000000020346  | Prdx2       | peroxiredoxin-2 [Mus musculus]                                              | 0.657 |
| Gene ID       | Description                                                                 | Expression Score |
|--------------|------------------------------------------------------------------------------|------------------|
| ENSMUSG000000040034 | Nup43, nucleoporin 43, isoform CRA_a, partial [Mus musculus]                 | 0.657            |
| ENSMUSG000000024132 | Eci1, enoyl-CoA delta isomerase 1, mitochondrial precursor [Mus musculus]    | 0.656            |
| ENSMUSG000000006717 | Acot13, acyl-coenzyme A thioesterase 13 [Mus musculus]                      | 0.656            |
| ENSMUSG000000050708 | Ftl1, ferritin light chain 1 [Mus musculus]                                 | 0.655            |
| ENSMUSG000000036880 | Acaa2, 3-ketoacyl-CoA thiolase, mitochondrial [Mus musculus]                | 0.655            |
| ENSMUSG000000067274 | Rplp0, 60S acidic ribosomal protein P0 [Mus musculus]                        | 0.654            |
| ENSMUSG000000070319 | Eif3g, eukaryotic translation initiation factor 3 subunit G [Mus musculus]  | 0.654            |
| ENSMUSG000000015806 | Qdpr, dihydropteridine reductase [Mus musculus]                             | 0.654            |
| ENSMUSG000000048755 | Mcat, malonyl-CoA-acyl carrier protein transacylase, mitochondrial [Mus musculus] | 0.653            |
| ENSMUSG000000022013 | Dnaje15, dnaJ homolog subfamily C member 15 [Mus musculus]                  | 0.653            |
| ENSMUSG00000028684 | Urod | uroporphyrinogen decarboxylase [Mus musculus] | 0.652 |
|---------------------|------|---------------------------------|------|
| ENSMUSG00000022570 | Tsta3 | tissue specific transplantation antigen P35B, isoform CRA_b, partial [Mus musculus] | 0.652 |
| ENSMUSG00000028798 | Eif3i | eukaryotic translation initiation factor 3 subunit I [Mus musculus] | 0.652 |
| ENSMUSG000000003429 | Rps11 | PREDICTED: 40S ribosomal protein S11 [Dipodomys ordii] | 0.652 |
| ENSMUSG00000029198 | GrpE1 | grpE protein homolog 1, mitochondrial [Mus caroli] | 0.652 |
| ENSMUSG000000059291 | Rpl11 | 60S ribosomal protein L11 [Mus musculus] | 0.652 |
| ENSMUSG000000022193 | Psmb5 | proteasome subunit beta type-5 [Mus musculus] | 0.651 |
| ENSMUSG000000067148 | Polr1c | DNA-directed RNA polymerases I and III subunit RPAC1 [Mus musculus] | 0.651 |
| ENSMUSG000000020471 | Pold2 | DNA polymerase delta subunit 2 [Mus musculus] | 0.651 |
| ENSMUSG000000030879 | Mrpl17 | 39S ribosomal protein L17, mitochondrial [Mus caroli] | 0.650 |
| ENSMUSG0000000264 | Rpl34 | 60S ribosomal protein L34 [Mus musculus] | 0.649 |
| Gene Accession | Gene Symbol | Gene Name                                      | Expression Score |
|---------------|-------------|-----------------------------------------------|------------------|
| ENSMUSG000000| Fdx11       | Ferredoxin-2, mitochondrial precursor [Mus musculus] | 0.649            |
| ENSMUSG000000| Srm         | Spermidine synthase [Mus musculus]            | 0.649            |
| ENSMUSG000000| Ndufaf5     | Arginine-hydroxylase NDUFAF5, mitochondrial precursor [Mus musculus] | 0.648            |
| ENSMUSG000000| Rps3a1      | 40S ribosomal protein S3a [Mus musculus]      | 0.648            |
| ENSMUSG000000| Ckb         | Creatine kinase B-type [Mus musculus]         | 0.647            |
| ENSMUSG000000| Mrps14      | 28S ribosomal protein S14, mitochondrial isoform 1 [Mus musculus] | 0.647            |
| ENSMUSG000000| Rras        | Ras-related protein R-Ras isoform 1 precursor [Mus musculus] | 0.647            |
| ENSMUSG000000| Mrps12      | 28S ribosomal protein S12, mitochondrial isoform a precursor [Mus musculus] | 0.647            |
| ENSMUSG000000| Glrx        | Glutaredoxin-1 [Mus musculus]                 | 0.647            |
| ENSMUSG000000| Atp6v1f     | V-type proton ATPase subunit F [Rattus norvegicus] | 0.646            |
| ENSMUSG000000| Mrpl36      | 39S ribosomal protein L36, mitochondrial      | 0.646            |
| Accession     | Gene ID | Name                                                                                     | Symbol       | Description                                                                 | Score |
|--------------|---------|------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------|-------|
| 021607       |         | [Mus musculus]                                                                           |              |                                                                             |       |
| ENSMUSG00000 | 036781  | 40S ribosomal protein S27-like isoform 1 [Mus musculus]                                  | Rps27l       |                                                                             | 0.645 |
| ENSMUSG00000 | 030538  | calcium and integrin-binding protein 1 isoform 1 [Mus musculus]                          | Cib1         |                                                                             | 0.644 |
| ENSMUSG00000 | 008668  | mCG114988 [Mus musculus]                                                                  | Rps18        |                                                                             | 0.644 |
| ENSMUSG00000 | 059734  | NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial [Mus musculus]     | Ndufs8       |                                                                             | 0.644 |
| ENSMUSG00000 | 090733  | PREDICTED: 40S ribosomal protein S27-like [Microtus ochrogaster]                         | Rps27        |                                                                             | 0.644 |
| ENSMUSG00000 | 020857  | nucleoside diphosphate kinase B [Mus musculus]                                           | Nme2         |                                                                             | 0.643 |
| ENSMUSG00000 | 001642  | aldose reductase [Mus musculus]                                                          | Akr1b3       |                                                                             | 0.642 |
| ENSMUSG00000 | 021025  | nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha, partial   | Nfkbia       |                                                                             | 0.642 |
| ENSMUSG00000 | 025580  | eukaryotic initiation factor 4A-III [Mus musculus]                                       | Eif4a3       |                                                                             | 0.642 |
| ENSMUSG00000 |         | glyoxylate reductase/hydroxypyruvate                                                     | Grhpr        |                                                                             | 0.642 |
| ID       | Gene Name                        | Description                                                      | Score |
|----------|----------------------------------|------------------------------------------------------------------|-------|
| 035637   | reductase isoform 1 [Mus musculus]|                                                                  |       |
| ENSMUSG00000004264 | Phb2                             | prohibitin-2 [Mus musculus]                                      | 0.642 |
| ENSMUSG00000032171 | Pin1                             | peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 [Mus musculus] | 0.642 |
| ENSMUSG00000023967 | Mrps18a                          | 28S ribosomal protein S18a, mitochondrial precursor [Mus musculus] | 0.641 |
| ENSMUSG00000029545 | Acads                            | short-chain specific acyl-CoA dehydrogenase, mitochondrial [Mus pahari] | 0.641 |
| ENSMUSG00000028651 | Ppie                             | peptidyl-prolyl cis-trans isomerase E [Mus musculus]              | 0.641 |
| ENSMUSG00000038650 | Rnh1                             | ribonuclease inhibitor isoform a [Mus musculus]                   | 0.640 |
| ENSMUSG00000028741 | Mrto4                            | mRNA turnover protein 4 homolog isoform 1 [Mus musculus]          | 0.640 |
| ENSMUSG000000001285 | Myg1                             | UPF0160 protein MYG1, mitochondrial precursor [Mus musculus]      | 0.640 |
| ENSMUSG000000004667 | Polr2e                           | DNA-directed RNA polymerases I, II, and III subunit RPABC1 [Mus musculus] | 0.639 |
| ENSMUSG000000063457 | Rps15                            | 40S ribosomal protein S15 [Ictidomys tridecemlineatus]             | 0.639 |
| Ensembl ID       | Protein Name                           | Description                                                                 | Score |
|------------------|----------------------------------------|------------------------------------------------------------------------------|-------|
| ENSMUSG000000002010 | Idh3g                                  | isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial isoform 1 precursor [Mus musculus] | 0.638 |
| ENSMUSG000000025362 | Rps26                                  | 40S ribosomal protein S26 [Rattus norvegicus]                               | 0.638 |
| ENSMUSG000000011254 | Thg11                                  | probable tRNA(Thr) guanylyltransferase isoform 1 [Mus musculus]             | 0.638 |
| ENSMUSG000000002797 | Ggct                                    | gamma-glutamylcyclotransferase [Mus musculus]                               | 0.638 |
| ENSMUSG000000028910 | Mecr                                    | enoyl-[acyl-carrier-protein] reductase, mitochondrial precursor [Mus musculus] | 0.638 |
| ENSMUSG000000015092 | Edf1                                    | endothelial differentiation-related factor 1 [Mus musculus]                 | 0.638 |
| ENSMUSG0000000060938 | Rpl26                                  | PREDICTED: 60S ribosomal protein L26-like [Microtus ochrogaster]             | 0.637 |
| ENSMUSG000000021606 | Ndufs6                                 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial precursor [Mus musculus] | 0.637 |
| ENSMUSG000000021102 | Glrx5                                  | glutaredoxin-related protein 5, mitochondrial [Mus caroli]                  | 0.637 |
| ENSMUSG0000000058546 | Rpl23a                                 | PREDICTED: 60S ribosomal protein L23a isoform X1 [Cricetulus griseus]        | 0.636 |
| Gene ID          | Gene Symbol | Description                                                                 | Score |
|-----------------|-------------|------------------------------------------------------------------------------|-------|
| ENSMUSG000000030652 | Coq7        | 5-demethoxyubiquinone hydroxylase, mitochondrial isoform 2 [Mus musculus]    | 0.636 |
| ENSMUSG000000020372 | Gnb211     | protein kinase C receptor [Rattus norvegicus]                               | 0.636 |
| ENSMUSG000000024121 | Atp6v0c    | V-type proton ATPase 16 kDa proteolipid subunit [Mus musculus]              | 0.636 |
| ENSMUSG000000008682 | Rpl10      | 60S ribosomal protein L10 [Rattus norvegicus]                               | 0.636 |
| ENSMUSG0000000074797 | Itpa       | inosine triphosphate pyrophosphatase [Mus musculus]                        | 0.634 |
| ENSMUSG000000027566 | Psma7      | proteasome subunit alpha type-7 isoform 1 [Mus musculus]                    | 0.633 |
| ENSMUSG000000038845 | Phb        | prohibitin [Mus musculus]                                                   | 0.633 |
| ENSMUSG000000034880 | Mrp134     | 39S ribosomal protein L34, mitochondrial [Mus musculus]                     | 0.633 |
| ENSMUSG000000022551 | Cyc1       | cytochrome c1, heme protein, mitochondrial [Mus musculus]                   | 0.632 |
| ENSMUSG0000000069744 | Psmb3      | proteasome subunit beta type-3 [Mus musculus]                              | 0.631 |
| ENSMUSG0000000035215 | Lsm7       | U6 snRNA-associated Sm-like protein LSm7 isoform 4 [Mus musculus]           | 0.630 |
| Gene ID     | Gene Symbol | Description                                                                 | Score |
|------------|-------------|------------------------------------------------------------------------------|-------|
| ENSMUSG00000032518 | Rpsa        | mCG2650 [Mus musculus]                                                       | 0.629 |
| ENSMUSG00000020766 | Galk1       | Galactokinase 1 [Mus musculus]                                               | 0.629 |
| ENSMUSG00000024414 | Mrpl27      | 39S ribosomal protein L27, mitochondrial [Mus musculus]                      | 0.628 |
| ENSMUSG00000038900 | Rpl12       | 60S ribosomal protein L12 [Mus musculus]                                    | 0.628 |
| ENSMUSG00000042462 | Dctpp1      | dCTP pyrophosphatase 1 [Mus musculus]                                        | 0.628 |
| ENSMUSG00000026520 | Pycr2       | pyrroline-5-carboxylate reductase 2 [Mus musculus]                           | 0.627 |
| ENSMUSG00000028743 | Akr7a5      | aflatoxin B1 aldehyde reductase member 2 [Mus musculus]                      | 0.626 |
| ENSMUSG00000024661 | Fth1        | ferritin heavy chain [Mus musculus]                                          | 0.625 |
| ENSMUSG000000078931 | Pdfr        | peptide deformylase, mitochondrial [Mus musculus]                           | 0.625 |
| ENSMUSG000000063931 | Pepd        | xaa-Pro dipeptidase [Mus musculus]                                           | 0.624 |
| ENSMUSG00000000740 | Rpl13       | 60S ribosomal protein L13 [Mus musculus]                                     | 0.624 |
| ENSMUSG00000047675 | Rps8  | 40S ribosomal protein S8 [Ictidomys tridecemlineatus] | 0.622 |
|---------------------|-------|-----------------------------------------------------|-------|
| ENSMUSG00000054716  | Zfp771| zinc finger protein 771 isoform X2 [Mesocricetus auratus] | 0.622 |
| ENSMUSG00000026177  | Slc11a1| natural resistance-associated macrophage protein 1 [Mus musculus] | 0.621 |
| ENSMUSG000000070272 | Atp5d | ATP synthase subunit delta, mitochondrial isoform 1 precursor [Mus musculus] | 0.620 |
| ENSMUSG00000007090862 | Rps13 | PREDICTED: 40S ribosomal protein S13 [Dipodomys ordii] | 0.620 |
| ENSMUSG00000007003856 | Gpx1 | glutathione peroxidase 1 isoform 1 [Mus musculus] | 0.619 |
| ENSMUSG00000007036733 | Rbm42 | RNA-binding protein 42 isoform X3 [Heterocephalus glaber] | 0.619 |
| ENSMUSG000000070023939 | Mrp114 | 39S ribosomal protein L14, mitochondrial precursor [Mus musculus] | 0.618 |
| ENSMUSG000000070024944  | Arl2  | ADP-ribosylation factor-like protein 2 [Mus musculus] | 0.617 |
| ENSMUSG0000000700024944  | Aprt  | adenine phosphoribosyltransferase [Mus musculus] | 0.615 |
| ENSMUSG000000070433445  | Pgp   | glycerol-3-phosphate phosphatase [Mus musculus] | 0.615 |
| Accession     | ID    | Description                                                                 | Score |
|--------------|-------|------------------------------------------------------------------------------|-------|
| ENSMUSG000000022947 | Cbr3  | carbonyl reductase [NADPH] 3 [Mus musculus]                                  | 0.614 |
| ENSMUSG000000031171 | Ftsj1 | putative tRNA (cytidine(32)/guanosine(34)-2'-O)-methyltransferase isoform 1 [Mus musculus] | 0.614 |
| ENSMUSG000000003355 | Fkbp11| peptidyl-prolyl cis-trans isomerase FKBP11 isoform 1 precursor [Mus musculus] | 0.614 |
| ENSMUSG000000052926 | Rnaseh2a | ribonuclease H2 subunit A [Mus musculus]                                    | 0.614 |
| ENSMUSG000000053746 | Prth1 | probable peptidyl-tRNA hydrolase [Mus musculus]                             | 0.613 |
| ENSMUSG000000032673 | Prorsd1 | prolyl-tRNA synthetase associated domain-containing protein 1 isoform 2 [Mus musculus] | 0.612 |
| ENSMUSG000000070283 | Ndufa3 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3 [Mus musculus] | 0.612 |
| ENSMUSG000000053801 | Grwd1 | glutamate-rich WD repeat-containing protein 1 [Mus musculus]                 | 0.611 |
| ENSMUSG0000000 | Sco2  | protein SCO2 homolog, mitochondrial                                          | 0.611 |
| Accession     | Description                                                                 | Similarity Score |
|--------------|------------------------------------------------------------------------------|------------------|
| 091780       | [Mus musculus]                                                               |                  |
| ENSMUSG000000063171 | 40S ribosomal protein S4, X isoform-like [Mus caroli]                         | 0.611            |
| ENSMUSG00000024338 | proteasome subunit beta type-8 precursor [Mus musculus]                      | 0.611            |
| ENSMUSG00000037563 | Rps16 protein, partial [Rattus norvegicus]                                   | 0.611            |
| ENSMUSG00000052429 | protein arginine N-methyltransferase 1 isoform 1 [Mus musculus]              | 0.610            |
| ENSMUSG00000030148 | C-type lectin domain family 4 member A isoform a [Mus musculus]             | 0.610            |
| ENSMUSG00000010376 | PREDICTED: NEDD8 [Jaculus jaculus]                                           | 0.610            |
| ENSMUSG000000041845 | rho-related GTP-binding protein RhoD 1 [Mus musculus]                        | 0.610            |
| ENSMUSG000000022126 | mCG114119, partial [Mus musculus]                                            | 0.609            |
| ENSMUSG000000037601 | mCG145251, partial [Mus musculus]                                            | 0.609            |
| ENSMUSG000000025499 | GTPase HRas isoform X1 [Cavia porcellus]                                     | 0.608            |
| ENSMUSG000000091780 | alpha/beta hydrolase domain-containing [Mus musculus]                        | 0.607            |
| ENSMUSG0000062456 | Rpl9-ps 6 | mCG130981 [Mus musculus] | 0.607 |
|-------------------|----------|--------------------------|-------|
| ENSMUSG0000031897 | Psmb10   | proteasome subunit beta type-10 precursor [Mus musculus] | 0.606 |
| ENSMUSG0000042569 | Dhrs7b   | dehydrogenase/reductase SDR family member 7B isoform 2 [Mus musculus] | 0.606 |
| ENSMUSG00000031897 | Nhp2 | H/ACA ribonucleoprotein complex subunit 2 [Mus musculus] | 0.606 |
| ENSMUSG00000041736 | Tspo | translocator protein [Mus musculus] | 0.604 |
| ENSMUSG00000002660 | Clpp | ATP-dependent Clp protease proteolytic subunit, mitochondrial precursor [Mus musculus] | 0.604 |
| ENSMUSG000000075706 | Gpx4 | phospholipid hydroperoxide glutathione peroxidase, nuclear isoform B [Mus musculus] | 0.604 |
| ENSMUSG000000027613 | Eif6 | eukaryotic translation initiation factor 6 [Mus musculus] | 0.603 |
| ENSMUSG00000030611 | Mrps11 | 28S ribosomal protein S11, mitochondrial isoform 1 [Mus musculus] | 0.603 |
| ENSMUSG000000Rpl10a | 60S ribosomal protein L10a [Rattus | 0.602 |
| Gene ID     | Description                                      | Organism                   | Score |
|------------|--------------------------------------------------|----------------------------|-------|
| 037805     | norvegicus]                                      |                            | 0.601 |
| ENSMUSG0000006333 | Rps9  PREDICTED: 40S ribosomal protein S9 | [Marmota marmota marmota] |       |
| ENSMUSG00000028234 | Rps20  PREDICTED: 40S ribosomal protein S20 | [Chinchilla lanigera]     | 0.601 |
| ENSMUSG00000018286 | Psmb6 proteasome subunit beta type-6 precursor | [Mus musculus] | 0.601 |
| ENSMUSG00000017404 | Rpl19 ribosomal protein L19 | [Mus musculus] | 0.597 |
| ENSMUSG00000024608 | Rps14  PREDICTED: 40S ribosomal protein S14 isoform X1 | [Rattus norvegicus]     | 0.596 |
| ENSMUSG00000034259 | Exosc4 exosome component 4, isoform CRA_b, partial | [Mus musculus] | 0.596 |
| ENSMUSG00000028393 | Alad delta-aminolevulinic acid dehydratase | [Mus musculus] | 0.596 |
| ENSMUSG000000074129 | Rpl13a hypothetical protein | [Mus musculus] | 0.593 |
| ENSMUSG000000015943 | Bola1 bolA-like protein 1 | [Mus musculus] | 0.592 |
| ENSMUSG000000021773 | Comtd1 catechol O-methyltransferase domain-containing protein 1 | [Mus musculus] | 0.592 |
| Accession   | Description                           | Gene Name            | Description                                      | Score |
|------------|---------------------------------------|----------------------|--------------------------------------------------|-------|
| ENSMUSG00000051557 | tRNA pseudouridine synthase-like 1 [Mus musculus] | Pusl1                | Protein-lysine methyltransferase METTL21D [Mus musculus] | 0.592 |
| ENSMUSG00000049882 | mCG126277, isoform CRA_b [Mus musculus] | Vcpkmt               | Protein-lysine methyltransferase METTL21D [Mus musculus] | 0.590 |
| ENSMUSG00000040952 | mCG126277, isoform CRA_b [Mus musculus] | Rps19                | Protein-lysine methyltransferase METTL21D [Mus musculus] | 0.587 |
| ENSMUSG00000033735 | Sepiapterin reductase [Mus musculus] | Spr                  | Sepiapterin reductase [Mus musculus]              | 0.584 |
| ENSMUSG00000041939 | Mevalonate kinase isoform 1 [Mus musculus] | Mvk                  | Mevalonate kinase isoform 1 [Mus musculus]        | 0.582 |
| ENSMUSG00000004788 | Translation initiation factor eIF-2B subunit beta [Mus musculus] | Eif2b2               | Translation initiation factor eIF-2B subunit beta [Mus musculus] | 0.582 |
| ENSMUSG00000046687 | mCG15755 [Mus musculus] | Gm542 4              | mCG15755 [Mus musculus]                          | 0.582 |
| ENSMUSG00000012848 | 40S ribosomal protein S5 [Mus musculus] | Rps5                 | 40S ribosomal protein S5 [Mus musculus]          | 0.582 |
| ENSMUSG00000027079 | PREDICTED: polyribonucleotide 5'-hydroxyl-kinase Clp1 isoform X1 [Rattus norvegicus] | Clp1                 | PREDICTED: polyribonucleotide 5'-hydroxyl-kinase Clp1 isoform X1 [Rattus norvegicus] | 0.580 |
| ENSMUSG00000020834 | Dehydrogenase/reductase SDR family member 13 precursor [Mus musculus] | Dhrs13               | Dehydrogenase/reductase SDR family member 13 precursor [Mus musculus] | 0.579 |
| ENSMUSG000000012848 | Collagenase 3 preproprotein [Mus musculus] | Mmp13                | Collagenase 3 preproprotein [Mus musculus]       | 0.579 |
| ENSMUSG0000005078 | musculus] | 0.578 |
|-------------------|------------|-------|
| ENSMUSG00000032288 | Imp3 U3 small nucleolar ribonucleoprotein protein IMP3 [Mus musculus] | 0.578 |
| ENSMUSG00000020826 | Nos2 nitric oxide synthase, inducible isoform a [Mus musculus] | 0.576 |
| ENSMUSG00000020153 | Ndufs7 NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial precursor [Mus musculus] | 0.575 |
| ENSMUSG00000033020 | Polr2f DNA-directed RNA polymerases I, II, and III subunit RPABC2 [Rattus norvegicus] | 0.571 |
| ENSMUSG00000005779 | Psmb4 proteasome subunit beta type-4 precursor [Mus musculus] | 0.568 |
| ENSMUSG00000027510 | Rbm38 PREDICTED: RNA-binding protein 38 isoform X1 [Rattus norvegicus] | 0.565 |
| ENSMUSG000000066724 | Gm101 ATP synthase F(0) complex subunit C2, mitochondrial precursor [Mus musculus] | 0.563 |
| ENSMUSG000000001348 | Acp5 tartrate-resistant acid phosphatase type 5 precursor [Mus musculus] | 0.560 |
| ENSMUSG000000025533 | Asl argininosuccinate lyase [Mus musculus] | 0.559 |
| ENSMUSG000000026798 | Coq4 ubiquinone biosynthesis protein COQ4 homolog, mitochondrial [Mus musculus] | 0.559 |
| Gene ID     | Symbol | Description                                                                 | Species                | Score |
|------------|--------|-----------------------------------------------------------------------------|------------------------|-------|
| ENSMUSG00000061286 | Exose5 | exosome complex component RRP46 [Mus musculus]                             |                        | 0.554 |
| ENSMUSG00000090137 | Uba52  | PREDICTED: ubiquitin-60S ribosomal protein L40 isoform X1 [Nannospalax galili] |                        | 0.553 |
| ENSMUSG00000027679 | Dnae19 | mitochondrial import inner membrane translocase subunit TIM14 isoform 2 [Mus musculus] |                        | 0.551 |
| ENSMUSG00000019738 | Polr2i | mCG22814 [Mus musculus]                                                     |                        | 0.551 |
| ENSMUSG00000057278 | Snrpg  | Small nuclear ribonucleoprotein G [Cricetulus griseus]                      |                        | 0.542 |
| ENSMUSG00000005481 | Ddx39  | ATP-dependent RNA helicase DDX39A [Mus musculus]                           |                        | 0.538 |
| ENSMUSG000000666487 | Gm578  | mCG20835, partial [Mus musculus]                                            |                        | 0.532 |
| ENSMUSG00000022157 | Mcpt8  | mast cell protease 8 precursor [Mus musculus]                              |                        | 0.532 |
| ENSMUSG000000047721 | Bola2  | bolA-like protein 2 [Mus musculus]                                         |                        | 0.529 |
| ENSMUSG000000033220 | Rac2   | ras-related C3 botulinum toxin substrate 2 precursor [Mus musculus]        |                        | 0.527 |
| Gene ID | Gene Symbol | Gene Name | Species | Expression Value |
|---------|-------------|-----------|---------|-----------------|
| ENSMUSG0000076441 | Ass1 | argininosuccinate synthase | Mus musculus | 0.524 |
| ENSMUSG0000062328 | Rpl17 | 60S ribosomal protein L17 | Ictidomy tridecemlineatus | 0.510 |
| ENSMUSG0000068240 | Gm11808 | PREDICTED: ubiquitin-60S ribosomal protein L40 isoform X1 | Nannospalax galili | 0.504 |
| ENSMUSG0000005354 | Txn2 | thioredoxin, mitochondrial precursor | Mus musculus | 0.504 |
| ENSMUSG0000026390 | Marco | macrophage receptor MARCO | Mus musculus | 0.499 |
| ENSMUSG0000062647 | Rpl7a | Rpl7a protein, partial | Mus musculus | 0.488 |
| ENSMUSG0000049037 | Clec4a1 | C-type lectin domain family 4, member a1 | Mus musculus | 0.463 |
| ENSMUSG0000020460 | Rps27a | ubiquitin-40S ribosomal protein S27a | Mus pahari | 0.448 |
| ENSMUSG0000031722 | Hp | haptoglobin isoform 1 preproprotein | Mus musculus | 0.445 |
| ENSMUSG0000028896 | Rcc1 | regulator of chromosome condensation isoform 1 | Mus musculus | 0.443 |
| ENSMUSG00000Pgl5s | 6-phosphogluconolactonase isoform 1 | Mus musculus | 0.432 |
| Gene ID          | Description                                   | Expression Value |
|-----------------|-----------------------------------------------|------------------|
| 031807          | [Mus musculus]                                |                  |
| ENSMUSG000000027562 | Car2 carbonic anhydrase 2 [Mus musculus]      | 0.431            |
| ENSMUSG000000047676 | Rpsa-ps 10 mCG2650 [Mus musculus]             | 0.424            |
| ENSMUSG000000041453 | Rpl21 60S ribosomal protein L21 [Mus musculus] | 0.370            |
| ENSMUSG000000025150 | Cbr2 carbonyl reductase [NADPH] 2 [Mus musculus] | 0.354            |