

**Supplementary Material 1.**

**List of genes significantly changed in mouse tumours by OPP.**

This file contains two worksheets which respectively show lists of genes significantly up-regulated and down-regulated in tumours of mice supplemented with OPP. The |Differential Score| for all genes is more than 13, equivalent to a P Value of less than 0.05.

| UP-REGULATED - GENES (TREATMENT VERSUS CONTROL) |            |             |               |             |   |
|---|------------|-------------|---------------|-------------|---|
| TargetID  | Diff_Score | Fold_Change | Symbol        | Accession   | Definition  |
| scl020818.5_51-S                                | 60.4989    | 1.36        | Srprb         | NM_009275.2 | Mus musculus signal recognition particle receptor, B subunit (Srprb), mRNA.   |
| scl0003775.1_106-S                              | 58.2232    | 1.52        | Shmt2         | NM_028230.2 | Mus musculus serine hydroxymethyl transferase 2 (mitochondrial) (Shmt2), mRNA.  |
| scl0001294.1_4-S                                | 55.9572    | 1.35        | G6pc3         | NM_175935.2 | Mus musculus glucose 6 phosphatase, catalytic, 3 (G6pc3), mRNA.   |
| scl40865.6.1_13-S                               | 48.5292    | 1.34        | G6pc3         | NM_175935.2 | Mus musculus glucose 6 phosphatase, catalytic, 3 (G6pc3), mRNA.   |
| scl29486.14.1_29-S                              | 47.037     | 1.41        | D6Wsu163e     | NM_138594.2 | Mus musculus DNA segment, Chr 6, Wayne State University 163, expressed (D6Wsu163e), mRNA.                               |
| scl40540.3_48-S                                 | 46.5034    | 1.39        | 1110014L17Rik | NM_134020.1 | Mus musculus RIKEN cDNA 1110014L17 gene (1110014L17Rik), mRNA.  |
| scl0001267.1_72-S                               | 45.7446    | 1.32        | Drg1          | NM_007879.1 | Mus musculus developmentally regulated GTP binding protein 1 (Drg1), mRNA.  |
| scl0001153.1_10-S                               | 44.8152    | 3.03        | C330016K18Rik | XM_132642.4 | Mus musculus RIKEN cDNA C330016K18 gene (C330016K18Rik), mRNA.  |
| scl0002988.1_2158-S                             | 44.5113    | 1.33        | Phf6          | NM_027642.1 | Mus musculus PHD finger protein 6 (Phf6), mRNA.   |
| scl32240.5.1_5-S                                | 43.8279    | 1.36        | Smpd1         | NM_011421.1 | Mus musculus sphingomyelin phosphodiesterase 1, acid lysosomal (Smpd1), mRNA.   |
| scl38644.7_75-S                                 | 43.7555    | 1.42        | Aes           | NM_010347   | Mus musculus amino-terminal enhancer of split (Aes), mRNA.  |
| scl0276846.12_121-S                             | 43.1609    | 1.39        | Pigs          | NM_201406.1 | Mus musculus phosphatidylinositol glycan, class S (Pigs), mRNA.   |
| scl0001763.1_85-S                               | 38.8512    | 1.34        | Slc35b1       | XM_128634.4 | Mus musculus solute carrier family 35, member B1 (Slc35b1), mRNA.   |
| scl25783.3.1_76-S                               | 38.7363    | 1.48        | Zfp99         | NM_023322.1 | Mus musculus zinc finger protein 99 (Zfp99), mRNA.  |
| scl20056.4.1_63-S                               | 37.8331    | 1.37        | Map1lc3a      | NM_025735.1 | Mus musculus microtubule-associated protein 1 light chain 3 alpha (Map1lc3a), mRNA.                                     |
| scl0003939.1_53-S                               | 37.7878    | 1.59        | Sirt6         | NM_181586.2 | Mus musculus sirtuin 6 (silent mating type information regulation 2, homolog) 6 (S. cerevisiae) (Sirt6), mRNA.          |
| scl23492.6.209_2-S                              | 37.4546    | 1.27        | 5730438N18Rik | NM_027460.1 | Mus musculus RIKEN cDNA 5730438N18 gene (5730438N18Rik), mRNA.  |
| scl000473.1_5-S                                 | 37.1828    | 1.27        | Slc3a2        | NM_008577   | Mus musculus solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 (Slc3a2), mRNA. |
| scl0003566.1_12-S                               | 36.7525    | 1.25        | Tbrg1         | NM_025289.1 | Mus musculus transforming growth factor beta regulated gene 1 (Tbrg1), mRNA.  |
| scl017259.11_6-S                                | 35.5349    | 1.4         | Mef2b         | NM_008578.1 | Mus musculus myocyte enhancer factor 2B (Mef2b), mRNA.  |
| scl0002238.1_5-S                                | 35.4048    | 1.26        | 2610028L19Rik | NM_027101.1 | Mus musculus RIKEN cDNA 2610028L19 gene (2610028L19Rik), mRNA.  |
| scl21953.10.1_6-S                               | 35.2147    | 1.42        | Rusc1         | NM_028188.1 | Mus musculus RUN and SH3 domain containing 1 (Rusc1), mRNA.   |
| scl019164.11_11-S                               | 34.4458    | 1.26        | Psen1         | NM_008943.1 | Mus musculus presenilin 1 (Psen1), mRNA.  |
| scl42219.1_29-S                                 | 34.3073    | 1.25        | 0610007P14Rik | NM_021446   |   |
| scl0076080.2_277-S                              | 33.9901    | 1.29        | 5830472M02Rik | NM_181734.1 | Mus musculus RIKEN cDNA 5830472M02 gene (5830472M02Rik), mRNA.  |
| scl026384.8_46-S                                | 33.4546    | 1.88        | Gnpda1        | NM_011937   | Mus musculus glucosamine-6-phosphate deaminase 1 (Gnpda1), mRNA.  |
| scl00214895.1_160-S                             | 33.3619    | 1.42        | Lman2l        | XM_129848.4 | Mus musculus lectin, mannose-binding 2-like (Lman2l), mRNA.   |
| scl0003277.1_55-S                               | 33.3406    | 1.26        | H13           | NM_010376.2 | Mus musculus histocompatibility 13 (H13), mRNA.   |
| scl073770.1_126-S                               | 33.2237    | 1.44        | 4833422F06Rik | NM_198413.1 | Mus musculus RIKEN cDNA 4833422F06 gene (4833422F06Rik), mRNA.  |
| scl00245688.1_91-S                              | 33.113     | 1.3         | Rbbp7         | NM_009031.2 | Mus musculus retinoblastoma binding protein 7 (Rbbp7), mRNA.  |
| scl30490.6.1_1-S                                | 33.0685    | 1.61        | BC023835      | NM_172116   | Mus musculus cDNA sequence, BC023835 (BC023835), mRNA.  |
| scl0002537.1_7-S                                | 33.063     | 1.24        | Pfdn5         | NM_020031.1 | Mus musculus prefoldin 5 (Pfdn5), mRNA.   |
| scl012462.9_0-S                                 | 32.2325    | 1.23        | Cct3          | NM_009836.1 | Mus musculus chaperonin subunit 3 (gamma) (Cct3), mRNA.   |
| scl0001279.1_27-S                               | 32.065     | 1.37        | 2310075G12Rik | NM_027162.3 | Mus musculus RIKEN cDNA 2310075G12 gene (2310075G12Rik), mRNA.  |
| scl0001304.1_8-S                                | 31.97      | 1.28        | 4930579A11Rik | NM_029478.2 | Mus musculus RIKEN cDNA 4930579A11 gene (4930579A11Rik), mRNA.  |
| scl0056351.1_126-S                              | 31.7897    | 1.23        | Tebp          | NM_019766.2 | Mus musculus telomerase binding protein, p23 (Tebp), mRNA.  |
| scl0003603.1_26-S                               | 31.5511    | 2.5         | Bir1          | NM_007551.2 | Mus musculus Burkitt lymphoma receptor 1 (Bir1), mRNA.  |
| scl37309.10_320-S                               | 31.4856    | 4.62        | Mmp13         | NM_008607.1 | Mus musculus matrix metalloproteinase 13 (Mmp13), mRNA.   |
| scl22782.10.1_36-S                              | 30.5929    | 1.22        | 1810038H16Rik | NM_026193.1 | Mus musculus RIKEN cDNA 1810038H16 gene (1810038H16Rik), mRNA.  |
| scl000518.1_101-S                               | 30.2577    | 1.28        | Rcl1          | NM_021525.2 | Mus musculus RNA terminal phosphate cyclase-like 1 (Rcl1), mRNA.  |
| scl0003607.1_28-S                               | 29.8466    | 1.23        | Il1rl1        | NM_010744.1 | Mus musculus interleukin 1 receptor-like 1 ligand (Il1rl1), mRNA.   |
| scl0073937.2_41-S                               | 29.8059    | 1.54        | 1700029M20Rik | NM_028688.1 |   |
| scl22881.8.1_12-S                               | 29.419     | 1.23        | Ctsk          | NM_007802.2 | Mus musculus cathepsin K (Ctsk), mRNA.  |
| scl0319679.1_12-S                               | 29.0607    | 1.84        | Tnfrsf22      | NM_023680   | Mus musculus tumor necrosis factor receptor superfamily, member 22 (Tnfrsf22), mRNA.                                    |
| scl020969.4_58-S                                | 29.0001    | 1.51        | Sdc1          | NM_011519.1 | Mus musculus syndecan 1 (Sdc1), mRNA.   |
| scl47761.2_511-S                                | 28.7243    | 1.24        | Pdpx          | NM_020271.1 | Mus musculus pyridoxal (pyridoxine, vitamin B6) phosphatase (Pdpx), mRNA.   |
| scl0004038.1_62-S                               | 27.9364    | 1.56        | 1110039B18Rik | NM_144525.2 | Mus musculus RIKEN cDNA 1110039B18 gene (1110039B18Rik), mRNA.  |
| scl0002885.1_9-S                                | 27.8407    | 1.28        | Bcor          | NM_175044.1 | Mus musculus Bcl6 interacting corepressor (Bcor), transcript variant a, mRNA.   |
| scl0014228.2_173-S                              | 27.7249    | 1.2         | Fkbp4         | NM_010219.2 | Mus musculus FK506 binding protein 4 (Fkbp4), mRNA.   |
| scl00214895.1_58-S                              | 27.4824    | 1.28        | Lman2l        | XM_129848.4 | Mus musculus lectin, mannose-binding 2-like (Lman2l), mRNA.   |
| scl000137.1_6-S                                 | 27.3932    | 1.27        | 2310004K06Rik | NM_020050.1 | Mus musculus RIKEN cDNA 2310004K06 gene (2310004K06Rik), mRNA.  |
| scl0001990.1_3-S                                | 27.352     | 1.37        | 4933434E20Rik | NM_025762   | Mus musculus RIKEN cDNA 4933434E20 gene (4933434E20Rik), mRNA.  |
| scl0103694.3_1-S                                | 27.2971    | 1.29        | 1110014L17Rik | NM_134020.1 | Mus musculus RIKEN cDNA 1110014L17 gene (1110014L17Rik), mRNA.  |
| scl0003215.1_26-S                               | 27.1897    | 1.41        | Tm9sf4        | NM_133847.2 |   |

|                        |         |      |               |             |  |
|------------------------|---------|------|---------------|-------------|--|
| scl0014420.1_244-S     | 26.9231 | 1.74 | Galc          | NM_008079.1 | Mus musculus galactosylceramidase (Galc), mRNA.  |
| scl48203.8.22_30-S     | 26.8114 | 1.25 | Donson        | NM_021720.1 | Mus musculus downstream neighbor of SON (Donson), mRNA.  |
| scl19922.2_573-S       | 26.5168 | 1.59 | Zswim3        | NM_178375.2 | Mus musculus zinc finger, SWIM domain containing 3 (Zswim3), mRNA.   |
| scl48463.11_73-S       | 26.454  | 1.32 | Qtrtd1        | XM_148491.1 |  |
| scl0003768.1_149-S     | 26.452  | 1.22 | Cdk4          | NM_009870.2 | Mus musculus cyclin-dependent kinase 4 (Cdk4), mRNA.   |
| scl22884.7.1_23-S      | 26.4342 | 1.31 | Lass2         | NM_029789.1 | Mus musculus longevity assurance homolog 2 (S. cerevisiae) (Lass2), mRNA.                                      |
| scl022135.1_141-S      | 26.3159 | 1.35 | Tgoln2        | NM_009444   | Mus musculus trans-golgi network protein 2 (Tgoln2), mRNA.   |
| scl00103694.2_35-S     | 26.2827 | 1.4  | 1110014L17Rik | NM_134020.1 | Mus musculus RIKEN cDNA 1110014L17 gene (1110014L17Rik), mRNA.   |
| scl0064138.2_328-S     | 26.2072 | 1.19 | Ctsz          | NM_022325.3 | Mus musculus cathepsin Z (Ctsz), mRNA.   |
| scl0001779.1_17-S      | 25.9376 | 1.36 | Eif4a2        | NM_013506   | Mus musculus eukaryotic translation initiation factor 4A2 (Eif4a2), mRNA.                                      |
| scl000559.1_47-S       | 25.8585 | 1.42 | XM_134502.2   | XM_134502.2 | Mus musculus TNFRSF1A-associated via death domain (Tradd), mRNA.   |
| scl0053607.2_0-S       | 25.7215 | 1.25 | Snrpa         | NM_015782.2 | Mus musculus small nuclear ribonucleoprotein polypeptide A (Snrpa), mRNA.                                      |
| scl41281.26_86-S       | 25.4623 | 1.25 | 1300001I01Rik | XM_181333.2 | Mus musculus RIKEN cDNA 1300001I01 gene (1300001I01Rik), mRNA.   |
| scl0053382.2_104-S     | 25.2499 | 1.27 | Txn1          | NM_016792.2 |  |
| scl43059.15.1_19-S     | 25.106  | 1.28 | Fut8          | NM_016893.2 | Mus musculus fucosyltransferase 8 (Fut8), mRNA.  |
| scl000368.1_5-S        | 25.0877 | 1.32 | Ppp2r2a       | XM_127816.4 | Mus musculus protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform (Ppp2r2a), mRNA. |
| scl35577.16.1_50-S     | 25.0825 | 1.3  | Fbxo9         | NM_023605.1 | Mus musculus f-box only protein 9 (Fbxo9), mRNA.   |
| scl53158.2_336-S       | 25.0611 | 1.27 | Tmem20        | NM_175507.2 | Mus musculus transmembrane protein 20 (Tmem20), mRNA.  |
| scl15748.11.1.135_10-S | 25.0412 | 1.31 | AA408296      | NM_145415.1 | Mus musculus expressed sequence AA408296 (AA408296), mRNA.   |
| scl0072141.1_1-S       | 24.9352 | 1.25 | Adpgk         | NM_028121.1 |  |
| scl0002818.1_24-S      | 24.8005 | 1.35 | Rnf11         | NM_013876.2 | Mus musculus ring finger protein 11 (Rnf11), mRNA.   |
| scl0056392.1_211-S     | 24.7123 | 1.26 | Shoc2         | NM_019658.2 | Mus musculus soc-2 (suppressor of clear) homolog (C. elegans) (Shoc2), mRNA.                                   |
| scl0001086.1_0-S       | 24.6887 | 1.36 | Bcat1         | NM_007532.1 | Mus musculus branched chain aminotransferase 1, cytosolic (Bcat1), mRNA.                                       |
| scl49857.14.1_9-S      | 24.6481 | 1.22 | Klhdc3        | NM_027910.1 | Mus musculus kelch domain containing 3 (Klhdc3), mRNA.   |
| scl47628.10.7_51-S     | 24.5767 | 1.24 | 5730502D15Rik | NM_026485.1 | Mus musculus RIKEN cDNA 5730502D15 gene (5730502D15Rik), mRNA.   |
| scl0016009.2_204-S     | 24.5503 | 1.57 | Igfbp3        | NM_008343.1 | Mus musculus insulin-like growth factor binding protein 3 (Igfbp3), mRNA.                                      |
| scl0002281.1_5-S       | 24.2922 | 1.28 | Tssc1         | NM_201357.1 |  |
| scl0003108.1_2-S       | 24.0141 | 1.73 | Trib3         | NM_175093.1 |  |
| scl014470.4_28-S       | 23.8936 | 1.2  | Rabac1        | NM_010261.1 | Mus musculus Rab acceptor 1 (prenylated) (Rabac1), mRNA.   |
| scl38711.3.1_9-S       | 23.878  | 1.35 | Gtrgeo22      | NM_148934.1 | Mus musculus gene trap ROSA b-geo 22 (Gtrgeo22), mRNA.   |
| scl33916.7_57-S        | 23.7156 | 1.21 | 1810045K07Rik | NM_026432.2 | Mus musculus RIKEN cDNA 1810045K07 gene (1810045K07Rik), mRNA.   |
| scl41210.3.123_9-S     | 23.6444 | 1.19 | Sdf2          | NM_009143.2 | Mus musculus stromal cell derived factor 2 (Sdf2), mRNA.   |
| scl021981.1_87-S       | 23.5455 | 1.27 | Ppp1r13b      | NM_011625.1 | Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 13B (Ppp1r13b), mRNA.                       |
| scl0003.1_30-S         | 23.4724 | 1.42 | Smpd1         | NM_011421.1 | Mus musculus sphingomyelin phosphodiesterase 1, acid lysosomal (Smpd1), mRNA.                                  |
| scl36968.16.1_28-S     | 23.316  | 1.28 | Dibd1         | NM_133981.1 | Mus musculus disrupted in bipolar disorder 1 homolog (human) (Dibd1), mRNA.                                    |
| scl0001587.1_50-S      | 23.2086 | 1.3  | 5730408C10Rik | NM_027445.1 | Mus musculus RIKEN cDNA 5730408C10 gene (5730408C10Rik), mRNA.   |
| scl000932.1_92-S       | 23.1203 | 1.33 | Bpnt1         | NM_011794.2 | Mus musculus bisphosphate 3-nucleotidase 1 (Bpnt1), mRNA.  |
| scl44552.6_124-S       | 22.8466 | 1.47 | Hapln1        | NM_013500.3 | Mus musculus hyaluronan and proteoglycan link protein 1 (Hapln1), mRNA.  |
| scl47884.11.17_1-S     | 22.7547 | 1.2  | Sqle          | NM_009270.2 | Mus musculus squalene epoxidase (Sqle), mRNA.  |
| scl31600.13.1_22-S     | 22.6867 | 1.19 | Pld3          | NM_011116.1 | Mus musculus phospholipase D3 (Pld3), mRNA.  |
| scl0022245.1_2-S       | 22.5973 | 1.48 | Uck1          | NM_011675.1 |  |
| scl0003697.1_56-S      | 22.4478 | 1.5  | Ubqln1        | NM_152234.1 | Mus musculus ubiquilin 1 (Ubqln1), transcript variant 1, mRNA.   |
| scl0012097.1_11-S      | 22.3247 | 2.89 | Bglap2        | NM_031368   | Mus musculus bone gamma-carboxylglutamate protein 2 (Bglap2), mRNA.  |
| scl0236539.2_17-S      | 22.3033 | 1.18 | Phgdh         | NM_016966   | Mus musculus 3-phosphoglycerate dehydrogenase (Phgdh), mRNA.   |
| scl014683.1_3-S        | 22.2797 | 1.34 | Gnas          | NM_010309.1 | Mus musculus GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus (Gnas), mRNA.          |
| scl013864.1_5-S        | 22.1586 | 1.29 | Nr2f6         | NM_010150   | Mus musculus nuclear receptor subfamily 2, group F, member 6 (Nr2f6), mRNA.                                    |
| scl0002932.1_144-S     | 22.1538 | 1.7  | Dsip1         | NM_010286.2 | Mus musculus delta sleep inducing peptide, immunoreactor (Dsip1), mRNA.  |
| scl45943.26_212-S      | 21.6725 | 1.21 | Kpnb3         | NM_023579.2 | Mus musculus karyopherin (importin) beta 3 (Kpnb3), mRNA.  |
| scl21963.5_3-S         | 21.5437 | 1.22 | Syt11         | NM_018804.2 | Mus musculus synaptotagmin 11 (Syt11), mRNA.   |
| scl0053869.2_7-S       | 21.5256 | 1.47 | Rab11a        | NM_017382.2 | Mus musculus RAB11a, member RAS oncogene family (Rab11a), mRNA.  |
| scl0003665.1_69-S      | 21.4835 | 1.27 | Ubqln1        | NM_152234.1 | Mus musculus ubiquilin 1 (Ubqln1), transcript variant 1, mRNA.   |
| scl0001472.1_4-S       | 21.47   | 1.24 | Copz2         | NM_019877.1 | Mus musculus coatamer protein complex, subunit zeta 2 (Copz2), mRNA.   |
| scl018458.15_35-S      | 21.349  | 1.48 | Pabpc1        | NM_008774.2 | Mus musculus poly A binding protein, cytoplasmic 1 (Pabpc1), mRNA.   |
| scl37827.3_399-S       | 21.314  | 1.27 | D10Ert214e    | NM_134007.2 | Mus musculus DNA segment, Chr 10, ERATO Doi 214, expressed (D10Ert214e), mRNA.                                 |
| scl066812.1_16-S       | 21.2958 | 1.24 | 8430432M10Rik | NM_176831.2 | Mus musculus RIKEN cDNA 8430432M10 gene (8430432M10Rik), mRNA.   |
| scl0001218.1_87-S      | 21.2815 | 1.24 | Csda          | NM_019638.1 | Mus musculus cold shock domain protein A (Csda), mRNA.   |

|                      |         |      |               |             |  |
|----------------------|---------|------|---------------|-------------|--|
| scl0001901.1_31-S    | 21.1758 | 1.21 | Alg3          | NM_145939   | Mus musculus asparagine-linked glycosylation 3 homolog (yeast, alpha-1,3-mannosyltransferase) (Alg3), mRNA.              |
| scl0001621.1_13-S    | 21.1623 | 1.2  | Tcp1          | NM_013686   | Mus musculus t-complex protein 1 (Tcp1), mRNA.   |
| scl0012946.2_3-S     | 21.1313 | 1.38 | Crry          | NM_013499.1 | Mus musculus complement receptor related protein (Crry), mRNA.   |
| scl0014870.1_15-S    | 21.0553 | 1.17 | Gstp1         | NM_013541.1 | Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.  |
| scl28430.21.1_3-S    | 20.9494 | 1.38 | Clstn3        | NM_153508.2 | Mus musculus calyntenin 3 (Clstn3), mRNA.  |
| scl022630.1_91-S     | 20.9293 | 1.25 | Ywhaq         | NM_011739   | Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide (Ywhaq), mRNA.    |
| scl36089.6_17-S      | 20.8814 | 1.19 | 2310075A12Rik | NM_178027.3 |  |
| scl0003589.1_16-S    | 20.8801 | 1.21 | Nme6          | NM_018757.1 | Mus musculus expressed in non-metastatic cells 6, protein (Nme6), mRNA.  |
| scl30651.1_27-S      | 20.8291 | 1.29 | Sephs2        | NM_009266.1 | Mus musculus selenophosphate synthetase 2 (Seps2), mRNA.   |
| scl42936.6.9_32-S    | 20.7746 | 1.17 | Ahsa1         | NM_146036.1 | Mus musculus AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast) (Ahsa1), mRNA.                         |
| scl0003218.1_27-S    | 20.7018 | 1.38 | Ass1          | NM_007494.2 | Mus musculus argininosuccinate synthetase 1 (Ass1), mRNA.  |
| scl0003434.1_18-S    | 20.652  | 8.93 | Mmp13         | NM_008607.1 | Mus musculus matrix metalloproteinase 13 (Mmp13), mRNA.  |
| scl0018458.1_6-S     | 20.6269 | 1.24 | Pabpc1        | NM_008774.2 | Mus musculus poly A binding protein, cytoplasmic 1 (Pabpc1), mRNA.   |
| scl0001519.1_21-S    | 20.5486 | 1.2  | Syngn2        | NM_009304.1 | Mus musculus synaptogyrin 2 (Syngn2), mRNA.  |
| scl29140.1.1_93-S    | 20.531  | 1.65 | Creb3l2       | NM_178661.2 |  |
| scl0023879.2_268-S   | 20.505  | 1.33 | Fxr2h         | NM_011814.1 | Mus musculus fragile X mental retardation gene 2, autosomal homolog (Fxr2h), mRNA.                                       |
| scl00114564.1_150-S  | 20.5037 | 1.25 | Csprs         | NM_033616.2 | Mus musculus component of Sp100-rs (Csprs), mRNA.  |
| scl12993.1.1_327-S   | 20.4722 | 1.69 | Nog           | NM_008711.1 | Mus musculus noggin (Nog), mRNA.   |
| scl0056709.2_63-S    | 20.4709 | 1.25 | Dnajb12       | NM_019965.2 | Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 12 (Dnajb12), mRNA.   |
| scl47621.3.1_17-S    | 20.3335 | 1.44 | Adm2          | NM_182928.2 | Mus musculus adrenomedullin 2 (Adm2), mRNA.  |
| scl0029876.1_51-S    | 20.3297 | 1.38 | Clic4         | XM_124389.1 | Mus musculus chloride intracellular channel 4 (mitochondrial) (Clic4), mRNA.   |
| scl21969.5.1_66-S    | 20.2592 | 1.57 | Rab25         | NM_016899   | Mus musculus RAB25, member RAS oncogene family (Rab25), mRNA.  |
| scl0001816.1_0-S     | 20.2147 | 1.46 | Eif4a2        | XM_147230.1 | Mus musculus eukaryotic translation initiation factor 4A2 (Eif4a2), mRNA.  |
| scl0056298.2_141-S   | 20.1835 | 1.31 | Arl6ip2       | NM_019717.1 | Mus musculus ADP-ribosylation factor-like 6 interacting protein 2 (Arl6ip2), mRNA.                                       |
| scl47386.5_134-S     | 20.1056 | 1.35 | Rpo2tc1       | NM_011294.2 | Mus musculus RNA polymerase II transcriptional coactivator (Rpo2tc1), mRNA.  |
| scl48855.3.1_17-S    | 20.0395 | 1.17 | Cbr1          | NM_007620.1 | Mus musculus carbonyl reductase 1 (Cbr1), mRNA.  |
| scl18374.7.1_30-S    | 20.0127 | 1.3  | Tomm34        | NM_025996.1 | Mus musculus translocase of outer mitochondrial membrane 34 (Tomm34), mRNA.  |
| scl099045.1_16-S     | 19.928  | 1.33 | Mirps26       | NM_207207.1 |  |
| scl070425.3_227-S    | 19.8699 | 1.26 | Csnk1g3       | NM_152809.1 | Mus musculus casein kinase 1, gamma 3 (Csnk1g3), mRNA.   |
| scl28384.6_282-S     | 19.8394 | 1.25 | Ccnd2         | NM_009829.2 | Mus musculus cyclin D2 (Ccnd2), mRNA.  |
| scl056620.6_30-S     | 19.762  | 1.25 | Clecsf10      | NM_020001.1 | Mus musculus C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 10 (Clecsf10), mRNA. |
| scl39835.9.1_41-S    | 19.6311 | 1.31 | 1700051E09Rik | NM_026097.1 | Mus musculus RIKEN cDNA 1700051E09 gene (1700051E09Rik), mRNA.   |
| scl53217.16.138_16-S | 19.6165 | 1.28 | Uhrf2         | NM_144873.1 | Mus musculus ubiquitin-like, containing PHD and RING finger domains 2 (Uhrf2), mRNA.                                     |
| scl0067072.1_237-S   | 19.6013 | 1.25 | Cdc37l        | NM_025950.1 |  |
| scl066917.11_233-S   | 19.5871 | 1.31 | Chordc1       | NM_025844.1 | Mus musculus cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1 (Chordc1), mRNA.              |
| scl0002494.1_23-S    | 19.568  | 1.66 | Sqle          | NM_009270.2 | Mus musculus squalene epoxidase (Sqle), mRNA.  |
| scl000705.1_51-S     | 19.5642 | 1.31 | Cdk10         | NM_194444.1 | Mus musculus cyclin-dependent kinase (CDC2-like) 10 (Cdk10), transcript variant 2, mRNA.                                 |
| scl0012448.2_70-S    | 19.5245 | 1.36 | Ccne2         | NM_009830.1 | Mus musculus cyclin E2 (Ccne2), mRNA.  |
| scl41864.7_0-S       | 19.4969 | 1.18 | 0610042115Rik | NM_019661.2 | Mus musculus RIKEN cDNA 0610042115 gene (0610042115Rik), mRNA.   |
| scl35187.16.1_30-S   | 19.478  | 1.26 | Al604832      | NM_133979.1 | Mus musculus expressed sequence Al604832 (Al604832), mRNA.   |
| scl0000102.1_16-S    | 19.4713 | 1.18 | Atp5j         | NM_016755.2 | Mus musculus GA repeat binding protein, alpha (Gabpa), mRNA.   |
| scl0001455.1_38-S    | 19.3936 | 1.31 | Sic25a11      | NM_024211.2 | Mus musculus solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11 (Sic25a11), mRNA.         |
| scl018769.1_15-S     | 19.3761 | 1.43 | Pkig          | NM_011106.1 | Mus musculus protein kinase inhibitor, gamma (Pkig), mRNA.   |
| scl000331.1_58-S     | 19.342  | 1.53 | Sic7a7        | NM_011405.1 | Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 (Sic7a7), mRNA.              |
| scl029876.1_93-S     | 18.9631 | 1.37 | Clic4         | XM_124389.1 | Mus musculus chloride intracellular channel 4 (mitochondrial) (Clic4), mRNA.   |
| scl000622.1_13-S     | 18.886  | 1.22 | Brd7          | NM_012047.1 | Mus musculus bromodomain containing 7 (Brd7), mRNA.  |
| scl066194.1_36-S     | 18.86   | 1.21 | Pycrl         | NM_025412   | Mus musculus pyrroline-5-carboxylate reductase-like (Pycrl), mRNA.   |
| scl0001911.1_22-S    | 18.855  | 1.23 | Umps          | NM_009471.1 | Mus musculus uridine monophosphate synthetase (Umps), mRNA.  |
| scl34511.5.1_24-S    | 18.8324 | 1.33 | 9130017C17Rik | NM_027840.1 | Mus musculus RIKEN cDNA 9130017C17 gene (9130017C17Rik), mRNA.   |
| scl0015267.2_328-S   | 18.8243 | 1.46 | Hist2h2aa1    | NM_013549.1 | Mus musculus histone 2, H2aa1 (Hist2h2aa1), mRNA.  |
| scl000373.1_361-S    | 18.7789 | 1.44 | Bmp1          | NM_009755.2 | Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA.  |
| scl49587.9_193-S     | 18.6823 | 1.3  | Sfrs7         | NM_146083.1 | Mus musculus splicing factor, arginine/serine-rich 7 (Sfrs7), mRNA.  |
| scl0020788.1_174-S   | 18.6778 | 1.2  | Sreb2         | XM_127995.4 |  |
| scl0003928.1_20-S    | 18.6601 | 1.21 | Cdk2          | NM_016756.1 | Mus musculus cyclin-dependent kinase 2 (Cdk2), mRNA.   |
| scl00170460.2_242-S  | 18.6554 | 1.23 | Stard5        | NM_023377.4 | Mus musculus STAR-related lipid transfer (START) domain containing 5 (Stard5), mRNA.                                     |
| scl000582.1_47-S     | 18.5999 | 1.69 | 5830457O10Rik | NM_145412.2 | Mus musculus RIKEN cDNA 5830457O10 gene (5830457O10Rik), mRNA.   |

|                     |         |      |               |             |  |
|---------------------|---------|------|---------------|-------------|--|
| scl46854.10.1_20-S  | 18.5876 | 1.36 | Al451006      | NM_178919.2 | Mus musculus expressed sequence Al451006 (Al451006), mRNA.   |
| scl38496.5_152-S    | 18.5098 | 1.3  | Dusp6         | NM_026268.1 | Mus musculus dual specificity phosphatase 6 (Dusp6), mRNA.   |
| scl0001019.1_73-S   | 18.4918 | 1.29 | 0610039N19Rik | NM_026159   | Mus musculus RIKEN cDNA 0610039N19 gene (0610039N19Rik), mRNA.   |
| scl0066493.1_90-S   | 18.4711 | 1.73 | Mrp151        | NM_025595.1 | Mus musculus mitochondrial ribosomal protein L51 (Mrp151), mRNA.   |
| scl094184.1_45-S    | 18.4555 | 1.21 | AA415817      | NM_053181.1 | Mus musculus expressed sequence AA415817 (AA415817), mRNA.   |
| scl015526.3_30-S    | 18.4357 | 1.15 | Hspa9a        | NM_010481.1 | Mus musculus heat shock protein, A (Hspa9a), mRNA.   |
| scl33211.11.6_30-S  | 18.405  | 2.55 | Dpep1         | NM_007876.1 | Mus musculus dipeptidase 1 (renal) (Dpep1), mRNA.  |
| scl0001738.1_0-S    | 18.3964 | 1.23 | Gpr108        | NM_030084.2 | Mus musculus G protein-coupled receptor 108 (Gpr108), mRNA.  |
| scl066589.4_10-S    | 18.3508 | 1.19 | Ube2v1        | NM_023230.1 | Mus musculus ubiquitin-conjugating enzyme E2 variant 1 (Ube2v1), mRNA.                                   |
| scl014870.5_30-S    | 18.347  | 1.15 | Gstp1         | NM_013541.1 | Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.  |
| scl40009.3.137_12-S | 18.3377 | 1.15 | Eif5a         |             |  |
| scl0002272.1_96-S   | 18.3364 | 1.19 | 2610028L19Rik | NM_027002.1 | Mus musculus RIKEN cDNA 2610028L19 gene (2610028L19Rik), mRNA.   |
| scl0002955.1_15-S   | 18.3358 | 1.26 | DXlmx39e      | XM_125370.1 | Mus musculus DNA segment, Chr X, Immunex 39, expressed (DXlmx39e), mRNA.                                 |
| scl021357.5_2-S     | 18.3056 | 1.47 | Tarbp2        | NM_009319   | Mus musculus TAR (HIV) RNA binding protein 2 (Tarbp2), mRNA.   |
| scl50172.5.1_49-S   | 18.2617 | 1.21 | 9530058B02Rik | NM_026633.1 | Mus musculus RIKEN cDNA 9530058B02 gene (9530058B02Rik), mRNA.   |
| scl35950.2_277-S    | 18.2458 | 1.87 | Bir1          | NM_007551.2 | Mus musculus Burkitt lymphoma receptor 1 (Bir1), mRNA.   |
| scl0245688.1_74-S   | 18.1306 | 1.25 | Rbbp7         | NM_009031.2 | Mus musculus retinoblastoma binding protein 7 (Rbbp7), mRNA.   |
| scl49741.2.5_1-S    | 18.0898 | 1.27 | Gpr108        | NM_030084.2 | Mus musculus G protein-coupled receptor 108 (Gpr108), mRNA.  |
| scl00029.1_14-S     | 18.085  | 1.16 | 9430029K10Rik | XM_284281.2 | Mus musculus RIKEN cDNA 9430029K10 gene (9430029K10Rik), mRNA.   |
| scl35042.9.1_7-S    | 18.0528 | 1.6  | Agpt2         | NM_007426.2 | Mus musculus angiopoietin 2 (Agpt2), mRNA.   |
| scl32855.14.1_3-S   | 18.0254 | 1.15 | Hnrpl         | NM_177301.3 | Mus musculus heterogeneous nuclear ribonucleoprotein L (Hnrpl), mRNA.                                    |
| scl47039.3.1_28-S   | 17.9988 | 1.44 | Fbxl6         | NM_013909.1 | Mus musculus F-box and leucine-rich repeat protein 6 (Fbxl6), mRNA.                                      |
| scl0002753.1_55-S   | 17.995  | 1.2  | Snarp3        | NM_029949.1 | Mus musculus small nuclear RNA activating complex, polypeptide 3 (Snarp3), mRNA.                         |
| scl076482.18_130-S  | 17.9596 | 1.17 | 2400010D15Rik | NM_029623.1 |  |
| scl46893.13.1_7-S   | 17.9029 | 1.43 | Ttl1          | NM_178869.2 | Mus musculus tubulin tyrosine ligase-like 1 (Ttl1), mRNA.  |
| scl00192287.1_146-S | 17.8435 | 1.34 | C330005L02Rik | NM_138756.2 | Mus musculus RIKEN cDNA C330005L02 gene (C330005L02Rik), mRNA.   |
| scl0003852.1_15-S   | 17.7931 | 1.3  | Cdk2          | NM_016756.1 | Mus musculus cyclin-dependent kinase 2 (Cdk2), mRNA.   |
| scl0001574.1_5-S    | 17.7218 | 1.32 | G3bp          | NM_013716.1 | Mus musculus Ras-GTPase-activating protein SH3-domain binding protein (G3bp), mRNA.                      |
| scl0013629.1_11-S   | 17.6983 | 1.27 | Eef2          | NM_007907.1 | Mus musculus eukaryotic translation elongation factor 2 (Eef2), mRNA.                                    |
| scl46945.2.7_65-S   | 17.6566 | 1.2  | 2510038A11Rik | NM_175109.2 | Mus musculus RIKEN cDNA 2510038A11 gene (2510038A11Rik), mRNA.   |
| scl46927.7.227_16-S | 17.5666 | 1.24 | Pmm1          | NM_013872.1 | Mus musculus phosphomannomutase 1 (Pmm1), mRNA.  |
| scl0003586.1_17-S   | 17.5127 | 1.21 | Scotin        | NM_025858.1 | Mus musculus scotin gene (Scotin), mRNA.   |
| scl011975.20_15-S   | 17.5119 | 1.43 | Atp6v0a1      | NM_016920.1 | Mus musculus ATPase, H+ transporting, lysosomal V0 subunit a isoform 1 (Atp6v0a1), mRNA.                 |
| scl0001903.1_3-S    | 17.4733 | 1.37 | D16Bwg1547e   | NM_178069.2 | Mus musculus DNA segment, Chr 16, Brigham & Womens Genetics 1547 expressed (D16Bwg1547e), mRNA.          |
| scl0003686.1_14-S   | 17.4215 | 1.32 | Dok3          | NM_013739.1 |  |
| scl32000.4_245-S    | 17.3638 | 1.18 | Bag3          | NM_013863.3 | Mus musculus Bcl2-associated athanogene 3 (Bag3), mRNA.  |
| scl28771.4_14-S     | 17.3421 | 1.22 | Spr           | NM_011467.1 | Mus musculus sepiapterin reductase (Spr), mRNA.  |
| scl017276.1_218-S   | 17.3344 | 1.5  | Mela          | NM_008581.1 | Mus musculus melanoma antigen (Mela), mRNA.  |
| scl0076890.1_191-S  | 17.333  | 1.2  | 0610016J10Rik | NM_133771.1 | Mus musculus RIKEN cDNA 0610016J10 gene (0610016J10Rik), mRNA.   |
| scl074038.2_21-S    | 17.3262 | 1.16 | 4632419I22Rik | NM_175205.2 | Mus musculus RIKEN cDNA 4632419I22 gene (4632419I22Rik), mRNA.   |
| scl0002433.1_44-S   | 17.1848 | 1.32 | Rangap1       | NM_011241   | Mus musculus RAN GTPase activating protein 1 (Rangap1), mRNA.  |
| scl0001628.1_55-S   | 17.151  | 1.18 | Nubp2         | NM_011956.2 | Mus musculus nucleotide binding protein 2 (Nubp2), mRNA.   |
| scl0083814.1_187-S  | 17.1272 | 1.63 | Nedd4l        | NM_031881.1 | Mus musculus neural precursor cell expressed, developmentally down-regulated gene 4-like (Nedd4l), mRNA. |
| scl000669.1_31-S    | 17.0967 | 1.2  | Gpsn2         | NM_134118.1 | Mus musculus glycoprotein, synaptic 2 (Gpsn2), mRNA.   |
| scl28121.7_60-S     | 16.9357 | 1.34 | C030048B08Rik | NM_172991.2 | Mus musculus RIKEN cDNA C030048B08 gene (C030048B08Rik), mRNA.   |
| scl0003818.1_1-S    | 16.9116 | 2.9  | D10Ert610e    | NM_028027.1 | Mus musculus DNA segment, Chr 10, ERATO Doi 610, expressed (D10Ert610e), mRNA.                           |
| scl0001791.1_109-S  | 16.8915 | 1.31 | Donson        | NM_021720.1 | Mus musculus downstream neighbor of SON (Donson), mRNA.  |
| scl0003680.1_26-S   | 16.8723 | 1.25 | Zmynd11       | NM_144516.1 |  |
| scl53434.6.1_0-S    | 16.8499 | 1.42 | Aldh3b1       | NM_026316.2 | Mus musculus aldehyde dehydrogenase 3 family, member B1 (Aldh3b1), mRNA.                                 |
| scl35377.11.1_104-S | 16.7703 | 1.16 | Hemk1         | NM_133984.1 |  |
| scl39361.6_168-S    | 16.7683 | 1.54 | Cdc42ep4      | NM_020006.1 | Mus musculus CDC42 effector protein (Rho GTPase binding) 4 (Cdc42ep4), mRNA.                             |
| scl39293.2.28_0-S   | 16.7556 | 1.37 | Sfrs2         | NM_011358.1 | Mus musculus splicing factor, arginine/serine-rich 2 (SC-35) (Sfrs2), mRNA.                              |
| scl30469.7_1-S      | 16.7467 | 2.15 | Igf2          | NM_010514.1 | Mus musculus insulin-like growth factor 2 (Igf2), mRNA.  |
| scl36336.8_440-S    | 16.7461 | 1.24 | Rpl14         | NM_025974.1 | Mus musculus ribosomal protein L14 (Rpl14), mRNA.  |
| scl0050527.2_55-S   | 16.7349 | 1.4  | Ero1l         | XM_122699.1 | Mus musculus ERO1-like (S. cerevisiae) (Ero1l), mRNA.  |
| scl00219094.2_112-S | 16.6052 | 1.25 | 9130227C08Rik | NM_027143.1 | Mus musculus RIKEN cDNA 9130227C08 gene (9130227C08Rik), mRNA.   |

|                     |         |      |               |             |   |
|---------------------|---------|------|---------------|-------------|---|
| scl40723.11.1_29-S  | 16.594  | 1.23 | 0610034P02Rik | XM_203352.2 | Mus musculus RIKEN cDNA 0610034P02 gene (0610034P02Rik), mRNA.  |
| scl47744.5.43_8-S   | 16.5261 | 1.16 | Kdelr3        | NM_134090   | Mus musculus KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3 (Kdelr3), mRNA.      |
| scl23948.4_56-S     | 16.5091 | 1.42 | 4930584N22Rik | NM_026654.1 | Mus musculus RIKEN cDNA 4930584N22 gene (4930584N22Rik), mRNA.  |
| scl0003317.1_1-S    | 16.4965 | 1.22 | Zfp313        | NM_030743.3 | Mus musculus zinc finger protein 313 (Zfp313), mRNA.  |
| scl069080.3_23-S    | 16.4045 | 1.22 | Gmppa         | NM_133708.1 | Mus musculus GDP-mannose pyrophosphorylase A (Gmppa), mRNA.   |
| scl000144.1_17-S    | 16.397  | 1.23 | Mir16         | NM_019580.3 | Mus musculus membrane interacting protein of RGS16 (Mir16), mRNA.   |
| scl38954.10_221-S   | 16.3849 | 1.17 | App5l         | XM_147374.1 | Mus musculus autophagy 5-like (S. cerevisiae) (App5l), mRNA.  |
| scl0012055.2_161-S  | 16.3805 | 1.15 | Bcl7c         | NM_009746   | Mus musculus B-cell CLL/lymphoma 7C (Bcl7c), mRNA.  |
| scl0054394.2_91-S   | 16.3744 | 1.18 | Crif3         | NM_018776.1 | Mus musculus cytokine receptor-like factor 3 (Crif3), mRNA.   |
| scl18460.16.1_0-S   | 16.3587 | 2.39 | Ggtt3         | NM_144786.1 | Mus musculus gamma-glutamyltransferase-like 3 (Ggtt3), mRNA.  |
| scl33727.4.1_6-S    | 16.2733 | 1.44 | Crif1         | NM_018827.1 | Mus musculus cytokine receptor-like factor 1 (Crif1), mRNA.   |
| scl24628.3.441_60-S | 16.1998 | 1.24 | 2610002J02Rik | XM_131827.3 | Mus musculus RIKEN cDNA 2610002J02 gene (2610002J02Rik), mRNA.  |
| scl011647.1_76-S    | 16.1779 | 1.15 | Akp2          | NM_007431.1 | Mus musculus alkaline phosphatase 2, liver (Akp2), mRNA.  |
| scl066826.11_0-S    | 16.1364 | 1.35 | Taz           | NM_181516.2 | Mus musculus tafazzin (Taz), mRNA.  |
| scl25041.1.49_5-S   | 16.1278 | 1.22 | Elovl1        | NM_019422.1 | Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1 (Elovl1), mRNA. |
| scl0003429.1_37-S   | 16.1179 | 1.15 | Hmbs          | NM_013551   | Mus musculus hydroxymethylbilane synthase (Hmbs), mRNA.   |
| scl0114863.5_23-S   | 16.0373 | 1.38 | Prosc         | NM_054057.1 | Mus musculus proline synthetase co-transcribed (Prosc), mRNA.   |
| scl16982.5.1_3-S    | 16.0157 | 1.21 | Tram1         | NM_028173.1 | Mus musculus translocating chain-associating membrane protein 1 (Tram1), mRNA.                              |
| scl068839.1_117-S   | 15.9862 | 1.23 | 1110054N06Rik | NM_175134.2 | Mus musculus RIKEN cDNA 1110054N06 gene (1110054N06Rik), mRNA.  |
| scl064656.5_1-S     | 15.9742 | 1.15 | Mprs23        | NM_024174.4 | Mus musculus mitochondrial ribosomal protein S23 (Mprs23), mRNA.  |
| scl0002696.1_5-S    | 15.9378 | 1.19 | Oprs1         | NM_011014.1 | Mus musculus opioid receptor, sigma 1 (Oprs1), mRNA.  |
| scl38461.7.1_1-S    | 15.823  | 1.17 | Pawr          | XM_125814.2 | Mus musculus PRKC, apoptosis, WT1, regulator (Pawr), mRNA.  |
| scl00333883.1_4-S   | 15.7925 | 1.28 | Cd59b         | NM_181858.1 | Mus musculus CD59b antigen (Cd59b), mRNA.   |
| scl54361.1_126-S    | 15.7846 | 1.37 | Np15          | NM_019435.2 | Mus musculus nuclear protein 15.6 (Np15), mRNA.   |
| scl0001518.1_3-S    | 15.764  | 1.26 | C330027I04Rik | NM_026561.2 | Mus musculus RIKEN cDNA C330027I04 gene (C330027I04Rik), mRNA.  |
| scl24346.2_118-S    | 15.6695 | 1.23 | Alg2          | NM_019998   | Mus musculus asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase) (Alg2), mRNA. |
| scl000210.1_44-S    | 15.6075 | 1.49 | Eif4g2        | NM_013507.2 | Mus musculus eukaryotic translation initiation factor 4, gamma 2 (Eif4g2), mRNA.                            |
| scl35387.5.1_9-S    | 15.6014 | 1.31 | Tex264        | NM_011573.1 | Mus musculus testis expressed gene 264 (Tex264), mRNA.  |
| scl51747.9.1_30-S   | 15.5911 | 1.29 | 3110052N05Rik | NM_029826.1 |   |
| scl000450.1_1-S     | 15.5629 | 1.34 | Rbm4          | NM_009032   | Mus musculus RNA binding motif protein 4 (Rbm4), mRNA.  |
| scl0004183.1_9-S    | 15.558  | 1.17 | Pkm2          | XM_131934.4 | Mus musculus pyruvate kinase, muscle (Pkm2), mRNA.  |
| scl068501.1_4-S     | 15.5511 | 1.2  | 1110014D18Rik | NM_026746.1 | Mus musculus RIKEN cDNA 1110014D18 gene (1110014D18Rik), mRNA.  |
| scl026404.1_65-S    | 15.5327 | 1.31 | Map3k12       | NM_009582.2 | Mus musculus mitogen activated protein kinase kinase kinase 12 (Map3k12), mRNA.                             |
| scl00015.1_21-S     | 15.4986 | 1.15 | Rabac1        | NM_010261.1 | Mus musculus Rab acceptor 1 (prenylated) (Rabac1), mRNA.  |
| scl33046.8.1_17-S   | 15.4411 | 1.19 | Slc1a5        | NM_009201.1 | Mus musculus solute carrier family 1 (neutral amino acid transporter), member 5 (Slc1a5), mRNA.             |
| scl00027.1_8-S      | 15.42   | 1.27 | 1110025I09Rik | NM_178056.2 | Mus musculus RIKEN cDNA 1110025I09 gene (1110025I09Rik), mRNA.  |
| scl0001435.1_11-S   | 15.4017 | 1.31 | 2410006N06Rik | NM_028019.1 | Mus musculus RIKEN cDNA 2410006N06 gene (2410006N06Rik), mRNA.  |
| scl53398.18.1_7-S   | 15.3775 | 1.38 | Ganab         | NM_008060.1 |   |
| scl0001228.1_22-S   | 15.3626 | 1.18 | Nipa          | NM_172735.1 | Mus musculus nuclear interacting partner of anaplastic lymphoma kinase (Alk) (Nipa), mRNA.                  |
| scl0002748.1_8-S    | 15.3445 | 1.14 | 1110060F11Rik | NM_026395.1 | Mus musculus RIKEN cDNA 1110060F11 gene (1110060F11Rik), mRNA.  |
| scl074383.1_23-S    | 15.338  | 1.18 | Ubap2l        | NM_028475.1 |   |
| scl31806.5.1_30-S   | 15.3251 | 1.19 | 1500019G21Rik | NM_024172.2 | Mus musculus RIKEN cDNA 1500019G21 gene (1500019G21Rik), mRNA.  |
| scl0002698.1_16-S   | 15.3145 | 1.97 | D4ErtD765e    | NM_026728.1 | Mus musculus DNA segment, Chr 4, ERATO Doi 765, expressed (D4ErtD765e), mRNA.                               |
| scl36531.21.1_19-S  | 15.2756 | 1.31 | 5730439E10Rik | NM_175324.2 | Mus musculus RIKEN cDNA 5730439E10 gene (5730439E10Rik), mRNA.  |
| scl52314.6.1_5-S    | 15.2017 | 1.14 | Prdx3         | NM_007452.1 | Mus musculus peroxiredoxin 3 (Prdx3), mRNA.   |
| scl0001253.1_6-S    | 15.1528 | 1.3  | 1200016B17Rik | NM_026267.1 | Mus musculus RIKEN cDNA 1200016B17 gene (1200016B17Rik), mRNA.  |
| scl0056365.2_312-S  | 15.1166 | 2.09 | Clcnkb        | NM_019701.1 | Mus musculus chloride channel Kb (Clcnkb), mRNA.  |
| scl0319370.3_39-S   | 15.1157 | 1.41 | D030012E24Rik | NM_176902.2 | Mus musculus RIKEN cDNA D030012E24 gene (D030012E24Rik), mRNA.  |
| scl000534.1_21-S    | 15.1142 | 1.14 | Ppp1ca        | NM_031868.1 | Mus musculus protein phosphatase 1, catalytic subunit, alpha isoform (Ppp1ca), mRNA.                        |
| scl066480.2_3-S     | 15.07   | 1.16 | Rpl15         | NM_025586.1 | Mus musculus ribosomal protein L15 (Rpl15), mRNA.   |
| scl0192174.7_133-S  | 15.0556 | 1.24 | BC016198      | NM_203507.1 | Mus musculus cDNA sequence BC016198 (BC016198), mRNA.   |
| scl0002542.1_41-S   | 15.0332 | 1.49 | Poldip3       | NM_178627.3 | Mus musculus polymerase (DNA-directed), delta interacting protein 3 (Poldip3), mRNA.                        |
| scl0213989.1_4-S    | 14.9933 | 1.22 | BC025833      | NM_145987.1 |   |
| scl0014534.2_181-S  | 14.9887 | 1.26 | Gcn5l2        | NM_020004.1 | Mus musculus GCN5 general control of amino acid synthesis-like 2 (yeast) (Gcn5l2), mRNA.                    |
| scl33600.4.1_1-S    | 14.9755 | 1.2  | Asf1b         | NM_024184.1 | Mus musculus ASF1 anti-silencing function 1 homolog B (S. cerevisiae) (Asf1b), mRNA.                        |
| scl0020750.1_112-S  | 14.9638 | 1.3  | Spp1          | NM_009263.1 | Mus musculus secreted phosphoprotein 1 (Spp1), mRNA.  |

|                     |         |      |               |                   |   |
|---------------------|---------|------|---------------|-------------------|---|
| sci0056436.1_11-S   | 14.908  | 1.23 | Adrm1         | NM_019822.2       | Mus musculus adhesion regulating molecule 1 (Adrm1), mRNA.  |
| sci39389.3.1_49-S   | 14.8629 | 1.15 | 1700012B07Rik | XM_126647.2       | Mus musculus RIKEN cDNA 1700012B07 gene (1700012B07Rik), mRNA.  |
| scl000176.1_12-S    | 14.854  | 1.13 | Psma1         | NM_011965         | Mus musculus proteasome (prosome, macropain) subunit, alpha type 1 (Psma1), mRNA.   |
| sci0001880.1_15-S   | 14.8278 | 1.23 | Sec22l2       | NM_133704         | Mus musculus SEC22 vesicle trafficking protein-like 2 (S. cerevisiae) (Sec22l2), mRNA.  |
| sci51009.12.1_25-S  | 14.8094 | 1.28 | Zfp598        | NM_183149.1       | Mus musculus zinc finger protein 598 (Zfp598), mRNA.  |
| scl0002414.1_6-S    | 14.8009 | 1.44 | Fut8          | NM_016893.2       | Mus musculus fucosyltransferase 8 (Fut8), mRNA.   |
| sci36342.8.1_2-S    | 14.7821 | 1.19 | BC010801      | NM_144793.1       | Mus musculus cDNA sequence BC010801 (BC010801), mRNA.   |
| sci00269593.1_72-S  | 14.7688 | 1.25 | Luzp1         | NM_024452.1       | Mus musculus leucine zipper protein 1 (Luzp1), mRNA.  |
| scl35070.6.62_8-S   | 14.7651 | 1.24 | 2410022L05Rik | NM_025556.1       | Mus musculus RIKEN cDNA 2410022L05 gene (2410022L05Rik), mRNA.  |
| sci0018220.1_39-S   | 14.7228 | 1.15 | Nucb1         | NM_008749.1       |   |
| sci0002141.1_52-S   | 14.6988 | 1.3  | Cth           | NM_145953.2       | Mus musculus cystathionase (cystathionine gamma-lyase) (Cth), mRNA.   |
| scl49146.12.1_4-S   | 14.6965 | 1.13 | 2610033C09Rik | NM_026407.2       | Mus musculus RIKEN cDNA 2610033C09 gene (2610033C09Rik), mRNA.  |
| scl32303.22_382-S   | 14.6898 | 1.17 | Fchsd2        | NM_199012.1       | Mus musculus FCH and double SH3 domains 2 (Fchsd2), mRNA.   |
| scl22501.2_29-S     | 14.5944 | 1.15 |               | 15-Sep NM_053102  | Mus musculus selenoprotein (Sep15), mRNA.   |
| sci074451.4_24-S    | 14.5822 | 1.39 | 4933424M23Rik | XM_181351.3       |   |
| sci37876.12_7-S     | 14.5776 | 1.23 | Sirt1         | NM_019812.1       | Mus musculus sirtuin 1 (silent mating type information regulation 2, homolog) 1 (S. cerevisiae) (Sirt1), mRNA.                                |
| sci53464.6.1_108-S  | 14.5718 | 1.15 | Rce1          | NM_023131.1       | Mus musculus Ras and a-factor-converting enzyme 1 homolog (S. cerevisiae) (Rce1), mRNA.   |
| scl37752.7.6_5-S    | 14.5547 | 1.2  | Rnf126        | NM_144528.1       | Mus musculus ring finger protein 126 (Rnf126), mRNA.  |
| sci00109270.2_40-S  | 14.5483 | 1.24 | Arhgap8       | NM_146061.3       | Mus musculus Rho GTPase activating protein 8 (Arhgap8), mRNA.   |
| sci0001376.1_1-S    | 14.5152 | 1.24 | Al642036      | XM_109767.2       | Mus musculus expressed sequence Al642036 (Al642036), mRNA.  |
| sci067072.6_68-S    | 14.5149 | 1.19 | Cdc37l        | NM_025950.1       |   |
| sci0003116.1_14-S   | 14.5112 | 1.29 | Gnas          | NM_010309.1       | Mus musculus GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus (Gnas), mRNA.   |
| scl18420.2_47-S     | 14.4916 | 1.21 | Blcap         | NM_016916.2       | Mus musculus bladder cancer associated protein homolog (human) (Blcap), mRNA.   |
| scl40160.8.1_28-S   | 14.4908 | 1.29 | 1110031B06Rik | NM_144521.1       | Mus musculus RIKEN cDNA 1110031B06 gene (1110031B06Rik), mRNA.  |
| scl000624.1_18-S    | 14.4516 | 1.24 | Asah1         | NM_019734.1       | Mus musculus N-acylsphingosine amidohydrolase 1 (Asah1), mRNA.  |
| scl41564.10_42-S    | 14.45   | 1.48 |               | 8-Sep NM_033144.1 | Mus musculus septin 8 (Sept8), mRNA.  |
| scl24708.6.1_98-S   | 14.4216 | 1.33 | Fbxo2         | NM_176848.1       | Mus musculus F-box only protein 2 (Fbxo2), mRNA.  |
| scl45525.10.1_76-S  | 14.4189 | 1.36 | Ripk3         | NM_019955.1       | Mus musculus receptor-interacting serine-threonine kinase 3 (Ripk3), mRNA.  |
| sci0075430.1_15-S   | 14.4171 | 1.22 | 3200002M19Rik | NM_027532.1       | Mus musculus RIKEN cDNA 3200002M19 gene (3200002M19Rik), mRNA.  |
| sci0012729.1_55-S   | 14.4158 | 1.31 | Clns1a        | NM_023671.1       | Mus musculus chloride channel, nucleotide-sensitive, 1A (Clns1a), mRNA.   |
| sci069288.10_42-S   | 14.4062 | 1.22 | Rhobtb1       | XM_125637.4       | Mus musculus Rho-related BTB domain containing 1 (Rhobtb1), mRNA.   |
| scl38689.2.122_22-S | 14.3695 | 1.24 | 1600002K03Rik | XM_354548.1       | Mus musculus RIKEN cDNA 1600002K03 gene (1600002K03Rik), mRNA.  |
| scl42127.12.1_16-S  | 14.3572 | 1.13 | Lgmn          | NM_011175.1       | Mus musculus legumain (Lgmn), mRNA.   |
| sci0001217.1_1480-S | 14.3294 | 1.14 | Calu          | NM_007594         | Mus musculus calumenin (Calu), transcript variant 1, mRNA.  |
| scl38536.23.1_129-S | 14.2929 | 1.29 | Fgd6          | NM_053072         | Mus musculus FYVE, RhoGEF and PH domain containing 6 (Fgd6), mRNA.  |
| sci0002239.1_15-S   | 14.2806 | 1.35 | Statip1       | NM_021448.1       | Mus musculus signal transducer and activator of transcription interacting protein 1 (Statip1), mRNA.  |
| sci0001895.1_9-S    | 14.2672 | 1.38 | 2810408E11Rik | NM_029582         | Mus musculus RIKEN cDNA 2810408E11 gene (2810408E11Rik), mRNA.  |
| sci0079202.2_327-S  | 14.254  | 1.3  | Tnfrsf22      | NM_023680.2       | Mus musculus tumor necrosis factor receptor superfamily, member 22 (Tnfrsf22), mRNA.  |
| scl40042.12.1_56-S  | 14.2409 | 1.63 | Alox15b       | NM_009661.2       | Mus musculus arachidonate 15-lipoxygenase, second type (Alox15b), mRNA.   |
| sci0002367.1_17-S   | 14.2193 | 1.26 | D12ErtD748e   | NM_144833.1       | Mus musculus DNA segment, Chr 12, ERATO Doi 748, expressed (D12ErtD748e), mRNA.   |
| scl25895.13_9-S     | 14.2119 | 2.56 | Emid2         | NM_024474.2       | Mus musculus EMI domain containing 2 (Emid2), mRNA.   |
| sci066276.2_21-S    | 14.1685 | 1.15 | 1810009A15Rik | NM_025463.1       | Mus musculus RIKEN cDNA 1810009A15 gene (1810009A15Rik), mRNA.  |
| sci0001366.1_27-S   | 14.134  | 1.35 | Akap1         | NM_009648         | Mus musculus A kinase (PRKA) anchor protein 1 (Akap1), mRNA.  |
| scl0319266.2_123-S  | 14.1289 | 1.18 | A130010J15Rik | NM_181048.2       | Mus musculus RIKEN cDNA A130010J15 gene (A130010J15Rik), mRNA.  |
| sci0002525.1_37-S   | 14.1271 | 2.04 | C730048E16Rik | NM_144849.1       | Mus musculus RIKEN cDNA C730048E16 gene (C730048E16Rik), mRNA.  |
| sci0107723.25_12-S  | 14.1196 | 1.21 | Slc12a6       | NM_133649.1       | Mus musculus solute carrier family 12, member 6 (Slc12a6), mRNA.  |
| scl37739.2_4-S      | 14.111  | 1.31 | 2310011J03Rik | NM_025521.2       | Mus musculus RIKEN cDNA 2310011J03 gene (2310011J03Rik), mRNA.  |
| scl32481.15_623-S   | 14.1049 | 1.13 | Sema4b        | NM_013659.1       | Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B (Sema4b), mRNA. |
| scl19475.14.1_7-S   | 14.0982 | 1.42 | Ccb1l         | NM_172404.2       | Mus musculus cysteine conjugate-beta lyase (Ccb1l), mRNA.   |
| scl18352.5.6_5-S    | 14.0863 | 1.18 | Pte1          | NM_133240.1       | Mus musculus peroxisomal acyl-CoA thioesterase 1 (Pte1), mRNA.  |
| scl17449.2_22-S     | 14.0646 | 1.19 | Rabif         | NM_145510.1       |   |
| sci0001513.1_60-S   | 14.0461 | 1.32 | Tbrg4         | NM_134011.1       | Mus musculus transforming growth factor beta regulated gene 4 (Tbrg4), mRNA.  |
| scl0319945.1_51-S   | 14.0441 | 1.15 | A930017E24Rik | NM_177041.2       | Mus musculus RIKEN cDNA A930017E24 gene (A930017E24Rik), mRNA.  |
| scl26987.8.1779_4-S | 14.0343 | 1.43 | Cpsf4         | NM_178576.1       | Mus musculus cleavage and polyadenylation specific factor 4 (Cpsf4), mRNA.  |
| sci068149.6_175-S   | 14.0201 | 1.42 | Otub2         | NM_026580.1       |   |
| sci000872.1_37-S    | 14.0041 | 1.21 | 2510010F15Rik | NM_026454.2       | Mus musculus RIKEN cDNA 2510010F15 gene (2510010F15Rik), mRNA.  |

|                      |         |      |               |             |   |
|----------------------|---------|------|---------------|-------------|---|
| sci00225215.1_56-S   | 13.9808 | 1.18 | BC003885      | NM_198609   |   |
| sci0001884.1_59-S    | 13.9658 | 1.4  | 4122402O22Rik | XM_148118.1 | Mus musculus RIKEN cDNA 4122402O22 gene (4122402O22Rik), mRNA.  |
| sci00216150.1_133-S  | 13.9525 | 1.17 | Cdc34         | NM_177613.2 | Mus musculus cell division cycle 34 homolog (S. cerevisiae) (Cdc34), mRNA.                                |
| sci020266.8_58-S     | 13.9112 | 1.37 | D430028G21Rik | NM_144888.1 | Mus musculus RIKEN cDNA D430028G21 gene (D430028G21Rik), mRNA.  |
| sci0003575.1_17-S    | 13.8688 | 1.92 | Pigb          | NM_018889.1 | Mus musculus phosphatidylinositol glycan, class B (Pigb), mRNA.   |
| sci0003826.1_18-S    | 13.8534 | 1.25 | Ilvbl         | NM_173751.3 | Mus musculus ilvB (bacterial acetolactate synthase)-like (Ilvbl), mRNA.                                   |
| sci0068073.2_190-S   | 13.7403 | 1.15 | A930016P21Rik | NM_026546.1 | Mus musculus RIKEN cDNA A930016P21 gene (A930016P21Rik), mRNA.  |
| sci000547.1_50-S     | 13.7364 | 1.29 | Nt5c2         | NM_029810.2 | Mus musculus 5-nucleotidase, cytosolic II (Nt5c2), mRNA.  |
| sci000630.1_212-S    | 13.7288 | 1.37 | Rgs19ip1      | NM_018771.3 | Mus musculus regulator of G-protein signaling 19 interacting protein 1 (Rgs19ip1), mRNA.                  |
| sci31670.15.1_26-S   | 13.7198 | 1.21 | Ciptm1        | NM_019649.1 | Mus musculus cleft lip and palate associated transmembrane protein 1 (Ciptm1), mRNA.                      |
| sci000914.1_84-S     | 13.699  | 1.23 | Cyp20a1       | XM_129747.4 | Mus musculus cytochrome P450, family 20, subfamily A, polypeptide 1 (Cyp20a1), mRNA.                      |
| sci0018044.2_32-S    | 13.6638 | 1.75 | Nfya          | NM_010913.1 | Mus musculus nuclear transcription factor-Y alpha (Nfya), mRNA.   |
| sci018641.1_29-S     | 13.6389 | 1.17 | Pfkl          | NM_008826.2 | Mus musculus phosphofructokinase, liver, B-type (Pfkl), mRNA.   |
| sci34969.6.1_9-S     | 13.6377 | 1.25 | 2600016B03Rik | NM_026453.1 | Mus musculus RIKEN cDNA 2600016B03 gene (2600016B03Rik), mRNA.  |
| sci0001529.1_346-S   | 13.6366 | 1.17 | Tada2l        | NM_172562.1 | Mus musculus transcriptional adaptor 2 (ADA2 homolog, yeast)-like (Tada2l), mRNA.                         |
| sci024018.16_30-S    | 13.6236 | 1.36 | Rngtt         | NM_011884   | Mus musculus RNA guanylyltransferase and 5-phosphatase (Rngtt), mRNA.                                     |
| sci51521.7_200-S     | 13.6143 | 1.42 | 2610307O08Rik | NM_128954.3 | Mus musculus RIKEN cDNA 2610307O08 gene (2610307O08Rik), mRNA.  |
| sci29505.10.1_18-S   | 13.6068 | 1.28 | Nol1          | NM_138747.1 | Mus musculus nucleolar protein 1 (Nol1), mRNA.  |
| sci0001016.1_199-S   | 13.6058 | 1.32 | Asns          | NM_012055.1 | Mus musculus asparagine synthetase (Asns), mRNA.  |
| sci35279.4.1_14-S    | 13.5908 | 1.14 | Crtap         | NM_019922.1 | Mus musculus cartilage associated protein (Crtap), mRNA.  |
| sci0001610.1_0-S     | 13.5838 | 1.89 | Decr2         | NM_011933.1 | Mus musculus 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal (Decr2), mRNA.                               |
| sci0021697.1.1_119-S | 13.5693 | 1.2  | BC017647      | NM_145430.1 | Mus musculus cDNA sequence BC017647 (BC017647), mRNA.   |
| sci00235344.1_224-S  | 13.5499 | 1.31 | Sik2          | NM_178710.3 | Mus musculus salt inducible kinase 2 (Sik2), mRNA.  |
| sci0003528.1_25-S    | 13.5429 | 1.37 | BC024806      | NM_172291.1 | Mus musculus cDNA sequence BC024806 (BC024806), mRNA.   |
| sci0016396.1_119-S   | 13.5425 | 1.18 | Itch          | XM_192925.3 | Mus musculus itchy (Itch), mRNA.  |
| sci30301.28.1_43-S   | 13.5159 | 1.17 | AL033314      | NM_019776   | Mus musculus expressed sequence AL033314 (AL033314), mRNA.  |
| sci030932.2_33-S     | 13.5133 | 1.15 | Zfp330        | NM_145600.1 | Mus musculus zinc finger protein 330 (Zfp330), mRNA.  |
| sci0020280.2_23-S    | 13.4727 | 1.31 | Scp2          | NM_011327.1 | Mus musculus sterol carrier protein 2, liver (Scp2), mRNA.  |
| sci0229517.1_78-S    | 13.4704 | 1.17 | B430110G05Rik | NM_178696.2 | Mus musculus RIKEN cDNA B430110G05 gene (B430110G05Rik), mRNA.  |
| sci38953.16.1_28-S   | 13.4648 | 1.14 | Prep          | NM_011156.2 | Mus musculus prolyl endopeptidase (Prep), mRNA.   |
| sci053607.7_2-S      | 13.4598 | 1.18 | Snrpa         | NM_015782.2 | Mus musculus small nuclear ribonucleoprotein polypeptide A (Snrpa), mRNA.                                 |
| sci030933.5_3-S      | 13.4539 | 1.14 | Tor2a         | NM_152800.1 | Mus musculus torsin family 2, member A (Tor2a), mRNA.   |
| sci41677.17_612-S    | 13.4528 | 1.39 | D11ErtD730e   | NM_198936.1 | Mus musculus DNA segment, Chr 11, ERATO Doi 730, expressed (D11ErtD730e), transcript variant 1, mRNA.     |
| sci000735.1_34-S     | 13.4286 | 1.16 | Mrps31        | NM_020560.1 | Mus musculus mitochondrial ribosomal protein S31 (Mrps31), mRNA.  |
| sci29590.2_145-S     | 13.3749 | 1.5  | 8430408G22Rik | NM_145980.1 | Mus musculus RIKEN cDNA 8430408G22 gene (8430408G22Rik), mRNA.  |
| sci37892.17.17_22-S  | 13.3645 | 1.14 | Ddx50         | NM_053183.1 | Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 (Ddx50), mRNA.                                     |
| sci29535.9_66-S      | 13.3641 | 1.18 | 1200016B17Rik | NM_026267.1 | Mus musculus RIKEN cDNA 1200016B17 gene (1200016B17Rik), mRNA.  |
| sci36702.4_49-S      | 13.3537 | 1.31 | Arpp19        | NM_021548.3 | Mus musculus cAMP-regulated phosphoprotein 19 (Arpp19), mRNA.   |
| sci18254.7.1_9-S     | 13.3225 | 1.13 | Ctsz          | NM_022325.3 | Mus musculus cathepsin Z (Ctsz), mRNA.  |
| sci0068046.2_0-S     | 13.3157 | 1.18 | 2700062C07Rik | NM_026529.2 | Mus musculus RIKEN cDNA 2700062C07 gene (2700062C07Rik), mRNA.  |
| sci017904.3_16-S     | 13.3101 | 1.23 | Myl6          | NM_010860   | Mus musculus myosin, light polypeptide 6, alkali, smooth muscle and non-muscle (Myl6), mRNA.              |
| sci27394.6.6_14-S    | 13.3037 | 1.41 | Ung           | NM_011677.1 | Mus musculus uracil-DNA glycosylase (Ung), mRNA.  |
| sci0027366.2_282-S   | 13.3012 | 1.4  | Txn14         | NM_025299.1 | Mus musculus thioredoxin-like 4 (Txn14), mRNA.  |
| sci0020334.2_256-S   | 13.2851 | 1.2  | Sec23a        | NM_009147.1 | Mus musculus SEC23A (S. cerevisiae) (Sec23a), mRNA.   |
| sci0001867.1_58-S    | 13.2816 | 1.12 | Sfrs10        | NM_009186   | Mus musculus splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila) (Sfrs10), mRNA. |
| sci43391.2_27-S      | 13.2516 | 1.25 | Rdh14         | NM_023697.1 | Mus musculus retinol dehydrogenase 14 (all-trans and 9-cis) (Rdh14), mRNA.                                |
| sci48494.5_274-S     | 13.2464 | 1.14 | Gtf2e1        | NM_028812.1 | Mus musculus general transcription factor II E, polypeptide 1 (alpha subunit) (Gtf2e1), mRNA.             |
| sci0016866.2_28-S    | 13.222  | 1.97 | Lhb           | NM_008497.1 | Mus musculus luteinizing hormone beta (Lhb), mRNA.  |
| sci000856.1_265-S    | 13.2205 | 1.17 | 1810059A23Rik | NM_178051.3 | Mus musculus RIKEN cDNA 1810059A23 gene (1810059A23Rik), mRNA.  |
| sci0105835.22_280-S  | 13.2146 | 1.14 | Rutbc3        | NM_134091.1 | Mus musculus RUN and TBC1 domain containing 3 (Rutbc3), mRNA.   |
| sci058520.1_161-S    | 13.2112 | 1.13 | 0610007P14Rik | NM_021446   |   |
| sci37680.23_192-S    | 13.1739 | 1.33 | D330038I09Rik | NM_153543.1 | Mus musculus RIKEN cDNA D330038I09 gene (D330038I09Rik), mRNA.  |
| sci0066690.2_9-S     | 13.1415 | 1.23 | 4432406C05Rik | NM_025708.1 | Mus musculus RIKEN cDNA 4432406C05 gene (4432406C05Rik), mRNA.  |
| sci37580.8_154-S     | 13.1154 | 1.15 | Nudt4         | NM_027722.2 | Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 4 (Nudt4), mRNA.                   |
| sci018771.13_29-S    | 13.0776 | 1.18 | Pknox1        | NM_016670.2 | Mus musculus Pbx/knotted 1 homeobox (Pknox1), mRNA.   |
| sci019349.7_39-S     | 13.033  | 1.22 | Rab7          | NM_009005.1 | Mus musculus RAB7, member RAS oncogene family (Rab7), mRNA.   |



|                   |         |      |       |             |   |
|-------------------|---------|------|-------|-------------|---|
| sci00276770.1_2-S | 13.0316 | 1.12 | Eif5a | NM_181582.2 | Mus musculus eukaryotic translation initiation factor 5A (Eif5a), mRNA. |
|-------------------|---------|------|-------|-------------|---|

| DOWN-REGULATED - GENES (TREATMENT VERSUS CONTROL) |            |             |               |             |  |
|---|------------|-------------|---------------|-------------|--|
| TargetID  | Diff_Score | Fold_Change | Symbol        | Accession   | Definition   |
| scl41415.40.1_177-S                               | -82.0886   | -9.38       | Myh2          | NM_144961.1 | Mus musculus myosin, heavy polypeptide 2, skeletal muscle, adult (Myh2), mRNA.   |
| scl000057.1_28-S                                  | -56.6099   | -1.51       | Nme7          | NM_138314.1 | Mus musculus non-metastatic cells 7, protein expressed in (Nme7), mRNA.  |
| scl012615.5_26-S                                  | -56.4819   | -1.4        | Cenpa         | NM_007681.1 | Mus musculus centromere autoantigen A (Cenpa), mRNA.   |
| scl27294.16.1_239-S                               | -50.5519   | -1.33       | Slc24a6       | NM_133221.1 | Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 6 (Slc24a6), mRNA.                      |
| scl44186.8.1_13-S                                 | -46.5506   | -1.28       | Gmnn          | NM_020567.1 | Mus musculus geminin (Gmnn), mRNA.   |
| scl000916.1_126-S                                 | -45.8923   | -1.56       | Pou2f1        | NM_011137.1 | Mus musculus POU domain, class 2, transcription factor 1 (Pou2f1), transcript variant 1, mRNA.                             |
| scl000061.1_90_REVCOMP-S                          | -44.4053   | -1.34       | Nme7          | NM_138314.1 | Mus musculus non-metastatic cells 7, protein expressed in (Nme7), mRNA.  |
| scl0109272.1_22-S                                 | -42.2629   | -3.83       | 8030451F13Rik | NM_175418.3 | Mus musculus RIKEN cDNA 8030451F13 gene (8030451F13Rik), mRNA.   |
| scl0105245.1_201-S                                | -41.9645   | -1.25       | Txndc5        | NM_145367.2 | Mus musculus thioredoxin domain containing 5 (Txndc5), mRNA.   |
| scl017306.1_7-S                                   | -40.672    | -3.7        | Mg29          | NM_008596.1 | Mus musculus mitsugumin 29 (Mg29), mRNA.   |
| scl066167.1_147-S                                 | -38.0218   | -1.26       | 1110017O22Rik | NM_183250.1 | Mus musculus RIKEN cDNA 1110017O22 gene (1110017O22Rik), mRNA.   |
| scl17394.26.1_66-S                                | -37.8224   | -1.43       | Calmbp1       | NM_009791.2 | Mus musculus calmodulin binding protein 1 (Calmbp1), mRNA.   |
| scl45887.9.1_15-S                                 | -37.2604   | -1.37       | 2400006A19Rik | NM_025550.2 | Mus musculus RIKEN cDNA 2400006A19 gene (2400006A19Rik), mRNA.   |
| scl29741.15_76-S                                  | -36.4073   | -1.28       | Slc6a6        | NM_009320.3 | Mus musculus solute carrier family 6 (neurotransmitter transporter, taurine), member 6 (Slc6a6), mRNA.                     |
| scl45217.22.1_37-S                                | -36.2313   | -1.34       | 2810028N01Rik | NM_028315.1 | Mus musculus RIKEN cDNA 2810028N01 gene (2810028N01Rik), mRNA.   |
| scl0004148.1_17-S                                 | -36.0583   | -1.27       | Lias          | NM_024471.2 | Mus musculus lipoic acid synthetase (Lias), mRNA.  |
| scl069940.12_93-S                                 | -34.0765   | -1.28       | 2810407P21Rik | XM_132150.5 |  |
| scl44289.22.3_135-S                               | -33.8323   | -7.06       | Actn2         | NM_033268.2 | Mus musculus actinin alpha 2 (Actn2), mRNA.  |
| scl0016341.1_91-S                                 | -33.2826   | -1.25       | Eif3s6        | NM_008388.1 | Mus musculus eukaryotic translation initiation factor 3, subunit 6 (Eif3s6), mRNA.   |
| scl0019655.2_139-S                                | -32.8016   | -1.45       | Rbmx          | NM_011252.2 | Mus musculus RNA binding motif protein, X chromosome (Rbmx), mRNA.   |
| scl00231207.2_238-S                               | -32.1588   | -1.51       | Cpeb2         | NM_175937.2 | Mus musculus cytoplasmic polyadenylation element binding protein 2 (Cpeb2), mRNA.  |
| scl19273.11.127_68-S                              | -32.1545   | -1.32       | Fnbp3         | NM_018785.1 | Mus musculus formin binding protein 3 (Fnbp3), mRNA.   |
| scl44578.8.1_13-S                                 | -32.0866   | -1.21       | Cetn3         | NM_007684.2 | Mus musculus centrin 3 (Cetn3), mRNA.  |
| scl42842.7.1_0-S                                  | -31.0509   | -1.51       | D12Ert647e    | NM_026790.1 | Mus musculus DNA segment, Chr 12, ERATO Doi 647, expressed (D12Ert647e), transcript variant 1, mRNA.                       |
| scl33854.9.1_18-S                                 | -29.1986   | -2.51       | Pdlim3        | NM_016798.2 | Mus musculus PDZ and LIM domain 3 (Pdlim3), mRNA.  |
| scl011958.2_29-S                                  | -29.0528   | -1.35       | Atp5k         | NM_007507   | Mus musculus ATP synthase, H+ transporting, mitochondrial F1F0 complex, subunit e (Atp5k), mRNA.                           |
| scl15984.9.1_5-S                                  | -29.0437   | -1.24       | AA407809      | NM_030724.1 | Mus musculus uridine monophosphate kinase (Umpk), mRNA.  |
| scl0026895.1_34-S                                 | -28.9595   | -1.24       | Cops7b        | NM_172974.1 | Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 7b (Arabidopsis thaliana) (Cops7b), mRNA.               |
| scl35165.21_648-S                                 | -28.7956   | -1.66       | Fyco1         | NM_148925.1 | Mus musculus FYVE and coiled-coil domain containing 1 (Fyco1), mRNA.   |
| scl054343.15_6-S                                  | -28.7855   | -1.34       | Atf7ip        | NM_019426.2 | Mus musculus activating transcription factor 7 interacting protein (Atf7ip), mRNA.   |
| scl41882.13_532-S                                 | -28.6682   | -1.23       | Nipsnap1      | NM_008698.1 | Mus musculus 4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (C. elegans) (Nipsnap1), mRNA. |
| scl020019.27_27-S                                 | -28.4773   | -1.32       | Rpo1-4        | NM_009088   | Mus musculus RNA polymerase 1-4 (Rpo1-4), mRNA.  |
| scl057905.1_53-S                                  | -28.4723   | -1.26       | 5830446M03Rik | NM_133934.2 | Mus musculus RIKEN cDNA 5830446M03 gene (5830446M03Rik), mRNA.   |
| scl0233835.12_26-S                                | -28.2838   | -1.23       | Tnrc6         | NM_144925.2 | Mus musculus trinucleotide repeat containing 6 (Tnrc6), mRNA.  |
| scl056399.1_113-S                                 | -28.2717   | -1.31       | Akap8         | NM_019774.2 | Mus musculus A kinase (PRKA) anchor protein 8 (Akap8), mRNA.   |
| scl00245945.1_50-S                                | -27.7122   | -1.23       | BC013481      | NM_178446.2 | Mus musculus cDNA sequence BC013481 (BC013481), mRNA.  |
| scl079464.11_51-S                                 | -27.446    | -1.2        | Lias          | NM_024471.2 | Mus musculus lipoic acid synthetase (Lias), mRNA.  |
| scl55039.15_103-S                                 | -27.0339   | -1.19       | Ddx3x         | NM_010028   | Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx3x), mRNA.                                       |
| scl41115.27.1_34-S                                | -26.9709   | -1.24       | Myohd1        | NM_025414.2 | Mus musculus myosin head domain containing 1 (Myohd1), mRNA.   |
| scl0002713.1_39-S                                 | -26.9559   | -1.42       | Cdc212        | NM_007661.2 | Mus musculus cell division cycle 2 homolog (S. pombe)-like 2 (Cdc212), mRNA.   |
| scl000073.1_22-S                                  | -26.8572   | -1.37       | Glccl1        | NM_178072.2 | Mus musculus glucocorticoid induced transcript 1 (Glccl1), mRNA.   |
| scl30540.4_93-S                                   | -26.8376   | -1.24       | 9430038I01Rik | XM_133909.3 | Mus musculus RIKEN cDNA 9430038I01 gene (9430038I01Rik), mRNA.   |
| scl18647.1_62-S                                   | -26.7673   | -1.25       | Cenpb         | NM_007682.2 | Mus musculus centromere autoantigen B (Cenpb), mRNA.   |
| scl49864.8_499-S                                  | -26.1531   | -1.23       | Srf           | NM_020493   | Mus musculus serum response factor (Srf), mRNA.  |
| scl54919.12_462-S                                 | -26.0811   | -3.4        | Fhl1          | NM_010211.1 | Mus musculus four and a half LIM domains 1 (Fhl1), mRNA.   |
| scl24957.6.1_12-S                                 | -25.9272   | -1.22       | Psmb2         | NM_011970.2 | Mus musculus proteasome (prosome, macropain) subunit, beta type 2 (Psmb2), mRNA.   |
| scl21701.9.1_3-S                                  | -25.8626   | -1.2        | Atp5f1        | NM_009725.1 | Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1 (Atp5f1), mRNA.                 |
| scl070456.4_0-S                                   | -25.542    | -1.23       | 2610205H19Rik | NM_027430.1 | Mus musculus RIKEN cDNA 2610205H19 gene (2610205H19Rik), mRNA.   |
| scl015289.1_26-S                                  | -25.4884   | -1.19       | Hmgb1         | NM_010439.2 | Mus musculus high mobility group box 1 (Hmgb1), mRNA.  |
| scl39624.22.175_1-S                               | -25.1293   | -1.2        | Pparbp        | NM_134027.1 | Mus musculus peroxisome proliferator activated receptor binding protein (Pparbp), mRNA.                                    |
| scl42729.13.1_74-S                                | -25.1225   | -1.27       | Adssl1        | NM_007421.1 |  |
| scl28688.42_395-S                                 | -25.0592   | -1.19       | Nup210        | NM_018815.1 | Mus musculus nucleoporin 210 (Nup210), mRNA.   |
| scl00230233.2_15-S                                | -25.0141   | -1.24       | Ikbkap        | NM_026079.1 | Mus musculus inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated protein (Ikbkap), mRNA.   |
| scl018032.3_14-S                                  | -25.0122   | -1.62       | Nfix          | NM_010906.1 | Mus musculus nuclear factor I/X (Nfix), mRNA.  |

|                     |          |       |               |             |   |
|---------------------|----------|-------|---------------|-------------|---|
| sci34188.7.1_72-S   | -24.7535 | -7.63 | Acta1         | NM_009606.1 | Mus musculus actin, alpha 1, skeletal muscle (Acta1), mRNA.   |
| sci0076117.1_128-S  | -24.7375 | -1.24 | Arhgap15      | NM_153820.1 | Mus musculus Rho GTPase activating protein 15 (Arhgap15), mRNA.   |
| sci0030791.1_194-S  | -24.6938 | -1.24 | Slc39a1       | NM_013901   | Mus musculus solute carrier family 39 (zinc transporter), member 1 (Slc39a1), mRNA.                               |
| sci00269682.2_253-S | -24.6142 | -1.21 | Golga3        | NM_008146.3 | Mus musculus golgi autoantigen, golgin subfamily a, 3 (Golga3), mRNA.   |
| sci068020.5_23-S    | -24.5927 | -1.21 | 2810002N01Rik | NM_026511.1 | Mus musculus RIKEN cDNA 2810002N01 gene (2810002N01Rik), mRNA.  |
| sci17783.10_25-S    | -24.4941 | -1.18 | BC038286      | NM_170755.1 | Mus musculus cDNA sequence BC038286 (BC038286), mRNA.   |
| sci25693.5.1_159-S  | -24.4371 | -1.22 | Chd7          | XM_149413.3 |   |
| sci068552.1_11-S    | -24.4006 | -1.32 | 1110003E01Rik | NM_133697.1 | Mus musculus RIKEN cDNA 1110003E01 gene (1110003E01Rik), mRNA.  |
| sci068183.7_27-S    | -24.3894 | -1.18 | Bcas2         | NM_026602.1 | Mus musculus breast carcinoma amplified sequence 2 (Bcas2), mRNA.   |
| sci00194856.1_125-S | -24.2383 | -1.75 | Ehox          | NM_021300   | Mus musculus ES cell derived homeobox containing gene (Ehox), mRNA.   |
| sci40787.10.7_5-S   | -23.9295 | -1.19 | Psmd12        | NM_025894.1 | Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 12 (Psmd12), mRNA.                          |
| sci0067980.2_203-S  | -23.8899 | -1.22 | Gnpda2        | NM_027681.1 | Mus musculus glucosamine-6-phosphate deaminase 2 (Gnpda2), mRNA.  |
| sci42015.3_219-S    | -23.8107 | -1.18 | Cdca4         | NM_028023.3 | Mus musculus cell division cycle associated 4 (Cdca4), mRNA.  |
| sci52003.17_261-S   | -23.7776 | -1.31 | Ythdc2        | XM_140310.4 |   |
| sci43996.22.1_91-S  | -23.7707 | -1.38 | 1810073P09Rik | XM_127323.4 | Mus musculus RIKEN cDNA 1810073P09 gene (1810073P09Rik), mRNA.  |
| sci0021961.1_190-S  | -23.7493 | -1.73 | Tns           | XM_355214.1 | Mus musculus tensin (Tns), mRNA.  |
| sci0073197.1_297-S  | -23.6547 | -1.2  | D19Erd703e    | NM_029456.1 |   |
| sci15890.11.1_28-S  | -23.5948 | -1.24 | Fh1           | NM_010209   | Mus musculus fumarate hydratase 1 (Fh1), mRNA.  |
| sci00231327.1_147-S | -23.4217 | -1.34 | Ppat          | NM_172146.1 | Mus musculus phosphoribosyl pyrophosphate amidotransferase (Ppat), mRNA.  |
| sci25295.54.1_177-S | -23.3259 | -1.22 | BC057079      | XM_283973.2 |   |
| sci019298.8_30-S    | -23.2693 | -1.22 | Pex19         | NM_023041.2 | Mus musculus peroxisome biogenesis factor 19 (Pex19), mRNA.   |
| sci50166.4.1_1-S    | -23.1795 | -1.23 | Stub1         | NM_019719.2 | Mus musculus STIP1 homology and U-Box containing protein 1 (Stub1), mRNA.   |
| sci24632.19.1_94-S  | -22.97   | -1.21 | Pank4         | NM_172990.1 | Mus musculus pantothenate kinase 4 (Pank4), mRNA.   |
| sci023986.1_240-S   | -22.9062 | -1.36 | Peci          | NM_011868.1 | Mus musculus peroxisomal delta3, delta2-enoil-Coenzyme A isomerase (Peci), mRNA.                                  |
| sci32040.11.1_26-S  | -22.8802 | -8.18 | Mylpf         | NM_016754.3 | Mus musculus myosin light chain, phosphorylatable, fast skeletal muscle (Mylpf), mRNA.                            |
| sci00230249.2_159-S | -22.8105 | -1.19 | AI314180      | NM_172381.2 | Mus musculus expressed sequence AI314180 (AI314180), mRNA.  |
| sci45842.16.1_36-S  | -22.7578 | -1.3  | Ndst2         | NM_010811.1 | Mus musculus N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 (Ndst2), mRNA.                             |
| sci0002972.1_431-S  | -22.7259 | -1.22 | U2af1-rs2     | NM_178794.2 | Mus musculus U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 1, related sequence 2 (U2af1-rs2), mRNA.  |
| sci0230789.1_243-S  | -22.7235 | -1.2  | BC008163      | NM_145553.1 | Mus musculus cDNA sequence BC008163 (BC008163), mRNA.   |
| sci017993.1_123-S   | -22.5353 | -1.21 | Ndufs4        | NM_010887.1 | Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4), mRNA.                                       |
| sci41376.4_29-S     | -22.4262 | -1.38 | Vamp2         | NM_009497.2 | Mus musculus vesicle-associated membrane protein 2 (Vamp2), mRNA.   |
| sci51556.7_209-S    | -21.9926 | -1.81 | DOH4S114      | NM_053078.3 | Mus musculus DNA segment, human D4S114 (DOH4S114), mRNA.  |
| sci16520.16_184-S   | -21.9742 | -1.17 | Ncl           | NM_010880.2 | Mus musculus nucleolin (Ncl), mRNA.   |
| sci28701.8.1_115-S  | -21.9472 | -1.18 | 0710001P09Rik | NM_025351.2 | Mus musculus RIKEN cDNA 0710001P09 gene (0710001P09Rik), mRNA.  |
| sci0269336.1_23-S   | -21.9024 | -1.32 | Gm631         | NM_199310.1 | Mus musculus gene model 631, (NCBI) (Gm631), mRNA.  |
| sci17280.16.5_29-S  | -21.8418 | -1.21 | Nme7          | NM_138314.1 | Mus musculus non-metastatic cells 7, protein expressed in (Nme7), mRNA.   |
| sci022017.1_28-S    | -21.6961 | -1.84 | Tpmt          | NM_016785   | Mus musculus thiopurine methyltransferase (Tpmt), mRNA.   |
| sci0077827.2_271-S  | -21.6614 | -1.28 | A930040G15Rik | NM_133922.2 | Mus musculus RIKEN cDNA A930040G15 gene (A930040G15Rik), mRNA.  |
| sci18797.26.1_142-S | -21.5673 | -1.22 | Rpap1         | NM_177294.3 | Mus musculus RNA polymerase II associated protein 1 (Rpap1), mRNA.  |
| sci078656.1_42-S    | -21.5338 | -1.22 | Brd8          | NM_144864.1 | Mus musculus bromodomain containing 8 (Brd8), mRNA.   |
| sci21655.11.1_0-S   | -21.5126 | -1.25 | Atxn7l2       | NM_175183.2 |   |
| sci020716.5_261-S   | -21.3836 | -1.45 | Serpina3n     | NM_009252.1 | Mus musculus serine (or cysteine) proteinase inhibitor, clade A, member 3N (Serpina3n), mRNA.                     |
| sci21206.2.1_228-S  | -21.3213 | -1.23 | Bri3          | NM_018772.1 | Mus musculus brain protein I3 (Bri3), mRNA.   |
| sci0019647.2_60-S   | -21.3022 | -1.36 | Rbbp6         | NM_011247.1 | Mus musculus retinoblastoma binding protein 6 (Rbbp6), mRNA.  |
| sci0094093.2_245-S  | -21.2748 | -1.2  | Trim33        | NM_053170.1 | Mus musculus tripartite motif protein 33 (Trim33), mRNA.  |
| sci076044.3_63-S    | -21.2112 | -1.28 | 5830426I05Rik | NM_133762   | Mus musculus RIKEN cDNA 5830426I05 gene (5830426I05Rik), mRNA.  |
| sci18001.16.1_91-S  | -21.0741 | -1.27 | Ercc5         | NM_011729   | Mus musculus excision repair cross-complementing rodent repair deficiency, complementation group 5 (Ercc5), mRNA. |
| sci0017222.2_194-S  | -21.0336 | -1.19 | Anapc1        | NM_008569.1 | Mus musculus anaphase promoting complex subunit 1 (Anapc1), mRNA.   |
| sci019231.6_192-S   | -20.9532 | -1.16 | Ptma          | NM_008972.1 | Mus musculus prothymosin alpha (Ptma), mRNA.  |
| sci0017765.2_254-S  | -20.6411 | -1.18 | Mtf2          | NM_013827.1 | Mus musculus metal response element binding transcription factor 2 (Mtf2), mRNA.                                  |
| sci28314.7.1_50-S   | -20.51   | -1.2  | 2010012C16Rik | NM_025564.1 | Mus musculus RIKEN cDNA 2010012C16 gene (2010012C16Rik), mRNA.  |
| sci0001105.1_0-S    | -20.4106 | -1.19 | 4932409F11Rik | NM_029404.1 | Mus musculus RIKEN cDNA 4932409F11 gene (4932409F11Rik), mRNA.  |
| sci015382.13_13-S   | -20.3863 | -1.16 | Hnrpa1        | NM_010447   | Mus musculus heterogeneous nuclear ribonucleoprotein A1 (Hnrpa1), mRNA.   |
| sci0075710.1_219-S  | -20.364  | -1.21 | Rbm12         | NM_029397.2 | Mus musculus RNA binding motif protein 12 (Rbm12), transcript variant 1, mRNA.                                    |
| sci46503.3.1_8-S    | -20.2672 | -2.51 | Mustn1        | NM_181390.1 | Mus musculus musculoskeletal, embryonic nuclear protein 1 (Mustn1), mRNA.   |
| sci40941.2_163-S    | -20.1548 | -16   | Tcap          | NM_011540.1 | Mus musculus titin-cap (Tcap), mRNA.  |

|                     |          |        |               |             |   |
|---------------------|----------|--------|---------------|-------------|---|
| sci077134.2_4-S     | -20.1453 | -1.38  | Hnrpa0        |             |   |
| sci028071.4_2-S     | -20.1077 | -1.17  | Twistnb       | NM_172253.1 | Mus musculus TWIST neighbor (Twistnb), mRNA.  |
| sci0116905.1_30-S   | -20.0851 | -1.26  | Dph21l        | NM_144491   | Mus musculus diphtheria toxin resistance protein required for diphthamide biosynthesis (Saccharomyces)-like 1 (Dph21l), mRNA. |
| sci27427.17_318-S   | -20.081  | -2.75  | AI428795      | NM_024477.2 | Mus musculus expressed sequence AI428795 (AI428795), mRNA.  |
| sci40837.7_339-S    | -20.0663 | -1.19  | Arf2          | NM_007477.2 | Mus musculus ADP-ribosylation factor 2 (Arf2), mRNA.  |
| sci0018534.2_230-S  | -20.0529 | -4.34  | Pck1          | NM_011044.1 | Mus musculus phosphoenolpyruvate carboxykinase 1, cytosolic (Pck1), mRNA.   |
| sci018817.10_297-S  | -20.0364 | -1.17  | Plk1          | NM_011121.2 | Mus musculus polo-like kinase 1 (Drosophila) (Plk1), mRNA.  |
| sci22860.4.705_3-S  | -19.9727 | -4.8   | Rgmc          | NM_027126.2 | Mus musculus RGM domain family, member C (Rgmc), mRNA.  |
| sci013628.1_321-S   | -19.9618 | -8.59  | Eef1a2        | NM_007906.2 | Mus musculus eukaryotic translation elongation factor 1 alpha 2 (Eef1a2), mRNA.   |
| sci068735.6_63-S    | -19.9542 | -1.18  | Mrps18c       | XM_194230.3 |   |
| sci066475.2_30-S    | -19.7828 | -1.15  | Rps23         | NM_024175   | Mus musculus ribosomal protein S23 (Rps23), mRNA.   |
| sci45844.6.1_21-S   | -19.7495 | -10.73 | Myoz1         | NM_021508.2 | Mus musculus myozenin 1 (Myoz1), mRNA.  |
| sci42889.2_553-S    | -19.7403 | -1.17  | Gpr65         | NM_008152.1 | Mus musculus G-protein coupled receptor 65 (Gpr65), mRNA.   |
| sci0001138.1_17-S   | -19.6608 | -1.2   | Ezh2          | NM_007971.1 | Mus musculus enhancer of zeste homolog 2 (Drosophila) (Ezh2), mRNA.   |
| sci014077.4_160-S   | -19.6073 | -2.72  | Fabp3         | NM_010174.1 | Mus musculus fatty acid binding protein 3, muscle and heart (Fabp3), mRNA.  |
| sci0230861.11_53-S  | -19.5926 | -1.17  | Eif4g3        | NM_172703.1 | Mus musculus eukaryotic translation initiation factor 4 gamma, 3 (Eif4g3), mRNA.  |
| sci066101.2_17-S    | -19.5001 | -1.17  | Ppih          | NM_028677   | Mus musculus peptidyl prolyl isomerase H (Ppih), mRNA.  |
| sci0023807.1_130-S  | -19.4425 | -1.18  | Arih2         | NM_011790.2 | Mus musculus ariadne homolog 2 (Drosophila) (Arih2), mRNA.  |
| sci053610.12_290-S  | -19.4267 | -1.17  | Nono          | NM_023144.1 | Mus musculus non-POU-domain-containing, octamer binding protein (Nono), mRNA.   |
| sci18350.6.1_7-S    | -19.4265 | -8.71  | Tnnc2         | NM_009394.2 | Mus musculus troponin C2, fast (Tnnc2), mRNA.   |
| sci54148.25_5-S     | -19.3834 | -1.16  | Hcfc1         | NM_008224.2 | Mus musculus host cell factor C1 (Hcfc1), mRNA.   |
| sci0067246.1_211-S  | -19.3597 | -1.18  | 2810474O19Rik | XM_132966.3 | Mus musculus RIKEN cDNA 2810474O19 gene (2810474O19Rik), mRNA.  |
| sci22447.5.1_50-S   | -19.3557 | -2.31  | Zzz3          | NM_198416.1 | Mus musculus zinc finger, ZZ domain containing 3 (Zzz3), mRNA.  |
| sci0072567.2_59-S   | -19.3296 | -1.22  | Bclaf1        | NM_153787.1 | Mus musculus BCL2-associated transcription factor 1 (Bclaf1), mRNA.   |
| sci076722.3_2-S     | -19.3112 | -8.19  | Ckmt2         | NM_198415.1 | Mus musculus creatine kinase, mitochondrial 2 (Ckmt2), mRNA.  |
| sci064657.6_146-S   | -19.251  | -1.16  | Mrps10        | NM_183086   | Mus musculus mitochondrial ribosomal protein S10 (Mrps10), mRNA.  |
| sci0233904.6_160-S  | -19.2295 | -1.21  | BC010250      | NM_178029.2 | Mus musculus cDNA sequence BC010250 (BC010250), mRNA.   |
| sci0268697.4_6-S    | -19.2204 | -1.16  | Ccnb1         | NM_172301.2 | Mus musculus cyclin B1 (Ccnb1), mRNA.   |
| sci29941.5_87-S     | -19.2092 | -1.22  | Mad2l1        | NM_019499   | Mus musculus MAD2 (mitotic arrest deficient, homolog)-like 1 (yeast) (Mad2l1), mRNA.  |
| sci057435.1_222-S   | -19.1563 | -3.52  | S3-12         | NM_020568.1 | Mus musculus plasma membrane associated protein, S3-12 (S3-12), mRNA.   |
| sci27567.9_262-S    | -19.0407 | -1.2   | Ccng2         | NM_007635.2 | Mus musculus cyclin G2 (Ccng2), mRNA.   |
| sci24979.20.1_9-S   | -18.9861 | -1.19  | Gnl2          | NM_145552   |   |
| sci48796.17_240-S   | -18.8698 | -1.2   | 2700067D09Rik | NM_028301.1 | Mus musculus RIKEN cDNA 2700067D09 gene (2700067D09Rik), mRNA.  |
| sci06737.1.1_2-S    | -18.8301 | -1.17  | 2410016F19Rik | NM_026113.2 | Mus musculus RIKEN cDNA 2410016F19 gene (2410016F19Rik), mRNA.  |
| sci0020019.1_252-S  | -18.8297 | -1.26  | Rpo1-4        | NM_009088.2 | Mus musculus RNA polymerase 1-4 (Rpo1-4), mRNA.   |
| sci30455.5_27-S     | -18.8217 | -2.85  | Cdkn1c        | NM_009876.2 | Mus musculus cyclin-dependent kinase inhibitor 1C (P57) (Cdkn1c), mRNA.   |
| sci31868.19.1_21-S  | -18.7859 | -10.36 | Tnnt3         | NM_011620.1 | Mus musculus troponin T3, skeletal, fast (Tnnt3), mRNA.   |
| sci28064.14.1_8-S   | -18.7787 | -1.16  | Pmpcb         | XM_131914.3 |   |
| sci50802.2_363-S    | -18.7684 | -1.24  | Bat9          | NM_198886.2 | Mus musculus HLA-B-associated transcript 9 (Bat9), mRNA.  |
| sci31869.6.1_15-S   | -18.7415 | -8.14  | Tnni2         | NM_009405.1 | Mus musculus troponin I, skeletal, fast 2 (Tnni2), mRNA.  |
| sci48750.6_548-S    | -18.7101 | -1.17  | C530044N13Rik | NM_146067   | Mus musculus RIKEN cDNA C530044N13 gene (C530044N13Rik), mRNA.  |
| sci28063.9.402_1-S  | -18.6474 | -1.15  | Psmc2         | NM_011188.1 | Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase 2 (Psmc2), mRNA.   |
| sci50870.14.236_9-S | -18.642  | -1.23  | 2600005C20Rik | NM_028244.1 | Mus musculus RIKEN cDNA 2600005C20 gene (2600005C20Rik), mRNA.  |
| sci0277333.1_280-S  | -18.635  | -1.22  | MGC68323      | NM_199472.1 | Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) (EC 1.2.1.12) - mouse (MGC68323), mRNA.    |
| sci46996.5.2_2-S    | -18.625  | -10.34 | Pvalb         | NM_013645.2 |   |
| sci0012865.1_86-S   | -18.6068 | -3.68  | Cox7a1        | NM_009944.2 | Mus musculus cytochrome c oxidase, subunit VIIa 1 (Cox7a1), mRNA.   |
| sci18252.2_52-S     | -18.5994 | -1.16  | Atp5e         | NM_025983.2 | Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit (Atp5e), mRNA.                          |
| sci28047.15_452-S   | -18.599  | -1.31  | 1500019C06Rik | NM_177323.2 |   |
| sci021922.2_0-S     | -18.5958 | -1.51  | Tna           | XM_147338.1 | Mus musculus tetranectin (plasminogen binding protein) (Tna), mRNA.   |
| sci056070.7_28-S    | -18.5436 | -1.3   | Tcerg1        | NM_019512.1 | Mus musculus transcription elongation regulator 1 (CA150) (Tcerg1), mRNA.   |
| sci19105.6_353-S    | -18.5249 | -4.7   | Ttn           | XM_130312.3 | Mus musculus titin (Ttn), mRNA.   |
| sci069146.11_118-S  | -18.5193 | -1.67  | Gsdmdc1       | NM_026960.1 |   |
| sci075710.1_90-S    | -18.4897 | -1.19  | Rbm12         | NM_029397.2 | Mus musculus RNA binding motif protein 12 (Rbm12), transcript variant 1, mRNA.  |
| sci23113.7.1_10-S   | -18.4503 | -1.74  | Mif1          | NM_010801.1 | Mus musculus myeloid leukemia factor 1 (Mif1), mRNA.  |
| sci52158.26.1_1-S   | -18.3054 | -1.18  | Pik3c3        | NM_181414.3 | Mus musculus phosphoinositide-3-kinase, class 3 (Pik3c3), mRNA.   |
| sci0002732.1_252-S  | -18.2932 | -9.78  | Tpm2          | NM_009416.2 | Mus musculus tropomyosin 2, beta (Tpm2), mRNA.  |

|                     |          |        |               |             |   |
|---------------------|----------|--------|---------------|-------------|---|
| sci0002225.1_0-S    | -18.2475 | -1.23  | Srp19         | NM_025527.1 | Mus musculus signal recognition particle 19 (Srp19), mRNA.  |
| sci36966.5.1_28-S   | -18.2422 | -2.93  | Cryab         | NM_009964.1 | Mus musculus crystallin, alpha B (Cryab), mRNA.   |
| sci0013030.1_227-S  | -18.2098 | -1.41  | Ctsb          | NM_007798.1 | Mus musculus cathepsin B (Ctsb), mRNA.  |
| sci25676.27_663-S   | -18.209  | -1.19  | 1110037F02Rik | XM_283937.2 | Mus musculus RIKEN cDNA 1110037F02 gene (1110037F02Rik), mRNA.  |
| sci38423.9.1_9-S    | -18.1988 | -2.63  | Tm4sf3        | NM_146010.1 | Mus musculus transmembrane 4 superfamily member 3 (Tm4sf3), mRNA.   |
| sci0216345.21_201-S | -18.1932 | -1.17  | BC033596      | XM_147426.3 | Mus musculus cDNA sequence BC033596 (BC033596), mRNA.   |
| sci0076895.2_316-S  | -18.1923 | -1.42  | Bicd2         | NM_029791.2 | Mus musculus bicaudal D homolog 2 (Drosophila) (Bicd2), mRNA.   |
| sci34033.37.1_91-S  | -18.176  | -4.81  | Myom2         | NM_008664   | Mus musculus myomesin 2 (Myom2), mRNA.  |
| sci0218100.1_36-S   | -18.0891 | -1.19  | Zfp322a       | NM_172586.2 | Mus musculus zinc finger protein 322a (Zfp322a), mRNA.  |
| sci39322.7.11_5-S   | -18.089  | -1.15  | Galk1         | NM_016905.1 | Mus musculus galactokinase 1 (Galk1), mRNA.   |
| sci0066291.2_269-S  | -18.0866 | -1.2   | 1810030N24Rik | NM_025471.1 | Mus musculus RIKEN cDNA 1810030N24 gene (1810030N24Rik), mRNA.  |
| sci030926.11_17-S   | -18.0654 | -1.15  | Txnl2         | NM_023140.3 | Mus musculus thioredoxin-like 2 (Txnl2), mRNA.  |
| sci41409.11.1_176-S | -18.028  | -17.41 | Myh4          | XM_126119.3 | Mus musculus myosin, heavy polypeptide 4, skeletal muscle (Myh4), mRNA.                                       |
| sci0016905.1_7-S    | -18.0031 | -1.32  | Lmna          | NM_019390.1 | Mus musculus lamin A (Lmna), mRNA.  |
| sci00214063.1_272-S | -18.0005 | -1.19  | 4732437J24Rik | NM_172338.1 | Mus musculus RIKEN cDNA 4732437J24 gene (4732437J24Rik), mRNA.  |
| sci000853.1_97-S    | -17.9819 | -10    | Myf1          | NM_021285.1 | Mus musculus myosin, light polypeptide 1, alkali; atrial, embryonic (Myf1), mRNA.                             |
| sci0014751.2_296-S  | -17.9772 | -1.19  | Gpi1          | NM_008155.1 | Mus musculus glucose phosphate isomerase 1 (Gpi1), mRNA.  |
| sci29461.5.2_30-S   | -17.9772 | -4.4   | Klre1         | NM_153590.2 | Mus musculus killer cell lectin-like receptor family E member 1 (Klre1), mRNA.                                |
| sci34388.19_15-S    | -17.9394 | -1.18  | Ranbp10       | NM_145824.3 |   |
| sci53163.10.1_0-S   | -17.9003 | -1.2   | 1200008O12Rik | NM_028760.1 | Mus musculus RIKEN cDNA 1200008O12 gene (1200008O12Rik), mRNA.  |
| sci29313.9.1_4-S    | -17.8743 | -1.26  | Pon3          | NM_173006.1 | Mus musculus paraoxonase 3 (Pon3), mRNA.  |
| sci54440.26.1_53-S  | -17.8472 | -1.2   | Hdac6         | NM_010413   | Mus musculus histone deacetylase 6 (Hdac6), mRNA.   |
| sci015331.1_246-S   | -17.8011 | -1.41  | Hmgn2         | NM_016957.2 | Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA.                                  |
| sci0024051.1_11-S   | -17.7309 | -1.39  | Sgcb          | NM_011890.2 | Mus musculus sarcoglycan, beta (dystrophin-associated glycoprotein) (Sgcb), mRNA.                             |
| sci41207.21.1_236-S | -17.7122 | -1.21  | Spag5         | NM_017407.1 | Mus musculus sperm associated antigen 5 (Spag5), mRNA.  |
| sci31222.7.115_17-S | -17.7118 | -2.17  | Dmn           | NM_207663.2 | Mus musculus desmuslin (Dmn), transcript variant 1, mRNA.   |
| sci0026442.1_315-S  | -17.7091 | -1.26  | Psma5         | NM_011967.1 | Mus musculus proteasome (prosome, macropain) subunit, alpha type 5 (Psma5), mRNA.                             |
| sci25953.10_428-S   | -17.6878 | -1.22  | Wbscr16       | NM_033572.1 | Mus musculus Williams-Beuren syndrome chromosome region 16 homolog (human) (Wbscr16), mRNA.                   |
| sci0020677.2_120-S  | -17.5206 | -1.2   | Sox4          | NM_009238.1 | Mus musculus SRY-box containing gene 4 (Sox4), mRNA.  |
| sci0107995.2_8-S    | -17.5196 | -1.22  | Cdc20         | NM_023223.1 | Mus musculus cell division cycle 20 homolog (S. cerevisiae) (Cdc20), mRNA.                                    |
| sci45598.20_218-S   | -17.4682 | -3.49  | Ndrq2         | NM_013864   |   |
| sci020229.1_41-S    | -17.4479 | -1.26  | Sat1          | NM_009121.3 | Mus musculus spermidine/spermine N1-acetyl transferase 1 (Sat1), mRNA.  |
| sci0075089.2_74-S   | -17.4056 | -1.22  | E030041M21Rik | NM_029166.1 | Mus musculus RIKEN cDNA E030041M21 gene (E030041M21Rik), mRNA.  |
| sci0001241.1_2518-S | -17.34   | -1.93  | Cxcl12        | NM_013655.2 | Mus musculus chemokine (C-X-C motif) ligand 12 (Cxcl12), transcript variant 2, mRNA.                          |
| sci0000100.1_15-S   | -17.3109 | -3.32  | Tnxb          | NM_031176.1 | Mus musculus tenascin XB (Tnxb), mRNA.  |
| sci0016923.1_194-S  | -17.3096 | -1.23  | Lnk           | NM_008507.2 | Mus musculus linker of T-cell receptor pathways (Lnk), mRNA.  |
| sci0012350.1_39-S   | -17.3064 | -3.33  | Car3          | NM_007606.2 | Mus musculus carbonic anhydrase 3 (Car3), mRNA.   |
| sci43225.27.1_94-S  | -17.3002 | -1.15  | Scfd1         | XM_126906.2 |   |
| sci015194.70_20-S   | -17.269  | -1.31  | Hdh           | NM_010414.1 | Mus musculus Huntington disease gene homolog (Hdh), mRNA.   |
| sci020848.1_5-S     | -17.2437 | -1.34  | Stat3         | NM_011486.2 | Mus musculus signal transducer and activator of transcription 3 (Stat3), mRNA.                                |
| sci24819.10.1_28-S  | -17.2217 | -4.88  | Tcea3         | NM_011542   | Mus musculus transcription elongation factor A (SII), 3 (Tcea3), mRNA.  |
| sci42309.7.1_14-S   | -17.2161 | -1.15  | Vti1b         | NM_016800.2 | Mus musculus vesicle transport through interaction with t-SNAREs 1B homolog (Vti1b), mRNA.                    |
| sci0076933.2_252-S  | -17.2157 | -1.55  | 2310061N23Rik | NM_029803.1 | Mus musculus RIKEN cDNA 2310061N23 gene (2310061N23Rik), mRNA.  |
| sci0026908.1_233-S  | -17.1349 | -1.89  | Eif2s3y       | NM_012011.1 | Mus musculus eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked (Eif2s3y), mRNA. |
| sci34405.19.1_52-S  | -17.132  | -1.31  | Fhod1         | NM_177699   | Mus musculus formin homology 2 domain containing 1 (Fhod1), mRNA.   |
| sci27228.32_300-S   | -17.1276 | -1.15  | Hip1r         | NM_145070.2 | Mus musculus huntingtin interacting protein 1 related (Hip1r), mRNA.  |
| sci26557.25_455-S   | -17.0793 | -1.25  | Recc1         | NM_011258.1 | Mus musculus replication factor C 1 (Recc1), mRNA.  |
| sci35535.28_151-S   | -17.0421 | -1.18  | Ibtk          | XM_135030.4 |   |
| sci15924.1.27_14-S  | -16.9961 | -1.45  | Casq1         | NM_009813   | Mus musculus calsequestrin 1 (Casq1), mRNA.   |
| sci014569.11_60-S   | -16.9951 | -1.15  | Gdi3          | NM_008112.2 | Mus musculus guanosine diphosphate (GDP) dissociation inhibitor 3 (Gdi3), mRNA.                               |
| sci012484.2_55-S    | -16.9816 | -1.33  | Cd24a         | NM_009846.1 | Mus musculus CD24a antigen (Cd24a), mRNA.   |
| sci0020848.1_188-S  | -16.9812 | -1.31  | Stat3         | NM_011486.2 | Mus musculus signal transducer and activator of transcription 3 (Stat3), mRNA.                                |
| sci0072313.2_218-S  | -16.9518 | -1.23  | 2510002A14Rik | NM_028194.1 | Mus musculus RIKEN cDNA 2510002A14 gene (2510002A14Rik), mRNA.  |
| sci0319152.1_297-S  | -16.9048 | -1.14  | Hist1h3h      | NM_178206   | Mus musculus histone 1, H3h (Hist1h3h), mRNA.   |
| sci017762.10_59-S   | -16.8521 | -1.43  | Mapt          | NM_010838.2 | Mus musculus microtubule-associated protein tau (Mapt), mRNA.   |
| sci0017993.1_168-S  | -16.844  | -1.18  | Ndufs4        | NM_010887.1 | Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4), mRNA.                                   |

|                      |          |       |               |             |   |
|----------------------|----------|-------|---------------|-------------|---|
| sci51006.12.1_70-S   | -16.8432 | -8.24 | Rpl3l         | NM_025425.1 | Mus musculus ribosomal protein L3-like (Rpl3l), mRNA.   |
| sci50604.11.1_29-S   | -16.8394 | -1.21 | E130307M08Rik | NM_026530.2 | Mus musculus RIKEN cDNA E130307M08 gene (E130307M08Rik), mRNA.  |
| sci018186.2_129-S    | -16.8199 | -1.42 | Nrp           | NM_008737.1 |   |
| sci19447.7.1_15-S    | -16.7937 | -1.15 | 2900010J23Rik | NM_175190.2 | Mus musculus RIKEN cDNA 2900010J23 gene (2900010J23Rik), mRNA.  |
| sci30508.2.1_18-S    | -16.7726 | -5.59 | Cox8b         | NM_007751.1 | Mus musculus cytochrome c oxidase, subunit VIIIb (Cox8b), mRNA.   |
| sci47211.15_135-S    | -16.7527 | -1.21 | Rad21         | NM_009009.2 | Mus musculus RAD21 homolog (S. pombe) (Rad21), mRNA.  |
| sci28746.7_64-S      | -16.7505 | -1.14 | 2610209M04Rik | NM_025665.1 | Mus musculus RIKEN cDNA 2610209M04 gene (2610209M04Rik), mRNA.  |
| sci00110959.1_154-S  | -16.7434 | -1.49 | D7Rp2e        | NM_033080.1 | Mus musculus DNA segment, Chr 7, Roswell Park 2 complex, expressed (D7Rp2e), mRNA.  |
| sci020167.10_162-S   | -16.6418 | -3.14 | Rtn2          | NM_013648.4 | Mus musculus reticulon 2 (Z-band associated protein) (Rtn2), mRNA.  |
| sci17984.2_572-S     | -16.5659 | -1.44 | Sdpr          | NM_138741.1 | Mus musculus serum deprivation response (Sdpr), mRNA.   |
| sci0001631.1_196-S   | -16.5449 | -1.15 | Rpo1-1        | NM_009085.1 | Mus musculus RNA polymerase 1-1 (Rpo1-1), mRNA.   |
| sci36203.11_30-S     | -16.5172 | -1.24 | 4931406C07Rik | NM_133732.1 | Mus musculus RIKEN cDNA 4931406C07 gene (4931406C07Rik), mRNA.  |
| sci0022350.2_262-S   | -16.4737 | -1.17 | Vil2          | NM_009510.1 | Mus musculus villin 2 (Vil2), mRNA.   |
| sci0002655.1_13-S    | -16.4681 | -1.53 | Tpm2          | NM_009416.2 | Mus musculus tropomyosin 2, beta (Tpm2), mRNA.  |
| sci35702.23.1_49-S   | -16.4284 | -1.18 | AV340375      | NM_172519.1 | Mus musculus expressed sequence AV340375 (AV340375), mRNA.  |
| sci17282.7.92_117-S  | -16.4231 | -1.41 | 4930455F23Rik | NM_029115   | Mus musculus RIKEN cDNA 4930455F23 gene (4930455F23Rik), mRNA.  |
| sci0001405.1_534-S   | -16.4159 | -1.31 | Spag9         | NM_027569.1 | Mus musculus sperm associated antigen 9 (Spag9), mRNA.  |
| sci21793.3_27-S      | -16.3864 | -1.23 | Bcl9          | XM_358351.1 | Mus musculus B-cell CLL/lymphoma 9 (Bcl9), mRNA.  |
| sci000815.1_22-S     | -16.3694 | -1.27 | Nme7          | NM_138314.1 | Mus musculus non-metastatic cells 7, protein expressed in (Nme7), mRNA.   |
| sci0018986.2_103-S   | -16.3311 | -1.37 | Pou2f1        | NM_011137.1 | Mus musculus POU domain, class 2, transcription factor 1 (Pou2f1), transcript variant 1, mRNA.  |
| sci0108657.5_28-S    | -16.3171 | -1.22 | Rnpepl1       | NM_181405.2 | Mus musculus arginyl aminopeptidase (aminopeptidase B)-like 1 (Rnpepl1), mRNA.  |
| sci47390.18.104_38-S | -16.3065 | -1.18 | Tars          | NM_033074.2 | Mus musculus threonyl-tRNA synthetase (Tars), mRNA.   |
| sci00113868.1_328-S  | -16.2911 | -1.16 | Acaa1         | NM_130864.2 | Mus musculus acetyl-Coenzyme A acyltransferase 1 (Acaa1), mRNA.   |
| sci50399.22_481-S    | -16.2659 | -1.18 | Ttc7          | NM_028639   | Mus musculus tetratricopeptide repeat domain 7 (Ttc7), mRNA.  |
| sci016765.5_129-S    | -16.197  | -1.14 | Stmn1         | NM_019641   | Mus musculus stathmin 1 (Stmn1), mRNA.  |
| sci16161.8_304-S     | -16.1966 | -1.71 | 1700025G04Rik | NM_197990.1 | Mus musculus RIKEN cDNA 1700025G04 gene (1700025G04Rik), mRNA.  |
| sci0056205.2_264-S   | -16.191  | -1.23 | Ensa          | NM_019561.1 | Mus musculus endosulfine alpha (Ensa), mRNA.  |
| sci072656.1_14-S     | -16.1742 | -1.17 | 2810013E07Rik | NM_178112.3 | Mus musculus RIKEN cDNA 2810013E07 gene (2810013E07Rik), mRNA.  |
| sci0098366.1_13-S    | -16.139  | -1.14 | Smap1         | NM_028534.1 | Mus musculus stromal membrane-associated protein 1 (Smap1), mRNA.   |
| sci52526.2_193-S     | -16.1235 | -3.6  | Ppp1r3c       | NM_016854.1 | Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3C (Ppp1r3c), mRNA.  |
| sci0171580.22_27-S   | -16.0678 | -1.24 | Nical         | NM_138315.1 | Mus musculus NEDD9 interacting protein with calponin homology and LIM domains (Nical), mRNA.  |
| sci0000115.1_6-S     | -16.0367 | -1.28 | Fip11         | NM_024183.3 | Mus musculus FIP1 like 1 (S. cerevisiae) (Fip11), mRNA.   |
| sci00231464.2_19-S   | -16.0352 | -1.22 | Cnot6l        | NM_144910.1 |   |
| sci34384.4.1_27-S    | -16.0133 | -1.17 | Psmb10        | NM_013640.1 | Mus musculus proteasome (prosome, macropain) subunit, beta type 10 (Psmb10), mRNA.  |
| sci0067916.1_299-S   | -16.0013 | -1.66 | Ppap2b        | NM_080555.1 | Mus musculus phosphatidic acid phosphatase type 2B (Ppap2b), mRNA.  |
| sci067106.7_0-S      | -15.9719 | -1.23 | Arch          | NM_025970.1 | Mus musculus archease (Arch), mRNA.   |
| sci44185.3.1_24-S    | -15.9682 | -1.33 | Them2         | NM_025790.1 | Mus musculus thioesterase superfamily member 2 (Them2), mRNA.   |
| sci0107094.1_210-S   | -15.9646 | -1.15 | AA408556      | NM_199447.2 | Mus musculus expressed sequence AA408556 (AA408556), mRNA.  |
| sci068776.1_229-S    | -15.9571 | -1.14 | Taf11         | NM_026836.1 | Mus musculus TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf11), mRNA.   |
| sci48807.5.1_32-S    | -15.8975 | -1.14 | Magmas        | NM_025571.1 | Mus musculus mitochondria-associated protein involved in granulocyte-macrophage colony-stimulating factor signal transduction (Magmas), mRNA. |
| sci014104.1_1-S      | -15.8763 | -1.15 | Fasn          | NM_007988.1 | Mus musculus fatty acid synthase (Fasn), mRNA.  |
| sci00230596.1_294-S  | -15.8493 | -1.2  | 2410002M20Rik | NM_172697.1 | Mus musculus RIKEN cDNA 2410002M20 gene (2410002M20Rik), mRNA.  |
| sci0004118.1_555-S   | -15.8327 | -1.22 | Rpo1-3        | NM_181730.2 | Mus musculus RNA polymerase 1-3 (Rpo1-3), mRNA.   |
| sci011461.1_64-S     | -15.8159 | -1.24 | Actb          | NM_007393.1 | Mus musculus actin, beta, cytoplasmic (Actb), mRNA.   |
| sci0018021.2_84-S    | -15.7565 | -1.22 | Nfatc3        | NM_010901.1 | Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 (Nfatc3), mRNA.  |
| sci31412.26.1_74-S   | -15.7276 | -1.16 | Pold1         | NM_011131.2 | Mus musculus polymerase (DNA directed), delta 1, catalytic subunit (Pold1), mRNA.   |
| sci00242291.2_165-S  | -15.7257 | -1.38 | 1110001C20Rik | NM_177730.2 | Mus musculus RIKEN cDNA 1110001C20 gene (1110001C20Rik), mRNA.  |
| sci067180.1_177-S    | -15.7197 | -1.19 | 2610311I19Rik | NM_023311.2 | Mus musculus RIKEN cDNA 2610311I19 gene (2610311I19Rik), mRNA.  |
| sci42976.13.1_6-S    | -15.7094 | -1.14 | Cog6          | NM_172582.1 | Mus musculus coenzyme Q6 homolog (yeast) (Cog6), mRNA.  |
| sci0067877.1_158-S   | -15.6167 | -1.78 | Nat5          | NM_026425.1 | Mus musculus N-acetyltransferase 5 (ARD1 homolog, S. cerevisiae) (Nat5), mRNA.  |
| sci024135.1_208-S    | -15.4609 | -1.26 | Zfp68         | NM_013844.1 | Mus musculus zinc finger protein 68 (Zfp68), mRNA.  |
| sci22236.8_4-S       | -15.4444 | -1.23 | Ccna2         | NM_009828.1 | Mus musculus cyclin A2 (Ccna2), mRNA.   |
| sci0012631.1_129-S   | -15.4248 | -1.44 | Cfl1          | NM_007687.2 | Mus musculus cofilin 1, non-muscle (Cfl1), mRNA.  |
| sci26367.12.1_1-S    | -15.4166 | -1.41 | Scarb2        | NM_007644.2 | Mus musculus scavenger receptor class B, member 2 (Scarb2), mRNA.   |
| sci0015081.1_185-S   | -15.4099 | -1.17 | H3f3b         | NM_008211.2 | Mus musculus H3 histone, family 3B (H3f3b), mRNA.   |
| sci020719.1_146-S    | -15.361  | -1.26 | Serpnb6a      | NM_009254.2 | Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 6a (Serpnb6a), mRNA.  |

|                     |          |        |               |             |  |
|---------------------|----------|--------|---------------|-------------|--|
| scl17276.4_366-S    | -15.3512 | -2.16  | Dpt           | NM_019759.1 | Mus musculus dermatopontin (Dpt), mRNA.  |
| scl16732.7.1_6-S    | -15.3329 | -1.14  | Ppil3         | NM_027351.1 | Mus musculus peptidylprolyl isomerase (cyclophilin)-like 3 (Ppil3), mRNA.                                  |
| scl41761.12.1_9-S   | -15.3298 | -1.16  | Fancl         | NM_025923.2 | Mus musculus Fanconi anemia, complementation group L (Fancl), mRNA.  |
| scl43586.8_295-S    | -15.3137 | -1.14  | Ccnb1         | NM_172301.2 | Mus musculus cyclin B1 (Ccnb1), mRNA.  |
| scl20781.3.23_109-S | -15.3024 | -1.34  | 1700011J10Rik | NM_183265   | Mus musculus RIKEN cDNA 1700011J10 gene (1700011J10Rik), mRNA.   |
| scl32016.7.22_20-S  | -15.3015 | -1.21  | Stx4a         | NM_009294   | Mus musculus syntaxin 4A (placental) (Stx4a), mRNA.  |
| scl49310.3_131-S    | -15.2765 | -3.06  | Acdc          | NM_009605.3 | Mus musculus adipocyte, C1Q and collagen domain containing (Acdc), mRNA.                                   |
| scl066840.3_20-S    | -15.2658 | -1.18  | 0610008N23Rik | NM_025793.1 |  |
| scl0066212.1_0-S    | -15.2452 | -1.13  | Sec61b        | NM_024171.1 | Mus musculus Sec61 beta subunit (Sec61b), mRNA.  |
| scl25842.35.1_138-S | -15.1894 | -1.21  | 1110015K06Rik | NM_026748.1 | Mus musculus RIKEN cDNA 1110015K06 gene (1110015K06Rik), mRNA.   |
| scl0268490.4_62-S   | -15.1749 | -1.19  | 2600001B17Rik | NM_172947.1 |  |
| scl014828.8_22-S    | -15.1672 | -1.15  | Hspa5         | NM_022310.2 | Mus musculus heat shock 70kD protein 5 (glucose-regulated protein) (Hspa5), mRNA.                          |
| scl0003135.1_5-S    | -15.1664 | -1.16  | AW540478      | XM_194070.2 | Mus musculus expressed sequence AW540478 (AW540478), mRNA.   |
| scl33705.5.1_110-S  | -15.1451 | -1.13  | 2010315L10Rik | NM_025917.1 | Mus musculus RIKEN cDNA 2010315L10 gene (2010315L10Rik), mRNA.   |
| scl068098.1_43-S    | -15.1347 | -1.14  | Rchy1         | NM_026557.2 | Mus musculus ring finger and CHY zinc finger domain containing 1 (Rchy1), mRNA.                            |
| scl42591.3.1_5-S    | -15.1246 | -1.89  | Idb2          | NM_010496.2 | Mus musculus inhibitor of DNA binding 2 (Idb2), mRNA.  |
| scl0208606.2_109-S  | -15.1164 | -1.21  | 1500011J06Rik | XM_132343.3 |  |
| scl39434.9.1_18-S   | -15.0547 | -1.21  | Polg2         | NM_015810   | Mus musculus polymerase (DNA directed), gamma 2, accessory subunit (Polg2), mRNA.                          |
| scl30688.22.1_30-S  | -15.0472 | -8.67  | Atp2a1        | NM_007504.2 | Mus musculus ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 (Atp2a1), mRNA.                      |
| scl0017936.1_74-S   | -15.0311 | -1.17  | Nab1          | NM_008667.2 | Mus musculus Ngfi-A binding protein 1 (Nab1), mRNA.  |
| scl0245688.12_1-S   | -15.024  | -1.13  | Rbbp7         | NM_009031.2 | Mus musculus retinoblastoma binding protein 7 (Rbbp7), mRNA.   |
| scl54615.5_136-S    | -15.0016 | -1.77  | Tceal7        | XM_136051.3 |  |
| scl33707.42_67-S    | -14.9959 | -1.19  | Myo9b         | NM_015742.1 | Mus musculus myosin IXb (Myo9b), mRNA.   |
| scl0109552.5_10-S   | -14.9684 | -1.13  | Sri           | NM_025618.1 | Mus musculus sorcin (Sri), mRNA.   |
| scl31414.28.1_4-S   | -14.9678 | -15.35 | Mybpc2        | NM_146189.1 | Mus musculus myosin binding protein C, fast-type (Mybpc2), mRNA.   |
| scl069583.1_127-S   | -14.9407 | -1.44  | Tnfsf13       | NM_023517.1 | Mus musculus tumor necrosis factor (ligand) superfamily, member 13 (Tnfsf13), mRNA.                        |
| scl49909.9.1_16-S   | -14.9392 | -1.14  | 2610528M18Rik | NM_031863.1 | Mus musculus RIKEN cDNA 2610528M18 gene (2610528M18Rik), mRNA.   |
| scl20687.14.1_105-S | -14.9349 | -1.5   | Slc43a3       | NM_021398.1 | Mus musculus solute carrier family 43, member 3 (Slc43a3), mRNA.   |
| scl020567.3_14-S    | -14.9196 | -2.22  | Sip           | NM_011413   | Mus musculus sex-limited protein (Sip), mRNA.  |
| scl37011.7_65-S     | -14.9105 | -2.97  | Fxyd6         | NM_022004.5 | Mus musculus FXYD domain-containing ion transport regulator 6 (Fxyd6), mRNA.                               |
| scl48848.13.1_52-S  | -14.9098 | -1.19  | Chaf1b        | NM_028083.1 | Mus musculus chromatin assembly factor 1, subunit B (p60) (Chaf1b), mRNA.                                  |
| scl26001.12_181-S   | -14.8524 | -1.27  | Epim          | NM_007941.1 | Mus musculus epimorphin (Epim), mRNA.  |
| scl0229906.7_108-S  | -14.8341 | -1.24  | Gtf2b         | NM_145546.1 | Mus musculus general transcription factor IIB (Gtf2b), mRNA.   |
| scl052397.1_25-S    | -14.8221 | -1.2   | D5Ert689e     | XM_358356.1 | Mus musculus DNA segment, Chr 5, ERATO Doi 689, expressed (D5Ert689e), mRNA.                               |
| scl32994.8.1_63-S   | -14.81   | -9.84  | Ckm           | NM_007710.1 | Mus musculus creatine kinase, muscle (Ckm), mRNA.  |
| scl0001934.1_38-S   | -14.7564 | -1.31  | Lmna          | NM_019390.1 | Mus musculus lamin A (Lmna), mRNA.   |
| scl0001099.1_185-S  | -14.6889 | -1.17  | St7           | NM_022332.1 | Mus musculus suppression of tumorigenicity 7 (St7), mRNA.  |
| scl54140.7.1_25-S   | -14.6484 | -1.35  | Dnase111      | NM_027109.1 |  |
| scl00227399.2_17-S  | -14.6278 | -1.16  | AW555814      | NM_173760.3 | Mus musculus expressed sequence AW555814 (AW555814), mRNA.   |
| scl0268859.12_21-S  | -14.6177 | -3.05  | A2bp1         | NM_021477   | Mus musculus ataxin 2 binding protein 1 (A2bp1), transcript variant 2, mRNA.                               |
| scl0018186.1_241-S  | -14.5984 | -1.37  | Nrp           | NM_008737.1 | Mus musculus neuropilin (Nrp), mRNA.   |
| scl52348.42.1_9-S   | -14.5857 | -1.99  | Nrap          | NM_198059.1 | Mus musculus nebulin-related anchoring protein (Nrap), transcript variant 2, mRNA.                         |
| scl0002833.1_35-S   | -14.5676 | -1.21  | 4930471O16Rik | NM_026348.2 | Mus musculus RIKEN cDNA 4930471O16 gene (4930471O16Rik), mRNA.   |
| scl23496.4.1_61-S   | -14.566  | -2.42  | Rbp7          | NM_022020.1 | Mus musculus retinol binding protein 7, cellular (Rbp7), mRNA.   |
| scl0071752.2_61-S   | -14.5591 | -1.22  | Gtf3c2        | NM_027901.1 |  |
| scl19453.6.2634_3-S | -14.5232 | -1.83  | A130092J06Rik | NM_175511.2 | Mus musculus RIKEN cDNA A130092J06 gene (A130092J06Rik), mRNA.   |
| scl51664.18.1_87-S  | -14.4719 | -1.14  | Usp14         | NM_021522.2 | Mus musculus ubiquitin specific protease 14 (Usp14), mRNA.   |
| scl0012301.2_7-S    | -14.4701 | -1.17  | Cacybp        | NM_009786.1 | Mus musculus calyculin binding protein (Cacybp), mRNA.   |
| scl29460.6.1_6-S    | -14.4526 | -3.18  | Klrd1         | NM_010654.1 | Mus musculus killer cell lectin-like receptor, subfamily D, member 1 (Klrd1), mRNA.                        |
| scl52903.34_0-S     | -14.4194 | -1.5   | Plcb3         | NM_008874.2 | Mus musculus phospholipase C, beta 3 (Plcb3), mRNA.  |
| scl00208777.1_274-S | -14.418  | -1.77  | Sned1         | NM_172463.3 |  |
| scl030046.1_110-S   | -14.4122 | -1.18  | Zfp292        | NM_013889.1 | Mus musculus zinc finger protein 292 (Zfp292), mRNA.   |
| scl018606.1_11-S    | -14.3821 | -3.9   | Enpp2         | NM_015744   | Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 2 (Enpp2), mRNA.                             |
| scl012864.3_58-S    | -14.3681 | -1.13  | Cox6c         | NM_053071.1 | Mus musculus cytochrome c oxidase, subunit VIc (Cox6c), mRNA.  |
| scl16333.16_85-S    | -14.2937 | -1.23  | Mcm6          | NM_008567.1 | Mus musculus minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae) (Mcm6), mRNA. |
| scl0077371.2_183-S  | -14.2914 | -1.16  | Sec24a        | NM_175255.2 | Mus musculus SEC24 related gene family, member A (S. cerevisiae) (Sec24a), mRNA.                           |

|                      |          |        |               |             |   |
|----------------------|----------|--------|---------------|-------------|---|
| sci0011636.2_17-S    | -14.2904 | -3.41  | Ak1           | NM_021515.1 | Mus musculus adenylate kinase 1 (Ak1), mRNA.  |
| sci0001920.1_13-S    | -14.2283 | -1.19  | 1200013F24Rik | NM_025822.2 | Mus musculus RIKEN cDNA 1200013F24 gene (1200013F24Rik), mRNA.  |
| sci41592.12.1_36-S   | -14.2141 | -1.25  | 2900006B13Rik | NM_028398.1 | Mus musculus RIKEN cDNA 2900006B13 gene (2900006B13Rik), mRNA.  |
| sci25152.5.1_78-S    | -14.2128 | -1.13  | Magoh         | NM_010760.1 | Mus musculus mago-nashi homolog, proliferation-associated (Drosophila) (Magoh), mRNA.                             |
| sci45535.5_307-S     | -14.186  | -1.39  | 1810034K20Rik | NM_023397.3 | Mus musculus RIKEN cDNA 1810034K20 gene (1810034K20Rik), mRNA.  |
| sci0012747.1_67-S    | -14.1825 | -1.19  | Clk1          | NM_009905.1 |   |
| sci44251.7.1_3-S     | -14.1794 | -1.15  | Stard3nl      | NM_024270.1 | Mus musculus STARD3 N-terminal like (Stard3nl), mRNA.   |
| sci20330.11.1_76-S   | -14.1765 | -1.13  | Blvra         | NM_026678.3 | Mus musculus biliverdin reductase A (Blvra), mRNA.  |
| sci0002898.1_1-S     | -14.1752 | -1.2   | Sms           | NM_009214   | Mus musculus spermine synthase (Sms), mRNA.   |
| sci068152.6_9-S      | -14.1648 | -1.22  | 5830415L20Rik | NM_026583.2 | Mus musculus RIKEN cDNA 5830415L20 gene (5830415L20Rik), mRNA.  |
| sci013627.1_210-S    | -14.1645 | -1.34  | Eef1a1        | XM_203909.2 | Mus musculus similar to Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongation factor Tu) (EF-Tu) (Eef1a1), mRNA. |
| sci24434.7_205-S     | -14.1645 | -1.21  | B4galt1       | NM_022305.2 | Mus musculus UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1 (B4galt1), mRNA.                   |
| sci15920.22.1_21-S   | -14.1433 | -1.42  | Atp1a2        | NM_178405.2 | Mus musculus ATPase, Na+/K+ transporting, alpha 2 polypeptide (Atp1a2), mRNA.                                     |
| sci27963.9.1_33-S    | -14.1433 | 1      | Rnf30         | NM_021447.1 | Mus musculus ring finger protein 30 (Rnf30), mRNA.  |
| sci0075221.1_274-S   | -14.1354 | -1.13  | Dpp3          | NM_133803.1 | Mus musculus dipeptidylpeptidase 3 (Dpp3), mRNA.  |
| sci000492.1_58-S     | -14.1318 | -1.17  | Smbp          | NM_133352.1 | Mus musculus SM-11044 binding protein (Smbp), mRNA.   |
| sci0217893.6_312-S   | -14.126  | -1.34  | 6720425G15Rik | NM_198165.1 | Mus musculus RIKEN cDNA 6720425G15 gene (6720425G15Rik), mRNA.  |
| sci012372.1_5-S      | -14.1257 | -3.67  | Casq1         | NM_009813.1 | Mus musculus calsequestrin 1 (Casq1), mRNA.   |
| sci45867.12_561-S    | -14.1257 | -2.22  | Ube2e2        | NM_144839.1 |   |
| sci017184.1_62-S     | -14.1229 | -1.18  | 1110007C02Rik | NM_027923.1 | Mus musculus RIKEN cDNA 1110007C02 gene (1110007C02Rik), mRNA.  |
| sci000028.1_0-S      | -14.1171 | -1.17  | Bccip         | NM_025392.1 | Mus musculus BRCA2 and CDKN1A interacting protein (Bccip), mRNA.  |
| sci0214489.1_247-S   | -14.1098 | -1.13  | BC003965      | XM_128528.2 | Mus musculus cDNA sequence BC003965 (BC003965), mRNA.   |
| sci000274.1_354-S    | -14.0848 | -1.17  | Tnrc6         | NM_144925.2 | Mus musculus trinucleotide repeat containing 6 (Tnrc6), mRNA.   |
| sci18032.14.78_265-S | -14.0799 | -4.37  | Il18r1        | NM_008365.1 | Mus musculus interleukin 18 receptor 1 (Il18r1), mRNA.  |
| sci36285.2_18-S      | -14.0607 | -3.59  | Cxcr6         | NM_030712.1 | Mus musculus chemokine (C-X-C motif) receptor 6 (Cxcr6), mRNA.  |
| sci011474.20_36-S    | -14.0564 | -11.73 | Actn3         | NM_013456.1 | Mus musculus actinin alpha 3 (Actn3), mRNA.   |
| sci0002067.1_49-S    | -14.0557 | -4.11  | Tmod4         | NM_016712.1 | Mus musculus tropomodulin 4 (Tmod4), mRNA.  |
| sci00209131.1_196-S  | -14.0224 | -1.34  | 4732481H14Rik | NM_172468.1 | Mus musculus RIKEN cDNA 4732481H14 gene (4732481H14Rik), mRNA.  |
| sci016641.3_26-S     | -14.0141 | -3.63  | Klrc1         | NM_010652   | Mus musculus killer cell lectin-like receptor subfamily C, member 1 (Klrc1), mRNA.                                |
| sci46654.8.1_7-S     | -13.9837 | -4.01  | Ppp1r1a       | NM_021391.2 | Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 1A (Ppp1r1a), mRNA.                            |
| sci26220.57_399-S    | -13.9724 | -1.17  | Ep400         | NM_029337.1 | Mus musculus E1A binding protein p400 (Ep400), mRNA.  |
| sci0020567.1_162-S   | -13.9305 | -1.94  | Slp           | NM_011413   | Mus musculus sex-limited protein (Slp), mRNA.   |
| sci42750.13_363-S    | -13.9154 | -2.26  | Tnfrsf2       | NM_009396.1 | Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfrsf2), mRNA.                                      |
| sci51245.13.1_81-S   | -13.8682 | -1.13  | Ccdc5         | NM_146089.1 | Mus musculus coiled-coil domain containing 5 (Ccdc5), mRNA.   |
| sci49765.36_30-S     | -13.8507 | -1.19  | Ptprs         | NM_011218.1 | Mus musculus protein tyrosine phosphatase, receptor type, S (Ptprs), mRNA.  |
| sci000769.1_7-S      | -13.8434 | -2.13  | Dhx9          | NM_007842.1 | Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 9 (Dhx9), mRNA.   |
| sci022245.1_319-S    | -13.8364 | -1.15  | Uck1          | NM_011675.1 |   |
| sci22910.4.1_66-S    | -13.8134 | -1.58  | S100a10       | NM_009112.1 | Mus musculus S100 calcium binding protein A10 (calpactin) (S100a10), mRNA.  |
| sci0002695.1_712-S   | -13.8026 | -1.16  | 5730406M06Rik | XM_283936.2 | Mus musculus RIKEN cDNA 5730406M06 gene (5730406M06Rik), mRNA.  |
| sci50177.21.1_66-S   | -13.7924 | -1.3   | Chtf18        | NM_145409.1 | Mus musculus CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae) (Chtf18), mRNA.            |
| sci00228410.1_260-S  | -13.7867 | -1.13  | Cstf3         | NM_145529.1 | Mus musculus cleavage stimulation factor, 3 pre-RNA, subunit 3 (Cstf3), mRNA.                                     |
| sci52119.18_599-S    | -13.7734 | -1.31  | Jmjd1b        | NM_029518.1 | Mus musculus jumonji domain containing 1B (Jmjd1b), mRNA.   |
| sci00107371.2_186-S  | -13.7433 | -1.58  | Sec15l1       | NM_175353.1 |   |
| sci00213541.2_318-S  | -13.699  | -1.15  | Ythdf2        | NM_145393.2 |   |
| sci011637.7_6-S      | -13.6816 | -1.2   | Ak2           | NM_016895.2 | Mus musculus adenylate kinase 2 (Ak2), mRNA.  |
| sci47024.6.1_1-S     | -13.6803 | -7.75  | Mb            | NM_013593.2 | Mus musculus myoglobin (Mb), mRNA.  |
| sci23528.23_0-S      | -13.6231 | -1.16  | Mfn2          | NM_133201.1 | Mus musculus mitofusin 2 (Mfn2), mRNA.  |
| sci25806.10.1_16-S   | -13.6195 | -1.23  | Zdhhc4        | NM_028379.1 | Mus musculus zinc finger, DHHC domain containing 4 (Zdhhc4), mRNA.  |
| sci0053857.2_245-S   | -13.599  | -1.08  | Tuba8         | NM_017379.1 | Mus musculus tubulin, alpha 8 (Tuba8), mRNA.  |
| sci19490.7_664-S     | -13.5903 | -1.44  | Gtf3c4        | NM_172977.1 | Mus musculus general transcription factor IIIC, polypeptide 4 (Gtf3c4), mRNA.                                     |
| sci0014584.2_231-S   | -13.5755 | -1.53  | Gfpt2         | NM_013529.1 | Mus musculus glutamine fructose-6-phosphate transaminase 2 (Gfpt2), mRNA.   |
| sci54605.3_321-S     | -13.5553 | -1.31  | 1500031H04Rik | NM_025893.1 | Mus musculus RIKEN cDNA 1500031H04 gene (1500031H04Rik), mRNA.  |
| sci0226594.1_266-S   | -13.5461 | -1.85  | BC025872      | NM_178593.2 | Mus musculus cDNA sequence BC025872 (BC025872), mRNA.   |
| sci013006.15_44-S    | -13.5324 | -1.13  | Cspg6         | NM_007790.2 | Mus musculus chondroitin sulfate proteoglycan 6 (Cspg6), mRNA.  |
| sci0074383.1_273-S   | -13.5109 | -1.15  | Ubp2l         | NM_028475.1 |   |
| sci0106869.2_1-S     | -13.499  | -1.35  | Tnfrsf8       | NM_134131.1 | Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfrsf8), mRNA.                                      |



|                     |          |       |               |             |   |
|---------------------|----------|-------|---------------|-------------|---|
| sci33260.8.1_8-S    | -13.4865 | 1     | Efcbp2        | NM_054095.1 | Mus musculus EF hand calcium binding protein 2 (Efcbp2), mRNA.                                      |
| sci47326.13.2_27-S  | -13.4769 | -1.16 | Cct5          | NM_007637.1 | Mus musculus chaperonin subunit 5 (epsilon) (Cct5), mRNA.   |
| sci00100710.2_193-S | -13.4705 | -1.22 | Aprin         | NM_175310.3 | Mus musculus androgen-induced proliferation inhibitor (Aprin), mRNA.                                |
| sci0017134.1_226-S  | -13.4421 | -1.14 | Mafg          | NM_010756.3 | Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) (Mafg), mRNA. |
| sci30652.3_263-S    | -13.4286 | -1.14 | 2410015N17Rik | NM_023203.1 | Mus musculus RIKEN cDNA 2410015N17 gene (2410015N17Rik), mRNA.                                      |
| sci24570.12.1_113-S | -13.4238 | -3.77 | Tox           | NM_145711.2 | Mus musculus thymocyte selection-associated HMG box gene (Tox), mRNA.                               |
| sci52908.26.6_30-S  | -13.4132 | -1.17 | 2610041P08Rik | NM_198008.1 | Mus musculus RIKEN cDNA 2610041P08 gene (2610041P08Rik), mRNA.                                      |
| sci074255.2_27-S    | -13.4082 | -1.12 | Smu1          | NM_021535.2 |   |
| sci35488.3_0-S      | -13.374  | -1.12 | Rnf7          | XM_135065.1 | Mus musculus ring finger protein 7 (Rnf7), mRNA.  |
| sci0116940.11_15-S  | -13.3636 | -1.27 | Ncoa6ip       | NM_054089.2 | Mus musculus nuclear receptor coactivator 6 interacting protein (Ncoa6ip), mRNA.                    |
| sci0110052.3_51-S   | -13.342  | -1.77 | Dek           | NM_025900.1 | Mus musculus DEK oncogene (DNA binding) (Dek), mRNA.  |
| sci27683.19_361-S   | -13.3341 | -1.13 | Srp72         | XM_132143.3 | Mus musculus signal recognition particle 72 (Srp72), mRNA.  |
| sci067246.4_216-S   | -13.3213 | -1.15 | 2810474O19Rik | XM_132966.3 | Mus musculus RIKEN cDNA 2810474O19 gene (2810474O19Rik), mRNA.                                      |
| sci0110253.14_323-S | -13.3172 | -1.12 | Triobb        | NM_138579.2 | Mus musculus TRIO and F-actin binding protein (Triobb), mRNA.                                       |
| sci38908.9.1_88-S   | -13.2935 | -1.57 | Smpdl3a       | NM_020561.1 | Mus musculus sphingomyelin phosphodiesterase, acid-like 3A (Smpdl3a), mRNA.                         |
| sci38394.14.1_0-S   | -13.283  | -1.18 | Mdm1          | NM_148922.2 | Mus musculus transformed mouse 3T3 cell double minute 1 (Mdm1), mRNA.                               |
| sci0245877.1_146-S  | -13.2798 | -1.22 | BC019977      | NM_144941.2 | Mus musculus cDNA sequence BC019977 (BC019977), mRNA.   |
| sci054644.12_28-S   | -13.2705 | -1.12 | DXImx46e      | NM_138604.2 | Mus musculus DNA segment, Chr X, Immunex 46, expressed (DXImx46e), mRNA.                            |
| sci26992.46_0-S     | -13.2658 | -1.35 | AI481500      | NM_133901.1 | Mus musculus expressed sequence AI481500 (AI481500), mRNA.  |
| sci0004027.1_624-S  | -13.2402 | -2.15 | Art3          | NM_181728.1 | Mus musculus ADP-ribosyltransferase 3 (Art3), mRNA.   |
| sci21986.3.1_30-S   | -13.2349 | -1.15 | Apoa1bp       | NM_144897   | Mus musculus apolipoprotein A-I binding protein (Apoa1bp), mRNA.                                    |
| sci17336.3.1_84-S   | -13.2085 | -1.12 | 2810025M15Rik | NM_027274.2 | Mus musculus RIKEN cDNA 2810025M15 gene (2810025M15Rik), mRNA.                                      |
| sci0011938.1_293-S  | -13.205  | -1.4  | Atp2a2        | NM_009722.1 | Mus musculus ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 (Atp2a2), mRNA.               |
| sci013209.11_23-S   | -13.1721 | -1.18 | Ddx6          | NM_007841.2 | Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (Ddx6), mRNA.                                 |
| sci0211978.1_134-S  | -13.1625 | -1.17 | Ziyve26       | XM_127031.3 |   |
| sci0081910.2_167-S  | -13.1572 | -1.21 | Rrbp1         | NM_133626.1 | Mus musculus ribosome binding protein 1 (Rrbp1), mRNA.  |
| sci41158.3.1_14-S   | -13.1501 | -2.15 | Ccl11         | NM_011330.1 | Mus musculus small chemokine (C-C motif) ligand 11 (Ccl11), mRNA.                                   |
| sci00235442.1_185-S | -13.1501 | -1.13 | Rab8b         | NM_173413.2 | Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA.                                       |
| sci012350.2_21-S    | -13.1104 | -3.22 | Car3          | NM_007606.2 | Mus musculus carbonic anhydrase 3 (Car3), mRNA.   |
| sci094284.5_3-S     | -13.0962 | -1.64 | Ugt1a6        | NM_145079   | Mus musculus UDP glycosyltransferase 1 family, polypeptide A6 (Ugt1a6), mRNA.                       |
| sci0232087.1_5-S    | -13.0539 | -1.24 | Mat2a         | NM_145569   | Mus musculus methionine adenosyltransferase II, alpha (Mat2a), mRNA.                                |
| sci33021.4.288_87-S | -13.034  | -3.33 | Pglyrp1       | NM_009402.1 | Mus musculus peptidoglycan recognition protein 1 (Pglyrp1), mRNA.                                   |
| sci41127.15.1_23-S  | -13.0228 | -1.15 | Ddx52         | NM_030096.1 | Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 52 (Ddx52), mRNA.                               |
| sci0067465.2_67-S   | -13.0016 | -1.14 | Sf3a1         | NM_026175.3 | Mus musculus splicing factor 3a, subunit 1 (Sf3a1), mRNA.   |