

| Uniprot ID | Protein names                                                                                                                                                             | Gene names               | KEGG-ID (mmu) | f.value | p.value     | neg LOG10(p) | FDR        | abundance         | abundance       | abundance    | abundance  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|---------|-------------|--------------|------------|-------------------|-----------------|--------------|------------|
| group      |                                                                                                                                                                           |                          |               |         |             |              |            | Vehicle-NoSurgery | Vehicle-Surgery | KA-NoSurgery | KA-Surgery |
| Q8VHL1     | Histone-lysine N-methyltransferase SETD7 (EC 2.1.1.1) (Histone H3-K4 methyltransferase SETD7) (H3-K4-HMTase SETD7) (SET domain-containing protein 7) (SET7/9)             | Setd7 Kiaa1717 Set7 Set9 | 73251         | 66.863  | 9.25E-08    | 7.0337       | 0.00014131 | 21.2323325        | 21.9110725      | 21.157675    | 21.9931025 |
| Q9D0M5     | Dynein light chain 2, cytoplasmic (8 kDa dynein light chain b) (DLC8) (DLC8b) (Dynein light chain LC8-type 2)                                                             | Dynl12 Dlc2              | 68097         | 58.2    | 0.000000202 | 6.6954       | 0.00015395 | 22.2105575        | 21.12811        | 22.1828225   | 21.00142   |
| Q6A026     | Sister chromatid cohesion protein PDS5 homolog A                                                                                                                          | Pds5a Kiaa0648           |               | 36.452  | 0.00000262  | 5.5812       | 0.001335   | 19.8724025        | 20.8859675      | 19.80909     | 20.84635   |
| P03995     | Glial fibrillary acidic protein (GFAP)                                                                                                                                    | Gfap                     | 14580         | 31.792  | 0.00000543  | 5.265        | 0.0013827  | 25.552435         | 27.0254125      | 26.8747475   | 27.968345  |
| Q9QZF2     | Glypican-1 [Cleaved into: Secreted glypican-1]                                                                                                                            | Gpc1                     | 14733         | 33.445  | 0.00000415  | 5.3816       | 0.0013827  | 19.795055         | 19.762235       | 20.0398      | 20.2137725 |
| Q8CIG9     | F-box/LRR-repeat protein 8 (F-box and leucine-rich repeat protein 8) (F-box protein FBL8)                                                                                 | Fbxl8 Fbl8               | 50788         | 32.684  | 0.00000469  | 5.3286       | 0.0013827  | 19.1897075        | 20.3505375      | 18.93956     | 20.2725625 |
| Q6PB66     | Leucine-rich PPR motif-containing protein, mitochondrial (130 kDa leucine-rich protein) (LRP 130) (mLRP130)                                                               | Lrpprc Lrp130            | 72416         | 29.347  | 0.00000827  | 5.0823       | 0.0018049  | 21.1210575        | 21.556105       | 21.0233375   | 21.5066525 |
| Q3URK3     | Methylcytosine dioxygenase TET1 (EC 1.14.11.n2) (CXXC-type zinc finger protein 6) (Ten-eleven translocation 1 gene protein homolog)                                       | Tet1 Cxxc6 Kiaa1676      |               | 27.562  | 0.0000115   | 4.9404       | 0.0018108  | 19.20219          | 20.01175        | 18.9776675   | 19.870405  |
| P55012     | Solute carrier family 12 member 2 (Basolateral Na-K-Cl symporter) (Bumetanide-sensitive sodium-(potassium)-chloride cotransporter 2)                                      | Slc12a2 Nkcc1            | 20496         | 27.452  | 0.0000117   | 4.9313       | 0.0018108  | 21.57142          | 22.651055       | 21.59296     | 22.8383175 |
| Q8C0E2     | Vacuolar protein sorting-associated protein 26B (Vesicle protein sorting 26B)                                                                                             | Vps26b                   | 69091         | 27.386  | 0.0000119   | 4.926        | 0.0018108  | 21.7700075        | 21.4647775      | 21.7023675   | 21.46987   |
| P14106     | Complement C1q subcomponent subunit B                                                                                                                                     | C1qb                     | 12260         | 25.31   | 0.0000178   | 4.7495       | 0.0019105  | 19.04926          | 20.753115       | 19.97015     | 21.1305225 |
| P11798     | Calcium/calmodulin-dependent protein kinase type II subunit alpha (CaM kinase II subunit alpha) (CaMK-II subunit alpha) (EC 2.7.11.17)                                    | Camk2a                   | 12322         | 24.743  | 0.00002     | 4.6992       | 0.0019105  | 28.23778          | 28.094555       | 28.0367125   | 27.6818325 |
| P35505     | Fumarylacetoacetase (FAA) (EC 3.7.1.2) (Beta-diketone) (Fumarylacetoacetate hydrolase)                                                                                    | Fah                      | 14085         | 26.129  | 0.0000151   | 4.8205       | 0.0019105  | 19.29231          | 19.8681325      | 19.0682925   | 19.8580125 |
| P14602     | Heat shock protein beta-1 (HspB1) (Growth-related 25 kDa protein) (Heat shock 25 kDa protein) (HSP 25) (Heat shock 27 kDa protein) (HSP 27) (p25)                         | Hspb1 Hsp25 Hsp27        | 15507         | 26.34   | 0.0000145   | 4.8385       | 0.0019105  | 18.345945         | 18.0248625      | 20.100525    | 21.6088075 |
| P32037     | Solute carrier family 2, facilitated glucose transporter member 3 (Glucose transporter type 3, brain) (GLUT-3)                                                            | Slc2a3 Glut3             | 20527         | 24.736  | 0.00002     | 4.6986       | 0.0019105  | 22.525515         | 22.3908675      | 22.637365    | 22.245415  |
| Q5SSL4     | Active breakpoint cluster region-related protein                                                                                                                          | Abr                      | 109934        | 24.9    | 0.0000194   | 4.7132       | 0.0019105  | 21.39741          | 22.0329375      | 21.478645    | 22.0219375 |
| P16045     | Galectin-1 (Gal-1) (14 kDa lectin) (Beta-galactoside-binding lectin L-14-I) (Galaplin) (Lactose-binding lectin 1) (Lectin galactoside-binding soluble 1) (S-Lac lectin 1) | Lgals1 Gbp               | 16852         | 23.294  | 0.0000272   | 4.566        | 0.0024401  | 18.5541825        | 19.2993675      | 19.298105    | 20.2634575 |
| Q9WVA3     | Mitotic checkpoint protein BUB3 (WD repeat type I transmembrane protein A72.5)                                                                                            | Bub3                     | 12237         | 22.904  | 0.0000296   | 4.5289       | 0.0025101  | 19.262225         | 19.5850125      | 19.2076475   | 19.39816   |
| Q62283     | Tetraspanin-7 (Tspan-7) (Cell surface glycoprotein A15) (PE31) (TALLA homolog) (Transmembrane 4 superfamily member 2) (CD antigen CD231)                                  | Tspan7 Mxs1 Tm4sf2       | 21912         | 21.247  | 0.0000431   | 4.3654       | 0.0034651  | 19.890325         | 19.44267        | 19.6376425   | 19.2220725 |
| P20152     | Vimentin                                                                                                                                                                  | Vim                      | 22352         | 20.7    | 0.0000491   | 4.3091       | 0.0036078  | 23.70164          | 25.16986        | 24.871025    | 26.487395  |
| P62301     | 40S ribosomal protein S13                                                                                                                                                 | Rps13                    | 68052         | 20.655  | 0.0000496   | 4.3044       | 0.0036078  | 21.7074225        | 21.8528675      | 21.85315     | 21.976885  |

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|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------|--------|------------|--------|-----------|------------|------------|------------|------------|
| Q9CQJ6 | Density-regulated protein (DRP)                                                                                                                                                                                                                                                                                                                          | Denr                           | 68184  | 19.443 | 0.0000669  | 4.1749 | 0.0046404 | 19.6706675 | 20.1360725 | 19.6389375 | 20.130675  |
| Q8CBW3 | Abl interactor 1 (Abelson interactor 1) (Abi-1) (Ablphilin-1) (Eps8 SH3 domain-binding protein) (Eps8-binding protein) (Spectrin SH3 domain-binding protein 1) (e3B1)                                                                                                                                                                                    | Abi1 Ssh3bp1                   | 11308  | 18.428 | 0.0000869  | 4.0612 | 0.0055266 | 21.2610075 | 20.738385  | 21.1604775 | 20.6898675 |
| P35279 | Ras-related protein Rab-6A (Rab-6)                                                                                                                                                                                                                                                                                                                       | Rab6a Rab6 MNCb-1660           | 19346  | 18.567 | 0.0000837  | 4.077  | 0.0055266 | 21.631565  | 21.371815  | 21.51557   | 21.370305  |
| P02468 | Laminin subunit gamma-1 (Laminin B2 chain) (Laminin-1 subunit gamma) (Laminin-10 subunit gamma) (Laminin-11 subunit gamma) (Laminin-2 subunit gamma) (Laminin-3 subunit gamma) (Laminin-4 subunit gamma) (Laminin-6 subunit gamma) (Laminin-7 subunit gamma) (Laminin-8 subunit gamma) (Laminin-9 subunit gamma) (S-laminin subunit gamma) (S-LAM gamma) | Lamc1 Lamb-2 Lamc-1            |        | 18.078 | 0.0000953  | 4.0209 | 0.0057608 | 18.7592775 | 19.305835  | 18.700965  | 19.5635775 |
| Q99104 | Unconventional myosin-Va (Dilute myosin heavy chain, non-muscle)                                                                                                                                                                                                                                                                                         | Myo5a Dilute                   | 17918  | 17.692 | 0.00010578 | 3.9756 | 0.0057608 | 23.74006   | 23.75106   | 23.8725825 | 23.9059975 |
| P62071 | Ras-related protein R-Ras2                                                                                                                                                                                                                                                                                                                               | Rras2                          | 66922  | 17.853 | 0.00010126 | 3.9946 | 0.0057608 | 20.505145  | 20.053165  | 20.351005  | 19.987185  |
| P31648 | Sodium- and chloride-dependent GABA transporter 1 (GAT-1) (Solute carrier family 6 member 1)                                                                                                                                                                                                                                                             | Slc6a1 Gabt1 Gat-1 Gat1        | 232333 | 17.805 | 0.0001026  | 3.9889 | 0.0057608 | 23.4446175 | 23.4137725 | 23.0698275 | 22.9273075 |
| Q0VGU4 | Neurosecretory protein VGF [Cleaved into: Neuroendocrine regulatory peptide-1 (NERP-1); Neuroendocrine regulatory peptide-2 (NERP-2); VGF-derived peptide TLQP-21; VGF-derived peptide TLQP-62]                                                                                                                                                          | Vgf                            | 381677 | 17.569 | 0.00010941 | 3.961  | 0.0057608 | 20.149055  | 19.8244625 | 20.7232    | 21.1231525 |
| Q9D8Y0 | EF-hand domain-containing protein D2 (Swiprosin-1)                                                                                                                                                                                                                                                                                                       | Efh2 Sws1                      |        | 17.443 | 0.00011325 | 3.946  | 0.0057644 | 23.1636375 | 23.2614225 | 23.4564875 | 23.668985  |
| Q02105 | Complement C1q subcomponent subunit C                                                                                                                                                                                                                                                                                                                    | C1qc C1qg                      | 12262  | 16.908 | 0.00013145 | 3.8812 | 0.0063333 | 18.6042125 | 20.5832175 | 19.4382575 | 20.6050425 |
| P39053 | Dynamin-1 (EC 3.6.5.5)                                                                                                                                                                                                                                                                                                                                   | Dnm1 Dnm Kiaa4093              | 13429  | 16.874 | 0.00013272 | 3.8771 | 0.0063333 | 27.24975   | 27.13156   | 27.2293275 | 26.9419975 |
| Q9QYB8 | Beta-adducin (Add97) (Erythrocyte adducin subunit beta)                                                                                                                                                                                                                                                                                                  | Add2                           | 11519  | 15.586 | 0.00019323 | 3.7139 | 0.0086777 | 23.798465  | 23.675545  | 23.7758925 | 23.5800425 |
| P10605 | Cathepsin B (EC 3.4.22.1) (Cathepsin B1) [Cleaved into: Cathepsin B light chain; Cathepsin B heavy chain]                                                                                                                                                                                                                                                | Ctsb                           | 13030  | 15.512 | 0.00019758 | 3.7042 | 0.0086777 | 21.2429425 | 21.535165  | 21.29265   | 21.835295  |
| Q62188 | Dihydropyrimidinase-related protein 3 (DRP-3) (Unc-33-like phosphoprotein 1) (ULIP-1)                                                                                                                                                                                                                                                                    | Dpysl3 Drp3 Ulip               | 22240  | 15.49  | 0.0001989  | 3.7014 | 0.0086777 | 24.70239   | 24.31222   | 24.7052575 | 24.1349625 |
| P21460 | Cystatin-C (Cystatin-3)                                                                                                                                                                                                                                                                                                                                  | Cst3                           | 13010  | 15.395 | 0.00020476 | 3.6888 | 0.0086852 | 21.29772   | 21.5658275 | 21.740415  | 22.1588475 |
| P61161 | Actin-related protein 2 (Actin-like protein 2)                                                                                                                                                                                                                                                                                                           | Actr2 Arp2                     | 66713  | 15.215 | 0.00021628 | 3.665  | 0.008926  | 24.06893   | 23.8876075 | 24.0086775 | 23.72985   |
| P98086 | Complement C1q subcomponent subunit A                                                                                                                                                                                                                                                                                                                    | C1qa                           | 12259  | 15.099 | 0.00022417 | 3.6494 | 0.0090082 | 17.523675  | 19.70244   | 18.785325  | 19.7552325 |
| Q9Z2H5 | Band 4.1-like protein 1 (Neuronal protein 4.1) (4.1N)                                                                                                                                                                                                                                                                                                    | Epb4l1l Epb4 Epb4.1l1 Kiaa0338 | 13821  | 14.7   | 0.00025385 | 3.5954 | 0.0096907 | 22.8270275 | 22.77557   | 22.8274725 | 22.5536575 |
| P15105 | Glutamine synthetase (GS) (EC 6.3.1.2) (Glutamate--ammonia ligase) (Palmitoyltransferase GLUL) (EC 2.3.1.225)                                                                                                                                                                                                                                            | Glul Glns                      | 14645  | 14.75  | 0.00024989 | 3.6022 | 0.0096907 | 26.8151025 | 26.797415  | 26.5162525 | 26.618135  |
| Q8K0S0 | Phytanoyl-CoA hydroxylase-interacting protein (Phytanoyl-CoA hydroxylase-associated protein 1) (PAHX-AP1) (PAHXAP1)                                                                                                                                                                                                                                      | Phyhip                         | 105653 | 14.378 | 0.00028117 | 3.551  | 0.010223  | 22.730525  | 22.6948975 | 22.624895  | 22.378555  |
| P13020 | Gelsolin (Actin-depolymerizing factor) (ADF) (Brevin)                                                                                                                                                                                                                                                                                                    | Gsn Gsb                        | 227753 | 14.443 | 0.00027534 | 3.5601 | 0.010223  | 20.636415  | 20.872325  | 20.3412725 | 21.2156125 |
| P80315 | T-complex protein 1 subunit delta (TCP-1-delta) (A45) (CCT-delta)                                                                                                                                                                                                                                                                                        | Cct4 Cctd                      | 12464  | 13.904 | 0.00032783 | 3.4844 | 0.011642  | 23.604635  | 23.6332625 | 23.5951    | 23.8069725 |
| P48774 | Glutathione S-transferase Mu 5 (EC 2.5.1.18) (Fibrous sheath component 2) (Fsc2) (GST class-mu 5)                                                                                                                                                                                                                                                        | Gstm5 Fsc2 Gstm3               | 14866  | 13.338 | 0.00039602 | 3.4023 | 0.011937  | 23.1223575 | 22.9011175 | 22.875265  | 22.7292525 |

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| Q61699 | Heat shock protein 105 kDa (42 degrees C-HSP) (Heat shock 110 kDa protein) (Heat shock-related 100 kDa protein E7I) (HSP-E7I)                                                                                                                                                                            | Hsph1 Hsp105<br>Hsp110 Kiaa0201 | 15505  | 13.611 | 0.00036127 | 3.4422 | 0.011937 | 24.1238425 | 23.9117625 | 24.4177    | 24.3203725 |
| Q60864 | Stress-induced-phosphoprotein 1 (STI1) (mSTI1) (Hsc70/Hsp90-organizing protein) (Hop)                                                                                                                                                                                                                    | Stip1                           | 20867  | 13.549 | 0.00036879 | 3.4332 | 0.011937 | 23.9713425 | 23.853425  | 24.05359   | 23.91518   |
| Q9Z1Z0 | General vesicular transport factor p115 (Protein USO1 homolog) (Transcytosis-associated protein) (TAP) (Vesicle-docking protein)                                                                                                                                                                         | Uso1 Vdp                        | 56041  | 13.382 | 0.0003901  | 3.4088 | 0.011937 | 20.1995325 | 20.56909   | 19.904485  | 20.6245675 |
| P62823 | Ras-related protein Rab-3C                                                                                                                                                                                                                                                                               | Rab3c                           | 67295  | 13.318 | 0.00039868 | 3.3994 | 0.011937 | 23.00598   | 22.846675  | 23.0221    | 22.6693425 |
| Q9DAW9 | Calponin-3 (Calponin, acidic isoform)                                                                                                                                                                                                                                                                    | Cnn3                            | 71994  | 13.343 | 0.00039535 | 3.403  | 0.011937 | 19.146545  | 19.96104   | 20.157205  | 21.2932175 |
| Q9DB73 | NADH-cytochrome b5 reductase 1 (b5R.1) (EC 1.6.2.2) (NAD(P)H:quinone oxidoreductase type 3 polypeptide A2)                                                                                                                                                                                               | Cyb5r1 Nqo3a2                   | 72017  | 13.439 | 0.00038275 | 3.4171 | 0.011937 | 19.3392025 | 19.8236025 | 19.31185   | 20.037075  |
| B1AWN6 | Sodium channel protein type 2 subunit alpha (Voltage-gated sodium channel subunit alpha Nav1.2)                                                                                                                                                                                                          | Scn2a Scn2a1                    | 110876 | 13.719 | 0.00034849 | 3.4578 | 0.011937 | 20.40293   | 19.85405   | 20.378525  | 19.717235  |
| Q9WVA4 | Transgelin-2 (SM22-beta)                                                                                                                                                                                                                                                                                 | Tagln2 Kiaa0120                 | 21346  | 13.121 | 0.00042637 | 3.3702 | 0.012521 | 18.514165  | 18.7312275 | 19.2615    | 19.81564   |
| Q8BIZ1 | Ankyrin repeat and sterile alpha motif domain-containing protein 1B (Amyloid-beta protein intracellular domain-associated protein 1) (AIDA-1) (E2A-PBX1-associated protein) (EB-1)                                                                                                                       | Anks1b                          | 77531  | 13.006 | 0.00044369 | 3.3529 | 0.012783 | 21.7332075 | 21.5619925 | 21.538305  | 21.1258475 |
| Q9WUA3 | ATP-dependent 6-phosphofructokinase, platelet type (ATP-PFK) (PFK-P) (EC 2.7.1.11) (6-phosphofructokinase type C) (Phosphofructo-1-kinase isozyme C) (PFK-C) (Phosphohexokinase)                                                                                                                         | Pfkp PfkC                       | 56421  | 12.831 | 0.00047143 | 3.3266 | 0.013089 | 24.222935  | 24.2833675 | 24.438795  | 24.4339925 |
| Q6NZJ6 | Eukaryotic translation initiation factor 4 gamma 1 (eIF-4-gamma 1) (eIF-4G 1) (eIF-4G1)                                                                                                                                                                                                                  | Eif4g1                          | 208643 | 12.869 | 0.00046531 | 3.3323 | 0.013089 | 19.5309775 | 19.9471425 | 19.55449   | 20.01697   |
| Q99L04 | Dehydrogenase/reductase SDR family member 1 (EC 1.1.-.-)                                                                                                                                                                                                                                                 | Dhrs1 D14ertd484e               | 52585  | 12.764 | 0.00048254 | 3.3165 | 0.013158 | 20.2825625 | 21.2544475 | 20.767305  | 22.02584   |
| O88741 | Ganglioside-induced differentiation-associated protein 1 (GDAP1)                                                                                                                                                                                                                                         | Gdap1                           | 14545  | 12.493 | 0.00053115 | 3.2748 | 0.013803 | 20.902805  | 19.9807425 | 20.360985  | 19.87696   |
| Q01097 | Glutamate receptor ionotropic, NMDA 2B (GluN2B) (Glutamate [NMDA] receptor subunit epsilon-2) (N-methyl D-aspartate receptor subtype 2B) (NMDAR2B) (NR2B)                                                                                                                                                | Grin2b                          | 14812  | 12.481 | 0.00053332 | 3.273  | 0.013803 | 21.3902225 | 21.11142   | 21.1335775 | 20.6426975 |
| Q91VI7 | Ribonuclease inhibitor (Ribonuclease/angiogenin inhibitor 1)                                                                                                                                                                                                                                             | Rnh1 Rnh                        | 107702 | 12.485 | 0.00053262 | 3.2736 | 0.013803 | 20.95285   | 21.066705  | 21.24231   | 21.5124425 |
| Q80VP1 | Epsin-1 (EPS-15-interacting protein 1) (Intersectin-EH-binding protein 1) (Ibp1)                                                                                                                                                                                                                         | Epn1                            | 13854  | 12.313 | 0.00056631 | 3.2469 | 0.013855 | 22.0676675 | 21.988785  | 22.1249275 | 21.8529225 |
| Q8BGT8 | Phytanoyl-CoA hydroxylase-interacting protein-like                                                                                                                                                                                                                                                       | Phyhipl                         | 70911  | 12.244 | 0.00058069 | 3.2361 | 0.013855 | 22.55278   | 22.944585  | 22.5245525 | 23.03507   |
| Q80XI4 | Phosphatidylinositol 5-phosphate 4-kinase type-2 beta (EC 2.7.1.149) (1-phosphatidylinositol 5-phosphate 4-kinase 2-beta) (Diphosphoinositide kinase 2-beta) (Phosphatidylinositol 5-phosphate 4-kinase type II beta) (PI(5)P 4-kinase type II beta) (PIP4KII-beta) (PtdIns(5)P-4-kinase isoform 2-beta) | Pip4k2b Pip5k2b                 | 108083 | 12.303 | 0.00056848 | 3.2453 | 0.013855 | 21.2027225 | 21.0485575 | 21.1886075 | 21.0013375 |
| Q80U28 | MAP kinase-activating death domain protein (Rab3 GDP/GTP exchange factor)                                                                                                                                                                                                                                | Madd Kiaa0358                   | 228355 | 12.351 | 0.00055872 | 3.2528 | 0.013855 | 20.45633   | 20.187835  | 20.483835  | 19.9161975 |
| Q7M6Y3 | Phosphatidylinositol-binding clathrin assembly protein (Clathrin assembly lymphoid myeloid leukemia) (CALM)                                                                                                                                                                                              | Picalm Calm Fit1                | 233489 | 12.259 | 0.00057756 | 3.2384 | 0.013855 | 19.7694925 | 19.9714375 | 20.0624075 | 19.91016   |
| P63318 | Protein kinase C gamma type (PKC-gamma) (EC 2.7.11.13)                                                                                                                                                                                                                                                   | Prkcg Pkcc Pkcg Prkcc           | 18752  | 12.19  | 0.00059198 | 3.2277 | 0.013907 | 25.2724275 | 25.175815  | 25.0801775 | 24.8800575 |
| Q03517 | Secretogranin-2 (Chromogranin-C) (Secretogranin II) (SgII) [Cleaved into: Secretoneurin (SN); Manserin]                                                                                                                                                                                                  | Scg2 Chgc Scg-2                 | 20254  | 12.104 | 0.00061077 | 3.2141 | 0.01392  | 19.9008975 | 19.9947025 | 20.671545  | 20.654945  |

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| P46096 | Synaptotagmin-1 (Synaptotagmin I) (SytI) (p65)                                                                                                                                                                                                                        | Syt1                   | 20979       | 12.14  | 0.00060302 | 3.2197 | 0.01392  | 26.72158   | 26.6448325 | 26.7172075 | 26.4754325 |
| Q8R001 | Microtubule-associated protein RP/EB family member 2 (APC-binding protein EB2) (End-binding protein 2) (EB2)                                                                                                                                                          | Mapre2                 | 212307      | 12.039 | 0.00062554 | 3.2037 | 0.014047 | 20.5243875 | 21.1106125 | 20.5616275 | 21.0607775 |
| Q9D1A2 | Cytosolic non-specific dipeptidase (EC 3.4.13.18) (CNDP dipeptidase 2) (Glutamate carboxypeptidase-like protein 1)                                                                                                                                                    | Cndp2 Cn2              | 66054       | 11.925 | 0.00065233 | 3.1855 | 0.014436 | 22.1219475 | 22.14448   | 22.0955525 | 22.34039   |
| Q9JM76 | Actin-related protein 2/3 complex subunit 3 (Arp2/3 complex 21 kDa subunit) (p21-ARC)                                                                                                                                                                                 | Arpc3                  | 56378       | 11.851 | 0.00067038 | 3.1737 | 0.014624 | 23.274375  | 22.924555  | 23.17411   | 22.81725   |
| P26041 | Moesin (Membrane-organizing extension spike protein)                                                                                                                                                                                                                  | Msn                    | 17698       | 11.735 | 0.0006998  | 3.155  | 0.015051 | 22.0154375 | 22.43039   | 22.4288575 | 23.1862025 |
| P47757 | F-actin-capping protein subunit beta (CapZ beta)                                                                                                                                                                                                                      | Capzb Cappb1           | 12345       | 11.65  | 0.00072224 | 3.1413 | 0.015318 | 23.863535  | 23.7331175 | 23.800495  | 23.688735  |
| P0DP26 | Calmodulin-1                                                                                                                                                                                                                                                          | Calm1 Calm Cam Cam1    | 1.23131E+14 | 11.538 | 0.00075341 | 3.123  | 0.01576  | 27.704655  | 27.704655  | 27.7334    | 27.501775  |
| Q6P2B1 | Transportin-3                                                                                                                                                                                                                                                         | Tnp3                   | 320938      | 11.495 | 0.00076569 | 3.1159 | 0.0158   | 18.0729525 | 18.9378925 | 18.5120925 | 18.9698475 |
| Q92111 | Serotransferrin (Transferrin) (Beta-1 metal-binding globulin) (Siderophilin)                                                                                                                                                                                          | Tf Trf                 | 22041       | 11.433 | 0.00078405 | 3.1057 | 0.015963 | 22.7249675 | 24.592435  | 22.4667425 | 24.1860475 |
| P46460 | Vesicle-fusing ATPase (EC 3.6.4.6) (N-ethylmaleimide-sensitive fusion protein) (NEM-sensitive fusion protein) (Suppressor of K(+) transport growth defect 2) (Protein SKD2) (Vesicular-fusion protein NSF)                                                            | Nsf Skd2               | 18195       | 11.325 | 0.00081674 | 3.0879 | 0.01641  | 27.364545  | 27.1957075 | 27.2949125 | 27.11948   |
| P48036 | Annexin A5 (Anchoring CII) (Annexin V) (Annexin-5) (Calphobindin I) (CBP-I) (Endonexin II) (Lipocortin V) (Placental anticoagulant protein 4) (PP4) (Placental anticoagulant protein I) (PAP-I) (Thromboplastin inhibitor) (Vascular anticoagulant-alpha) (VAC-alpha) | Anxa5 Anx5             | 11747       | 11.29  | 0.00082793 | 3.082  | 0.016414 | 22.9750325 | 23.2200475 | 23.06671   | 23.83366   |
| Q8BK64 | Activator of 90 kDa heat shock protein ATPase homolog 1 (AHA1)                                                                                                                                                                                                        | Ahsa1                  | 217737      | 11.257 | 0.00083846 | 3.0765 | 0.016414 | 22.24132   | 22.1257375 | 22.355265  | 22.056115  |
| O70318 | Band 4.1-like protein 2 (Generally expressed protein 4.1) (4.1G)                                                                                                                                                                                                      | Epb41I2 Epb4.1I2       | 13822       | 11.052 | 0.00090743 | 3.0422 | 0.01754  | 21.4002975 | 21.737905  | 21.53289   | 21.90647   |
| O08547 | Vesicle-trafficking protein SEC22b (ER-Golgi SNARE of 24 kDa) (ERS-24) (SEC22 vesicle-trafficking protein homolog B) (SEC22 vesicle-trafficking protein-like 1) (mSec22b)                                                                                             | Sec22b Sec22I1         | 20333       | 10.923 | 0.00095447 | 3.0202 | 0.018218 | 21.486875  | 21.521715  | 21.374145  | 21.72766   |
| P07724 | Serum albumin                                                                                                                                                                                                                                                         | Alb Alb-1 Alb1         | 11657       | 10.705 | 0.00104    | 2.983  | 0.019235 | 26.73342   | 27.7777125 | 26.13416   | 27.9946525 |
| P00405 | Cytochrome c oxidase subunit 2 (EC 1.9.3.1) (Cytochrome c oxidase polypeptide II)                                                                                                                                                                                     | Mtco2 COII COX2 mt-Co2 | 17709       | 10.692 | 0.0010455  | 2.9807 | 0.019235 | 25.4208075 | 25.2559175 | 25.6176    | 25.27178   |
| Q9QXS1 | Plectin (PCN) (PLTN) (Plectin-1) (Plectin-6)                                                                                                                                                                                                                          | Plec Plec1             | 18810       | 10.689 | 0.0010467  | 2.9802 | 0.019235 | 23.93367   | 24.139575  | 24.052955  | 24.276045  |
| Q9WTL7 | Acyl-protein thioesterase 2 (APT-2) (EC 3.1.2.-) (Lysophospholipase 2) (Lysophospholipase II) (LPL-II) (LysoPLA II) (mLyso II)                                                                                                                                        | Lypla2                 | 26394       | 10.638 | 0.0010681  | 2.9714 | 0.019235 | 19.45755   | 18.96704   | 19.533185  | 19.01797   |
| Q9DBY0 | Forkhead box protein P4 (Fork head-related protein-like A) (mFKHLA)                                                                                                                                                                                                   | Foxp4                  | 74123       | 10.603 | 0.0010833  | 2.9653 | 0.019235 | 18.3423475 | 19.32305   | 18.3148825 | 19.24893   |
| Q8BUV3 | Gephyrin [Includes: Molybdopterin adenylyltransferase (MPT adenylyltransferase) (EC 2.7.7.75) (Domain G); Molybdopterin molybdenumtransferase (MPT Mo-transferase) (EC 2.10.1.1) (Domain E)]                                                                          | Gphn                   | 268566      | 10.621 | 0.0010755  | 2.9684 | 0.019235 | 22.04537   | 21.8644875 | 21.9781025 | 21.80613   |
| Q9CPQ3 | Mitochondrial import receptor subunit TOM22 homolog (Translocase of outer membrane 22 kDa subunit homolog)                                                                                                                                                            | Tomm22 Tom22           | 223696      | 10.467 | 0.0011444  | 2.9414 | 0.020087 | 20.7585925 | 20.5205125 | 20.8351    | 20.478105  |
| P58252 | Elongation factor 2 (EF-2)                                                                                                                                                                                                                                            | Eef2                   | 13629       | 10.417 | 0.0011675  | 2.9327 | 0.020259 | 24.614985  | 24.6250425 | 24.64119   | 24.9027875 |

|        |                                                                                                                                                                                                                                                                                                                           |                                            |        |        |           |        |          |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------|--------|-----------|--------|----------|------------|------------|------------|------------|
| P17879 | Heat shock 70 kDa protein 1B (Heat shock 70 kDa protein 1) (HSP70.1)                                                                                                                                                                                                                                                      | Hspa1b Hcp70.1<br>Hsp70-1 Hsp70a1<br>Hspa1 | 15511  | 10.285 | 0.0012322 | 2.9093 | 0.021141 | 20.5826075 | 20.50446   | 21.03027   | 21.0309875 |
| P63040 | Complexin-1 (921-S) (Complexin I) (CPX I) (Synaphin-2)                                                                                                                                                                                                                                                                    | Cplx1                                      | 12889  | 10.233 | 0.0012584 | 2.9002 | 0.02135  | 22.1957175 | 21.8365125 | 22.04076   | 21.69162   |
| P14206 | 40S ribosomal protein SA (37 kDa laminin receptor precursor) (37LRP) (37 kDa oncofetal antigen) (37/67 kDa laminin receptor) (LRP/LR) (67 kDa laminin receptor) (67LR) (Laminin receptor 1) (LamR) (Laminin-binding protein precursor p40) (LBP/p40) (OFA/iLRP)                                                           | Rpsa Lamr1 P40-8                           | 16785  | 10.137 | 0.0013093 | 2.883  | 0.021713 | 22.5084625 | 22.6329875 | 22.499215  | 22.78697   |
| P63054 | Calmodulin regulator protein PCP4 (Brain-specific antigen PCP-4) (Brain-specific polypeptide PEP-19) (Purkinje cell protein 4)                                                                                                                                                                                            | Pcp4 Pep19                                 | 18546  | 10.113 | 0.0013224 | 2.8786 | 0.021713 | 22.3945725 | 22.0801025 | 22.2440075 | 21.8735825 |
| P63328 | Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform (EC 3.1.3.16) (CAM-PRP catalytic subunit) (Calmodulin-dependent calcineurin A subunit alpha isoform) (CNA alpha)                                                                                                                                  | Ppp3ca Calna                               | 19055  | 10.14  | 0.0013077 | 2.8835 | 0.021713 | 26.5175825 | 26.429785  | 26.3758725 | 26.1648525 |
| Q9QVP9 | Protein-tyrosine kinase 2-beta (EC 2.7.10.2) (Calcium-dependent tyrosine kinase) (CADTK) (Calcium-regulated non-receptor proline-rich tyrosine kinase) (Cell adhesion kinase beta) (CAK-beta) (CAKB) (Focal adhesion kinase 2) (FADK 2) (Proline-rich tyrosine kinase 2) (Related adhesion focal tyrosine kinase) (RAFTK) | Ptk2b Fak2 Pyk2<br>Raftk                   | 19229  | 10.069 | 0.0013468 | 2.8707 | 0.021878 | 21.8614    | 21.6260225 | 21.4940425 | 21.1459475 |
| Q8CGK3 | Lon protease homolog, mitochondrial (EC 3.4.21.53) (Lon protease-like protein) (LONP) (Mitochondrial ATP-dependent protease Lon) (Serine protease 15)                                                                                                                                                                     | Lonp1 Prss15                               | 74142  | 9.9251 | 0.00143   | 2.8447 | 0.022985 | 21.553535  | 21.3629725 | 21.602595  | 21.280165  |
| Q8JZS0 | Protein lin-7 homolog A (Lin-7A) (mLin-7) (Mammalian lin-seven protein 1) (MALS-1) (Vertebrate lin-7 homolog 1) (Veli-1)                                                                                                                                                                                                  | Lin7a Mals1 Veli1                          | 108030 | 9.8574 | 0.0014713 | 2.8323 | 0.023402 | 20.0467975 | 19.53813   | 20.0015325 | 19.369805  |
| O70161 | Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma (PIP5K1-gamma) (PtdIns(4)P-5-kinase 1 gamma) (EC 2.7.1.68) (Phosphatidylinositol 4-phosphate 5-kinase type I gamma) (PIP5K1gamma)                                                                                                                                  | Pip5k1c Kiaa0589                           | 18717  | 9.7885 | 0.0015146 | 2.8197 | 0.023765 | 22.314815  | 22.0694525 | 22.337615  | 22.03283   |
| Q8CI94 | Glycogen phosphorylase, brain form (EC 2.4.1.1)                                                                                                                                                                                                                                                                           | Pygb                                       | 110078 | 9.7721 | 0.0015252 | 2.8167 | 0.023765 | 25.248885  | 25.406675  | 25.249005  | 25.4990475 |
| P28660 | Nck-associated protein 1 (NAP 1) (Brain protein H19) (MH19) (Membrane-associated protein HEM-2) (p125Nap1)                                                                                                                                                                                                                | Nckap1 Hem2<br>Kiaa0587 Nap1               | 50884  | 9.64   | 0.0016134 | 2.7923 | 0.024885 | 23.2878625 | 23.14601   | 23.3989675 | 23.0737375 |
| P61979 | Heterogeneous nuclear ribonucleoprotein K (hnRNP K)                                                                                                                                                                                                                                                                       | Hnrnpk Hnrpk                               | 15387  | 9.5609 | 0.001669  | 2.7775 | 0.025486 | 24.36472   | 24.4799525 | 24.441845  | 24.5781    |
| Q9WUR9 | Adenylate kinase 4, mitochondrial (AK 4) (EC 2.7.4.10) (EC 2.7.4.6) (Adenylate kinase 3-like) (Adenylate kinase isoenzyme 4) (GTP:AMP phosphotransferase AK4)                                                                                                                                                             | Ak4 Ak-4 Ak3b Ak31                         | 11639  | 9.5128 | 0.001704  | 2.7685 | 0.025762 | 21.1321    | 20.9578275 | 20.81185   | 20.5620275 |
| P50396 | Rab GDP dissociation inhibitor alpha (Rab GDI alpha) (Guanosine diphosphate dissociation inhibitor 1) (GDI-1)                                                                                                                                                                                                             | Gdi1 Rabgdia                               | 14567  | 9.4159 | 0.001777  | 2.7503 | 0.026603 | 25.911435  | 25.7975875 | 26.00431   | 25.72274   |
| Q60598 | Src substrate cortactin                                                                                                                                                                                                                                                                                                   | Cttn Ems1                                  | 13043  | 9.3011 | 0.0018682 | 2.7286 | 0.027697 | 22.75785   | 22.612865  | 22.5884425 | 22.421425  |
| P28652 | Calcium/calmodulin-dependent protein kinase type II subunit beta (CaM kinase II subunit beta) (CaMK-II subunit beta) (EC 2.7.11.17)                                                                                                                                                                                       | Camk2b Camk2d                              | 12323  | 9.2176 | 0.001938  | 2.7127 | 0.028455 | 25.6829925 | 25.540075  | 25.61686   | 25.3386925 |
| P52760 | 2-iminobutanoate/2-iminopropanoate deaminase (EC 3.5.99.10) (Heat-responsive protein 12) (Reactive intermediate imine deaminase A homolog) (Translation inhibitor L-PSP ribonuclease)                                                                                                                                     | Rida Hrp12                                 | 15473  | 9.0399 | 0.0020969 | 2.6784 | 0.030495 | 21.72352   | 22.2627025 | 21.5593175 | 22.3609075 |
| Q8VHW2 | Voltage-dependent calcium channel gamma-8 subunit (Neuronal voltage-gated calcium                                                                                                                                                                                                                                         | Cacng8                                     |        | 8.9144 | 0.0022183 | 2.654  | 0.031655 | 21.9685025 | 21.6512325 | 21.7361525 | 21.188255  |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |        |        |           |        |          |            |            |            |            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------|--------|-----------|--------|----------|------------|------------|------------|------------|
|        | channel gamma-8 subunit) (Transmembrane AMPAR regulatory protein gamma-8) (TARP gamma-8)                                                                                                                                                                                                                                                                                                                                                                           |                             |        |        |           |        |          |            |            |            |            |
| P80318 | T-complex protein 1 subunit gamma (TCP-1-gamma) (CCT-gamma) (Matricin) (mTRIC-P5)                                                                                                                                                                                                                                                                                                                                                                                  | Cct3 Cctg                   | 12462  | 8.9096 | 0.0022231 | 2.653  | 0.031655 | 23.18799   | 23.1676025 | 23.3074725 | 23.3648975 |
| Q9JKK7 | Tropomodulin-2 (Neuronal tropomodulin) (N-Tmod)                                                                                                                                                                                                                                                                                                                                                                                                                    | Tmod2                       | 50876  | 8.894  | 0.0022389 | 2.65   | 0.031655 | 23.1220475 | 23.1132075 | 23.2491475 | 23.01985   |
| Q06890 | Clusterin (Apolipoprotein J) (Apo-J) (Clustrin) (Sulfated glycoprotein 2) (SGP-2) [Cleaved into: Clusterin beta chain; Clusterin alpha chain]                                                                                                                                                                                                                                                                                                                      | Clu Apoj Msgp-2             | 12759  | 8.759  | 0.0023802 | 2.6234 | 0.033345 | 21.24293   | 21.963535  | 21.68343   | 22.690925  |
| Q3UHL1 | CaM kinase-like vesicle-associated protein                                                                                                                                                                                                                                                                                                                                                                                                                         | Camkv                       | 235604 | 8.5973 | 0.0025634 | 2.5912 | 0.035584 | 25.0949925 | 25.08133   | 24.88231   | 24.7179125 |
| P19096 | Fatty acid synthase (EC 2.3.1.85) [Includes: [Acyl-carrier-protein] S-acetyltransferase (EC 2.3.1.38); [Acyl-carrier-protein] S-malonyltransferase (EC 2.3.1.39); 3-oxoacyl-[acyl-carrier-protein] synthase (EC 2.3.1.41); 3-oxoacyl-[acyl-carrier-protein] reductase (EC 1.1.1.100); 3-hydroxyacyl-[acyl-carrier-protein] dehydratase (EC 4.2.1.59); Enoyl-[acyl-carrier-protein] reductase (EC 1.3.1.39); Oleoyl-[acyl-carrier-protein] hydrolase (EC 3.1.2.14)] | Fasn                        | 14104  | 8.5734 | 0.0025918 | 2.5864 | 0.035655 | 23.675375  | 23.7595675 | 23.8300275 | 23.98368   |
| Q8VDP6 | CDP-diacylglycerol--inositol 3-phosphatidyltransferase (EC 2.7.8.11) (Phosphatidylinositol synthase) (PtdIns synthase)                                                                                                                                                                                                                                                                                                                                             | Cdipt Pis1                  | 52858  | 8.3286 | 0.0029054 | 2.5368 | 0.039261 | 20.093925  | 19.78151   | 20.0950425 | 19.769485  |
| Q9R1Q8 | Transgelin-3 (Neuronal protein NP25)                                                                                                                                                                                                                                                                                                                                                                                                                               | Tagln3 Np25                 | 56370  | 8.3441 | 0.0028843 | 2.54   | 0.039261 | 24.1663525 | 23.95592   | 24.29161   | 24.1734    |
| Q9D8N0 | Elongation factor 1-gamma (EF-1-gamma) (eEF-1B gamma)                                                                                                                                                                                                                                                                                                                                                                                                              | Eef1g                       | 67160  | 8.2859 | 0.0029645 | 2.528  | 0.039364 | 23.353545  | 23.3873425 | 23.3423025 | 23.5657975 |
| Q8R071 | Inositol-trisphosphate 3-kinase A (EC 2.7.1.127) (Inositol 1,4,5-trisphosphate 3-kinase A) (IP3 3-kinase A) (IP3K A) (InsP 3-kinase A)                                                                                                                                                                                                                                                                                                                             | Itpka                       | 228550 | 8.3009 | 0.0029436 | 2.5311 | 0.039364 | 22.34186   | 22.403655  | 22.1485075 | 21.9210275 |
| P08414 | Calcium/calmodulin-dependent protein kinase type IV (CaMK IV) (EC 2.7.11.17) (CaM kinase-GR)                                                                                                                                                                                                                                                                                                                                                                       | Camk4                       |        | 8.2479 | 0.0030183 | 2.5202 | 0.039732 | 20.11602   | 19.1794325 | 19.974685  | 19.666665  |
| Q9CPY7 | Cytosol aminopeptidase (EC 3.4.11.1) (Leucine aminopeptidase 3) (LAP-3) (Leucyl aminopeptidase) (Proline aminopeptidase) (EC 3.4.11.5) (Prolyl aminopeptidase)                                                                                                                                                                                                                                                                                                     | Lap3 Lapep                  | 66988  | 8.1703 | 0.0031317 | 2.5042 | 0.040873 | 21.8562875 | 22.2342975 | 21.99734   | 22.442995  |
| Q9R1Q9 | V-type proton ATPase subunit S1 (V-ATPase subunit S1) (Protein C7-1) (V-ATPase Ac45 subunit) (V-ATPase S1 accessory protein) (Vacuolar proton pump subunit S1)                                                                                                                                                                                                                                                                                                     | Atp6ap1 Atp6ip1 Atp6s1      | 54411  | 8.1463 | 0.0031679 | 2.4992 | 0.040995 | 21.079565  | 20.79305   | 21.2067125 | 20.6912175 |
| Q6ZWV3 | 60S ribosomal protein L10 (Protein QM homolog) (Ribosomal protein L10)                                                                                                                                                                                                                                                                                                                                                                                             | Rpl10 Qm                    | 110954 | 8.0334 | 0.0033442 | 2.4757 | 0.042912 | 20.588475  | 20.3341025 | 20.7087425 | 20.32727   |
| P40142 | Transketolase (TK) (EC 2.2.1.1) (P68)                                                                                                                                                                                                                                                                                                                                                                                                                              | Tkt                         | 21881  | 8.0147 | 0.0033745 | 2.4718 | 0.04294  | 24.74178   | 24.775385  | 24.70898   | 24.9143425 |
| Q9DBP5 | UMP-CMP kinase (EC 2.7.4.14) (Deoxycytidylate kinase) (CK) (dCMP kinase) (Nucleoside-diphosphate kinase) (EC 2.7.4.6) (Uridine monophosphate/cytidine monophosphate kinase) (UMP/CMP kinase) (UMP/CMPK)                                                                                                                                                                                                                                                            | Cmpk1 Cmk Cmpk Uck Umk Umpk | 66588  | 7.9429 | 0.0034938 | 2.4567 | 0.044091 | 22.506215  | 22.3926025 | 22.611045  | 22.374645  |
| P80314 | T-complex protein 1 subunit beta (TCP-1-beta) (CCT-beta)                                                                                                                                                                                                                                                                                                                                                                                                           | Cct2 Cctb                   | 12461  | 7.8961 | 0.0035743 | 2.4468 | 0.044737 | 23.2403325 | 23.49765   | 23.41207   | 23.53325   |
| P63216 | Guanine nucleotide-binding protein G(i)/G(s)/G(o) subunit gamma-3                                                                                                                                                                                                                                                                                                                                                                                                  | Gng3 Gngt3                  | 14704  | 7.8535 | 0.0036494 | 2.4378 | 0.045306 | 22.689165  | 22.4210325 | 22.74996   | 22.3192625 |
| P23818 | Glutamate receptor 1 (GluR-1) (AMPA-selective glutamate receptor 1) (GluR-A) (GluR-K1) (Glutamate receptor ionotropic, AMPA 1) (GluA1)                                                                                                                                                                                                                                                                                                                             | Gria1 Glur1                 | 14799  | 7.825  | 0.0037006 | 2.4317 | 0.045572 | 23.1339325 | 22.8269025 | 22.9084475 | 22.4863525 |

|        |                                                                                                                                                                                                                                                                                      |                                |        |        |           |        |          |            |            |            |            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------|--------|-----------|--------|----------|------------|------------|------------|------------|
| P27773 | Protein disulfide-isomerase A3 (EC 5.3.4.1) (58 kDa glucose-regulated protein) (58 kDa microsomal protein) (p58) (Disulfide isomerase ER-60) (Endoplasmic reticulum resident protein 57) (ER protein 57) (ERp57) (Endoplasmic reticulum resident protein 60) (ER protein 60) (ERp60) | Pdia3 Erp Erp60 Grp58          | 14827  | 7.7902 | 0.0037644 | 2.4243 | 0.045986 | 24.25358   | 24.2352075 | 24.28669   | 24.54165   |
| Q9JHU4 | Cytoplasmic dynein 1 heavy chain 1 (Cytoplasmic dynein heavy chain 1) (Dynein heavy chain, cytosolic)                                                                                                                                                                                | Dync1h1 Dhc1 Dnch1 Dnchc1 Dyhc | 13424  | 7.7699 | 0.0038022 | 2.42   | 0.046079 | 25.83596   | 25.8827675 | 25.89578   | 25.9345675 |
| Q9Z2W9 | Glutamate receptor 3 (GluR-3) (AMPA-selective glutamate receptor 3) (GluR-C) (GluR-K3) (Glutamate receptor ionotropic, AMPA 3) (GluA3)                                                                                                                                               | Gria3 Glur3 Kiaa4184           | 53623  | 7.7277 | 0.0038821 | 2.4109 | 0.046676 | 21.2032225 | 21.286915  | 21.322195  | 20.9337525 |
| O70443 | Guanine nucleotide-binding protein G(z) subunit alpha (G(x) alpha chain) (Gz-alpha)                                                                                                                                                                                                  | Gnaz                           | 14687  | 7.6931 | 0.0039491 | 2.4035 | 0.046746 | 22.64333   | 22.4577975 | 22.742785  | 22.3393175 |
| Q6ZQ38 | Cullin-associated NEDD8-dissociated protein 1 (Cullin-associated and neddylation-dissociated protein 1) (p120 CAND1)                                                                                                                                                                 | Cand1 D10ErtD516e Kiaa0829     | 71902  | 7.695  | 0.0039453 | 2.4039 | 0.046746 | 23.7345075 | 23.8408025 | 23.96651   | 23.8912125 |
| P97427 | Dihydropyrimidinase-related protein 1 (DRP-1) (Collapsin response mediator protein 1) (CRMP-1) (Inactive dihydropyrimidinase) (Unc-33-like phosphoprotein 3) (ULIP-3)                                                                                                                | Crmp1 Dpysl1 Ulip3             | 12933  | 7.6044 | 0.0041271 | 2.3844 | 0.048143 | 25.71165   | 25.6238575 | 25.7647225 | 25.4620375 |
| P68404 | Protein kinase C beta type (PKC-B) (PKC-beta) (EC 2.7.11.13)                                                                                                                                                                                                                         | Prkcb Pkcb Prkcb1              | 18751  | 7.6029 | 0.0041301 | 2.384  | 0.048143 | 23.6869375 | 23.43405   | 23.58409   | 23.37421   |
| Q64521 | Glycerol-3-phosphate dehydrogenase, mitochondrial (GPD-M) (GPDH-M) (EC 1.1.5.3) (Protein TISP38)                                                                                                                                                                                     | Gpd2 Gdm1                      | 14571  | 7.5799 | 0.0041779 | 2.379  | 0.048331 | 24.8258375 | 24.764455  | 24.8052425 | 24.662745  |
| O08709 | Peroxisomal oxidoreductase (EC 1.1.1.15) (1-Cys peroxiredoxin) (1-Cys PRX) (Acidic calcium-independent phospholipase A2) (aiPLA2) (EC 3.1.1.4) (Antioxidant protein 2) (Non-selenium glutathione peroxidase) (NSGPx)                                                                 | Prdx6 Aop2 Ltw4 Prdx5          | 11758  | 7.5051 | 0.0043375 | 2.3628 | 0.049062 | 25.42138   | 25.89032   | 25.6392175 | 26.22826   |
| P63044 | Vesicle-associated membrane protein 2 (VAMP-2) (Synaptobrevin-2)                                                                                                                                                                                                                     | Vamp2 Syb2                     | 22318  | 7.5091 | 0.0043288 | 2.3636 | 0.049062 | 24.33924   | 24.103575  | 24.236665  | 23.9826625 |
| Q8CHX7 | Raftlin-2 (Raft-linking protein 2)                                                                                                                                                                                                                                                   | Rftn2                          | 74013  | 7.5242 | 0.0042961 | 2.3669 | 0.049062 | 20.3478675 | 20.3866925 | 20.084725  | 20.219705  |
| P50516 | V-type proton ATPase catalytic subunit A (V-ATPase subunit A) (EC 7.1.2.2) (V-ATPase 69 kDa subunit) (Vacuolar proton pump subunit alpha)                                                                                                                                            | Atp6v1a Atp6a1 Atp6a2 Atp6v1a1 | 11964  | 7.4889 | 0.0043731 | 2.3592 | 0.049101 | 26.6924075 | 26.62327   | 26.8269425 | 26.6163225 |
| P17183 | Gamma-enolase (EC 4.2.1.11) (2-phospho-D-glycerate hydro-lyase) (Enolase 2) (Neural enolase) (Neuron-specific enolase) (NSE)                                                                                                                                                         | Eno2 Eno-2                     | 13807  | 7.4491 | 0.0044617 | 2.3505 | 0.049731 | 26.44807   | 26.47131   | 26.5758175 | 26.35803   |
| P60469 | Liprin-alpha-3 (Protein tyrosine phosphatase receptor type f polypeptide-interacting protein alpha-3) (PTPRF-interacting protein alpha-3)                                                                                                                                            | Ppfia3                         | 76787  | 7.3978 | 0.004579  | 2.3392 | 0.050668 | 20.748585  | 20.44135   | 20.65075   | 20.273025  |
| P55066 | Neurocan core protein (Chondroitin sulfate proteoglycan 3)                                                                                                                                                                                                                           | Ncan Cspg3                     | 13004  | 7.3077 | 0.0047942 | 2.3193 | 0.05254  | 22.83813   | 23.038075  | 22.938665  | 23.2555925 |
| Q8BLR2 | Copine-4 (Copine IV)                                                                                                                                                                                                                                                                 | Cpne4                          | 74020  | 7.2984 | 0.004817  | 2.3172 | 0.05254  | 20.3785675 | 20.084765  | 20.0244    | 19.638225  |
| O35874 | Neutral amino acid transporter A (Alanine/serine/cysteine/threonine transporter 1) (ASCT-1) (SATT) (Solute carrier family 1 member 4)                                                                                                                                                | Slc1a4 Asct1                   | 55963  | 7.2213 | 0.0050116 | 2.3    | 0.054275 | 21.56002   | 21.9378675 | 22.000805  | 22.2471825 |
| Q99P72 | Reticulon-4 (Neurite outgrowth inhibitor) (Nogo protein)                                                                                                                                                                                                                             | Rtn4 Kiaa0886 Nogo             | 68585  | 7.196  | 0.0050772 | 2.2944 | 0.054597 | 24.0270175 | 24.07918   | 24.1879675 | 24.22461   |
| Q8BTM8 | Filamin-A (FLN-A) (Actin-binding protein 280) (ABP-280) (Alpha-filamin) (Endothelial actin-binding protein) (Filamin-1) (Non-muscle filamin)                                                                                                                                         | Flna Fln Fln1                  | 192176 | 7.182  | 0.0051142 | 2.2912 | 0.054611 | 18.7494675 | 19.1191175 | 18.9042275 | 19.97562   |
| P14069 | Protein S100-A6 (S100) (Calcyon) (Prolactin receptor-associated protein) (S100 calcium-binding protein A6)                                                                                                                                                                           | S100a6 Cacy                    | 20200  | 7.1452 | 0.0052123 | 2.283  | 0.054891 | 19.7351    | 19.5286375 | 19.591755  | 20.707745  |

|        |                                                                                                                                                                                                                                                                                                         |                    |        |        |           |        |          |            |            |            |            |
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| Q80XN0 | D-beta-hydroxybutyrate dehydrogenase, mitochondrial (EC 1.1.1.30) (3-hydroxybutyrate dehydrogenase) (BDH)                                                                                                                                                                                               | Bdh1 Bdh           | 71911  | 7.1505 | 0.0051981 | 2.2842 | 0.054891 | 23.6411    | 23.406245  | 23.6515925 | 23.3803175 |
| P35803 | Neuronal membrane glycoprotein M6-b (M6b)                                                                                                                                                                                                                                                               | Gpm6b M6b          | 14758  | 7.1155 | 0.0052935 | 2.2763 | 0.055364 | 23.8291    | 23.61138   | 23.639615  | 23.4751425 |
| P84086 | Complexin-2 (921-L) (Complexin II) (CPX II) (Synaphin-1)                                                                                                                                                                                                                                                | Cplx2              | 12890  | 7.0659 | 0.005432  | 2.265  | 0.056426 | 24.4703425 | 24.4142875 | 24.5243475 | 24.17291   |
| Q8K021 | Secretory carrier-associated membrane protein 1 (Secretory carrier membrane protein 1)                                                                                                                                                                                                                  | Scamp1             | 107767 | 7.0282 | 0.00554   | 2.2565 | 0.05716  | 22.3761725 | 22.2963375 | 22.3869325 | 22.164275  |
| P62270 | 40S ribosomal protein S18 (Ke-3) (Ke3)                                                                                                                                                                                                                                                                  | Rps18              | 20084  | 6.9614 | 0.0057377 | 2.2413 | 0.058802 | 22.0260025 | 22.20016   | 22.13329   | 22.352765  |
| Q9JME5 | AP-3 complex subunit beta-2 (Adaptor protein complex AP-3 subunit beta-2) (Adaptor-related protein complex 3 subunit beta-2) (Beta-3B-adaptin) (Clathrin assembly protein complex 3 beta-2 large chain)                                                                                                 | Ap3b2              | 11775  | 6.8803 | 0.0059889 | 2.2227 | 0.060238 | 21.83769   | 21.607915  | 21.676595  | 21.46443   |
| Q62420 | Endophilin-A1 (Endophilin-1) (SH3 domain protein 2A) (SH3 domain-containing GRB2-like protein 2) (SH3p4)                                                                                                                                                                                                | Sh3gl2 Een1 Sh3d2a | 20404  | 6.8657 | 0.0060356 | 2.2193 | 0.060238 | 25.1224675 | 24.922645  | 25.118285  | 24.8753425 |
| F6SEU4 | Ras/Rap GTPase-activating protein SynGAP (Neuronal RasGAP) (Synaptic Ras GTPase-activating protein 1) (Synaptic Ras-GAP 1)                                                                                                                                                                              | Syngap1            | 240057 | 6.8686 | 0.0060262 | 2.22   | 0.060238 | 23.9857225 | 23.9828475 | 23.9224925 | 23.5798975 |
| Q9Z0H4 | CUGBP Elav-like family member 2 (CELF-2) (Bruno-like protein 3) (CUG triplet repeat RNA-binding protein 2) (CUG-BP2) (CUG-BP- and ETR-3-like factor 2) (ELAV-type RNA-binding protein 3) (ETR-3) (mETR-3) (Neuroblastoma apoptosis-related RNA-binding protein) (mNapor) (RNA-binding protein BRUNOL-3) | Celf2 Cugbp2 Napor | 14007  | 6.902  | 0.0059206 | 2.2276 | 0.060238 | 20.2252875 | 19.7627075 | 20.02439   | 19.8194875 |
| Q8R0S2 | IQ motif and SEC7 domain-containing protein 1                                                                                                                                                                                                                                                           | lqsec1 Kiaa0763    | 232227 | 6.7536 | 0.0064075 | 2.1933 | 0.063534 | 22.2781825 | 21.9659175 | 22.1168925 | 21.9884325 |
| Q9CQZ5 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6 (Complex I-B14) (CI-B14) (NADH-ubiquinone oxidoreductase B14 subunit)                                                                                                                                                                      | Ndufa6             | 67130  | 6.7152 | 0.006541  | 2.1844 | 0.064439 | 22.2871225 | 22.1605375 | 22.106295  | 22.0772625 |
| P23819 | Glutamate receptor 2 (GluR-2) (AMPA-selective glutamate receptor 2) (GluR-B) (GluR-K2) (Glutamate receptor ionotropic, AMPA 2) (GluA2)                                                                                                                                                                  | Gria2 Glur2        |        | 6.6704 | 0.0067006 | 2.1739 | 0.06446  | 23.869825  | 23.6963775 | 23.6413475 | 23.323225  |
| Q9D0F9 | Phosphoglucosyltransferase-1 (PGM 1) (EC 5.4.2.2) (Glucose phosphomutase 1) (Phosphoglucosyltransferase-2)                                                                                                                                                                                              | Pgm1 Pgm2          | 72157  | 6.7021 | 0.0065871 | 2.1813 | 0.06446  | 22.65725   | 22.7475275 | 22.5834425 | 22.638995  |
| Q7TQI3 | Ubiquitin thioesterase OTUB1 (EC 3.4.19.12) (Deubiquitinating enzyme OTUB1) (OTU domain-containing ubiquitin aldehyde-binding protein 1) (Otubain-1) (Ubiquitin-specific-processing protease OTUB1)                                                                                                     | Otub1              | 107260 | 6.6586 | 0.0067437 | 2.1711 | 0.06446  | 23.4384    | 23.449595  | 23.3391825 | 23.394585  |
| Q6NS52 | Diacylglycerol kinase beta (DAG kinase beta) (EC 2.7.1.107) (Diglyceride kinase beta) (DGK-beta)                                                                                                                                                                                                        | Dgkb Kiaa0718      | 217480 | 6.6678 | 0.00671   | 2.1733 | 0.06446  | 19.825355  | 19.8389725 | 19.45579   | 19.10711   |
| Q7TPM6 | Fibronectin type III and SPRY domain-containing protein 1                                                                                                                                                                                                                                               | Fsd1               | 240121 | 6.6557 | 0.0067542 | 2.1704 | 0.06446  | 19.307345  | 18.9525175 | 19.53649   | 18.72285   |
| Q61838 | Pregnancy zone protein (Alpha-2-macroglobulin) (Alpha-2-M) [Cleaved into: Alpha-2-macroglobulin 165 kDa subunit; Alpha-2-macroglobulin 35 kDa subunit]                                                                                                                                                  | Pzp A2m            |        | 6.6336 | 0.0068352 | 2.1652 | 0.064671 | 20.9669125 | 23.0714225 | 20.3725775 | 22.1607625 |
| Q9QUR7 | Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 (EC 5.2.1.8) (Peptidyl-prolyl cis-trans isomerase Pin1) (PPIase Pin1)                                                                                                                                                                            | Pin1               | 23988  | 6.6267 | 0.006861  | 2.1636 | 0.064671 | 20.744435  | 20.239785  | 20.560445  | 20.25966   |
| P28740 | Kinesin-like protein KIF2A (Kinesin-2)                                                                                                                                                                                                                                                                  | Kif2a Kif2 Kns2    | 16563  | 6.6075 | 0.006933  | 2.1591 | 0.064949 | 21.293155  | 21.11292   | 21.1679675 | 20.88349   |
| P70333 | Heterogeneous nuclear ribonucleoprotein H2 (hnRNP H2) (Heterogeneous nuclear ribonucleoprotein H') (hnRNP H') [Cleaved into:                                                                                                                                                                            | Hnrmph2 Hnrph2     | 56258  | 6.5816 | 0.0070312 | 2.153  | 0.065467 | 20.0786925 | 19.8530825 | 20.1713675 | 19.8623525 |

|        |                                                                                                                                                                                                                                                                                                                                                                    |                           |        |        |           |        |          |            |            |            |            |
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|        | Heterogeneous nuclear ribonucleoprotein H2, N-terminally processed]                                                                                                                                                                                                                                                                                                |                           |        |        |           |        |          |            |            |            |            |
| Q62418 | Drebrin-like protein (Actin-binding protein 1) (SH3 domain-containing protein 7)                                                                                                                                                                                                                                                                                   | Dbrl Abp1 Sh3p7           | 13169  | 6.5472 | 0.0071644 | 2.1448 | 0.066303 | 22.2294325 | 22.122095  | 22.1696425 | 21.9346875 |
| P61164 | Alpha-centractin (Centractin) (ARP1) (Actin-RPV) (Centrosome-associated actin homolog)                                                                                                                                                                                                                                                                             | Actr1a Ctrn1              | 54130  | 6.5255 | 0.0072497 | 2.1397 | 0.066689 | 22.83178   | 22.741945  | 22.8675225 | 22.91856   |
| P62908 | 40S ribosomal protein S3 (EC 4.2.99.18)                                                                                                                                                                                                                                                                                                                            | Rps3                      | 27050  | 6.4959 | 0.0073683 | 2.1326 | 0.067374 | 23.3860375 | 23.4449375 | 23.3741075 | 23.61716   |
| P35438 | Glutamate receptor ionotropic, NMDA 1 (GluN1) (Glutamate [NMDA] receptor subunit zeta-1) (N-methyl-D-aspartate receptor subunit NR1) (NMD-R1)                                                                                                                                                                                                                      | Grin1 Glur21              | 14810  | 6.4191 | 0.0076863 | 2.1143 | 0.069863 | 22.373405  | 22.15976   | 22.088475  | 21.9530425 |
| P68040 | Receptor of activated protein C kinase 1 (12-3) (Guanine nucleotide-binding protein subunit beta-2-like 1) (Receptor for activated C kinase) (Receptor of activated protein kinase C 1) (p205) [Cleaved into: Receptor of activated protein C kinase 1, N-terminally processed (Guanine nucleotide-binding protein subunit beta-2-like 1, N-terminally processed)] | Rack1 Gnb2-rs1 Gnb2l1     | 14694  | 6.4009 | 0.007764  | 2.1099 | 0.070152 | 22.610215  | 22.748295  | 22.745795  | 22.916495  |
| Q8CAY6 | Acetyl-CoA acetyltransferase, cytosolic (EC 2.3.1.9) (Cytosolic acetoacetyl-CoA thiolase)                                                                                                                                                                                                                                                                          | Acat2                     | 110460 | 6.3702 | 0.007897  | 2.1025 | 0.070934 | 21.71279   | 21.533425  | 21.9052975 | 21.65077   |
| P48453 | Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform (EC 3.1.3.16) (CAM-PRP catalytic subunit) (Calmodulin-dependent calcineurin A subunit beta isoform) (CNA beta)                                                                                                                                                                              | Ppp3cb Calnb              | 19056  | 6.3543 | 0.0079669 | 2.0987 | 0.071143 | 22.255945  | 21.769415  | 22.0675525 | 21.6793425 |
| Q921F2 | TAR DNA-binding protein 43 (TDP-43)                                                                                                                                                                                                                                                                                                                                | Tardbp Tdp43              | 230908 | 6.3368 | 0.0080449 | 2.0945 | 0.071422 | 20.64877   | 20.7918975 | 20.9727075 | 20.9074675 |
| Q9DBG6 | Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 (Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit) (Ribophorin II) (RPN-II) (Ribophorin-2)                                                                                                                                                                   | Rpn2                      | 20014  | 6.3252 | 0.0080971 | 2.0917 | 0.07147  | 20.28205   | 20.60156   | 20.62976   | 20.7954125 |
| P20108 | Thioredoxin-dependent peroxide reductase, mitochondrial (EC 1.11.1.15) (Antioxidant protein 1) (AOP-1) (PRX III) (Perioredoxin-3) (Protein MER5)                                                                                                                                                                                                                   | Prdx3 Aop1 Mer5           | 11757  | 6.3001 | 0.0082109 | 2.0856 | 0.072058 | 23.29468   | 23.4898075 | 23.3688175 | 23.48708   |
| P0C7L0 | WASWASL-interacting protein family member 3 (Corticosteroids and regional expression protein 16 homolog)                                                                                                                                                                                                                                                           | Wipf3 Cr16                |        | 6.1941 | 0.0087142 | 2.0598 | 0.075261 | 20.571555  | 20.32685   | 20.3079    | 20.2682525 |
| P18242 | Cathepsin D (EC 3.4.23.5)                                                                                                                                                                                                                                                                                                                                          | Ctsd                      | 13033  | 6.1827 | 0.0087704 | 2.057  | 0.075261 | 21.89864   | 22.1988725 | 22.0804325 | 22.7861275 |
| Q9CZX8 | 40S ribosomal protein S19                                                                                                                                                                                                                                                                                                                                          | Rps19                     | 20085  | 6.1996 | 0.008687  | 2.0611 | 0.075261 | 21.5271925 | 21.6218575 | 21.5247175 | 21.6859    |
| Q80TJ1 | Calcium-dependent secretion activator 1 (Calcium-dependent activator protein for secretion 1) (CAPS-1)                                                                                                                                                                                                                                                             | Cadps Caps Caps1 Kiaa1121 | 27062  | 6.1821 | 0.008773  | 2.0568 | 0.075261 | 24.4017375 | 24.282395  | 24.3364575 | 24.1684175 |
| E9PV24 | Fibrinogen alpha chain [Cleaved into: Fibrinopeptide A; Fibrinogen alpha chain]                                                                                                                                                                                                                                                                                    | Fga                       | 14161  | 6.1194 | 0.0090901 | 2.0414 | 0.077545 | 18.8942875 | 21.15421   | 17.6640825 | 20.102215  |
| Q61316 | Heat shock 70 kDa protein 4 (Heat shock 70-related protein APG-2)                                                                                                                                                                                                                                                                                                  | Hspa4 Apg2 Hsp110         |        | 6.0965 | 0.0092088 | 2.0358 | 0.07769  | 24.9810225 | 24.8962625 | 25.0535675 | 24.97207   |
| P14148 | 60S ribosomal protein L7                                                                                                                                                                                                                                                                                                                                           | Rpl7                      | 19989  | 6.1015 | 0.009183  | 2.037  | 0.07769  | 22.0609075 | 22.0871575 | 22.0935025 | 22.2815975 |
| Q61081 | Hsp90 co-chaperone Cdc37 (Hsp90 chaperone protein kinase-targeting subunit) (p50Cdc37) [Cleaved into: Hsp90 co-chaperone Cdc37, N-terminally processed]                                                                                                                                                                                                            | Cdc37                     | 12539  | 6.0172 | 0.0096353 | 2.0161 | 0.080841 | 20.4972325 | 20.44924   | 20.7173775 | 20.5132575 |
| Q9QYJ0 | DnaJ homolog subfamily A member 2 (mDj3)                                                                                                                                                                                                                                                                                                                           | Dnaja2                    | 56445  | 5.9617 | 0.0099476 | 2.0023 | 0.083005 | 21.9455175 | 21.720155  | 21.924825  | 21.7284    |
| Q91X72 | Hemopexin                                                                                                                                                                                                                                                                                                                                                          | Hpx Hpxn                  | 15458  | 5.9517 | 0.010005  | 1.9998 | 0.08303  | 20.30757   | 22.88745   | 20.4314275 | 21.5803425 |

|        |                                                                                                                                                                                                                                                                                            |                              |        |        |          |        |          |            |            |            |            |
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| Q91WG7 | Diacylglycerol kinase gamma (DAG kinase gamma) (EC 2.7.1.107) (88 kDa diacylglycerol kinase) (Diglyceride kinase gamma) (DGK-gamma)                                                                                                                                                        | Dgkg Dagk3                   | 110197 | 5.9418 | 0.010062 | 1.9973 | 0.083054 | 19.794405  | 19.6627525 | 19.6784625 | 19.0019625 |
| Q8BKZ9 | Pyruvate dehydrogenase protein X component, mitochondrial (Dihydrolipoamide dehydrogenase-binding protein of pyruvate dehydrogenase complex) (Lipoyl-containing pyruvate dehydrogenase complex component X)                                                                                | Pdhx                         | 27402  | 5.9323 | 0.010118 | 1.9949 | 0.083063 | 22.6232075 | 22.431385  | 22.4712975 | 22.307935  |
| P63082 | V-type proton ATPase 16 kDa proteolipid subunit (V-ATPase 16 kDa proteolipid subunit) (PL16) (Vacuolar proton pump 16 kDa proteolipid subunit)                                                                                                                                             | Atp6v0c Atp6c Atp6l Atp1 Mvp | 11984  | 5.9014 | 0.0103   | 1.9872 | 0.084107 | 23.5905625 | 22.7642975 | 23.6384625 | 22.865885  |
| P20029 | Endoplasmic reticulum chaperone BiP (EC 3.6.4.10) (78 kDa glucose-regulated protein) (GRP-78) (Binding-immunoglobulin protein) (BiP) (Heat shock protein 70 family protein 5) (HSP70 family protein 5) (Heat shock protein family A member 5) (Immunoglobulin heavy chain-binding protein) | Hspa5 Grp78                  | 14828  | 5.8667 | 0.010509 | 1.9784 | 0.08536  | 24.34168   | 24.291245  | 24.3653025 | 24.5272375 |
| Q61411 | GTPase HRas (H-Ras-1) (Transforming protein p21) (c-H-ras) (p21ras) [Cleaved into: GTPase HRas, N-terminally processed]                                                                                                                                                                    | Hras Hras1                   | 15461  | 5.8054 | 0.010891 | 1.9629 | 0.087996 | 21.8675125 | 21.8433175 | 21.9883775 | 21.772875  |
| Q9D3A9 | Protein tweety homolog 1 (mTTY1)                                                                                                                                                                                                                                                           | Ttyh1                        | 57776  | 5.7809 | 0.011049 | 1.9567 | 0.088416 | 20.89435   | 20.642965  | 20.45929   | 20.27998   |
| Q9CWF2 | Tubulin beta-2B chain                                                                                                                                                                                                                                                                      | Tubb2b                       | 73710  | 5.7792 | 0.011059 | 1.9563 | 0.088416 | 22.99725   | 22.678395  | 22.850735  | 22.587855  |
| Q60780 | Growth arrest-specific protein 7 (GAS-7)                                                                                                                                                                                                                                                   | Gas7                         |        | 5.7498 | 0.011252 | 1.9488 | 0.089488 | 20.0832925 | 19.976205  | 20.0311925 | 19.7189175 |
| P54071 | Isocitrate dehydrogenase [NADP], mitochondrial (IDH) (EC 1.1.1.42) (ICD-M) (IDP) (NADP(+)-specific ICDH) (Oxalosuccinate decarboxylase)                                                                                                                                                    | Idh2                         | 269951 | 5.7389 | 0.011324 | 1.946  | 0.089597 | 22.0956975 | 22.56157   | 22.192485  | 22.57145   |
| Q9CWZ7 | Gamma-soluble NSF attachment protein (SNAP-gamma) (N-ethylmaleimide-sensitive factor attachment protein gamma)                                                                                                                                                                             | Napg Snapp                   | 108123 | 5.682  | 0.01171  | 1.9314 | 0.092175 | 23.897085  | 23.7640075 | 23.80743   | 23.71939   |
| Q8K212 | Phosphofurin acidic cluster sorting protein 1 (PACS-1)                                                                                                                                                                                                                                     | Pacs1                        | 107975 | 5.6549 | 0.0119   | 1.9245 | 0.093185 | 19.7191    | 19.545045  | 19.7881875 | 19.471575  |
| P61021 | Ras-related protein Rab-5B                                                                                                                                                                                                                                                                 | Rab5b                        | 19344  | 5.6225 | 0.012131 | 1.9161 | 0.094509 | 20.8419625 | 20.733285  | 20.7684175 | 20.5458575 |
| Q8VDD5 | Myosin-9 (Cellular myosin heavy chain, type A) (Myosin heavy chain 9) (Myosin heavy chain, non-muscle IIa) (Non-muscle myosin heavy chain A) (NMMHC-A) (Non-muscle myosin heavy chain IIa) (NMMHC II-a) (NMMHC-IIA)                                                                        | Myh9                         | 17886  | 5.5236 | 0.012869 | 1.8904 | 0.098544 | 22.4430925 | 22.5494875 | 22.6690275 | 22.836965  |
| Q00915 | Retinol-binding protein 1 (Cellular retinol-binding protein) (CRBP) (Cellular retinol-binding protein I) (CRBP-I) (mCRBPI)                                                                                                                                                                 | Rbp1 Crbpi Rbp-1             | 19659  | 5.5157 | 0.012931 | 1.8884 | 0.098544 | 18.49154   | 18.7762925 | 19.02276   | 19.6864525 |
| P0C0S6 | Histone H2A.Z (H2A/z)                                                                                                                                                                                                                                                                      | H2az1 H2afz H2az             | 51788  | 5.5022 | 0.013036 | 1.8849 | 0.098544 | 20.951595  | 21.2052175 | 21.023955  | 21.27349   |
| Q8BWT1 | 3-ketoacyl-CoA thiolase, mitochondrial (EC 2.3.1.16) (Acetyl-CoA acetyltransferase) (EC 2.3.1.9) (Acetyl-CoA acyltransferase) (Acyl-CoA hydrolase, mitochondrial) (EC 3.1.2.-) (EC 3.1.2.1) (EC 3.1.2.2) (Beta-ketothiolase) (Mitochondrial 3-oxoacyl-CoA thiolase)                        | Acaa2                        | 52538  | 5.5368 | 0.012767 | 1.8939 | 0.098544 | 21.528675  | 21.2647875 | 21.3597925 | 20.8706075 |
| Q9D6M3 | Mitochondrial glutamate carrier 1 (GC-1) (Glutamate/H(+) symporter 1) (Solute carrier family 25 member 22)                                                                                                                                                                                 | Slc25a22 Gc1                 | 68267  | 5.5048 | 0.013016 | 1.8855 | 0.098544 | 24.8398525 | 24.746705  | 24.8474625 | 24.6917275 |
| Q91VW3 | SH3 domain-binding glutamic acid-rich-like protein 3                                                                                                                                                                                                                                       | Sh3bgrl3                     | 73723  | 5.5052 | 0.013012 | 1.8857 | 0.098544 | 22.376265  | 22.187665  | 22.4745675 | 22.2201075 |
| Q60854 | Serpin B6 (Placental thrombin inhibitor) (Proteinase inhibitor 6) (PI-6)                                                                                                                                                                                                                   | Serpinb6 Serpinb6a Spi3      | 20719  | 5.4796 | 0.013215 | 1.8789 | 0.099038 | 21.43811   | 21.19337   | 21.211965  | 21.2635575 |

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| P12970 | 60S ribosomal protein L7a (Surfeit locus protein 3)                                                                                                                                                                                      | Rpl7a Surf-3 Surf3         | 27176  | 5.4775 | 0.013231 | 1.8784 | 0.099038 | 22.0779325 | 22.126045  | 21.9669325 | 22.2910475 |
| Q9CQI6 | Coactosin-like protein                                                                                                                                                                                                                   | Cotl1 Clp                  | 72042  | 5.4691 | 0.013299 | 1.8762 | 0.099058 | 22.4871725 | 22.6161125 | 22.5032375 | 22.803365  |
| P07356 | Annexin A2 (Annexin II) (Annexin-2) (Calpactin I heavy chain) (Calpactin-1 heavy chain) (Chromobindin-8) (Lipocortin II) (Placental anticoagulant protein IV) (PAP-IV) (Protein I) (p36)                                                 | Anxa2 Anx2 Cal1h           | 12306  | 5.4455 | 0.013489 | 1.87   | 0.099332 | 18.15158   | 18.4752975 | 18.91306   | 19.579185  |
| P63011 | Ras-related protein Rab-3A                                                                                                                                                                                                               | Rab3a                      | 19339  | 5.4416 | 0.013521 | 1.869  | 0.099332 | 26.398095  | 26.28494   | 26.3180675 | 26.1208975 |
| P62259 | 14-3-3 protein epsilon (14-3-3E)                                                                                                                                                                                                         | Ywhae                      | 22627  | 5.4405 | 0.01353  | 1.8687 | 0.099332 | 28.12331   | 28.0288    | 28.155435  | 27.9791475 |
| Q9EQF6 | Dihydropyrimidinase-related protein 5 (DRP-5) (Collapsin response mediator protein 5) (CRMP-5)                                                                                                                                           | Dpysl5 Crmp5               | 65254  | 5.4226 | 0.013678 | 1.864  | 0.099933 | 23.7360775 | 23.5063925 | 23.7570075 | 23.2860075 |
| P24270 | Catalase (EC 1.11.1.6)                                                                                                                                                                                                                   | Cat Cas-1 Cas1             | 12359  | 5.4077 | 0.013802 | 1.8601 | 0.10036  | 19.18145   | 19.04133   | 19.319695  | 19.5534675 |
| O08532 | Voltage-dependent calcium channel subunit alpha-2/delta-1 (Voltage-gated calcium channel subunit alpha-2/delta-1) [Cleaved into: Voltage-dependent calcium channel subunit alpha-2-1; Voltage-dependent calcium channel subunit delta-1] | Cacna2d1 Cacna2            | 12293  | 5.3883 | 0.013965 | 1.855  | 0.10106  | 22.4158375 | 22.3775675 | 22.530655  | 22.2252975 |
| P31786 | Acyl-CoA-binding protein (ACBP) (Diazepam-binding inhibitor) (DBI) (Endozepine) (EP)                                                                                                                                                     | Dbi                        | 13167  | 5.3441 | 0.014347 | 1.8432 | 0.10301  | 23.5923675 | 23.790225  | 23.5175    | 23.9351425 |
| P62855 | 40S ribosomal protein S26                                                                                                                                                                                                                | Rps26                      | 27370  | 5.3415 | 0.014369 | 1.8426 | 0.10301  | 20.69866   | 20.754135  | 20.79754   | 20.9714675 |
| Q9CYT6 | Adenylyl cyclase-associated protein 2 (CAP 2)                                                                                                                                                                                            | Cap2                       | 67252  | 5.3299 | 0.014472 | 1.8395 | 0.10327  | 22.9266775 | 22.76914   | 22.92898   | 22.68561   |
| Q6R0H7 | Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas (Adenylate cyclase-stimulating G alpha protein) (Extra large alphas protein) (XLalphas)                                                                              | Gnas Gnas1                 | 14683  | 5.3116 | 0.014635 | 1.8346 | 0.10377  | 21.1394325 | 21.357435  | 21.2484325 | 21.30768   |
| P67778 | Prohibitin (B-cell receptor-associated protein 32) (BAP 32)                                                                                                                                                                              | Phb                        | 18673  | 5.3029 | 0.014713 | 1.8323 | 0.10377  | 23.76142   | 23.8959975 | 23.738985  | 23.866535  |
| Q9QYX7 | Protein piccolo (Aczonin) (Brain-derived HLMN protein) (Multidomain presynaptic cytomatrix protein)                                                                                                                                      | Pclo Acz                   | 26875  | 5.2991 | 0.014747 | 1.8313 | 0.10377  | 22.628785  | 22.49775   | 22.62817   | 22.2733025 |
| P35700 | Peroxiredoxin-1 (EC 1.11.1.15) (Macrophage 23 kDa stress protein) (Osteoblast-specific factor 3) (OSF-3) (Thioredoxin peroxidase 2) (Thioredoxin-dependent peroxide reductase 2)                                                         | Prdx1 Msp23 Paga Tdp2      | 18477  | 5.2841 | 0.014884 | 1.8273 | 0.10425  | 24.572325  | 24.7003225 | 24.43803   | 24.89176   |
| Q63912 | Oligodendrocyte-myelin glycoprotein                                                                                                                                                                                                      | Omg Omgp                   | 18377  | 5.2394 | 0.0153   | 1.8153 | 0.10668  | 20.596335  | 20.6552775 | 20.647475  | 20.8117575 |
| P22599 | Alpha-1-antitrypsin 1-2 (AAT) (Alpha-1 protease inhibitor 2) (Alpha-1-antiproteinase) (Serine protease inhibitor 1-2) (Serine protease inhibitor A1b) (Serpina A1b)                                                                      | Serpina1b Aat2 Dom2 Spi1-2 | 20701  | 5.1814 | 0.015859 | 1.7997 | 0.10911  | 19.4689625 | 21.1108375 | 19.6850275 | 20.7400225 |
| Q00897 | Alpha-1-antitrypsin 1-4 (Alpha-1 protease inhibitor 4) (Serine protease inhibitor 1-4) (Serine protease inhibitor A1d) (Serpina A1d)                                                                                                     | Serpina1d Dom4 Spi1-4      | 20703  | 5.1684 | 0.015987 | 1.7962 | 0.10911  | 21.8422475 | 22.98512   | 21.588345  | 22.8601775 |
| P56695 | Wolframin                                                                                                                                                                                                                                | Wfs1                       | 22393  | 5.1775 | 0.015897 | 1.7987 | 0.10911  | 20.032935  | 19.9452775 | 20.3576075 | 20.3938875 |
| Q9CZM2 | 60S ribosomal protein L15                                                                                                                                                                                                                | Rpl15                      | 66480  | 5.1636 | 0.016035 | 1.7949 | 0.10911  | 21.12435   | 21.145965  | 21.17344   | 21.36444   |
| Q91V92 | ATP-citrate synthase (EC 2.3.3.8) (ATP-citrate (pro-S)-lyase) (Citrate cleavage enzyme)                                                                                                                                                  | Acly                       | 104112 | 5.1522 | 0.016149 | 1.7919 | 0.10911  | 22.6008775 | 22.5285525 | 22.79023   | 22.6163925 |
| Q8R127 | Saccharopine dehydrogenase-like oxidoreductase (EC 1.-.-.-)                                                                                                                                                                              | Sccpdh                     | 109232 | 5.175  | 0.015922 | 1.798  | 0.10911  | 19.585905  | 19.513705  | 19.937985  | 19.6114675 |
| Q8BWF0 | Succinate-semialdehyde dehydrogenase, mitochondrial (EC 1.2.1.24) (Aldehyde                                                                                                                                                              | Aldh5a1                    | 214579 | 5.1586 | 0.016085 | 1.7936 | 0.10911  | 24.0662825 | 24.147575  | 24.0076425 | 24.1122625 |

|        |                                                                                                                                                                                                                                                   |                          |        |        |          |        |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | dehydrogenase family 5 member A1) (NAD(+)-dependent succinic semialdehyde dehydrogenase)                                                                                                                                                          |                          |        |        |          |        |         |            |            |            |            |
| P29699 | Alpha-2-HS-glycoprotein (Countertrypsin) (Fetuin-A)                                                                                                                                                                                               | Ahsg Fetua               | 11625  | 5.1339 | 0.016335 | 1.7869 | 0.1094  | 18.878725  | 20.8020275 | 18.9249625 | 20.465835  |
| O35633 | Vesicular inhibitory amino acid transporter (GABA and glycine transporter) (Solute carrier family 32 member 1) (Vesicular GABA transporter) (mVGAT) (mVIAAT)                                                                                      | Slc32a1 Vgat Viaat       | 22348  | 5.1391 | 0.016281 | 1.7883 | 0.1094  | 21.85051   | 21.69924   | 21.6162925 | 21.536195  |
| O08529 | Calpain-2 catalytic subunit (EC 3.4.22.53) (80 kDa M-calpain subunit) (CALP80) (Calcium-activated neutral proteinase 2) (CANP 2) (Calpain M-type) (Calpain-2 large subunit) (Millimolar-calpain) (M-calpain)                                      | Capn2                    | 12334  | 5.0957 | 0.016729 | 1.7765 | 0.11155 | 20.9928275 | 21.0884675 | 21.1473975 | 21.454575  |
| Q9CPU4 | Microsomal glutathione S-transferase 3 (Microsomal GST-3) (Glutathione peroxidase MGST3) (EC 1.11.1.-) (Microsomal glutathione S-transferase III) (Microsomal GST-III)                                                                            | Mgst3                    | 66447  | 5.0834 | 0.016858 | 1.7732 | 0.11192 | 20.7899    | 20.3282775 | 20.9891825 | 20.3395025 |
| Q05816 | Fatty acid-binding protein 5 (Epidermal-type fatty acid-binding protein) (E-FABP) (Fatty acid-binding protein, epidermal) (Keratinocyte lipid-binding protein) (Psoriasis-associated fatty acid-binding protein homolog) (PA-FABP)                | Fabp5 Fabpe Klbp Mal1    | 16592  | 5.0646 | 0.017059 | 1.7681 | 0.11197 | 23.593135  | 23.3580075 | 23.6313625 | 23.67675   |
| Q9Z2U1 | Proteasome subunit alpha type-5 (EC 3.4.25.1) (Macropain zeta chain) (Multicatalytic endopeptidase complex zeta chain) (Proteasome zeta chain)                                                                                                    | Psma5                    | 26442  | 5.061  | 0.017097 | 1.7671 | 0.11197 | 21.828235  | 21.666245  | 21.750805  | 21.8207725 |
| P57746 | V-type proton ATPase subunit D (V-ATPase subunit D) (V-ATPase 28 kDa accessory protein) (Vacuolar proton pump subunit D)                                                                                                                          | Atp6v1d Atp6m Vatd       | 73834  | 5.0579 | 0.017131 | 1.7662 | 0.11197 | 23.4663325 | 23.61701   | 23.5663925 | 23.80509   |
| Q61753 | D-3-phosphoglycerate dehydrogenase (3-PGDH) (EC 1.1.1.95) (A10)                                                                                                                                                                                   | Phgdh                    | 236539 | 5.0553 | 0.017158 | 1.7655 | 0.11197 | 23.27424   | 23.3939375 | 23.196055  | 23.5837025 |
| Q60625 | Intercellular adhesion molecule 5 (ICAM-5) (Telencephalin)                                                                                                                                                                                        | Icam5 Icam3 Tlcn         | 15898  | 5.0335 | 0.017395 | 1.7596 | 0.11266 | 23.2224475 | 23.090175  | 23.1767225 | 22.78432   |
| Q8BLQ9 | Cell adhesion molecule 2 (Immunoglobulin superfamily member 4D) (IgSF4D) (Nectin-like protein 3) (NECL-3) (Synaptic cell adhesion molecule 2) (SynCAM 2)                                                                                          | Cadm2 Igsf4d Nectl3      | 239857 | 5.032  | 0.017412 | 1.7592 | 0.11266 | 23.454855  | 23.294     | 23.519685  | 23.13701   |
| Q64105 | Sepiapterin reductase (SPR) (EC 1.1.1.153)                                                                                                                                                                                                        | Spr                      |        | 4.9923 | 0.017854 | 1.7483 | 0.11287 | 21.95332   | 21.663005  | 21.8374275 | 21.7376375 |
| P84084 | ADP-ribosylation factor 5                                                                                                                                                                                                                         | Arf5                     | 11844  | 4.9711 | 0.018095 | 1.7424 | 0.11287 | 21.8894825 | 21.701765  | 21.820265  | 21.5921125 |
| P26883 | Peptidyl-prolyl cis-trans isomerase FKBP1A (PPIase FKBP1A) (EC 5.2.1.8) (12 kDa FK506-binding protein) (12 kDa FKBP) (FKBP-12) (Calstabin-1) (FK506-binding protein 1A) (FKBP-1A) (Immunophilin FKBP12) (Rotamase)                                | Fkbp1a Fkbp1             | 14225  | 5.0184 | 0.017562 | 1.7554 | 0.11287 | 24.070705  | 23.8529725 | 23.8732825 | 23.7424725 |
| P09103 | Protein disulfide-isomerase (PDI) (EC 5.3.4.1) (Cellular thyroid hormone-binding protein) (Endoplasmic reticulum resident protein 59) (ER protein 59) (ERp59) (Prolyl 4-hydroxylase subunit beta) (p55)                                           | P4hb Pdia1               | 18453  | 4.9671 | 0.018141 | 1.7413 | 0.11287 | 21.0979375 | 21.22766   | 21.2534325 | 21.4852225 |
| P35293 | Ras-related protein Rab-18                                                                                                                                                                                                                        | Rab18                    | 19330  | 4.9678 | 0.018133 | 1.7415 | 0.11287 | 21.715335  | 21.81428   | 21.5383525 | 21.7513025 |
| P62702 | 40S ribosomal protein S4, X isoform                                                                                                                                                                                                               | Rps4x Rps4               | 20102  | 4.9634 | 0.018183 | 1.7403 | 0.11287 | 21.5735475 | 21.3925575 | 21.4896175 | 21.6516875 |
| P08113 | Endoplasmic reticulum protein 94 (94 kDa glucose-regulated protein) (GRP-94) (Endoplasmic reticulum resident protein 99) (ERp99) (Heat shock protein 90 kDa beta member 1) (Polymorphic tumor rejection antigen 1) (Tumor rejection antigen gp96) | Hsp90b1 Grp94 Tra-1 Tra1 | 22027  | 5.0042 | 0.01772  | 1.7515 | 0.11287 | 23.19503   | 23.12479   | 23.2415225 | 23.3973625 |
| Q9QYG0 | Protein NDRG2 (N-myc downstream-regulated gene 2 protein) (Protein Ndr2)                                                                                                                                                                          | Ndr2g2 Kiaa1248 Ndr2     | 29811  | 4.9696 | 0.018112 | 1.742  | 0.11287 | 23.5586875 | 23.865035  | 23.75811   | 23.8634425 |

|        |                                                                                                                                                                                                              |                            |           |        |          |        |         |            |            |            |            |
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| G5E829 | Plasma membrane calcium-transporting ATPase 1 (EC 7.2.2.10) (Plasma membrane calcium ATPase isoform 1) (PMCA1) (Plasma membrane calcium pump isoform 1)                                                      | Atp2b1                     | 67972     | 4.9691 | 0.018119 | 1.7419 | 0.11287 | 26.0039875 | 25.8739475 | 25.90278   | 25.77942   |
| Q3ULJ0 | Glycerol-3-phosphate dehydrogenase 1-like protein (EC 1.1.1.8)                                                                                                                                               | Gpd1l Kiaa0089             | 333433    | 4.9712 | 0.018093 | 1.7425 | 0.11287 | 22.3588075 | 22.3205825 | 22.2518125 | 22.0853175 |
| P61226 | Ras-related protein Rap-2b                                                                                                                                                                                   | Rap2b                      | 74012     | 4.9568 | 0.01826  | 1.7385 | 0.11289 | 22.6656175 | 22.4555275 | 22.6172175 | 22.3986125 |
| P40124 | Adenylyl cyclase-associated protein 1 (CAP 1)                                                                                                                                                                | Cap1 Cap                   | 12331     | 4.9341 | 0.018526 | 1.7322 | 0.11407 | 24.298555  | 24.3078775 | 24.408485  | 24.4854875 |
| Q5SRX1 | TOM1-like protein 2 (Target of Myb-like protein 2)                                                                                                                                                           | Tom1l2                     | 216810    | 4.915  | 0.018752 | 1.7269 | 0.115   | 21.9167375 | 22.201385  | 21.89811   | 22.13771   |
| Q9JIG8 | PRA1 family protein 2                                                                                                                                                                                        | Praf2 DXImx39e             | 54637     | 4.9041 | 0.018882 | 1.7239 | 0.11533 | 20.4244    | 20.172835  | 20.336645  | 20.05997   |
| P63321 | Ras-related protein Ral-A                                                                                                                                                                                    | Rala Ral Ral-a             | 56044     | 4.8972 | 0.018966 | 1.722  | 0.11538 | 22.4527375 | 22.240145  | 22.32121   | 22.248525  |
| Q9D6U8 | Protein FAM162A (E2-induced gene 5 protein homolog) (Growth and transformation-dependent protein) (HGTD-P)                                                                                                   | Fam162a E2ig5              | 70186     | 4.835  | 0.019737 | 1.7047 | 0.1196  | 20.0379675 | 19.82956   | 19.9759575 | 19.638855  |
| P59999 | Actin-related protein 2/3 complex subunit 4 (Arp2/3 complex 20 kDa subunit) (p20-ARC)                                                                                                                        | Arpc4 Arc20                | 68089     | 4.8203 | 0.019925 | 1.7006 | 0.11979 | 23.94581   | 23.8375275 | 23.760935  | 23.703265  |
| Q6PHN9 | Ras-related protein Rab-35                                                                                                                                                                                   | Rab35                      | 77407     | 4.8207 | 0.019921 | 1.7007 | 0.11979 | 21.04917   | 20.858105  | 21.081815  | 20.874     |
| P60879 | Synaptosomal-associated protein 25 (SNAP-25) (Super protein) (SUP) (Synaptosomal-associated 25 kDa protein)                                                                                                  | Snap25 Snap                | 20614     | 4.7809 | 0.020438 | 1.6896 | 0.12191 | 25.440285  | 25.1915725 | 25.3940825 | 25.00534   |
| Q6ZWN5 | 40S ribosomal protein S9                                                                                                                                                                                     | Rps9                       | 76846     | 4.7862 | 0.020368 | 1.6911 | 0.12191 | 22.358525  | 22.385335  | 22.2929775 | 22.558845  |
| P62242 | 40S ribosomal protein S8                                                                                                                                                                                     | Rps8                       | 20116     | 4.7707 | 0.020573 | 1.6867 | 0.12224 | 21.7119325 | 21.8448825 | 21.8224675 | 22.123695  |
| Q9Z140 | Copine-6 (Copine VI) (Neuronal-copine) (N-copine)                                                                                                                                                            | Cpne6                      | 12891     | 4.7331 | 0.021081 | 1.6761 | 0.12381 | 24.1304475 | 24.0500775 | 23.93543   | 23.8049975 |
| Q6PER3 | Microtubule-associated protein RP/EB family member 3 (EB1 protein family member 3) (EBF3) (End-binding protein 3) (EB3) (RP3)                                                                                | Mapre3                     | 100732    | 4.7429 | 0.020948 | 1.6789 | 0.12381 | 22.1657175 | 22.161015  | 22.1751425 | 22.0484125 |
| Q8R3V5 | Endophilin-B2 (SH3 domain-containing GRB2-like protein B2)                                                                                                                                                   | Sh3glb2 Kiaa1848           | 227700    | 4.7356 | 0.021047 | 1.6768 | 0.12381 | 22.35963   | 22.3901725 | 22.434155  | 22.2705175 |
| Q62426 | Cystatin-B (Stefin-B)                                                                                                                                                                                        | Cstb Cst6 Stfb             | 13014     | 4.7267 | 0.021169 | 1.6743 | 0.12385 | 20.4525    | 20.89147   | 20.7658625 | 21.18012   |
| P02301 | Histone H3.3C (Embryonic)                                                                                                                                                                                    | H3f3c Gm14384              |           | 4.7159 | 0.021319 | 1.6712 | 0.12425 | 25.1599025 | 25.30904   | 25.0927275 | 25.43784   |
| P05480 | Neuronal proto-oncogene tyrosine-protein kinase Src (EC 2.7.10.2) (Proto-oncogene c-Src) (pp60c-src) (p60-Src)                                                                                               | Src                        | 20779     | 4.7041 | 0.021482 | 1.6679 | 0.12473 | 21.68244   | 21.4589875 | 21.5792925 | 21.34649   |
| Q60605 | Myosin light polypeptide 6 (17 kDa myosin light chain) (LC17) (Myosin light chain 3) (MLC-3) (Myosin light chain alkali 3) (Myosin light chain A3) (Smooth muscle and nonmuscle myosin light chain alkali 6) | Myl6 Myln                  | 17904     | 4.6906 | 0.021672 | 1.6641 | 0.12498 | 22.4862425 | 22.5478575 | 22.59829   | 22.788455  |
| Q8BPN8 | DmX-like protein 2 (Rabconnectin-3)                                                                                                                                                                          | Dmxl2 Kiaa0856             | 235380    | 4.6894 | 0.02169  | 1.6637 | 0.12498 | 23.593955  | 23.509045  | 23.563615  | 23.3480075 |
| P53810 | Phosphatidylinositol transfer protein alpha isoform (PI-TP-alpha) (PtdIns transfer protein alpha) (PtdInsTP alpha)                                                                                           | Pitpna Pitpn               | 18738     | 4.6572 | 0.02215  | 1.6546 | 0.12716 | 22.2865    | 22.1244125 | 22.3000125 | 22.1132325 |
| P63005 | Platelet-activating factor acetylhydrolase IB subunit alpha (Lissencephaly-1 protein) (LIS-1) (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha)                      | Pafah1b1 Lis-1 Lis1 Pafaha | 18472     | 4.5914 | 0.02313  | 1.6358 | 0.13228 | 22.8326175 | 22.669995  | 22.694605  | 22.784755  |
| P47962 | 60S ribosomal protein L5                                                                                                                                                                                     | Rpl5                       | 100503670 | 4.5711 | 0.023442 | 1.63   | 0.13356 | 20.6605825 | 20.2151625 | 20.5735775 | 20.472785  |

|        |                                                                                                                                                                                                                                                     |                                               |                                 |        |          |        |         |            |            |            |            |
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| Q9D8E6 | 60S ribosomal protein L4                                                                                                                                                                                                                            | Rpl4                                          | 67891                           | 4.5309 | 0.024074 | 1.6184 | 0.13565 | 22.4456925 | 22.4633675 | 22.486515  | 22.6557075 |
| Q91ZJ5 | UTP--glucose-1-phosphate uridylyltransferase (EC 2.7.7.9) (UDP-glucose pyrophosphorylase) (UDPGP) (UGPase)                                                                                                                                          | Ugp2                                          | 216558                          | 4.5318 | 0.02406  | 1.6187 | 0.13565 | 21.3563675 | 21.5069775 | 21.522505  | 21.65388   |
| P85094 | Isochorismatase domain-containing protein 2A                                                                                                                                                                                                        | Isoc2a Isoc2                                  | 664994                          | 4.5342 | 0.024021 | 1.6194 | 0.13565 | 19.737965  | 20.3838525 | 20.145515  | 20.2585725 |
| O89112 | Glutathione S-transferase LANCL1 (EC 2.5.1.18) (40 kDa erythrocyte membrane protein) (p40) (LanC-like protein 1)                                                                                                                                    | Lanc1 Gpr69a                                  | 14768                           | 4.5121 | 0.024377 | 1.613  | 0.13685 | 21.76858   | 21.71156   | 21.6274    | 21.4480625 |
| P62627 | Dynein light chain roadblock-type 1 (Dynein light chain 2A, cytoplasmic)                                                                                                                                                                            | Dynlr1 Dncl2a Dncl2a                          | 67068                           | 4.4767 | 0.024958 | 1.6028 | 0.1396  | 21.357645  | 21.1637575 | 21.509855  | 21.1899275 |
| P02088 | Hemoglobin subunit beta-1 (Beta-1-globin) (Hemoglobin beta-1 chain) (Hemoglobin beta-major chain)                                                                                                                                                   | Hbb-b1                                        | 100503605<br>101488143<br>15129 | 4.4606 | 0.025229 | 1.5981 | 0.14009 | 28.0426    | 27.3383725 | 27.757535  | 27.873235  |
| Q9D415 | Disks large-associated protein 1 (DAP-1) (Guanylate kinase-associated protein) (PSD-95/SAP90-binding protein 1) (SAP90/PSD-95-associated protein 1) (SAPAP1)                                                                                        | Dlgap1 Gkap Kiaa4162                          | 224997                          | 4.4618 | 0.025208 | 1.5985 | 0.14009 | 19.30364   | 18.6879525 | 18.987495  | 18.3513975 |
| Q8QZT1 | Acetyl-CoA acetyltransferase, mitochondrial (EC 2.3.1.9) (Acetoacetyl-CoA thiolase)                                                                                                                                                                 | Acat1                                         | 110446                          | 4.4507 | 0.025396 | 1.5952 | 0.14051 | 24.7344775 | 24.6296825 | 24.6758125 | 24.6053875 |
| Q8R5M8 | Cell adhesion molecule 1 (Immunoglobulin superfamily member 4) (IgSF4) (Nectin-like protein 2) (NECL-2) (Spermatogenic immunoglobulin superfamily) (SgIgSF) (Synaptic cell adhesion molecule) (SynCAM) (Tumor suppressor in lung cancer 1) (TSLC-1) | Cadm1 Igsf4 Nectl2 Ra175 Syncam SynCam1 Tslc1 | 54725                           | 4.4323 | 0.02571  | 1.5899 | 0.14173 | 22.3542825 | 22.255015  | 22.4242475 | 22.1056375 |
| Q8R3Z5 | Voltage-dependent L-type calcium channel subunit beta-1 (CAB1) (Calcium channel voltage-dependent subunit beta 1)                                                                                                                                   | Cacnb1 Cacnlb1                                | 12295                           | 4.4105 | 0.026089 | 1.5835 | 0.14279 | 19.4441325 | 19.4798975 | 19.42252   | 18.8385875 |
| Q9QXS6 | Drebrin (Developmentally-regulated brain protein)                                                                                                                                                                                                   | Dbrn1 Drba                                    | 56320                           | 4.4132 | 0.026042 | 1.5843 | 0.14279 | 24.0005925 | 23.9278975 | 23.96286   | 23.8182875 |
| Q8K3J1 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (Complex I-23kD) (CI-23kD) (NADH-ubiquinone oxidoreductase 23 kDa subunit)                                                                          | Ndufs8                                        | 225887                          | 4.3997 | 0.026279 | 1.5804 | 0.14331 | 22.09563   | 21.8576325 | 21.9285625 | 21.7252325 |
| Q9D8W7 | OCIA domain-containing protein 2                                                                                                                                                                                                                    | Ociad2                                        | 433904                          | 4.3938 | 0.026383 | 1.5787 | 0.14337 | 20.8713425 | 20.794375  | 20.9777125 | 21.04034   |
| P62852 | 40S ribosomal protein S25                                                                                                                                                                                                                           | Rps25                                         | 75617                           | 4.3762 | 0.026698 | 1.5735 | 0.14457 | 20.863775  | 20.818035  | 20.6527975 | 21.0362925 |
| Q6PH08 | ERC protein 2 (CAZ-associated structural protein 1) (CAST1)                                                                                                                                                                                         | Erc2 Cast1 D14Erd171e Kiaa0378                | 238988                          | 4.3604 | 0.026985 | 1.5689 | 0.14561 | 20.924385  | 21.42662   | 20.7500125 | 21.24796   |
| Q9JKR6 | Hypoxia up-regulated protein 1 (GRP-170) (140 kDa Ca(2+)-binding protein) (CBP-140)                                                                                                                                                                 | Hyou1 Grp170                                  | 12282                           | 4.3207 | 0.02772  | 1.5572 | 0.14748 | 21.8124675 | 21.62012   | 21.830715  | 21.6797675 |
| P28663 | Beta-soluble NSF attachment protein (SNAP-beta) (Brain protein I47) (N-ethylmaleimide-sensitive factor attachment protein beta)                                                                                                                     | Napb Snapb                                    | 17957                           | 4.3245 | 0.027649 | 1.5583 | 0.14748 | 25.03089   | 24.988275  | 25.14937   | 25.064265  |
| P70175 | Disks large homolog 3 (Synapse-associated protein 102) (SAP-102) (SAP102)                                                                                                                                                                           | Dlg3 Dlg3                                     | 53310                           | 4.3225 | 0.027686 | 1.5577 | 0.14748 | 21.200495  | 21.1651575 | 21.1161875 | 20.825025  |
| Q9CQI3 | Glia maturation factor beta (GMF-beta)                                                                                                                                                                                                              | Gmfb                                          | 63985                           | 4.3264 | 0.027614 | 1.5589 | 0.14748 | 22.30503   | 22.0632375 | 22.3235725 | 21.8953575 |
| O08917 | Flotillin-1                                                                                                                                                                                                                                         | Flot1                                         | 14251                           | 4.2972 | 0.028166 | 1.5503 | 0.14921 | 21.79993   | 21.60186   | 21.54332   | 21.3680575 |
| P10649 | Glutathione S-transferase Mu 1 (EC 2.5.1.18) (GST 1-1) (GST class-mu 1) (Glutathione S-transferase GT8.7) (pmGT10)                                                                                                                                  | Gstm1                                         | 14862                           | 4.2912 | 0.028281 | 1.5485 | 0.14921 | 25.0651075 | 25.221155  | 24.950385  | 25.02841   |
| Q9CPW4 | Actin-related protein 2/3 complex subunit 5 (Arp2/3 complex 16 kDa subunit) (p16-ARC)                                                                                                                                                               | Arpc5                                         | 67771                           | 4.2883 | 0.028337 | 1.5476 | 0.14921 | 22.4003475 | 22.261645  | 22.2540625 | 22.06224   |
| Q9JI46 | Diphosphoinositol polyphosphate phosphohydrolase 1 (DIPP-1) (muDIPP1) (EC 3.6.1.52) (Diadenosine 5',5''-P1,P6-hexaphosphate hydrolase 1) (EC 3.6.1.-)                                                                                               | Nudt3 Dipp Dipp1                              | 56409                           | 4.2813 | 0.028473 | 1.5456 | 0.14941 | 21.6416825 | 21.374705  | 21.3852    | 21.2871225 |

|        |                                                                                                                                                                                                                                                                                                             |                                 |        |        |          |        |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | (Nucleoside diphosphate-linked moiety X motif 3) (Nudix motif 3)                                                                                                                                                                                                                                            |                                 |        |        |          |        |         |            |            |            |            |
| P45376 | Aldo-keto reductase family 1 member B1 (EC 1.1.1.300) (EC 1.1.1.372) (EC 1.1.1.54) (Aldehyde reductase) (Aldo-keto reductase family 1 member B3) (Aldose reductase) (AR) (EC 1.1.1.21)                                                                                                                      | Akr1b1 Akr1b3 Aldor1 Aldr1 Alr2 | 11677  | 4.272  | 0.028654 | 1.5428 | 0.14985 | 22.9385275 | 23.01835   | 22.9162325 | 23.12233   |
| Q9D0K2 | Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial (EC 2.8.3.5) (3-oxoacid CoA-transferase 1) (Somatic-type succinyl-CoA:3-oxoacid CoA-transferase) (SCOT-s)                                                                                                                                   | Oxct1 Oxct Scot                 | 67041  | 4.2659 | 0.028773 | 1.541  | 0.14995 | 24.585     | 24.47894   | 24.5899325 | 24.3836725 |
| P43277 | Histone H1.3 (H1 VAR.4) (H1d)                                                                                                                                                                                                                                                                               | H1-3 H1f3 Hist1h1d              | 14957  | 4.2592 | 0.028905 | 1.539  | 0.15013 | 24.1079125 | 24.248135  | 24.013935  | 24.4970675 |
| P17751 | Triosephosphate isomerase (TIM) (EC 5.3.1.1) (Methylglyoxal synthase) (EC 4.2.3.3) (Triosephosphate isomerase)                                                                                                                                                                                              | Tpi1 Tpi                        | 21991  | 4.2504 | 0.029079 | 1.5364 | 0.15026 | 27.00417   | 27.012755  | 27.01859   | 26.8939225 |
| Q9DBF1 | Alpha-aminoacidic semialdehyde dehydrogenase (Alpha-AASA dehydrogenase) (EC 1.2.1.31) (Aldehyde dehydrogenase family 7 member A1) (EC 1.2.1.3) (Antiquitin-1) (Betaine aldehyde dehydrogenase) (EC 1.2.1.8) (Delta1-piperidine-6-carboxylate dehydrogenase) (P6c dehydrogenase)                             | Aldh7a1 Ald7a1                  | 110695 | 4.248  | 0.029128 | 1.5357 | 0.15026 | 21.7311675 | 21.9442    | 21.7732975 | 21.8722225 |
| Q00623 | Apolipoprotein A-I (Apo-AI) (ApoA-I) (Apolipoprotein A1) [Cleaved into: Proapolipoprotein A-I (ProapoA-I); Truncated apolipoprotein A-I]                                                                                                                                                                    | Apoa1                           | 11806  | 4.231  | 0.029468 | 1.5306 | 0.151   | 21.656485  | 22.5775475 | 21.0880375 | 22.4620975 |
| P56379 | ATP synthase subunit ATP5MPL, mitochondrial (6.8 kDa mitochondrial proteolipid protein) (MLQ)                                                                                                                                                                                                               | Atp5mpl Mp68                    | 70257  | 4.2324 | 0.02944  | 1.5311 | 0.151   | 21.29232   | 21.2348325 | 20.9525025 | 21.1120575 |
| Q9Z1G4 | V-type proton ATPase 116 kDa subunit a isoform 1 (V-ATPase 116 kDa isoform a1) (Clathrin-coated vesicle/synaptic vesicle proton pump 116 kDa subunit) (Vacuolar adenosine triphosphatase subunit Ac116) (Vacuolar proton pump subunit 1) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 1) | Atp6v0a1 Atp6n1                 | 11975  | 4.2107 | 0.029882 | 1.5246 | 0.15207 | 25.51352   | 25.462215  | 25.5555425 | 25.34701   |
| P56565 | Protein S100-A1 (S-100 protein alpha chain) (S-100 protein subunit alpha) (S100 calcium-binding protein A1)                                                                                                                                                                                                 | S100a1                          | 20193  | 4.2013 | 0.030076 | 1.5218 | 0.15207 | 19.9778325 | 20.41802   | 20.31891   | 20.454835  |
| O70400 | PDZ and LIM domain protein 1 (C-terminal LIM domain protein 1) (Elfin) (LIM domain protein CLP-36)                                                                                                                                                                                                          | Pdlim1 Clim1                    | 54132  | 4.2019 | 0.030062 | 1.522  | 0.15207 | 17.329145  | 18.273045  | 18.1148025 | 18.4734175 |
| E9PUL5 | Proline-rich transmembrane protein 2 (Dispanin subfamily B member 3) (DSPB3)                                                                                                                                                                                                                                | Prt2                            | 69017  | 4.2113 | 0.029869 | 1.5248 | 0.15207 | 22.9753275 | 22.9201025 | 23.067805  | 22.722335  |
| P21279 | Guanine nucleotide-binding protein G(q) subunit alpha (Guanine nucleotide-binding protein alpha-q)                                                                                                                                                                                                          | Gnaq                            | 14682  | 4.1778 | 0.030566 | 1.5148 | 0.15362 | 23.21186   | 23.1873125 | 23.1207825 | 23.072645  |
| Q9CZY3 | Ubiquitin-conjugating enzyme E2 variant 1 (UEV-1) (CROC-1)                                                                                                                                                                                                                                                  | Ube2v1 Croc1                    | 66589  | 4.177  | 0.030583 | 1.5145 | 0.15362 | 22.5050725 | 22.3583325 | 22.4242525 | 22.30689   |
| Q8BXR1 | Probable cationic amino acid transporter (Solute carrier family 7 member 14)                                                                                                                                                                                                                                | Slc7a14 Kiaa1613                | 241919 | 4.1669 | 0.030796 | 1.5115 | 0.15418 | 20.262785  | 20.1770925 | 20.50461   | 19.9999725 |
| Q61490 | CD166 antigen (Activated leukocyte cell adhesion molecule) (BEN) (Protein DM-GRASP) (CD antigen CD166)                                                                                                                                                                                                      | Alcam                           | 11658  | 4.1562 | 0.031024 | 1.5083 | 0.15437 | 21.962425  | 21.944905  | 22.1133575 | 21.7700125 |
| P61205 | ADP-ribosylation factor 3                                                                                                                                                                                                                                                                                   | Arf3                            | 11842  | 4.1424 | 0.031323 | 1.5041 | 0.15437 | 26.06632   | 26.0547    | 26.076005  | 25.89578   |
| P51410 | 60S ribosomal protein L9                                                                                                                                                                                                                                                                                    | Rpl9                            | 20005  | 4.1369 | 0.031441 | 1.5025 | 0.15437 | 20.1947175 | 20.6071475 | 20.4581175 | 20.7743025 |
| Q9Z239 | Phospholemman (FXD domain-containing ion transport regulator 1) (Sodium/potassium-transporting ATPase subunit FXD1)                                                                                                                                                                                         | Fxyd1 Plm                       | 56188  | 4.1486 | 0.031187 | 1.506  | 0.15437 | 19.326555  | 19.59019   | 19.348645  | 19.9567175 |

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| Q8K2B3 | Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial (EC 1.3.5.1) (Flavoprotein subunit of complex II) (Fp)                                                                                                                                                       | Sdha                 | 66945  | 4.1413 | 0.031346 | 1.5038 | 0.15437 | 24.104415  | 24.1934725 | 24.1865625 | 24.22722   |
| Q64522 | Histone H2A type 2-B (H2a-613A)                                                                                                                                                                                                                                                       | Hist2h2ab            | 621893 | 4.1463 | 0.031237 | 1.5053 | 0.15437 | 21.4207025 | 21.738595  | 21.7081225 | 21.7323975 |
| P00920 | Carbonic anhydrase 2 (EC 4.2.1.1) (Carbonate dehydratase II) (Carbonic anhydrase II) (CA-II)                                                                                                                                                                                          | Ca2 Car2             | 12349  | 4.1241 | 0.031721 | 1.4987 | 0.15525 | 24.66847   | 24.7045775 | 24.5362275 | 25.000225  |
| Q8BVE3 | V-type proton ATPase subunit H (V-ATPase subunit H) (Vacuolar proton pump subunit H)                                                                                                                                                                                                  | Atp6v1h              | 108664 | 4.1139 | 0.031946 | 1.4956 | 0.15585 | 24.4371675 | 24.42384   | 24.54675   | 24.3744875 |
| Q8VHH5 | Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 3 (AGAP-3) (CRAM-associated GTPase) (CRAG) (Centaurin-gamma-3) (Cnt-g3) (MR1-interacting protein) (MRIP-1)                                                                                                           | Agap3 Centg3         |        | 4.1041 | 0.032164 | 1.4926 | 0.15592 | 20.4081275 | 20.305595  | 20.33144   | 19.986425  |
| Q91VR7 | Microtubule-associated proteins 1A/1B light chain 3A (Autophagy-related protein LC3 A) (Autophagy-related ubiquitin-like modifier LC3 A) (MAP1 light chain 3-like protein 1) (MAP1A/MAP1B light chain 3 A) (MAP1A/MAP1B LC3 A) (Microtubule-associated protein 1 light chain 3 alpha) | Map1lc3a             | 66734  | 4.1072 | 0.032096 | 1.4935 | 0.15592 | 21.3499625 | 21.07012   | 21.5351775 | 21.0764625 |
| P63213 | Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2 (G gamma-I)                                                                                                                                                                                                         | Gng2                 | 14702  | 4.0896 | 0.032489 | 1.4883 | 0.15675 | 23.5824275 | 23.36512   | 23.477685  | 23.3188325 |
| Q9CQW1 | Synaptobrevin homolog YKT6 (EC 2.3.1.-)                                                                                                                                                                                                                                               | Ykt6                 | 56418  | 4.0873 | 0.032541 | 1.4876 | 0.15675 | 21.1970575 | 21.62955   | 21.2786875 | 21.60704   |
| P68372 | Tubulin beta-4B chain (Tubulin beta-2C chain)                                                                                                                                                                                                                                         | Tubb4b Tubb2c        | 227613 | 4.0568 | 0.033241 | 1.4783 | 0.15962 | 27.4741725 | 27.4272775 | 27.6323925 | 27.3575375 |
| Q8BJI1 | Sodium-dependent neutral amino acid transporter SLC6A17 (Sodium-dependent neurotransmitter transporter NTT4) (Solute carrier family 6 member 17)                                                                                                                                      | Slc6a17 Ntt4         | 229706 | 4.0444 | 0.033531 | 1.4746 | 0.16051 | 20.81729   | 20.7477825 | 21.0452475 | 20.8504675 |
| O55234 | Proteasome subunit beta type-5 (EC 3.4.25.1) (Macropain epsilon chain) (Multicatalytic endopeptidase complex epsilon chain) (Proteasome chain 6) (Proteasome epsilon chain) (Proteasome subunit X)                                                                                    | Psmb5                | 19173  | 4.0336 | 0.033784 | 1.4713 | 0.16071 | 21.99336   | 21.85695   | 21.7779375 | 21.9580625 |
| Q9D1T0 | Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1 (Leucine-rich repeat neuronal protein 1) (Leucine-rich repeat neuronal protein 6A)                                                                                                  | Lingo1 Lern1 Lrn6a   | 235402 | 4.0338 | 0.033781 | 1.4713 | 0.16071 | 19.6665575 | 19.1845225 | 19.8311825 | 19.6794575 |
| O55126 | Protein NipSnap homolog 2 (NipSnap2) (Glioblastoma-amplified sequence)                                                                                                                                                                                                                | Nipsnap2 Gbas        |        | 4.0234 | 0.034028 | 1.4682 | 0.16104 | 19.818475  | 20.00578   | 18.947365  | 19.9962225 |
| Q8K0E8 | Fibrinogen beta chain [Cleaved into: Fibrinopeptide B; Fibrinogen beta chain]                                                                                                                                                                                                         | Fgb                  | 110135 | 4.0174 | 0.034169 | 1.4664 | 0.16104 | 19.4264675 | 21.1172675 | 18.8847925 | 20.169645  |
| Q641P0 | Actin-related protein 3B (ARP3-beta) (Actin-like protein 3B)                                                                                                                                                                                                                          | Actr3b               | 242894 | 4.0194 | 0.034123 | 1.467  | 0.16104 | 20.5029725 | 20.62635   | 20.803885  | 20.322425  |
| Q61301 | Catenin alpha-2 (Alpha N-catenin)                                                                                                                                                                                                                                                     | Ctnna2 Catna2        | 12386  | 3.9956 | 0.034697 | 1.4597 | 0.16302 | 22.76489   | 22.7446075 | 22.92369   | 22.6170775 |
| P47964 | 60S ribosomal protein L36                                                                                                                                                                                                                                                             | Rpl36                |        | 3.9813 | 0.035048 | 1.4553 | 0.1632  | 19.4947075 | 19.169765  | 19.5041725 | 19.362525  |
| P49615 | Cyclin-dependent-like kinase 5 (EC 2.7.11.1) (CR6 protein kinase) (CRK6) (Cell division protein kinase 5) (Serine/threonine-protein kinase PSSALRE) (Tau protein kinase II catalytic subunit) (TPKII catalytic subunit)                                                               | Cdk5 Cdkn5 Crk6      | 12568  | 3.981  | 0.035055 | 1.4553 | 0.1632  | 20.3483575 | 20.398785  | 20.51884   | 20.1342725 |
| Q99J16 | Ras-related protein Rap-1b (GTP-binding protein smg p21B)                                                                                                                                                                                                                             | Rap1b                | 215449 | 3.9853 | 0.034951 | 1.4565 | 0.1632  | 20.6673475 | 20.3543125 | 20.5801475 | 20.3325575 |
| O88487 | Cytoplasmic dynein 1 intermediate chain 2 (Cytoplasmic dynein intermediate chain 2) (Dynein intermediate chain 2, cytosolic) (DH IC-2)                                                                                                                                                | Dync1i2 Dnci2 Dncic2 | 13427  | 3.9697 | 0.035335 | 1.4518 | 0.164   | 19.5286475 | 19.407     | 19.7675225 | 19.424095  |

|        |                                                                                                                                                                                                |                         |        |        |          |        |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
| P99027 | 60S acidic ribosomal protein P2                                                                                                                                                                | Rplp2                   | 67186  | 3.9646 | 0.035462 | 1.4502 | 0.16409 | 21.69745   | 21.873985  | 21.8231375 | 21.9883425 |
| Q3TES0 | IQ motif and SEC7 domain-containing protein 3                                                                                                                                                  | lqsec3 Kiaa1110         | 243621 | 3.9578 | 0.035635 | 1.4481 | 0.16439 | 20.0818575 | 19.8901425 | 20.35084   | 19.8232125 |
| P12960 | Contactin-1 (Neural cell surface protein F3)                                                                                                                                                   | Cntn1                   | 12805  | 3.9289 | 0.036368 | 1.4393 | 0.16528 | 25.5376775 | 25.4788075 | 25.539065  | 25.43512   |
| P35486 | Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial (EC 1.2.4.1) (PDHE1-A type I)                                                                                   | Pdha1 Pdha-1            | 18597  | 3.9392 | 0.036105 | 1.4424 | 0.16528 | 25.421295  | 25.3024875 | 25.3356625 | 25.28483   |
| P47857 | ATP-dependent 6-phosphofructokinase, muscle type (ATP-PFK) (PFK-M) (EC 2.7.1.11) (6-phosphofructokinase type A) (Phosphofructo-1-kinase isozyme A) (PFK-A) (Phosphohexokinase)                 | Pfkm Pfk-m Pfka         | 18642  | 3.9301 | 0.036339 | 1.4396 | 0.16528 | 24.5935775 | 24.59713   | 24.6141875 | 24.6712175 |
| Q91XM9 | Disks large homolog 2 (Channel-associated protein of synapse-110) (Chapsyn-110) (Postsynaptic density protein PSD-93)                                                                          | Dlg2 DlgH2              | 23859  | 3.9369 | 0.036163 | 1.4417 | 0.16528 | 23.238465  | 23.286715  | 23.33615   | 23.0706075 |
| Q8BWG8 | Beta-arrestin-1 (Arrestin beta-1)                                                                                                                                                              | Arrb1                   | 109689 | 3.9424 | 0.036023 | 1.4434 | 0.16528 | 19.8824425 | 20.0001675 | 20.1540225 | 20.2812025 |
| P84075 | Neuron-specific calcium-binding protein hippocalcin                                                                                                                                            | Hpca                    | 15444  | 3.9208 | 0.03658  | 1.4368 | 0.16575 | 24.4470725 | 24.3502325 | 24.18469   | 24.1375    |
| P63037 | DnaJ homolog subfamily A member 1 (DnaJ protein homolog 2) (Heat shock 40 kDa protein 4) (Heat shock protein J2) (HSJ-2)                                                                       | Dnaja1 Dnaj2 Hsj2 HspJ4 | 15502  | 3.9152 | 0.036724 | 1.435  | 0.16576 | 21.4000075 | 21.308515  | 21.428765  | 21.3488    |
| P62082 | 40S ribosomal protein S7                                                                                                                                                                       | Rps7                    | 20115  | 3.9083 | 0.036904 | 1.4329 | 0.16576 | 21.6844225 | 21.9427575 | 22.07107   | 22.1506875 |
| P60487 | Pyridoxal phosphate phosphatase (PLP phosphatase) (EC 3.1.3.3) (EC 3.1.3.74) (Chronophin)                                                                                                      | Pdpx Cin Plp Plpp       | 57028  | 3.9082 | 0.036908 | 1.4329 | 0.16576 | 22.90741   | 22.908135  | 22.8262625 | 22.69401   |
| Q925N0 | Sideroflexin-5                                                                                                                                                                                 | Sfxn5                   | 94282  | 3.8693 | 0.037943 | 1.4209 | 0.16991 | 22.2207225 | 22.565985  | 22.463155  | 22.67241   |
| P51174 | Long-chain specific acyl-CoA dehydrogenase, mitochondrial (LCAD) (EC 1.3.8.8)                                                                                                                  | Acadl                   | 11363  | 3.8426 | 0.038673 | 1.4126 | 0.17002 | 21.88628   | 21.93903   | 21.6986    | 22.02244   |
| P10126 | Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongation factor Tu) (EF-Tu) (Eukaryotic elongation factor 1 A-1) (eEF1A-1)                                                                       | Eef1a1 Eef1a            | 13627  | 3.845  | 0.038606 | 1.4133 | 0.17002 | 24.9636725 | 25.10958   | 25.28692   | 25.4111575 |
| O35465 | Peptidyl-prolyl cis-trans isomerase FKBP8 (PPIase FKBP8) (EC 5.2.1.8) (38 kDa FK506-binding protein) (38 kDa FKBP) (FKBP-38) (mFKBP38) (FK506-binding protein 8) (FKBP-8) (FKBPR38) (Rotamase) | Fkbp8 Fkbp38 Sam11      | 14232  | 3.8596 | 0.038205 | 1.4179 | 0.17002 | 20.01131   | 19.8165525 | 20.1045175 | 19.92662   |
| Q8C854 | Myelin expression factor 2 (MEF-2) (MyEF-2)                                                                                                                                                    | Myef2 Kiaa1341 Mef2     | 17876  | 3.8492 | 0.038491 | 1.4146 | 0.17002 | 20.292365  | 20.0835975 | 20.2531175 | 20.0565425 |
| O35864 | COP9 signalosome complex subunit 5 (SGN5) (Signalosome subunit 5) (EC 3.4.-.-) (Jun activation domain-binding protein 1) (Kip1 C-terminus-interacting protein 2)                               | Cops5 Csn5 Jab1 Kic2    | 26754  | 3.8524 | 0.038402 | 1.4156 | 0.17002 | 20.493245  | 20.46406   | 20.2939175 | 20.548685  |
| P63046 | Sulfotransferase 4A1 (ST4A1) (EC 2.8.2.-) (Brain sulfotransferase-like protein) (mBR-STL) (Nervous system sulfotransferase) (NST)                                                              | Sult4a1 Sultx3          | 29859  | 3.8399 | 0.038746 | 1.4118 | 0.17002 | 19.855485  | 19.27434   | 19.7530275 | 19.710975  |
| Q4KMM3 | Oxidation resistance protein 1 (Protein C7)                                                                                                                                                    | Oxr1 C7 Gm1238          | 170719 | 3.8423 | 0.038679 | 1.4125 | 0.17002 | 24.0313275 | 23.890905  | 23.956675  | 23.8637025 |
| P51880 | Fatty acid-binding protein, brain (Brain lipid-binding protein) (BLBP) (Brain-type fatty acid-binding protein) (B-FABP) (Fatty acid-binding protein 7)                                         | Fabp7 Blbp              | 12140  | 3.8243 | 0.039181 | 1.4069 | 0.17094 | 20.3816525 | 20.431025  | 20.1979975 | 20.92649   |
| Q8VDM4 | 26S proteasome non-ATPase regulatory subunit 2 (26S proteasome regulatory subunit RPN1) (26S proteasome regulatory subunit S2) (26S proteasome subunit p97)                                    | Psm2                    | 21762  | 3.826  | 0.039135 | 1.4074 | 0.17094 | 21.704395  | 21.77119   | 21.9021925 | 21.8305225 |
| Q9CQE8 | RNA transcription, translation and transport factor protein                                                                                                                                    | RTRAF                   | 68045  | 3.8114 | 0.039546 | 1.4029 | 0.17155 | 19.3797625 | 19.6772125 | 19.7453125 | 19.80543   |

|        |                                                                                                                                                                                                                                                                                                                                                          |                     |        |        |          |        |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
| P62751 | 60S ribosomal protein L23a                                                                                                                                                                                                                                                                                                                               | Rpl23a              | 268449 | 3.8138 | 0.039477 | 1.4037 | 0.17155 | 20.968465  | 20.8982    | 20.82619   | 21.1327775 |
| P54823 | Probable ATP-dependent RNA helicase DDX6 (EC 3.6.4.13) (ATP-dependent RNA helicase p54) (DEAD box protein 6) (Oncogene RCK homolog)                                                                                                                                                                                                                      | Ddx6 Hlr2 Rck       | 13209  | 3.8037 | 0.039764 | 1.4005 | 0.17201 | 20.2390475 | 19.9362    | 20.1443975 | 20.259925  |
| P35980 | 60S ribosomal protein L18                                                                                                                                                                                                                                                                                                                                | Rpl18               | 19899  | 3.799  | 0.0399   | 1.399  | 0.17211 | 21.811645  | 21.8599375 | 21.8449325 | 22.02319   |
| P11983 | T-complex protein 1 subunit alpha (TCP-1-alpha) (CCT-alpha) (Tailless complex polypeptide 1A) (TCP-1-A) (Tailless complex polypeptide 1B) (TCP-1-B)                                                                                                                                                                                                      | Tcp1 Cct1 Ccta      | 21454  | 3.7891 | 0.040186 | 1.3959 | 0.17283 | 23.46845   | 23.3151275 | 23.5253925 | 23.3562125 |
| Q9CX86 | Heterogeneous nuclear ribonucleoprotein A0 (hnRNP A0)                                                                                                                                                                                                                                                                                                    | Hnrnpa0 Hnrpa0      | 77134  | 3.7854 | 0.040292 | 1.3948 | 0.17283 | 20.3095925 | 20.623265  | 20.302525  | 20.391625  |
| O35381 | Acidic leucine-rich nuclear phosphoprotein 32 family member A (Acidic nuclear phosphoprotein pp32) (Leucine-rich acidic nuclear protein) (LANP) (Potent heat-stable protein phosphatase 2A inhibitor I1PP2A)                                                                                                                                             | Anp32a Anp32 Lanp   | 11737  | 3.7737 | 0.040631 | 1.3911 | 0.17305 | 22.3834975 | 22.3557425 | 22.38358   | 22.48872   |
| P08226 | Apolipoprotein E (Apo-E)                                                                                                                                                                                                                                                                                                                                 | ApoE                | 11816  | 3.7706 | 0.040723 | 1.3902 | 0.17305 | 22.941915  | 23.2766725 | 22.80558   | 23.4734775 |
| Q9Z218 | Dipeptidyl aminopeptidase-like protein 6 (DPPX) (Dipeptidyl aminopeptidase-related protein) (Dipeptidyl peptidase 6) (Dipeptidyl peptidase IV-like protein) (Dipeptidyl peptidase VI) (DPP VI)                                                                                                                                                           | Dpp6 Dpp-6          | 13483  | 3.7648 | 0.040893 | 1.3884 | 0.17305 | 23.8657725 | 23.8406375 | 23.748195  | 23.5661425 |
| P63028 | Translationally-controlled tumor protein (TCTP) (21 kDa polypeptide) (p21) (p23)                                                                                                                                                                                                                                                                         | Tpt1 Trt            | 22070  | 3.7604 | 0.041025 | 1.387  | 0.17305 | 22.11244   | 22.2426225 | 22.35217   | 22.4868475 |
| Q8BYM8 | Probable cysteine--tRNA ligase, mitochondrial (EC 6.1.1.16) (CysteinyI-tRNA synthetase) (CysRS)                                                                                                                                                                                                                                                          | Cars2               | 71941  | 3.7631 | 0.040943 | 1.3878 | 0.17305 | 19.635255  | 18.98585   | 19.1966575 | 18.4534625 |
| Q8VCW8 | Medium-chain acyl-CoA ligase ACSF2, mitochondrial (EC 6.2.1.2)                                                                                                                                                                                                                                                                                           | Acsf2               | 264895 | 3.7636 | 0.040929 | 1.388  | 0.17305 | 19.81982   | 20.067985  | 19.8483175 | 20.1243275 |
| P80316 | T-complex protein 1 subunit epsilon (TCP-1-epsilon) (CCT-epsilon)                                                                                                                                                                                                                                                                                        | Cct5 Cte Kiaa0098   | 12465  | 3.7478 | 0.041399 | 1.383  | 0.17415 | 22.52372   | 22.5131075 | 22.68484   | 22.605565  |
| O88935 | Synapsin-1 (Synapsin I)                                                                                                                                                                                                                                                                                                                                  | Syn1 Syn-1          | 20964  | 3.7374 | 0.041711 | 1.3798 | 0.17498 | 27.2228675 | 27.189305  | 27.2275975 | 27.0246575 |
| Q08331 | Calretinin (CR)                                                                                                                                                                                                                                                                                                                                          | Calb2               | 12308  | 3.7278 | 0.042002 | 1.3767 | 0.17543 | 22.9156375 | 22.90711   | 22.76546   | 22.408515  |
| P97351 | 40S ribosomal protein S3a (Protein TU-11)                                                                                                                                                                                                                                                                                                                | Rps3a Rps3a1        | 20091  | 3.7263 | 0.042047 | 1.3763 | 0.17543 | 22.7653075 | 22.6677425 | 22.73999   | 22.8599725 |
| P30416 | Peptidyl-prolyl cis-trans isomerase FKBP4 (PPIase FKBP4) (EC 5.2.1.8) (52 kDa FK506-binding protein) (52 kDa FKBP) (FKBP-52) (59 kDa immunophilin) (p59) (FK506-binding protein 4) (FKBP-4) (FKBP59) (HSP-binding immunophilin) (HBI) (Immunophilin FKBP52) (Rotamase) [Cleaved into: Peptidyl-prolyl cis-trans isomerase FKBP4, N-terminally processed] | Fkbp4 Fkpb52        | 14228  | 3.7166 | 0.042345 | 1.3732 | 0.17619 | 20.5980725 | 20.12478   | 20.38351   | 20.3528525 |
| P35564 | Calnexin                                                                                                                                                                                                                                                                                                                                                 | Canx                | 12330  | 3.6943 | 0.043034 | 1.3662 | 0.17857 | 23.4236925 | 23.4726425 | 23.4522975 | 23.61585   |
| P56375 | Acylphosphatase-2 (EC 3.6.1.7) (Acylphosphatase, muscle type isozyme) (Acylphosphate phosphohydrolase 2)                                                                                                                                                                                                                                                 | Acyp2 Acyp          | 75572  | 3.6818 | 0.043428 | 1.3622 | 0.17971 | 20.16361   | 19.9362675 | 19.84672   | 19.90754   |
| P14685 | 26S proteasome non-ATPase regulatory subunit 3 (26S proteasome regulatory subunit RPN3) (26S proteasome regulatory subunit S3) (Proteasome subunit p58) (Transplantation antigen P91A) (Tum-P91A antigen)                                                                                                                                                | Psmc3 P91a Tstap91a | 22123  | 3.6661 | 0.043928 | 1.3573 | 0.18129 | 20.48252   | 20.47367   | 20.6995925 | 20.6607175 |
| P62334 | 26S proteasome regulatory subunit 10B (26S proteasome AAA-ATPase subunit RPT4)                                                                                                                                                                                                                                                                           | Psmc6 Sug2          | 67089  | 3.6572 | 0.044215 | 1.3544 | 0.18198 | 19.19784   | 18.956145  | 19.4135075 | 19.0817375 |

|        |                                                                                                                                                                                           |                           |                    |        |          |        |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | (Proteasome 26S subunit ATPase 6)<br>(Proteasome subunit p42)                                                                                                                             |                           |                    |        |          |        |         |            |            |            |            |
| Q99LC5 | Electron transfer flavoprotein subunit alpha, mitochondrial (Alpha-ETF)                                                                                                                   | Etfa                      | 110842             | 3.6479 | 0.044515 | 1.3515 | 0.18273 | 22.7062125 | 22.8862625 | 22.664585  | 22.90653   |
| Q61166 | Microtubule-associated protein RP/EB family member 1 (APC-binding protein EB1) (End-binding protein 1) (EB1)                                                                              | Mapre1                    | 13589              | 3.6337 | 0.04498  | 1.347  | 0.1838  | 20.87944   | 21.159015  | 20.966465  | 21.1749475 |
| P04925 | Major prion protein (PrP) (PrP27-30) (PrP33-35C) (CD antigen CD230)                                                                                                                       | Pmp Prn-p Prp             | 19122              | 3.6325 | 0.045018 | 1.3466 | 0.1838  | 21.817945  | 21.808145  | 21.481925  | 21.3655325 |
| Q60631 | Growth factor receptor-bound protein 2 (Adapter protein GRB2) (SH2/SH3 adapter GRB2)                                                                                                      | Grb2                      | 14784              | 3.625  | 0.045269 | 1.3442 | 0.18433 | 21.4911925 | 21.41314   | 21.54497   | 21.5254025 |
| P83741 | Serine/threonine-protein kinase WNK1 (EC 2.7.11.1) (Protein kinase lysine-deficient 1) (Protein kinase with no lysine 1)                                                                  | Wnk1 Hsn2 Prkwk1          | 232341             | 3.6075 | 0.045852 | 1.3386 | 0.18621 | 19.0608625 | 19.3991875 | 18.706135  | 19.6261475 |
| P23242 | Gap junction alpha-1 protein (Connexin-43) (Cx43) (Gap junction 43 kDa heart protein)                                                                                                     | Gja1 Cxn-43               | 14609              | 3.6017 | 0.046049 | 1.3368 | 0.18652 | 21.5193975 | 21.979095  | 21.45263   | 22.0656425 |
| Q8K400 | Syntaxin-binding protein 5 (Lethal(2) giant larvae protein homolog 3) (Tomasyn-1)                                                                                                         | Stxbp5 Kiaa4253 Ligl3     | 78808              | 3.5931 | 0.046341 | 1.334  | 0.1872  | 20.6157275 | 20.8173075 | 20.521065  | 20.719795  |
| Q3TXX4 | Vesicular glutamate transporter 1 (VGLUT1) (Brain-specific Na(+)-dependent inorganic phosphate cotransporter) (Solute carrier family 17 member 7)                                         | Slc17a7 Bnpi Vglut1       | 72961              | 3.5861 | 0.046578 | 1.3318 | 0.18767 | 22.7442075 | 22.6171225 | 22.77191   | 22.48421   |
| P62264 | 40S ribosomal protein S14                                                                                                                                                                 | Rps14                     | 20044              | 3.5818 | 0.046727 | 1.3304 | 0.18777 | 21.8524325 | 21.7418525 | 21.7305325 | 21.959755  |
| P70195 | Proteasome subunit beta type-7 (EC 3.4.25.1) (Macropain chain Z) (Multicatalytic endopeptidase complex chain Z) (Proteasome subunit Z)                                                    | Psmb7 Mmc14               | 19177              | 3.5687 | 0.047179 | 1.3263 | 0.18812 | 20.5640975 | 20.2822225 | 20.451395  | 20.3401625 |
| P01831 | Thy-1 membrane glycoprotein (Thy-1 antigen) (CD antigen CD90)                                                                                                                             | Thy1 Thy-1                | 21838              | 3.5612 | 0.047441 | 1.3238 | 0.18812 | 25.8747275 | 25.921735  | 25.7875625 | 25.840695  |
| Q9Z2Y3 | Homer protein homolog 1 (Homer-1) (VASP/Ena-related gene up-regulated during seizure and LTP 1) (Vesl-1)                                                                                  | Homer1 Vesl1              | 26556              | 3.5545 | 0.047676 | 1.3217 | 0.18812 | 22.6644825 | 22.527695  | 22.5761575 | 22.3929475 |
| P56135 | ATP synthase subunit f, mitochondrial (ATP synthase membrane subunit f)                                                                                                                   | Atp5mf Atp5j2             | 57423              | 3.5631 | 0.047375 | 1.3245 | 0.18812 | 23.541715  | 23.30788   | 23.64429   | 23.30038   |
| Q9DB41 | Mitochondrial glutamate carrier 2 (GC-2) (Glutamate/H(+) symporter 2) (Solute carrier family 25 member 18)                                                                                | Slc25a18 Gc2              | 71803              | 3.5661 | 0.047269 | 1.3254 | 0.18812 | 19.7301125 | 20.1022975 | 19.7049125 | 20.1381025 |
| Q8R5H6 | Wiskott-Aldrich syndrome protein family member 1 (WASP family protein member 1) (Protein WAVE-1)                                                                                          | Wasf1 Wave1               | 83767              | 3.5632 | 0.047372 | 1.3245 | 0.18812 | 22.1660825 | 21.95277   | 22.0464825 | 21.5613175 |
| P61358 | 60S ribosomal protein L27                                                                                                                                                                 | Rpl27                     | 108167922<br>19942 | 3.5578 | 0.04756  | 1.3228 | 0.18812 | 21.0474075 | 21.0021725 | 20.92366   | 21.1817575 |
| Q9R1P0 | Proteasome subunit alpha type-4 (EC 3.4.25.1) (Macropain subunit C9) (Multicatalytic endopeptidase complex subunit C9) (Proteasome component C9) (Proteasome subunit L)                   | Psma4                     | 26441              | 3.5341 | 0.048402 | 1.3151 | 0.19049 | 21.4532375 | 21.8364525 | 21.8746225 | 22.024135  |
| P26638 | Serine--tRNA ligase, cytoplasmic (EC 6.1.1.11) (Seryl-tRNA synthetase) (SerRS) (Seryl-tRNA(Ser/Sec) synthetase)                                                                           | Sars1 Sars Sers           | 20226              | 3.5246 | 0.048742 | 1.3121 | 0.19133 | 22.7159025 | 22.768615  | 22.887375  | 22.9085675 |
| Q9CQ91 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3 (Complex I-B9) (CI-B9) (NADH-ubiquinone oxidoreductase B9 subunit)                                                           | Ndufa3                    | 66091              | 3.4965 | 0.04977  | 1.303  | 0.19192 | 20.8993175 | 20.7337275 | 21.11516   | 20.6668425 |
| Q6PGN3 | Serine/threonine-protein kinase DCLK2 (EC 2.7.11.1) (CaMK-like CREB regulatory kinase 2) (CL2) (CLICK-II) (CLICK2) (Doublecortin-like and CAM kinase-like 2) (Doublecortin-like kinase 2) | Dclk2 Dcamkl2             | 70762              | 3.5028 | 0.049538 | 1.3051 | 0.19192 | 19.7687425 | 19.57787   | 19.852185  | 19.4707125 |
| Q5SQX6 | Cytoplasmic FMR1-interacting protein 2 (p53-inducible protein 121)                                                                                                                        | Cyflp2 Kiaa1168<br>Pir121 | 76884              | 3.5144 | 0.049114 | 1.3088 | 0.19192 | 23.8758075 | 23.74044   | 23.840915  | 23.66745   |
| Q920I9 | WD repeat-containing protein 7 (TGF-beta resistance-associated protein TRAG)                                                                                                              | Wdr7 Kiaa0541 Trag        | 104082             | 3.5041 | 0.049488 | 1.3055 | 0.19192 | 23.03171   | 22.963135  | 23.1602925 | 22.946915  |

|        |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                      |                                                                                                                              |        |          |        |         |            |            |            |            |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------|----------|--------|---------|------------|------------|------------|------------|
| Q7TPR4 | Alpha-actinin-1 (Alpha-actinin cytoskeletal isoform) (F-actin cross-linking protein) (Non-muscle alpha-actinin-1)                                                                                                                                         | Actn1                                                                                                                                                                                                | 109711                                                                                                                       | 3.4969 | 0.049754 | 1.3032 | 0.19192 | 24.629155  | 24.8006575 | 24.88595   | 24.8183975 |
| Q922B2 | Aspartate--tRNA ligase, cytoplasmic (EC 6.1.1.12) (Aspartyl-tRNA synthetase) (AspRS)                                                                                                                                                                      | Dars1 Dars                                                                                                                                                                                           | 226414                                                                                                                       | 3.4987 | 0.049687 | 1.3038 | 0.19192 | 22.201035  | 22.170285  | 22.1374675 | 22.3098775 |
| Q8C419 | Probable G-protein coupled receptor 158                                                                                                                                                                                                                   | Gpr158 Kiaa1136                                                                                                                                                                                      | 241263                                                                                                                       | 3.5004 | 0.049624 | 1.3043 | 0.19192 | 20.626025  | 20.615835  | 20.5248225 | 20.18206   |
| P29758 | Ornithine aminotransferase, mitochondrial (EC 2.6.1.13) (Ornithine--oxo-acid aminotransferase)                                                                                                                                                            | Oat                                                                                                                                                                                                  | 18242                                                                                                                        | 3.4865 | 0.05014  | 1.2998 | 0.19286 | 21.3202425 | 21.594395  | 21.45038   | 21.547295  |
| Q62318 | Transcription intermediary factor 1-beta (TIF1-beta) (E3 SUMO-protein ligase TRIM28) (EC 2.3.2.27) (KRAB-A-interacting protein) (KRIP-1) (RING-type E3 ubiquitin transferase TIF1-beta) (Tripartite motif-containing protein 28)                          | Trim28 Kap1 Krip1 Tif1b                                                                                                                                                                              | 21849                                                                                                                        | 3.4812 | 0.05034  | 1.2981 | 0.19314 | 20.227855  | 20.0176075 | 20.2224    | 20.0325575 |
| P63017 | Heat shock cognate 71 kDa protein (Heat shock 70 kDa protein 8)                                                                                                                                                                                           | Hspa8 Hsc70 Hsc73                                                                                                                                                                                    | 15481                                                                                                                        | 3.4739 | 0.050613 | 1.2957 | 0.1937  | 27.8835525 | 27.8862075 | 27.984185  | 27.96048   |
| P62761 | Visinin-like protein 1 (VILIP) (Neural visinin-like protein 1) (NVL-1) (NVP-1)                                                                                                                                                                            | Vsnl1 Visl1                                                                                                                                                                                          | 26950                                                                                                                        | 3.4694 | 0.050784 | 1.2943 | 0.19387 | 25.3018025 | 25.1937275 | 25.402355  | 25.221295  |
| P17710 | Hexokinase-1 (EC 2.7.1.1) (Hexokinase type I) (HK I) (Hexokinase, tumor isozyme)                                                                                                                                                                          | Hk1                                                                                                                                                                                                  | 15275                                                                                                                        | 3.4577 | 0.051229 | 1.2905 | 0.19508 | 26.8157775 | 26.7858025 | 26.8601    | 26.7471575 |
| Q80UW2 | F-box only protein 2                                                                                                                                                                                                                                      | Fbxo2 Fbs1 Fbx2                                                                                                                                                                                      | 230904                                                                                                                       | 3.4509 | 0.051492 | 1.2883 | 0.19559 | 21.3467275 | 21.5165675 | 21.37996   | 21.59901   |
| Q9D2P8 | Myelin-associated oligodendrocyte basic protein                                                                                                                                                                                                           | Mobp                                                                                                                                                                                                 | 17433                                                                                                                        | 3.4294 | 0.052326 | 1.2813 | 0.19632 | 20.7283275 | 20.6451325 | 20.12946   | 20.834645  |
| P62849 | 40S ribosomal protein S24                                                                                                                                                                                                                                 | Rps24                                                                                                                                                                                                | 20088                                                                                                                        | 3.4381 | 0.051985 | 1.2841 | 0.19632 | 20.2494025 | 20.2207175 | 20.5380175 | 20.388025  |
| Q62442 | Vesicle-associated membrane protein 1 (VAMP-1) (Synaptobrevin-1)                                                                                                                                                                                          | Vamp1 Syb1                                                                                                                                                                                           | 22317                                                                                                                        | 3.436  | 0.052066 | 1.2834 | 0.19632 | 19.914535  | 19.47318   | 19.789425  | 19.40254   |
| P26040 | Ezrin (Cyto villin) (Villin-2) (p81)                                                                                                                                                                                                                      | Ezr Vil2                                                                                                                                                                                             | 22350                                                                                                                        | 3.4349 | 0.052111 | 1.2831 | 0.19632 | 21.4915575 | 21.5961    | 21.5815175 | 22.010685  |
| Q922R8 | Protein disulfide-isomerase A6 (EC 5.3.4.1) (Thioredoxin domain-containing protein 7)                                                                                                                                                                     | Pdia6 Txndc7                                                                                                                                                                                         | 71853                                                                                                                        | 3.4306 | 0.052278 | 1.2817 | 0.19632 | 21.6891525 | 21.653405  | 21.7410975 | 21.84885   |
| P31324 | cAMP-dependent protein kinase type II-beta regulatory subunit                                                                                                                                                                                             | Prkar2b                                                                                                                                                                                              | 19088                                                                                                                        | 3.4252 | 0.052489 | 1.2799 | 0.19645 | 22.8736    | 22.92157   | 23.159545  | 22.76681   |
| P62631 | Elongation factor 1-alpha 2 (EF-1-alpha-2) (Eukaryotic elongation factor 1 A-2) (eEF1A-2) (Statin-S1)                                                                                                                                                     | Eef1a2 Eef1a1 Stn                                                                                                                                                                                    | 13628                                                                                                                        | 3.4145 | 0.052913 | 1.2764 | 0.1973  | 26.25261   | 26.2663375 | 26.28864   | 26.4771625 |
| P43274 | Histone H1.4 (H1 VAR.2) (H1e)                                                                                                                                                                                                                             | H1-4 H1f4 Hist1h1e                                                                                                                                                                                   | 50709                                                                                                                        | 3.4129 | 0.052975 | 1.2759 | 0.1973  | 22.69354   | 22.7324925 | 22.423975  | 22.9016625 |
| P62806 | Histone H4                                                                                                                                                                                                                                                | H4c1 Hist1h4a; H4c2 H4-53 Hist1h4b; H4c3 H4-12 Hist1h4c; H4c4 Hist1h4d; H4c6 Hist1h4f; H4c8 Hist1h4h; H4c9 Hist1h4i; H4c11 Hist1h4j; H4c12 Hist1h4k; Hist1h4m; H4c14 Hist2h4 Hist2h4a; H4f16 Hist4h4 | 100041230<br>319155<br>319156<br>319157<br>319158<br>319159<br>319160<br>319161<br>320332<br>326619<br>326620<br>69386 97122 | 3.4076 | 0.053188 | 1.2742 | 0.19761 | 27.2961575 | 27.451455  | 27.2519275 | 27.4032025 |
| Q9Z2E3 | Serine/threonine-protein kinase/endoribonuclease IRE2 (Endoplasmic reticulum-to-nucleus signaling 2) (Inositol-requiring protein 2) (Ire1-beta) (IRE1b) (mlre1) [Includes: Serine/threonine-protein kinase (EC 2.7.11.1); Endoribonuclease (EC 3.1.26.-)] | Ern2 Ire2                                                                                                                                                                                            | 26918                                                                                                                        | 3.3934 | 0.05376  | 1.2695 | 0.19925 | 21.5288675 | 20.9462275 | 21.1634525 | 20.201965  |
| Q8BRT1 | CLIP-associating protein 2 (Cytoplasmic linker-associated protein 2)                                                                                                                                                                                      | Clasp2 Kiaa0627                                                                                                                                                                                      | 76499                                                                                                                        | 3.3873 | 0.054007 | 1.2676 | 0.19968 | 20.793025  | 20.7859525 | 20.8735725 | 20.64909   |
| Q06185 | ATP synthase subunit e, mitochondrial (ATPase subunit e) (ATP synthase membrane subunit e)                                                                                                                                                                | Atp5me Atp5i Atp5k Lfm-1 Lfm1                                                                                                                                                                        | 11958                                                                                                                        | 3.3801 | 0.054299 | 1.2652 | 0.20005 | 23.70784   | 23.6290375 | 23.4794625 | 23.6508575 |

|        |                                                                                                                                                                                                                       |                           |        |        |          |        |         |            |            |            |            |
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| Q3UM45 | Protein phosphatase 1 regulatory subunit 7 (Protein phosphatase 1 regulatory subunit 22)                                                                                                                              | Ppp1r7 Sds22              | 66385  | 3.3755 | 0.054487 | 1.2637 | 0.20005 | 22.4492525 | 22.35725   | 22.4906825 | 22.202785  |
| Q91YQ5 | Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 (Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 67 kDa subunit) (Ribophorin I) (RPN-I) (Ribophorin-1)                        | Rpn1                      | 103963 | 3.3752 | 0.054498 | 1.2636 | 0.20005 | 20.7946975 | 20.8415    | 20.632625  | 21.08909   |
| Q8K596 | Sodium/calcium exchanger 2 (Na(+)/Ca(2+)-exchange protein 2) (Solute carrier family 8 member 2)                                                                                                                       | Slc8a2 Ncx2               | 110891 | 3.3672 | 0.054832 | 1.261  | 0.20079 | 22.016905  | 21.84551   | 22.0181875 | 21.6099175 |
| Q02248 | Catenin beta-1 (Beta-catenin)                                                                                                                                                                                         | Ctnnb1 Catnb              | 12387  | 3.3396 | 0.055985 | 1.2519 | 0.20236 | 22.6513325 | 22.5744025 | 22.698275  | 22.5040675 |
| P70168 | Importin subunit beta-1 (Karyopherin subunit beta-1) (Nuclear factor p97) (Pore targeting complex 97 kDa subunit) (PTAC97) (SCG)                                                                                      | Kpnb1 Impnb               | 16211  | 3.3416 | 0.055899 | 1.2526 | 0.20236 | 22.505245  | 22.5638775 | 22.587485  | 22.698425  |
| Q61644 | Protein kinase C and casein kinase substrate in neurons protein 1 (Syndapin-1)                                                                                                                                        | Pacsin1 Pacsin            | 23969  | 3.3509 | 0.05551  | 1.2556 | 0.20236 | 25.07617   | 24.92785   | 24.98797   | 24.8453225 |
| Q91Z53 | Glyoxylate reductase/hydroxypyruvate reductase (EC 1.1.1.79) (EC 1.1.1.81)                                                                                                                                            | Grhpr Glxr                | 76238  | 3.3384 | 0.056038 | 1.2515 | 0.20236 | 20.9215375 | 20.9672225 | 20.7263375 | 20.8444125 |
| Q6PDM2 | Serine/arginine-rich splicing factor 1 (ASF/SF2) (Pre-mRNA-splicing factor SRp30a) (Splicing factor, arginine/serine-rich 1)                                                                                          | Srsf1 Sfrs1               | 110809 | 3.338  | 0.056053 | 1.2514 | 0.20236 | 20.9102825 | 20.3389575 | 20.825645  | 20.50157   |
| P35282 | Ras-related protein Rab-21 (Rab-12)                                                                                                                                                                                   | Rab21                     | 216344 | 3.3379 | 0.056056 | 1.2514 | 0.20236 | 20.811285  | 20.6130575 | 20.693175  | 20.768055  |
| Q9QZM0 | Ubiquitin-2 (Chap1) (DSK2 homolog) (Protein linking IAP with cytoskeleton 2) (PLIC-2) (Ubiquitin-like product Chap1/Dsk2)                                                                                             | Ubqln2 Plic2              | 54609  | 3.3197 | 0.056834 | 1.2454 | 0.20468 | 21.8182025 | 21.62921   | 21.881075  | 21.63612   |
| Q9QYC0 | Alpha-adducin (Erythrocyte adducin subunit alpha)                                                                                                                                                                     | Add1                      | 11518  | 3.3148 | 0.057048 | 1.2438 | 0.20497 | 24.51586   | 24.4478275 | 24.5015675 | 24.4488725 |
| P19783 | Cytochrome c oxidase subunit 4 isoform 1, mitochondrial (Cytochrome c oxidase polypeptide IV) (Cytochrome c oxidase subunit IV isoform 1) (COX IV-1)                                                                  | Cox4i1 Cox4 Cox4a         | 12857  | 3.3065 | 0.057409 | 1.241  | 0.20559 | 25.094515  | 24.9118    | 24.9971325 | 24.968355  |
| Q9Z1B3 | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1 (EC 3.1.4.11) (PLC-154) (Phosphoinositide phospholipase C-beta-1) (Phospholipase C-beta-1) (PLC-beta-1)                                              | Plcb1 Plcb                | 18795  | 3.3047 | 0.057489 | 1.2404 | 0.20559 | 23.82736   | 23.7975775 | 23.9660675 | 23.792985  |
| Q9WVA2 | Mitochondrial import inner membrane translocase subunit Tim8 A (Deafness dystonia protein 1 homolog)                                                                                                                  | Timm8a1 Ddp1 Tim8a Timm8a | 30058  | 3.2933 | 0.057988 | 1.2367 | 0.20689 | 20.1727975 | 19.83949   | 19.940565  | 19.8692625 |
| P62814 | V-type proton ATPase subunit B, brain isoform (V-ATPase subunit B 2) (Endomembrane proton pump 58 kDa subunit) (Vacuolar proton pump subunit B 2)                                                                     | Atp6v1b2 Atp6b2 Vat2      | 11966  | 3.2846 | 0.058372 | 1.2338 | 0.207   | 26.3355675 | 26.233275  | 26.377055  | 26.24789   |
| P60867 | 40S ribosomal protein S20                                                                                                                                                                                             | Rps20                     | 67427  | 3.2875 | 0.058245 | 1.2347 | 0.207   | 21.62635   | 21.473695  | 21.4852575 | 21.74917   |
| Q3UHD9 | Arl-GAP with GTPase, ANK repeat and PH domain-containing protein 2 (AGAP-2) (Centaurin-gamma-1) (Cnt-g1) (Phosphatidylinositol 3-kinase enhancer) (PIKE)                                                              | Agap2 Centg1 Kiaa0167     | 216439 | 3.2834 | 0.058427 | 1.2334 | 0.207   | 20.60813   | 20.5986725 | 20.3805775 | 20.364175  |
| P15508 | Spectrin beta chain, erythrocytic (Beta-I spectrin)                                                                                                                                                                   | Sptb Spnb-1 Spnb1 Sptb1   |        | 3.2521 | 0.059837 | 1.223  | 0.2095  | 19.6394625 | 19.507445  | 19.13824   | 19.08845   |
| P62862 | 40S ribosomal protein S30                                                                                                                                                                                             | Fau                       |        | 3.2404 | 0.060375 | 1.2191 | 0.2095  | 19.732045  | 19.920255  | 19.7483475 | 19.9420925 |
| Q03137 | Ephrin type-A receptor 4 (EC 2.7.10.1) (Tyrosine-protein kinase receptor MPK-3) (Tyrosine-protein kinase receptor SEK-1)                                                                                              | Epha4 Sek Sek1            | 13838  | 3.2471 | 0.060066 | 1.2214 | 0.2095  | 20.4647425 | 20.131535  | 20.3539    | 19.896325  |
| P49312 | Heterogeneous nuclear ribonucleoprotein A1 (hnRNP A1) (HDP-1) (Helix-destabilizing protein) (Single-strand-binding protein) (Topoisomerase-inhibitor suppressed) (hnRNP core protein A1) [Cleaved into: Heterogeneous | Hnrnpa1 Fli-2 Hnrpa1 Tis  | 15382  | 3.2375 | 0.06051  | 1.2182 | 0.2095  | 21.504785  | 21.717615  | 21.7761275 | 21.8365225 |

|        |                                                                                                                                                                                                                                                                                |                       |        |        |          |        |         |            |            |            |            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | nuclear ribonucleoprotein A1, N-terminally processed]                                                                                                                                                                                                                          |                       |        |        |          |        |         |            |            |            |            |
| Q9JJV2 | Profilin-2 (Profilin II)                                                                                                                                                                                                                                                       | Pfn2                  | 18645  | 3.2389 | 0.060446 | 1.2186 | 0.2095  | 23.8513    | 23.73724   | 23.8145625 | 23.68605   |
| Q8BP92 | Reticulocalbin-2 (Taipoxin-associated calcium-binding protein 49) (TCBP-49)                                                                                                                                                                                                    | Rcn2                  | 26611  | 3.2618 | 0.059397 | 1.2262 | 0.2095  | 20.198035  | 20.582305  | 20.57846   | 20.599875  |
| Q9CZS1 | Aldehyde dehydrogenase X, mitochondrial (EC 1.2.1.3) (Aldehyde dehydrogenase family 1 member B1)                                                                                                                                                                               | Aldh1b1 Aldhx         | 72535  | 3.2546 | 0.059724 | 1.2238 | 0.2095  | 20.146925  | 20.1044575 | 20.076405  | 19.83778   |
| Q922B1 | ADP-ribose glycohydrolase MACROD1 (MACRO domain-containing protein 1) (O-acetyl-ADP-ribose deacetylase MACROD1) (EC 3.1.1.106) (Protein LRP16) ([Protein ADP-ribosylaspartate] hydrolase MACROD1) (EC 3.2.2.-) ([Protein ADP-ribosylglutamate] hydrolase MACROD1) (EC 3.2.2.-) | MacroD1 Lrp16         | 107227 | 3.2408 | 0.060357 | 1.2193 | 0.2095  | 19.1825325 | 18.2966125 | 18.694515  | 19.12961   |
| A2RT62 | F-box/LRR-repeat protein 16 (F-box and leucine-rich repeat protein 16)                                                                                                                                                                                                         | Fbxl16                | 214931 | 3.2533 | 0.059784 | 1.2234 | 0.2095  | 21.2505675 | 21.047235  | 21.2198775 | 20.8113425 |
| P35979 | 60S ribosomal protein L12                                                                                                                                                                                                                                                      | Rpl12                 | 269261 | 3.2347 | 0.060642 | 1.2172 | 0.2095  | 24.1942    | 24.2546875 | 24.0007825 | 24.29938   |
| P61294 | Ras-related protein Rab-6B                                                                                                                                                                                                                                                     | Rab6b D9Bwg0185e      | 270192 | 3.2539 | 0.059755 | 1.2236 | 0.2095  | 21.0137475 | 20.799995  | 20.898695  | 20.76015   |
| Q8VEK3 | Heterogeneous nuclear ribonucleoprotein U (hnRNP U) (Scaffold-attachment factor A) (SAF-A)                                                                                                                                                                                     | Hnrnpu Hnrpu          | 51810  | 3.2269 | 0.061003 | 1.2146 | 0.21    | 23.5336975 | 23.5352475 | 23.640205  | 23.68345   |
| Q5DTL9 | Sodium-driven chloride bicarbonate exchanger (Solute carrier family 4 member 10)                                                                                                                                                                                               | Slc4a10 Kiaa4136 Ncbe | 94229  | 3.2257 | 0.06106  | 1.2142 | 0.21    | 21.4222125 | 21.2498975 | 21.68194   | 21.359865  |
| Q99K85 | Phosphoserine aminotransferase (PSAT) (EC 2.6.1.52) (Endometrial progesterone-induced protein) (EPIP) (Phosphohydroxythreonine aminotransferase)                                                                                                                               | Psat1 Psa Psat        | 107272 | 3.2044 | 0.062069 | 1.2071 | 0.21299 | 22.7337125 | 22.8047675 | 22.7190475 | 23.0942725 |
| P27612 | Phospholipase A-2-activating protein (PLA2P) (PLAP)                                                                                                                                                                                                                            | Plaa Plap             | 18786  | 3.2004 | 0.06226  | 1.2058 | 0.21316 | 19.6443725 | 19.0970475 | 19.4027725 | 19.0422475 |
| Q9CZT8 | Ras-related protein Rab-3B                                                                                                                                                                                                                                                     | Rab3b                 | 69908  | 3.1853 | 0.062986 | 1.2008 | 0.21517 | 21.8883325 | 21.7521075 | 21.869635  | 21.5246375 |
| Q9JMA1 | Ubiquitin carboxyl-terminal hydrolase 14 (EC 3.4.19.12) (Deubiquitinating enzyme 14) (Ubiquitin thioesterase 14) (Ubiquitin-specific-processing protease 14)                                                                                                                   | Usp14                 | 59025  | 3.1774 | 0.063371 | 1.1981 | 0.216   | 20.420515  | 20.265235  | 20.26226   | 20.2605475 |
| P62996 | Transformer-2 protein homolog beta (TRA-2 beta) (TRA2-beta) (Silica-induced gene 41 protein) (SIG-41) (Splicing factor, arginine/serine-rich 10) (Transformer-2 protein homolog B)                                                                                             | Tra2b Sfrs10 Silg41   | 20462  | 3.172  | 0.063635 | 1.1963 | 0.21636 | 18.9206725 | 18.982065  | 19.133185  | 19.19968   |
| Q9QYA2 | Mitochondrial import receptor subunit TOM40 homolog (Mitochondrial outer membrane protein of 35 kDa) (MOM35) (Protein Haymaker) (Translocase of outer membrane 40 kDa subunit homolog)                                                                                         | Tomm40 Mom35 Tom40    | 53333  | 3.1666 | 0.063901 | 1.1945 | 0.21636 | 19.9947825 | 19.6514825 | 19.94313   | 19.750265  |
| Q91WQ3 | Tyrosine--tRNA ligase, cytoplasmic (EC 6.1.1.1) (Tyrosyl-tRNA synthetase) (TyrRS) [Cleaved into: Tyrosine--tRNA ligase, cytoplasmic, N-terminally processed]                                                                                                                   | Yars1 Yars            | 107271 | 3.1686 | 0.063802 | 1.1952 | 0.21636 | 20.7526075 | 20.87094   | 20.8162625 | 20.95065   |
| P56395 | Cytochrome b5                                                                                                                                                                                                                                                                  | Cyb5a Cyb5            | 109672 | 3.1533 | 0.064564 | 1.19   | 0.21812 | 19.9414125 | 20.2091675 | 20.1120225 | 20.46141   |
| P97450 | ATP synthase-coupling factor 6, mitochondrial (ATPase subunit F6) (ATP synthase peripheral stalk subunit F6)                                                                                                                                                                   | Atp5pf Atp5j          | 11957  | 3.1374 | 0.065363 | 1.1847 | 0.22027 | 23.3532575 | 23.1697575 | 23.213835  | 23.098345  |
| Q9DAS9 | Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12                                                                                                                                                                                                             | Gng12                 | 14701  | 3.1349 | 0.065489 | 1.1838 | 0.22027 | 22.4969225 | 22.2685025 | 22.2934675 | 22.1707125 |
| P23506 | Protein-L-isoaspartate(D-aspartate) O-methyltransferase (PIMT) (EC 2.1.1.77) (L-isoaspartyl protein carboxyl methyltransferase)                                                                                                                                                | Pcmt1                 |        | 3.1212 | 0.066187 | 1.1792 | 0.22164 | 21.922545  | 21.83935   | 22.230375  | 21.72613   |

|        |                                                                                                                                                                                                             |                                 |        |        |          |        |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | (Protein L-isoadipyl/D-aspartyl methyltransferase) (Protein-beta-aspartate methyltransferase)                                                                                                               |                                 |        |        |          |        |         |            |            |            |            |
| Q922U2 | Keratin, type II cytoskeletal 5 (Cytokeratin-5) (CK-5) (Keratin-5) (K5) (Type-II keratin Kb5)                                                                                                               | Krt5 Krt2-5                     | 110308 | 3.1227 | 0.066111 | 1.1797 | 0.22164 | 19.11854   | 17.1535125 | 18.8547375 | 18.47551   |
| P47911 | 60S ribosomal protein L6 (TAX-responsive enhancer element-binding protein 107) (TAXREB107)                                                                                                                  | Rpl6                            | 19988  | 3.1153 | 0.066491 | 1.1772 | 0.22168 | 22.0814575 | 22.10839   | 22.0175225 | 22.3422075 |
| Q9Z0P5 | Twinfilin-2 (A6-related protein) (mA6RP) (Twinfilin-1-like protein)                                                                                                                                         | Twf2 Ptk9l                      | 23999  | 3.1157 | 0.066468 | 1.1774 | 0.22168 | 20.7447625 | 20.736975  | 20.75585   | 20.4696125 |
| P62317 | Small nuclear ribonucleoprotein Sm D2 (Sm-D2) (snRNP core protein D2)                                                                                                                                       | Snrpd2                          | 107686 | 3.098  | 0.067394 | 1.1714 | 0.22421 | 19.8802775 | 19.350135  | 19.75165   | 19.660315  |
| Q6PHZ2 | Calcium/calmodulin-dependent protein kinase type II subunit delta (CaM kinase II subunit delta) (CaMK-II subunit delta) (EC 2.7.11.17)                                                                      | Camk2d Kiaa4163                 | 108058 | 3.0902 | 0.067805 | 1.1687 | 0.22508 | 21.84585   | 22.2276175 | 22.4534975 | 22.0154575 |
| Q9CZW5 | Mitochondrial import receptor subunit TOM70 (Mitochondrial precursor proteins import receptor) (Translocase of outer membrane 70 kDa subunit) (Translocase of outer mitochondrial membrane protein 70)      | Tomm70<br>D16Wsu109e<br>Tomm70a | 28185  | 3.0855 | 0.068051 | 1.1672 | 0.22532 | 23.259545  | 23.21372   | 23.3039675 | 23.21556   |
| Q922S4 | cGMP-dependent 3',5'-cyclic phosphodiesterase (EC 3.1.4.17) (Cyclic GMP-stimulated phosphodiesterase) (CGS-PDE) (cGSPDE)                                                                                    | Pde2a                           | 207728 | 3.0805 | 0.068316 | 1.1655 | 0.22532 | 22.0234575 | 22.0408675 | 22.2397775 | 22.0387275 |
| Q6NS60 | F-box only protein 41                                                                                                                                                                                       | Fbxo41 D6Ert538e<br>Kiaa1940    | 330369 | 3.0805 | 0.068319 | 1.1655 | 0.22532 | 19.6895075 | 19.5050175 | 19.7571675 | 19.3480025 |
| O54983 | Ketimine reductase mu-crystallin (EC 1.5.1.25) (NADP-regulated thyroid-hormone-binding protein)                                                                                                             | Crym                            | 12971  | 3.0727 | 0.068736 | 1.1628 | 0.22621 | 25.3512775 | 25.0758025 | 25.0187975 | 24.9489925 |
| P28271 | Cytoplasmic aconitate hydratase (Aconitase) (EC 4.2.1.3) (Citrate hydro-lyase) (Iron regulatory protein 1) (IRP1) (Iron-responsive element-binding protein 1) (IRE-BP 1)                                    | Aco1 Ireb1 Irebp                | 11428  | 3.0607 | 0.069382 | 1.1588 | 0.22784 | 19.5588575 | 19.3185075 | 19.4271575 | 19.3990275 |
| O35737 | Heterogeneous nuclear ribonucleoprotein H (hnRNP H) [Cleaved into: Heterogeneous nuclear ribonucleoprotein H, N-terminally processed]                                                                       | Hnrph1 Hnrph<br>Hnrph1          | 59013  | 3.0503 | 0.06995  | 1.1552 | 0.22922 | 22.7266625 | 22.6934175 | 22.71679   | 22.841215  |
| P11499 | Heat shock protein HSP 90-beta (Heat shock 84 kDa) (HSP 84) (HSP84) (Tumor-specific transplantation 84 kDa antigen) (TSTA)                                                                                  | Hsp90ab1 Hsp84<br>Hsp84-1 Hspcb | 15516  | 3.0459 | 0.070189 | 1.1537 | 0.2295  | 27.0714825 | 27.05025   | 27.19282   | 27.1669275 |
| P56480 | ATP synthase subunit beta, mitochondrial (EC 7.1.2.2) (ATP synthase F1 subunit beta)                                                                                                                        | Atp5f1b Atp5b                   | 11947  | 3.0431 | 0.070342 | 1.1528 | 0.22951 | 28.46113   | 28.47266   | 28.5354625 | 28.4120125 |
| Q61656 | Probable ATP-dependent RNA helicase DDX5 (EC 3.6.4.13) (DEAD box RNA helicase DEAD1) (mDEAD1) (DEAD box protein 5) (RNA helicase p68)                                                                       | Ddx5 Tnz2                       |        | 3.0392 | 0.070556 | 1.1515 | 0.22972 | 22.8119    | 22.6462775 | 22.80686   | 22.8378025 |
| Q64010 | Adapter molecule crk (Proto-oncogene c-Crk) (p38)                                                                                                                                                           | Crk Crko                        | 12928  | 3.0163 | 0.07184  | 1.1436 | 0.2334  | 20.9454425 | 20.8011875 | 20.937595  | 20.7073175 |
| P20065 | Thymosin beta-4 (T beta 4) [Cleaved into: Hematopoietic system regulatory peptide (Seraspenide)]                                                                                                            | Tmsb4x Ptmb4<br>Tmsb4           | 19241  | 2.9962 | 0.072983 | 1.1368 | 0.23661 | 21.321155  | 20.976045  | 20.748745  | 20.340495  |
| P09411 | Phosphoglycerate kinase 1 (EC 2.7.2.3)                                                                                                                                                                      | Pgk1 Pkg-1                      | 18655  | 2.9927 | 0.073186 | 1.1356 | 0.23677 | 27.0117675 | 26.9091975 | 27.0809975 | 26.9612275 |
| Q80SW1 | S-adenosylhomocysteine hydrolase-like protein 1 (IP3R-binding protein released with inositol 1,4,5-trisphosphate) (Putative adenosylhomocysteinase 2) (S-adenosyl-L-homocysteine hydrolase 2) (AdoHcyase 2) | Ahcyl1 Irbit                    | 229709 | 2.9861 | 0.073569 | 1.1333 | 0.23751 | 24.2092825 | 24.1092175 | 24.01089   | 24.15847   |
| P80313 | T-complex protein 1 subunit eta (TCP-1-eta) (CCT-eta)                                                                                                                                                       | Cct7 Ccth                       | 12468  | 2.9788 | 0.073993 | 1.1308 | 0.23783 | 23.01322   | 22.9298875 | 23.083075  | 23.0802225 |
| Q9CVB6 | Actin-related protein 2/3 complex subunit 2 (Arp2/3 complex 34 kDa subunit) (p34-ARC)                                                                                                                       | Arpc2                           | 76709  | 2.9737 | 0.074292 | 1.1291 | 0.23783 | 24.114525  | 24.0775575 | 24.01755   | 23.94274   |
| P61089 | Ubiquitin-conjugating enzyme E2 N (EC 2.3.2.23) (Bendless-like ubiquitin-conjugating                                                                                                                        | Ube2n Blu                       | 93765  | 2.9769 | 0.074101 | 1.1302 | 0.23783 | 22.9638375 | 23.2371475 | 23.15518   | 23.2386975 |

|        |                                                                                                                                                                                                                                                                                                |                                     |        |        |          |        |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | enzyme) (E2 ubiquitin-conjugating enzyme N) (Ubc13) (Ubiquitin carrier protein N) (Ubiquitin-protein ligase N)                                                                                                                                                                                 |                                     |        |        |          |        |         |            |            |            |            |
| P31650 | Sodium- and chloride-dependent GABA transporter 3 (GAT-3) (Sodium- and chloride-dependent GABA transporter 4) (GAT-4) (Solute carrier family 6 member 11)                                                                                                                                      | Slc6a11 Gabt3 Gabt4 Gat-4 Gat3 Gat4 | 243616 | 2.9746 | 0.074237 | 1.1294 | 0.23783 | 23.04519   | 22.989765  | 22.8037225 | 22.73623   |
| P60041 | Somatostatin [Cleaved into: Antrin; Somatostatin-28; Somatostatin-14; Neuronostatin (NST)]                                                                                                                                                                                                     | Sst Smst                            | 20604  | 2.9671 | 0.074679 | 1.1268 | 0.23857 | 19.55083   | 19.28852   | 19.5232025 | 18.8711975 |
| Q8BYM5 | Neuroigin-3 (Glotactin homolog)                                                                                                                                                                                                                                                                | Nlgn3                               | 245537 | 2.9616 | 0.075007 | 1.1249 | 0.23911 | 20.6121925 | 20.3650225 | 20.4241525 | 20.0792525 |
| Q00898 | Alpha-1-antitrypsin 1-5 (Alpha-1 protease inhibitor 5) (Serine protease inhibitor 1-5) (Serine protease inhibitor A1e) (Serp1 A1e)                                                                                                                                                             | Serpina1e Dom5 Spi1-5               | 20704  | 2.9522 | 0.075563 | 1.1217 | 0.23939 | 19.0319275 | 20.6437025 | 18.9577825 | 19.4145375 |
| P27659 | 60S ribosomal protein L3 (J1 protein)                                                                                                                                                                                                                                                          | Rpl3                                | 27367  | 2.9533 | 0.075499 | 1.1221 | 0.23939 | 22.07862   | 22.12941   | 22.1064175 | 22.3472625 |
| Q922Q1 | Mitochondrial amidoxime reducing component 2 (mARC2) (EC 1.7.-.-) (Molybdenum cofactor sulfuryase C-terminal domain-containing protein 2) (MOSC domain-containing protein 2) (Moco sulfuryase C-terminal domain-containing protein 2)                                                          | Mtarc2 Marc2 Mg87 Mosc2             | 67247  | 2.9523 | 0.07556  | 1.1217 | 0.23939 | 21.19425   | 21.2750225 | 21.1024775 | 21.33434   |
| Q9JI91 | Alpha-actinin-2 (Alpha-actinin skeletal muscle isoform 2) (F-actin cross-linking protein)                                                                                                                                                                                                      | Actn2                               | 11472  | 2.9474 | 0.075852 | 1.12   | 0.2398  | 19.910305  | 19.8503975 | 19.63253   | 19.7888625 |
| P48962 | ADP/ATP translocase 1 (ADP,ATP carrier protein 1) (ADP,ATP carrier protein, heart/skeletal muscle isoform T1) (Adenine nucleotide translocator 1) (ANT 1) (Solute carrier family 25 member 4) (mANC1)                                                                                          | Slc25a4 Anc1 Ant1                   | 11739  | 2.9406 | 0.076264 | 1.1177 | 0.2398  | 27.1909775 | 27.286055  | 27.132685  | 27.243475  |
| Q9QUR6 | Prolyl endopeptidase (PE) (EC 3.4.21.26) (Post-proline cleaving enzyme)                                                                                                                                                                                                                        | Prep Pep                            | 19072  | 2.9356 | 0.076567 | 1.116  | 0.2398  | 20.042355  | 19.8541375 | 20.176805  | 19.7549225 |
| P46471 | 26S proteasome regulatory subunit 7 (26S proteasome AAA-ATPase subunit RPT1) (Proteasome 26S subunit ATPase 2) (Protein MSS1)                                                                                                                                                                  | Psmc2 Mss1                          | 19181  | 2.9361 | 0.076532 | 1.1162 | 0.2398  | 21.0364675 | 21.0764775 | 21.2874925 | 21.167815  |
| P14115 | 60S ribosomal protein L27a (L29)                                                                                                                                                                                                                                                               | Rpl27a                              | 26451  | 2.9438 | 0.076071 | 1.1188 | 0.2398  | 19.5919975 | 19.6332975 | 19.5606975 | 19.8404625 |
| Q91W90 | Thioredoxin domain-containing protein 5 (Endoplasmic reticulum resident protein 46) (ER protein 46) (ERp46) (Plasma cell-specific thioredoxin-related protein) (PC-TRP) (Thioredoxin-like protein p46)                                                                                         | Txndc5 Tlp46                        | 105245 | 2.9344 | 0.076635 | 1.1156 | 0.2398  | 18.7339525 | 18.919685  | 19.253335  | 19.0997925 |
| P63276 | 40S ribosomal protein S17                                                                                                                                                                                                                                                                      | Rps17                               | 20068  | 2.9317 | 0.0768   | 1.1146 | 0.23982 | 20.6396775 | 20.6835425 | 20.81731   | 20.865275  |
| P97315 | Cysteine and glycine-rich protein 1 (Cysteine-rich protein 1) (CRP) (CRP1)                                                                                                                                                                                                                     | Csrp1 Crp1 Csrp                     | 13007  | 2.9214 | 0.077434 | 1.1111 | 0.24131 | 23.2805325 | 23.3889675 | 23.2634475 | 23.616105  |
| Q99JY0 | Trifunctional enzyme subunit beta, mitochondrial (TP-beta) [Includes: 3-ketoacyl-CoA thiolase (EC 2.3.1.155) (EC 2.3.1.16) (Acetyl-CoA acyltransferase) (Beta-ketothiolase)]                                                                                                                   | Hadhb                               | 231086 | 2.9184 | 0.077618 | 1.11   | 0.24139 | 22.1383925 | 22.16429   | 22.02758   | 22.38348   |
| Q9CWJ9 | Bifunctional purine biosynthesis protein PURH [Includes: Phosphoribosylaminoimidazolecarboxamide formyltransferase (EC 2.1.2.3) (5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase) (AICAR transformylase); IMP cyclohydrolase (EC 3.5.4.10) (ATIC) (IMP synthase) (inosinicas)] | Atic Purh                           | 108147 | 2.9126 | 0.077975 | 1.108  | 0.24201 | 20.07337   | 20.3607425 | 20.4491025 | 20.51156   |
| Q9JLJ2 | 4-trimethylaminobutylaldehyde dehydrogenase (TMABA-DH) (TMABADH) (EC 1.2.1.47) (Aldehyde dehydrogenase family 9 member A1) (EC 1.2.1.3)                                                                                                                                                        | Aldh9a1                             | 56752  | 2.9077 | 0.07828  | 1.1063 | 0.24246 | 19.46713   | 18.59263   | 18.7754825 | 18.1138125 |

|        |                                                                                                                                                                                                                                                                          |                       |        |        |          |        |         |            |            |            |            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
| P62774 | Myotrophin (Granule cell differentiation protein) (Protein V-1)                                                                                                                                                                                                          | Mtpn Gcdp             | 14489  | 2.9045 | 0.07848  | 1.1052 | 0.24259 | 22.37948   | 22.28751   | 22.2619125 | 22.16054   |
| P50580 | Proliferation-associated protein 2G4 (IRES-specific cellular trans-acting factor 45 kDa) (ITAF45) (Mpp1) (Proliferation-associated protein 1) (Protein p38-2G4)                                                                                                          | Pa2g4 Ebp1 Plfap      | 18813  | 2.8772 | 0.080211 | 1.0958 | 0.24644 | 21.0592125 | 21.1332725 | 21.00816   | 21.25133   |
| P54728 | UV excision repair protein RAD23 homolog B (HR23B) (mHR23B) (XP-C repair-complementing complex 58 kDa protein) (p58)                                                                                                                                                     | Rad23b Mhr23b         | 19359  | 2.8812 | 0.079954 | 1.0972 | 0.24644 | 20.3780125 | 20.143555  | 20.3461275 | 20.13644   |
| Q5PR73 | GTP-binding protein Di-Ras2 (Distinct subgroup of the Ras family member 2)                                                                                                                                                                                               | Diras2                | 68203  | 2.8784 | 0.080132 | 1.0962 | 0.24644 | 22.5488225 | 22.378235  | 22.4832175 | 22.324555  |
| Q9Z268 | RasGAP-activating-like protein 1 (RAS protein activator like 1) (Ras GTPase-activating-like protein)                                                                                                                                                                     | Rasal1 Rasal          | 19415  | 2.8716 | 0.080569 | 1.0938 | 0.24655 | 21.22547   | 21.314255  | 21.2715025 | 20.964415  |
| Q8BGN8 | Synaptoporin                                                                                                                                                                                                                                                             | Synpr                 | 72003  | 2.872  | 0.080541 | 1.094  | 0.24655 | 20.89616   | 20.72657   | 20.56315   | 20.4783325 |
| P11404 | Fatty acid-binding protein, heart (Fatty acid-binding protein 3) (Heart-type fatty acid-binding protein) (H-FABP) (Mammary-derived growth inhibitor) (MDGI)                                                                                                              | Fabp3 Fabph1          | 14077  | 2.8664 | 0.080903 | 1.092  | 0.24678 | 22.50638   | 22.3246025 | 22.2819875 | 22.13612   |
| Q80TZ3 | Putative tyrosine-protein phosphatase auxilin (EC 3.1.3.48) (DnaJ homolog subfamily C member 6)                                                                                                                                                                          | Dnajc6 Kiaa0473       | 72685  | 2.8654 | 0.080967 | 1.0917 | 0.24678 | 23.1247625 | 23.0656425 | 23.17001   | 23.05213   |
| Q9R1V7 | Disintegrin and metalloproteinase domain-containing protein 23 (ADAM 23) (Metalloproteinase-like, disintegrin-like, and cysteine-rich protein 3) (MDC-3)                                                                                                                 | Adam23 Mdc3           | 23792  | 2.8594 | 0.081355 | 1.0896 | 0.24747 | 20.91007   | 20.88309   | 20.894895  | 21.2327225 |
| Q9DB77 | Cytochrome b-c1 complex subunit 2, mitochondrial (Complex III subunit 2) (Core protein II) (Ubiquinol-cytochrome-c reductase complex core protein 2)                                                                                                                     | Uqcrc2                | 67003  | 2.8553 | 0.081624 | 1.0882 | 0.24779 | 25.8086175 | 25.77417   | 25.7073325 | 25.78721   |
| Q07076 | Annexin A7 (Annexin VII) (Annexin-7) (Synexin)                                                                                                                                                                                                                           | Anxa7 Anx7            | 11750  | 2.85   | 0.081973 | 1.0863 | 0.24787 | 20.2557825 | 20.1053825 | 20.052185  | 19.8105125 |
| Q6P9K8 | Caskin-1 (CASK-interacting protein 1)                                                                                                                                                                                                                                    | Caskin1 Kiaa1306      | 268932 | 2.8512 | 0.081895 | 1.0867 | 0.24787 | 21.042025  | 21.1072    | 21.103555  | 20.72561   |
| Q9DB05 | Alpha-soluble NSF attachment protein (SNAP-alpha) (N-ethylmaleimide-sensitive factor attachment protein alpha)                                                                                                                                                           | Napa Snapa            | 108124 | 2.8443 | 0.082348 | 1.0843 | 0.24851 | 22.8455175 | 22.7499125 | 22.779885  | 22.669305  |
| P14131 | 40S ribosomal protein S16                                                                                                                                                                                                                                                | Rps16                 | 20055  | 2.8412 | 0.082554 | 1.0833 | 0.24864 | 22.3681825 | 22.387425  | 22.39052   | 22.5597625 |
| Q60714 |                                                                                                                                                                                                                                                                          |                       |        | 2.8356 | 0.082928 | 1.0813 | 0.24927 | 17.481395  | 18.07458   | 17.40785   | 18.336305  |
| P39688 | Tyrosine-protein kinase Fyn (EC 2.7.10.2) (Proto-oncogene c-Fyn) (p59-Fyn)                                                                                                                                                                                               | Fyn                   | 14360  | 2.8137 | 0.084397 | 1.0737 | 0.25024 | 20.2769925 | 20.181505  | 20.026855  | 20.1703575 |
| Q9Z0X1 | Apoptosis-inducing factor 1, mitochondrial (EC 1.6.99.-) (Programmed cell death protein 8)                                                                                                                                                                               | Aifm1 Aif Pdcd8       | 26926  | 2.815  | 0.08431  | 1.0741 | 0.25024 | 21.100935  | 20.878795  | 20.960805  | 20.95017   |
| P70441 | Na(+)/H(+) exchange regulatory cofactor NHERF1 (NHERF-1) (Ezrin-radixin-moesin-binding phosphoprotein 50) (EBP50) (Regulatory cofactor of Na(+)/H(+) exchanger) (Sodium-hydrogen exchanger regulatory factor 1) (Solute carrier family 9 isoform A3 regulatory factor 1) | Slc9a3r1 Nherf Nherf1 | 26941  | 2.8259 | 0.083574 | 1.0779 | 0.25024 | 22.1116025 | 22.1100875 | 21.8597625 | 22.1764875 |
| Q9CWS0 | N(G),N(G)-dimethylarginine dimethylaminohydrolase 1 (DDAH-1) (Dimethylarginine dimethylaminohydrolase 1) (EC 3.5.3.18) (DDAH1) (Dimethylargininase-1)                                                                                                                    | Ddah1                 | 69219  | 2.8144 | 0.084349 | 1.0739 | 0.25024 | 22.8925725 | 22.9787975 | 22.993535  | 23.1820425 |
| Q80VP0 | Tectonin beta-propeller repeat-containing protein 1                                                                                                                                                                                                                      | Tecpr1 Kiaa1358       | 70381  | 2.8163 | 0.084223 | 1.0746 | 0.25024 | 19.463855  | 19.54068   | 19.337865  | 19.59611   |
| Q8BMS1 | Trifunctional enzyme subunit alpha, mitochondrial (Monolysocardiolipin acyltransferase) (EC 2.3.1.-) (TP-alpha) [Includes: Long-chain enoyl-CoA hydratase (EC                                                                                                            | Hadha                 | 97212  | 2.8198 | 0.083984 | 1.0758 | 0.25024 | 23.22733   | 23.3615225 | 23.24398   | 23.5131425 |

|        |                                                                                                                                                                                                                                                                                                             |                                                                                                              |                                                          |        |          |        |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------|----------|--------|---------|------------|------------|------------|------------|
|        | 4.2.1.17); Long chain 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.211)]                                                                                                                                                                                                                                       |                                                                                                              |                                                          |        |          |        |         |            |            |            |            |
| P10853 | Histone H2B type 1-F/J/L (H2B 291A)                                                                                                                                                                                                                                                                         | H2bc7 H2b-f<br>Hist1h2bf; H2bc11<br>H2b-j Hist1h2bj;<br>H2bc13 H2b-l<br>Hist1h2bl; H2bc15<br>H2b-n Hist1h2bn | 319180<br>319183<br>319185<br>319187<br>665596<br>665622 | 2.816  | 0.084245 | 1.0745 | 0.25024 | 24.0500075 | 24.21729   | 24.0728575 | 24.370145  |
| P61079 | Ubiquitin-conjugating enzyme E2 D3 (EC 2.3.2.23) ((E3-independent) E2 ubiquitin-conjugating enzyme D3) (EC 2.3.2.24) (E2 ubiquitin-conjugating enzyme D3) (Ubiquitin carrier protein D3) (Ubiquitin-conjugating enzyme E2(17)KB 3) (Ubiquitin-conjugating enzyme E2-17 kDa 3) (Ubiquitin-protein ligase D3) | Ube2d3                                                                                                       | 66105                                                    | 2.8003 | 0.085314 | 1.069  | 0.25247 | 21.1046325 | 21.1791275 | 21.063345  | 21.18405   |
| Q9JJU8 | SH3 domain-binding glutamic acid-rich-like protein                                                                                                                                                                                                                                                          | Sh3bgrl                                                                                                      | 56726                                                    | 2.7947 | 0.085703 | 1.067  | 0.25313 | 20.3881325 | 20.29911   | 20.090335  | 20.2303025 |
| Q02053 | Ubiquitin-like modifier-activating enzyme 1 (EC 6.2.1.45) (Ubiquitin-activating enzyme E1) (Ubiquitin-activating enzyme E1 X) (Ubiquitin-like modifier-activating enzyme 1 X)                                                                                                                               | Uba1 Sbx Ube1<br>Ube1ax Ube1x                                                                                | 22201                                                    | 2.7867 | 0.086255 | 1.0642 | 0.25354 | 25.492885  | 25.5180125 | 25.4904025 | 25.5767675 |
| Q9Z0E0 | Neurochondrin (M-Sema F-associating protein of 75 kDa) (Norb1)                                                                                                                                                                                                                                              | Ncdn Kiaa0607<br>Sfap75                                                                                      | 26562                                                    | 2.789  | 0.086097 | 1.065  | 0.25354 | 25.4381725 | 25.5320975 | 25.5012575 | 25.330535  |
| Q9DCT8 | Cysteine-rich protein 2 (CRP-2) (Heart LIM protein)                                                                                                                                                                                                                                                         | Crip2 Crp2 Hlp                                                                                               | 68337                                                    | 2.7849 | 0.086384 | 1.0636 | 0.25354 | 20.3037075 | 20.5206625 | 20.687165  | 20.68752   |
| Q8VCM7 | Fibrinogen gamma chain                                                                                                                                                                                                                                                                                      | Fgg                                                                                                          | 99571                                                    | 2.7831 | 0.086506 | 1.063  | 0.25354 | 23.5466275 | 23.96044   | 23.3788125 | 23.4399225 |
| Q5FWK3 | Rho GTPase-activating protein 1 (Rho-type GTPase-activating protein 1)                                                                                                                                                                                                                                      | Arhgap1                                                                                                      | 228359                                                   | 2.779  | 0.08679  | 1.0615 | 0.25389 | 21.198475  | 21.316425  | 21.6087425 | 21.55496   |
| P16546 | Spectrin alpha chain, non-erythrocytic 1 (Alpha-II spectrin) (Fodrin alpha chain)                                                                                                                                                                                                                           | Sptan1 Spna2 Spta2                                                                                           |                                                          | 2.7758 | 0.087016 | 1.0604 | 0.254   | 28.3716425 | 28.34653   | 28.37566   | 28.2578275 |
| Q62108 | Disks large homolog 4 (Postsynaptic density protein 95) (PSD-95) (Synapse-associated protein 90) (SAP-90) (SAP90)                                                                                                                                                                                           | Dlg4 Dlg4 Psd95                                                                                              | 13385                                                    | 2.7721 | 0.087278 | 1.0591 | 0.254   | 23.795675  | 23.84517   | 23.686035  | 23.5282525 |
| P22723 | Gamma-aminobutyric acid receptor subunit gamma-2 (GABA(A) receptor subunit gamma-2)                                                                                                                                                                                                                         | Gabrg2                                                                                                       | 14406                                                    | 2.7691 | 0.087493 | 1.058  | 0.254   | 19.9225875 | 19.958555  | 20.148755  | 19.7881875 |
| Q9QZX7 | Serine racemase (EC 5.1.1.18) (D-serine ammonia-lyase) (D-serine dehydratase) (EC 4.3.1.18) (L-serine ammonia-lyase) (L-serine dehydratase) (EC 4.3.1.17)                                                                                                                                                   | Srr                                                                                                          | 27364                                                    | 2.7704 | 0.087399 | 1.0585 | 0.254   | 21.7476525 | 21.89799   | 21.8426625 | 21.675425  |
| P14869 | 60S acidic ribosomal protein P0 (60S ribosomal protein L10E)                                                                                                                                                                                                                                                | Rplp0 Arbp                                                                                                   | 11837                                                    | 2.7657 | 0.087734 | 1.0568 | 0.25421 | 22.2006275 | 22.30164   | 22.308695  | 22.39508   |
| P56376 | Acylphosphatase-1 (EC 3.6.1.7) (Acylphosphatase, organ-common type isozyme) (Acylphosphate phosphohydrolase 1)                                                                                                                                                                                              | Acyp1 Acype                                                                                                  | 66204                                                    | 2.7598 | 0.08815  | 1.0548 | 0.25445 | 21.1609975 | 20.9972925 | 21.060525  | 21.028905  |
| Q6Q477 | Plasma membrane calcium-transporting ATPase 4 (PMCA4) (EC 7.2.2.10)                                                                                                                                                                                                                                         | Atp2b4                                                                                                       | 381290                                                   | 2.7609 | 0.088073 | 1.0552 | 0.25445 | 21.7767925 | 22.37397   | 22.423705  | 22.1974    |
| O08599 | Syntaxin-binding protein 1 (Protein unc-18 homolog 1) (Unc18-1) (Protein unc-18 homolog A) (Unc-18A)                                                                                                                                                                                                        | Stxbp1                                                                                                       | 20910                                                    | 2.7484 | 0.088969 | 1.0508 | 0.25633 | 27.3239075 | 27.3799075 | 27.561885  | 27.3374925 |
| P01942 | Hemoglobin subunit alpha (Alpha-globin) (Hemoglobin alpha chain)                                                                                                                                                                                                                                            | Hba Hba-a1                                                                                                   |                                                          | 2.7317 | 0.090188 | 1.0449 | 0.25664 | 26.9849575 | 26.4090325 | 26.728875  | 26.9796375 |
| P16014 | Secretogranin-1 (Chromogranin-B) (CgB) (Secretogranin I) (Sgl) [Cleaved into: CCB peptide; PE-11]                                                                                                                                                                                                           | Chgb Scg-1 Scg1                                                                                              | 12653                                                    | 2.7315 | 0.090202 | 1.0448 | 0.25664 | 19.86831   | 19.7689075 | 20.086     | 20.0052975 |
| P34884 | Macrophage migration inhibitory factor (MIF) (EC 5.3.2.1) (Delayed early response protein 6) (DER6) (Glycosylation-inhibiting factor) (GIF) (L-dopachrome isomerase) (L-dopachrome tautomerase) (EC 5.3.3.12) (Phenylpyruvate tautomerase)                                                                  | Mif                                                                                                          | 17319                                                    | 2.7334 | 0.090059 | 1.0455 | 0.25664 | 24.3967175 | 24.22785   | 24.4059625 | 24.31862   |

|        |                                                                                                                                                                                                            |                       |        |        |          |        |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|--------|----------|--------|---------|------------|------------|------------|------------|
| Q9QYR6 | Microtubule-associated protein 1A (MAP-1A) [Cleaved into: MAP1A heavy chain; MAP1 light chain LC2]                                                                                                         | Map1a Mtap1 Mtap1a    | 17754  | 2.7348 | 0.089958 | 1.046  | 0.25664 | 26.001965  | 25.998505  | 25.930255  | 25.84976   |
| Q60771 | Claudin-11 (Oligodendrocyte transmembrane protein) (Oligodendrocyte-specific protein)                                                                                                                      | Cldn11 Osp Otm        | 18417  | 2.7424 | 0.089403 | 1.0486 | 0.25664 | 23.9269025 | 23.85525   | 23.51281   | 24.119235  |
| P47708 | Rabphilin-3A (Exophilin-1)                                                                                                                                                                                 | Rph3a                 | 19894  | 2.7308 | 0.090252 | 1.0445 | 0.25664 | 22.3418675 | 22.25182   | 22.39447   | 21.9778975 |
| Q91V12 | Cytosolic acyl coenzyme A thioester hydrolase (EC 3.1.2.2) (Acyl-CoA thioesterase 7) (Brain acyl-CoA hydrolase) (BACH) (CTE-IIa) (CTE-II) (Long chain acyl-CoA thioester hydrolase)                        | Acot7 Bach            | 70025  | 2.7414 | 0.08948  | 1.0483 | 0.25664 | 25.16185   | 25.0944875 | 25.2099275 | 25.1873875 |
| P62715 | Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform (PP2A-beta) (EC 3.1.3.16)                                                                                                           | Ppp2cb                | 19053  | 2.7255 | 0.090641 | 1.0427 | 0.25727 | 23.7261075 | 23.57846   | 23.7906875 | 23.595475  |
| Q9CY22 | Tumor protein D54 (Tumor protein D52-like 2)                                                                                                                                                               | Tpd52l2               | 66314  | 2.7078 | 0.091953 | 1.0364 | 0.26045 | 20.20917   | 19.82658   | 20.2250175 | 19.99712   |
| Q9CR16 | Peptidyl-prolyl cis-trans isomerase D (PPIase D) (EC 5.2.1.8) (40 kDa peptidyl-prolyl cis-trans isomerase) (Cyclophilin-40) (CYP-40) (Rotamase D)                                                          | Ppid                  | 67738  | 2.7058 | 0.092103 | 1.0357 | 0.26045 | 22.3809925 | 22.3128775 | 22.4365175 | 22.2965425 |
| Q9R0N7 | Synaptotagmin-7 (Synaptotagmin VII) (SyT VII)                                                                                                                                                              | Syt7                  | 54525  | 2.7027 | 0.092341 | 1.0346 | 0.26064 | 19.8690975 | 19.7061875 | 19.697015  | 19.41235   |
| Q9D1G1 | Ras-related protein Rab-1B                                                                                                                                                                                 | Rab1b                 | 76308  | 2.6983 | 0.09267  | 1.0331 | 0.26108 | 21.65644   | 21.545275  | 21.8201125 | 21.49254   |
| Q64332 | Synapsin-2 (Synapsin II)                                                                                                                                                                                   | Syn2                  | 20965  | 2.691  | 0.093227 | 1.0305 | 0.26217 | 26.261625  | 26.265705  | 26.29939   | 26.0664925 |
| Q9R0Q6 | Actin-related protein 2/3 complex subunit 1A (SOP2-like protein) (Sid 329)                                                                                                                                 | Arcp1a Sid329         | 56443  | 2.6802 | 0.094048 | 1.0267 | 0.26399 | 24.2869175 | 24.20099   | 24.1997375 | 24.0572025 |
| Q8BLK3 | Limbic system-associated membrane protein (LSAMP)                                                                                                                                                          | Lsamp                 |        | 2.6736 | 0.094563 | 1.0243 | 0.26416 | 24.7577075 | 24.66237   | 24.537565  | 24.5437325 |
| Q99KB8 | Hydroxyacylglutathione hydrolase, mitochondrial (EC 3.1.2.6) (Glyoxalase II) (Glx II)                                                                                                                      | Hagh Glo2             | 14651  | 2.6728 | 0.094625 | 1.024  | 0.26416 | 21.678445  | 21.4061225 | 21.543645  | 21.51535   |
| P97441 | Zinc transporter 3 (ZnT-3) (Solute carrier family 30 member 3)                                                                                                                                             | Slc30a3 Znt3          | 22784  | 2.675  | 0.094453 | 1.0248 | 0.26416 | 19.5640675 | 19.68675   | 19.75219   | 19.3099025 |
| O70310 | Glycylpeptide N-tetradecanoyltransferase 1 (EC 2.3.1.97) (Myristoyl-CoA:protein N-myristoyltransferase 1) (NMT 1) (Type I N-myristoyltransferase) (Peptide N-myristoyltransferase 1)                       | Nmt1                  | 18107  | 2.6668 | 0.095092 | 1.0219 | 0.26452 | 19.6061825 | 20.0368575 | 20.031165  | 20.029695  |
| Q80ZJ1 | Ras-related protein Rap-2a                                                                                                                                                                                 | Rap2a                 | 76108  | 2.6666 | 0.095101 | 1.0218 | 0.26452 | 18.6266625 | 17.0856075 | 18.4515675 | 17.833025  |
| P67871 | Casein kinase II subunit beta (CK II beta) (Phosvitin)                                                                                                                                                     | Csnk2b Ck2n           | 13001  | 2.6609 | 0.095551 | 1.0198 | 0.26528 | 20.5951425 | 20.7324225 | 20.8089225 | 20.7896475 |
| P48320 | Glutamate decarboxylase 2 (EC 4.1.1.15) (65 kDa glutamic acid decarboxylase) (GAD-65) (Glutamate decarboxylase 65 kDa isoform)                                                                             | Gad2 Gad65            | 14417  | 2.6462 | 0.096711 | 1.0145 | 0.26802 | 21.5833375 | 21.335825  | 21.6132775 | 21.252225  |
| Q8BNW9 | Kelch repeat and BTB domain-containing protein 11                                                                                                                                                          | Kbtbd11 Kiaa0711      | 74901  | 2.6379 | 0.097368 | 1.0116 | 0.26906 | 20.2310175 | 20.013825  | 19.9270375 | 19.88145   |
| Q9DCN2 | NADH-cytochrome b5 reductase 3 (B5R) (Cytochrome b5 reductase) (EC 1.6.2.2) (Diaphorase-1) [Cleaved into: NADH-cytochrome b5 reductase 3 membrane-bound form; NADH-cytochrome b5 reductase 3 soluble form] | Cyb5r3 Dia1           | 109754 | 2.637  | 0.097441 | 1.0113 | 0.26906 | 22.1941675 | 22.146665  | 22.2818875 | 22.524015  |
| Q99LX0 | Protein/nucleic acid deglycase DJ-1 (EC 3.1.2.-) (EC 3.5.1.-) (EC 3.5.1.124) (Maillard deglycase) (Parkinson disease protein 7 homolog) (Parkinsonism-associated deglycase) (Protein DJ-1) (DJ-1)          | Park7                 | 57320  | 2.631  | 0.097925 | 1.0091 | 0.26991 | 23.6112625 | 23.4079675 | 23.5924725 | 23.45832   |
| P50518 | V-type proton ATPase subunit E 1 (V-ATPase subunit E 1) (V-ATPase 31 kDa subunit) (p31) (Vacuolar proton pump subunit E 1)                                                                                 | Atp6v1e1 Atp6e Atp6e2 | 11973  | 2.6243 | 0.098462 | 1.0067 | 0.2709  | 24.7513025 | 24.6788125 | 24.815795  | 24.463865  |

|        |                                                                                                                                                                                                                                                                     |                           |        |        |          |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|--------|----------|---------|---------|------------|------------|------------|------------|
| Q9DCW4 | Electron transfer flavoprotein subunit beta (Beta-ETF)                                                                                                                                                                                                              | Etfb                      | 110826 | 2.6195 | 0.098854 | 1.005   | 0.27149 | 22.48766   | 22.4588525 | 22.296635  | 22.505805  |
| P51863 | V-type proton ATPase subunit d 1 (V-ATPase subunit d 1) (P39) (Physophilin) (V-ATPase 40 kDa accessory protein) (V-ATPase AC39 subunit) (Vacuolar proton pump subunit d 1)                                                                                          | Atp6v0d1 Atp6d            | 11972  | 2.6094 | 0.099683 | 1.0014  | 0.27189 | 24.8605025 | 24.943805  | 24.9798875 | 24.8470025 |
| P18760 | Cofilin-1 (Cofilin, non-muscle isoform)                                                                                                                                                                                                                             | Cfl1                      | 12631  | 2.593  | 0.10104  | 0.9955  | 0.27189 | 26.1293375 | 26.1696775 | 26.194215  | 26.2376025 |
| P06880 | Somatotropin (Growth hormone)                                                                                                                                                                                                                                       | Gh1 Gh                    | 14599  | 2.6035 | 0.10017  | 0.99926 | 0.27189 | 22.0636575 | 21.8499975 | 22.02444   | 21.81627   |
| P08752 | Guanine nucleotide-binding protein G(i) subunit alpha-2 (Adenylate cyclase-inhibiting G alpha protein)                                                                                                                                                              | Gnai2 Gnai-2              | 14678  | 2.5977 | 0.10065  | 0.99721 | 0.27189 | 23.586825  | 23.64845   | 23.547765  | 23.7130475 |
| Q61548 | Clathrin coat assembly protein AP180 (91 kDa synaptosomal-associated protein) (Clathrin coat-associated protein AP180) (Phosphoprotein F1-20)                                                                                                                       | Snap91                    | 20616  | 2.5897 | 0.10131  | 0.99433 | 0.27189 | 25.253145  | 25.2579625 | 25.4304175 | 25.26402   |
| Q63844 | Mitogen-activated protein kinase 3 (MAP kinase 3) (MAPK 3) (EC 2.7.11.24) (ERT2) (Extracellular signal-regulated kinase 1) (ERK-1) (Insulin-stimulated MAP2 kinase) (MAP kinase isoform p44) (p44-MAPK) (MNK1) (Microtubule-associated protein 2 kinase) (p44-ERK1) | Mapk3 Erk1 Prkm3          | 26417  | 2.591  | 0.1012   | 0.99481 | 0.27189 | 19.499605  | 19.7639075 | 19.71235   | 19.50134   |
| Q61151 | Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit epsilon isoform (PP2A B subunit isoform B'-epsilon) (PP2A B subunit isoform B56-epsilon) (PP2A B subunit isoform PR61-epsilon) (PP2A B subunit isoform R5-epsilon)                                | Ppp2r5e Kiaa4006          | 26932  | 2.6057 | 0.099989 | 1       | 0.27189 | 20.3289725 | 20.517265  | 20.5158675 | 19.923175  |
| Q9CX56 | 26S proteasome non-ATPase regulatory subunit 8 (26S proteasome regulatory subunit RPN12) (26S proteasome regulatory subunit S14)                                                                                                                                    | Psm8                      | 57296  | 2.6034 | 0.10017  | 0.99924 | 0.27189 | 19.0540575 | 19.3895275 | 19.1947775 | 19.2376225 |
| Q9D1P4 | Cysteine and histidine-rich domain-containing protein 1 (CHORD domain-containing protein 1) (CHORD-containing protein 1) (Chp-1) (Protein morgana)                                                                                                                  | Chordc1 Chp1 Morgana      | 66917  | 2.6066 | 0.09991  | 1.0004  | 0.27189 | 19.707985  | 19.61735   | 19.9189425 | 19.7097325 |
| Q8K0U4 | Heat shock 70 kDa protein 12A                                                                                                                                                                                                                                       | Hspa12a Kiaa0417          | 73442  | 2.5904 | 0.10126  | 0.99457 | 0.27189 | 24.89296   | 24.8792975 | 24.837095  | 24.785195  |
| Q01853 | Transitional endoplasmic reticulum ATPase (TER ATPase) (EC 3.6.4.6) (15S Mg(2+)-ATPase p97 subunit) (Valosin-containing protein) (VCP)                                                                                                                              | Vcp                       | 269523 | 2.6002 | 0.10044  | 0.9981  | 0.27189 | 25.324255  | 25.35806   | 25.40538   | 25.466705  |
| Q60902 | Epidermal growth factor receptor substrate 15-like 1 (Epidermal growth factor receptor pathway substrate 15-related sequence) (Eps15-rs) (Eps15-related protein) (Eps15R)                                                                                           | Eps15l1 Eps15-rs Eps15R   | 13859  | 2.6041 | 0.10012  | 0.99948 | 0.27189 | 19.8535425 | 19.74855   | 19.85531   | 19.529     |
| Q8VD04 | GRIP1-associated protein 1 (GRASP-1) (HCMV-interacting protein) [Cleaved into: GRASP-1 C-terminal chain (30kDa C-terminus form)]                                                                                                                                    | Gripap1 DXImx47e Kiaa1167 | 54645  | 2.5988 | 0.10056  | 0.99758 | 0.27189 | 18.801905  | 18.63368   | 18.8068825 | 18.172865  |
| Q92511 | ATPase family AAA domain-containing protein 3 (AAA-ATPase TOB3)                                                                                                                                                                                                     | Atad3 Atad3a Kiaa1273     | 108888 | 2.5648 | 0.10343  | 0.98536 | 0.27708 | 20.8626475 | 20.836275  | 20.881015  | 20.6435625 |
| P23953 | Carboxylesterase 1C (EC 3.1.1.1) (Liver carboxylesterase N) (Lung surfactant convertase) (PES-N)                                                                                                                                                                    | Ces1c Es1                 | 13884  | 2.5483 | 0.10485  | 0.97943 | 0.2804  | 17.724455  | 18.7030575 | 17.496805  | 18.4465075 |
| P56564 | Excitatory amino acid transporter 1 (Glial high affinity glutamate transporter) (High-affinity neuronal glutamate transporter) (GluT-1) (Sodium-dependent glutamate/aspartate transporter 1) (GLAST-1) (Solute carrier family 1 member 3)                           | Slc1a3 Ea1 Gmt1           | 20512  | 2.5333 | 0.10617  | 0.974   | 0.28159 | 24.8751925 | 25.1461575 | 24.8792125 | 25.095035  |
| P62281 | 40S ribosomal protein S11                                                                                                                                                                                                                                           | Rps11                     | 27207  | 2.5387 | 0.10569  | 0.97598 | 0.28159 | 21.779895  | 21.7283    | 21.6683275 | 21.8842575 |

|        |                                                                                                                                                                                                                                                                                                                                                                            |                                            |        |        |         |         |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9CZB0 | Succinate dehydrogenase cytochrome b560 subunit, mitochondrial (Integral membrane protein CII-3) (QPs-1) (QPs1)                                                                                                                                                                                                                                                            | Sdhc                                       | 66052  | 2.5327 | 0.10622 | 0.9738  | 0.28159 | 20.5111125 | 20.7822975 | 20.64532   | 20.7455175 |
| Q9CZ30 | Obg-like ATPase 1 (GTP-binding protein 9)                                                                                                                                                                                                                                                                                                                                  | Ola1 Gtpbp9                                | 67059  | 2.5363 | 0.10591 | 0.97508 | 0.28159 | 22.032975  | 21.80158   | 21.984265  | 21.80589   |
| Q99LG2 | Transportin-2 (Karyopherin beta-2b)                                                                                                                                                                                                                                                                                                                                        | Tnp02                                      | 212999 | 2.5339 | 0.10611 | 0.97423 | 0.28159 | 19.49604   | 19.4223325 | 19.665665  | 19.6122825 |
| P15116 | Cadherin-2 (Neural cadherin) (N-cadherin) (CD antigen CD325)                                                                                                                                                                                                                                                                                                               | Cdh2                                       | 12558  | 2.5268 | 0.10674 | 0.97166 | 0.28249 | 21.4047925 | 21.4526075 | 21.611865  | 21.4020175 |
| Q4ACU6 | SH3 and multiple ankyrin repeat domains protein 3 (Shank3) (Proline-rich synapse-associated protein 2) (ProSAP2) (SPANK-2)                                                                                                                                                                                                                                                 | Shank3 Kiaa1650 Prosap2                    | 58234  | 2.5238 | 0.10701 | 0.9706  | 0.28269 | 19.972425  | 19.8473675 | 19.67464   | 19.4587575 |
| Q9CQS8 | Protein transport protein Sec61 subunit beta                                                                                                                                                                                                                                                                                                                               | Sec61b                                     | 66212  | 2.5142 | 0.10787 | 0.96712 | 0.28447 | 22.1925425 | 21.864355  | 21.9117425 | 21.4277125 |
| P12658 | Calbindin (Calbindin D28) (D-28K) (PCD-29) (Spot 35 protein) (Vitamin D-dependent calcium-binding protein, avian-type)                                                                                                                                                                                                                                                     | Calb1                                      | 12307  | 2.5025 | 0.10893 | 0.96287 | 0.28628 | 22.0755875 | 21.98288   | 21.8177725 | 21.55763   |
| D3YVF0 | A-kinase anchor protein 5 (AKAP-5) (A-kinase anchor protein 150 kDa) (AKAP 150) (P150) (cAMP-dependent protein kinase regulatory subunit II high affinity-binding protein)                                                                                                                                                                                                 | Akap5 Akap150                              | 238276 | 2.5031 | 0.10888 | 0.96307 | 0.28628 | 22.088085  | 22.0547925 | 22.100305  | 21.8199625 |
| Q61207 | Prosaposin (Sulfated glycoprotein 1) (SGP-1) [Cleaved into: Saposin-A; Saposin-B-Val; Saposin-B; Saposin-C; Saposin-D]                                                                                                                                                                                                                                                     | Psap Sgp1                                  | 19156  | 2.4987 | 0.10928 | 0.96147 | 0.28671 | 22.02225   | 22.67099   | 22.2164125 | 22.601985  |
| O70133 | ATP-dependent RNA helicase A (EC 3.6.4.13) (DEAH box protein 9) (mHEL-5) (Nuclear DNA helicase II) (NDH II) (RNA helicase A) (RHA)                                                                                                                                                                                                                                         | Dhx9 Ddx9                                  | 13211  | 2.4915 | 0.10993 | 0.95888 | 0.28793 | 21.42117   | 21.35091   | 21.55604   | 21.440435  |
| Q812A2 | SLIT-ROBO Rho GTPase-activating protein 3 (srGAP3) (Rho GTPase-activating protein 14) (WAVE-associated Rac GTPase-activating protein) (WRP)                                                                                                                                                                                                                                | Srgap3 Arhgap14 Kiaa0411 Srgap2            | 259302 | 2.4847 | 0.11056 | 0.95639 | 0.28909 | 20.88799   | 20.685265  | 20.701445  | 20.6751975 |
| Q8CDN6 | Thioredoxin-like protein 1 (32 kDa thioredoxin-related protein)                                                                                                                                                                                                                                                                                                            | Txn1 Trp32 Txnl                            | 53382  | 2.4783 | 0.11115 | 0.95409 | 0.29013 | 21.630335  | 21.495145  | 21.5365925 | 21.561755  |
| P35585 | AP-1 complex subunit mu-1 (AP-mu chain family member mu1A) (Adaptor protein complex AP-1 subunit mu-1) (Adaptor-related protein complex 1 subunit mu-1) (Clathrin assembly protein complex 1 mu-1 medium chain 1) (Clathrin coat assembly protein AP47) (Clathrin coat-associated protein AP47) (Golgi adaptor HA1/AP1 adaptin mu-1 subunit) (Mu-adaptin 1) (Mu1A-adaptin) | Ap1m1 Cltnm                                | 11767  | 2.4737 | 0.11159 | 0.95239 | 0.29028 | 19.6647325 | 19.299035  | 19.72362   | 18.8358525 |
| Q7TME0 | Phospholipid phosphatase-related protein type 4 (EC 3.1.3.4) (Brain-specific phosphatidic acid phosphatase-like protein 1) (Lipid phosphate phosphatase-related protein type 4) (Plasticity-related gene 1 protein) (PRG-1)                                                                                                                                                | Plppr4 D3Bwg0562e Kiaa0455 Lppr4 Php1 Prg1 | 229791 | 2.4741 | 0.11155 | 0.95254 | 0.29028 | 20.338405  | 20.198605  | 20.069515  | 19.8944975 |
| Q62277 | Synaptophysin (BM89 antigen) (Major synaptic vesicle protein p38)                                                                                                                                                                                                                                                                                                          | Syp                                        | 20977  | 2.467  | 0.11222 | 0.94995 | 0.29142 | 25.593415  | 25.3657875 | 25.3367125 | 25.2928175 |
| O35098 | Dihydropyrimidinase-related protein 4 (DRP-4) (Collapsin response mediator protein 3) (CRMP-3) (UNC33-like phosphoprotein 4) (ULIP-4)                                                                                                                                                                                                                                      | Dpysl4 Crmp3 Ulip4                         |        | 2.4583 | 0.11303 | 0.94679 | 0.29305 | 23.318325  | 23.3031225 | 23.4219125 | 23.1401325 |
| O88569 | Heterogeneous nuclear ribonucleoproteins A2/B1 (hnRNP A2/B1)                                                                                                                                                                                                                                                                                                               | Hnrnpa2b1 Hnrpa2b1                         | 53379  | 2.4444 | 0.11436 | 0.94173 | 0.29598 | 25.01149   | 25.0885075 | 25.0522225 | 25.1601925 |
| Q9D051 | Pyruvate dehydrogenase E1 component subunit beta, mitochondrial (PDHE1-B) (EC 1.2.4.1)                                                                                                                                                                                                                                                                                     | Pdhb                                       | 68263  | 2.4396 | 0.11483 | 0.93996 | 0.29668 | 25.2553525 | 25.1412075 | 25.2661425 | 25.1503775 |
| P37040 | NADPH--cytochrome P450 reductase (CPR) (P450R) (EC 1.6.2.4)                                                                                                                                                                                                                                                                                                                | Por                                        | 18984  | 2.4362 | 0.11515 | 0.93873 | 0.2968  | 19.655165  | 19.576305  | 19.802405  | 19.77361   |
| Q8BL65 | Actin-binding LIM protein 2 (abLIM-2) (Actin-binding LIM protein family member 2)                                                                                                                                                                                                                                                                                          | Abim2                                      | 231148 | 2.4351 | 0.11526 | 0.93832 | 0.2968  | 19.77062   | 19.652325  | 19.7123025 | 19.5203525 |
| Q3UNH4 | G protein-regulated inducer of neurite outgrowth 1 (GRIN1)                                                                                                                                                                                                                                                                                                                 | Gprin1                                     | 26913  | 2.4264 | 0.1161  | 0.93515 | 0.29844 | 22.740335  | 22.6526625 | 22.5987175 | 22.3905475 |

|        |                                                                                                                                                                                                                                                                                                                           |                     |        |        |         |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9QXY6 | EH domain-containing protein 3                                                                                                                                                                                                                                                                                            | Ehd3 Ehd2           | 57440  | 2.4236 | 0.11638 | 0.93412 | 0.29844 | 22.3415975 | 22.164895  | 22.6190175 | 22.31251   |
| Q8R0Y6 | Cytosolic 10-formyltetrahydrofolate dehydrogenase (10-FTHFDH) (FDH) (EC 1.5.1.6) (Aldehyde dehydrogenase family 1 member L1)                                                                                                                                                                                              | Aldh1l1 Fthfd       | 107747 | 2.4226 | 0.11648 | 0.93374 | 0.29844 | 25.0010625 | 24.8953575 | 24.9848125 | 25.1718275 |
| Q7TQF7 | Amphiphysin                                                                                                                                                                                                                                                                                                               | Amph Amph1          | 218038 | 2.4167 | 0.11706 | 0.93158 | 0.29942 | 24.4432    | 24.5132475 | 24.5179    | 24.3965625 |
| P42932 | T-complex protein 1 subunit theta (TCP-1-theta) (CCT-theta)                                                                                                                                                                                                                                                               | Cct8 Cctq           | 12469  | 2.4073 | 0.11799 | 0.92815 | 0.30111 | 23.5849125 | 23.526645  | 23.51599   | 23.6705275 |
| P62141 | Serine/threonine-protein phosphatase PP1-beta catalytic subunit (PP-1B) (EC 3.1.3.16) (EC 3.1.3.53)                                                                                                                                                                                                                       | Ppp1cb              | 19046  | 2.4061 | 0.11812 | 0.92769 | 0.30111 | 23.38267   | 23.69027   | 23.627825  | 23.7219425 |
| P62245 | 40S ribosomal protein S15a                                                                                                                                                                                                                                                                                                | Rps15a              | 267019 | 2.3994 | 0.11878 | 0.92524 | 0.30231 | 21.1360775 | 20.9395425 | 21.0712575 | 21.0469825 |
| Q9D819 | Inorganic pyrophosphatase (EC 3.6.1.1) (Pyrophosphate phospho-hydrolase) (PPase)                                                                                                                                                                                                                                          | Ppa1 Pp Pyp         | 67895  | 2.3943 | 0.1193  | 0.92336 | 0.30311 | 21.4941275 | 21.6500575 | 21.720225  | 21.6194125 |
| Q9WU78 | Programmed cell death 6-interacting protein (ALG-2-interacting protein 1) (ALG-2-interacting protein X) (E2F1-inducible protein) (Eig2)                                                                                                                                                                                   | Pdcd6ip Aip1 Alix   | 18571  | 2.3866 | 0.12008 | 0.92054 | 0.30458 | 19.096945  | 19.47218   | 19.4338    | 19.2313825 |
| Q56A07 | Sodium channel subunit beta-2                                                                                                                                                                                                                                                                                             | Scn2b Gm183         | 72821  | 2.3813 | 0.12061 | 0.9186  | 0.30544 | 20.93961   | 20.7865175 | 20.78743   | 20.6990925 |
| Q00612 | Glucose-6-phosphate 1-dehydrogenase X (G6PD) (EC 1.1.1.49)                                                                                                                                                                                                                                                                | G6pdx G6pd G6pd-1   | 14381  | 2.3736 | 0.12141 | 0.91576 | 0.30693 | 19.2350825 | 18.394835  | 19.102335  | 19.31215   |
| Q99PT1 | Rho GDP-dissociation inhibitor 1 (Rho GDI 1) (GDI-1) (Rho-GDI alpha)                                                                                                                                                                                                                                                      | Arhgdia C87222 Gdi1 | 192662 | 2.3602 | 0.1228  | 0.91081 | 0.30994 | 24.3947225 | 24.4123275 | 24.46341   | 24.4594875 |
| Q9CR57 | 60S ribosomal protein L14                                                                                                                                                                                                                                                                                                 | Rpl14               | 67115  | 2.3512 | 0.12374 | 0.90748 | 0.31181 | 21.3395975 | 21.3553725 | 21.27319   | 21.49153   |
| Q55023 | Inositol monophosphatase 1 (IMP 1) (IMPase 1) (EC 3.1.3.25) (D-galactose 1-phosphate phosphatase) (EC 3.1.3.94) (Inositol-1(or 4)-monophosphatase 1) (Lithium-sensitive myo-inositol monophosphatase A1)                                                                                                                  | Impa1               |        | 2.3421 | 0.1247  | 0.90412 | 0.31371 | 22.5081675 | 22.316255  | 22.29202   | 22.241995  |
| P60904 | DnaJ homolog subfamily C member 5 (Cysteine string protein) (CSP)                                                                                                                                                                                                                                                         | Dnajc5              | 13002  | 2.3392 | 0.12501 | 0.90305 | 0.31397 | 23.023615  | 23.161655  | 23.131935  | 23.04478   |
| P62911 | 60S ribosomal protein L32                                                                                                                                                                                                                                                                                                 | Rpl32               | 19951  | 2.3323 | 0.12574 | 0.90053 | 0.31528 | 20.1927    | 20.42766   | 20.2670375 | 20.6557925 |
| Q9CR95 | Adaptin ear-binding coat-associated protein 1 (NECAP endocytosis-associated protein 1) (NECAP-1)                                                                                                                                                                                                                          | Necap1              | 67602  | 2.3291 | 0.12609 | 0.89932 | 0.31564 | 22.4988725 | 22.5173125 | 22.518335  | 22.39385   |
| Q501J6 | Probable ATP-dependent RNA helicase DDX17 (EC 3.6.4.13) (DEAD box protein 17)                                                                                                                                                                                                                                             | Ddx17               | 67040  | 2.3269 | 0.12633 | 0.89851 | 0.31571 | 19.2131675 | 18.6960125 | 19.41424   | 18.9161925 |
| P17427 | AP-2 complex subunit alpha-2 (100 kDa coated vesicle protein C) (Adaptor protein complex AP-2 subunit alpha-2) (Adaptor-related protein complex 2 subunit alpha-2) (Alpha-adaptin C) (Alpha2-adaptin) (Clathrin assembly protein complex 2 alpha-C large chain) (Plasma membrane adaptor HA2/AP2 adaptin alpha C subunit) | Ap2a2 Adtab         | 11772  | 2.3163 | 0.12747 | 0.89458 | 0.31613 | 25.8065725 | 25.768395  | 25.792375  | 25.6989325 |
| Q9QUP5 | Hyaluronan and proteoglycan link protein 1 (Cartilage-linking protein 1) (Cartilage-link protein) (Proteoglycan link protein)                                                                                                                                                                                             | Hapln1 Crtl1        | 12950  | 2.3167 | 0.12743 | 0.89472 | 0.31613 | 22.4792    | 22.58922   | 22.3618625 | 22.5617375 |
| P68037 | Ubiquitin-conjugating enzyme E2 L3 (EC 2.3.2.23) (E2 ubiquitin-conjugating enzyme L3) (UbcM4) (Ubiquitin carrier protein L3) (Ubiquitin-protein ligase L3)                                                                                                                                                                | Ube2l3 Ubc7         | 22195  | 2.3185 | 0.12723 | 0.8954  | 0.31613 | 22.09091   | 22.2623125 | 22.3255575 | 22.392105  |
| P99028 | Cytochrome b-c1 complex subunit 6, mitochondrial (Complex III subunit 6) (Complex III subunit VIII) (Cytochrome c1 non-heme 11 kDa protein) (Mitochondrial hinge protein) (Ubiquinol-cytochrome c reductase complex 11 kDa protein)                                                                                       | Uqcrrh              | 66576  | 2.3193 | 0.12715 | 0.89569 | 0.31613 | 23.302815  | 23.41494   | 23.56353   | 23.348245  |

|        |                                                                                                                                                                                                                                                                                                     |                           |        |        |         |         |         |            |            |            |            |
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| P35802 | Neuronal membrane glycoprotein M6-a (M6a)                                                                                                                                                                                                                                                           | Gpm6a M6a                 | 234267 | 2.3158 | 0.12753 | 0.89439 | 0.31613 | 25.6408975 | 25.6618475 | 25.4774225 | 25.4139575 |
| Q9QXL2 | Kinesin-like protein KIF21A                                                                                                                                                                                                                                                                         | Kif21a Kiaa1708           | 16564  | 2.312  | 0.12794 | 0.89299 | 0.31664 | 20.8484325 | 20.739815  | 20.932985  | 20.7690175 |
| Q64674 | Spermidine synthase (SPDSY) (EC 2.5.1.16) (Putrescine aminopropyltransferase)                                                                                                                                                                                                                       | Srm                       | 20810  | 2.3033 | 0.1289  | 0.88976 | 0.31849 | 20.069475  | 19.945485  | 20.2944125 | 20.4626    |
| Q61361 | Brevican core protein                                                                                                                                                                                                                                                                               | Bcan                      | 12032  | 2.2995 | 0.12932 | 0.88834 | 0.3185  | 24.5733275 | 24.5709525 | 24.44915   | 24.4645575 |
| Q61879 | Myosin-10 (Cellular myosin heavy chain, type B) (Myosin heavy chain 10) (Myosin heavy chain, non-muscle IIb) (Non-muscle myosin heavy chain B) (NMMHC-B) (Non-muscle myosin heavy chain IIb) (NMMHC II-b) (NMMHC-IIb)                                                                               | Myh10                     | 77579  | 2.3003 | 0.12923 | 0.88865 | 0.3185  | 24.2948875 | 24.30214   | 24.4369075 | 24.32807   |
| Q5SSM3 | Rho GTPase-activating protein 44 (Rho-type GTPase-activating protein RICH2) (RhoGAP interacting with CIP4 homologs protein 2) (RICH-2)                                                                                                                                                              | Arhgap44 Rich2            | 216831 | 2.295  | 0.12981 | 0.8867  | 0.31919 | 19.632745  | 19.35102   | 19.499515  | 19.231875  |
| Q91ZA3 | Propionyl-CoA carboxylase alpha chain, mitochondrial (PCCase subunit alpha) (EC 6.4.1.3) (Propanoyl-CoA:carbon dioxide ligase subunit alpha)                                                                                                                                                        | Pcca                      | 110821 | 2.2922 | 0.13012 | 0.88565 | 0.31945 | 20.120005  | 19.97959   | 19.50102   | 19.8112925 |
| Q60972 | Histone-binding protein RBBP4 (Chromatin assembly factor 1 subunit C) (CAF-1 subunit C) (Chromatin assembly factor I p48 subunit) (CAF-I 48 kDa subunit) (CAF-I p48) (Nucleosome-remodeling factor subunit RBAP48) (Retinoblastoma-binding protein 4) (RBBP-4) (Retinoblastoma-binding protein p48) | Rbbp4 Rbap48              | 19646  | 2.279  | 0.13161 | 0.88072 | 0.32225 | 20.3760925 | 20.2647625 | 20.418395  | 20.3967125 |
| P97352 | Protein S100-A13 (S100 calcium-binding protein A13)                                                                                                                                                                                                                                                 | S100a13                   | 20196  | 2.2783 | 0.13169 | 0.88046 | 0.32225 | 18.131695  | 18.2953575 | 19.7270625 | 18.5166075 |
| Q8BFR5 | Elongation factor Tu, mitochondrial                                                                                                                                                                                                                                                                 | Tufm                      | 233870 | 2.2735 | 0.13223 | 0.87867 | 0.32306 | 24.21152   | 24.147785  | 24.2608175 | 24.13836   |
| Q8R570 | Synaptosomal-associated protein 47 (SNAP-47) (Synaptosomal-associated 47 kDa protein)                                                                                                                                                                                                               | Snap47                    | 67826  | 2.2699 | 0.13264 | 0.87734 | 0.32354 | 20.9415075 | 20.91768   | 21.238905  | 21.11578   |
| P11627 | Neural cell adhesion molecule L1 (N-CAM-L1) (NCAM-L1) (CD antigen CD117)                                                                                                                                                                                                                            | L1cam Caml1               |        | 2.2672 | 0.13295 | 0.87632 | 0.32378 | 20.611105  | 20.6420775 | 20.8362275 | 20.61055   |
| Q8K310 | Matrin-3                                                                                                                                                                                                                                                                                            | Matr3                     | 17184  | 2.2622 | 0.13351 | 0.87448 | 0.32464 | 23.0989525 | 23.1511825 | 23.1894125 | 23.225775  |
| Q9D0M3 | Cytochrome c1, heme protein, mitochondrial (EC 7.1.1.8) (Complex III subunit 4) (Complex III subunit IV) (Cytochrome b-c1 complex subunit 4) (Ubiquinol-cytochrome-c reductase complex cytochrome c1 subunit) (Cytochrome c-1)                                                                      | Cyc1                      | 66445  | 2.2474 | 0.13522 | 0.86895 | 0.32828 | 23.39771   | 23.471655  | 23.6619675 | 23.5233275 |
| Q62465 | Synaptic vesicle membrane protein VAT-1 homolog (EC 1.-.-.-)                                                                                                                                                                                                                                        | Vat1 Vat-1                | 26949  | 2.2391 | 0.13619 | 0.86584 | 0.33011 | 19.831905  | 19.5543725 | 19.9018825 | 19.6672875 |
| P62717 | 60S ribosomal protein L18a                                                                                                                                                                                                                                                                          | Rpl18a                    | 76808  | 2.2273 | 0.13759 | 0.86143 | 0.33295 | 21.0991775 | 20.95523   | 20.9013    | 21.2051825 |
| Q99KI0 | Aconitate hydratase, mitochondrial (Aconitase) (EC 4.2.1.3) (Citrate hydro-lyase)                                                                                                                                                                                                                   | Aco2                      | 11429  | 2.2201 | 0.13845 | 0.85872 | 0.33398 | 27.23721   | 27.3280275 | 27.25462   | 27.2800375 |
| Q9R1T4 | Septin-6                                                                                                                                                                                                                                                                                            | Septin6 Kiaa0128 Sept6    | 56526  | 2.2211 | 0.13833 | 0.85908 | 0.33398 | 22.759955  | 22.6238    | 22.8248125 | 22.598395  |
| O55091 | Protein IMPACT (Imprinted and ancient gene protein)                                                                                                                                                                                                                                                 | Impact                    | 16210  | 2.199  | 0.141   | 0.85078 | 0.3396  | 20.226055  | 20.2005975 | 20.0024775 | 20.0814325 |
| Q99JG2 | G-protein coupled receptor 37-like 1 (Endothelin B receptor-like protein 2) (ETBR-LP-2)                                                                                                                                                                                                             | Gpr37l1 Etbrlp2           | 171469 | 2.1967 | 0.14128 | 0.84993 | 0.33973 | 20.1397725 | 20.0319575 | 19.77211   | 20.1641675 |
| Q93092 | Transaldolase (EC 2.2.1.2)                                                                                                                                                                                                                                                                          | Taldo1 Tal Taldo          | 21351  | 2.1894 | 0.14217 | 0.84719 | 0.34135 | 22.2682725 | 22.2503075 | 22.200705  | 22.42503   |
| Q8R464 | Cell adhesion molecule 4 (Immunoglobulin superfamily member 4C) (IgSF4C) (Nectin-like protein 4) (NECL-4) (TSLC1-like protein 2)                                                                                                                                                                    | Cadm4 Igsf4c Nectl4 Tsl12 | 260299 | 2.1815 | 0.14314 | 0.84423 | 0.34314 | 21.0728675 | 21.1710425 | 21.021175  | 21.3208475 |

|        |                                                                                                                                                                                                                                                                                                   |                    |                 |        |         |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q6PIE5 | Sodium/potassium-transporting ATPase subunit alpha-2 (Na(+)/K(+) ATPase alpha-2 subunit) (EC 7.2.2.13) (Na(+)/K(+) ATPase alpha(+) subunit) (Sodium pump subunit alpha-2)                                                                                                                         | Atp1a2             | 98660           | 2.1723 | 0.1443  | 0.84074 | 0.34537 | 26.42665   | 26.4593975 | 26.310885  | 26.489565  |
| Q9JMH9 | Unconventional myosin-XVIIIa (Molecule associated with JAK3 N-terminus) (MAJN) (Myosin containing a PDZ domain) (Surfactant protein receptor SP-R210) (SP-R210)                                                                                                                                   | Myo18a Myspdz      | 360013          | 2.1704 | 0.14453 | 0.84004 | 0.34538 | 20.4775475 | 20.52459   | 20.6484625 | 20.4686225 |
| B0V2N1 | Receptor-type tyrosine-protein phosphatase S (R-PTP-S) (EC 3.1.3.48) (PTPNU-3) (Receptor-type tyrosine-protein phosphatase sigma) (R-PTP-sigma)                                                                                                                                                   | Ptprs              | 19280           | 2.1684 | 0.14479 | 0.83927 | 0.34546 | 22.2077875 | 22.067095  | 22.1101375 | 22.0833075 |
| P62918 | 60S ribosomal protein L8                                                                                                                                                                                                                                                                          | Rpl8               | 26961           | 2.1554 | 0.14643 | 0.83436 | 0.34788 | 21.8135425 | 21.6611125 | 21.73446   | 21.907955  |
| Q8CBE3 | WD repeat-containing protein 37                                                                                                                                                                                                                                                                   | Wdr37 Kiaa0982     | 207615          | 2.155  | 0.14649 | 0.8342  | 0.34788 | 20.11823   | 20.1354525 | 20.1098025 | 19.9721275 |
| Q9D1R9 | 60S ribosomal protein L34                                                                                                                                                                                                                                                                         | Rpl34              | 619547<br>68436 | 2.1554 | 0.14643 | 0.83437 | 0.34788 | 21.2608325 | 21.1926375 | 20.9514275 | 21.1789575 |
| Q923T9 | Calcium/calmodulin-dependent protein kinase type II subunit gamma (CaM kinase II subunit gamma) (CaMK-II subunit gamma) (EC 2.7.11.17)                                                                                                                                                            | Camk2g             | 12325           | 2.1447 | 0.1478  | 0.83032 | 0.34829 | 21.981025  | 21.9373    | 22.1389525 | 21.8266875 |
| P60843 | Eukaryotic initiation factor 4A-I (eIF-4A-I) (eIF4A-I) (EC 3.6.4.13) (ATP-dependent RNA helicase eIF4A-1)                                                                                                                                                                                         | Eif4a1 Ddx2a Eif4a | 13681           | 2.145  | 0.14777 | 0.83043 | 0.34829 | 23.0285775 | 22.94746   | 23.0857825 | 23.1283475 |
| Q63810 | Calcineurin subunit B type 1 (Protein phosphatase 2B regulatory subunit 1) (Protein phosphatase 3 regulatory subunit B alpha isoform 1)                                                                                                                                                           | Ppp3r1 Cnb         | 19058           | 2.1459 | 0.14764 | 0.83078 | 0.34829 | 23.474175  | 23.4508375 | 23.5292425 | 23.191525  |
| Q9JMH6 | Thioredoxin reductase 1, cytoplasmic (TR) (EC 1.8.1.9) (Thioredoxin reductase TR1)                                                                                                                                                                                                                | Txnrd1 Trxr1       | 50493           | 2.1486 | 0.1473  | 0.83181 | 0.34829 | 20.0589025 | 20.1691175 | 20.1365925 | 20.2203275 |
| Q8R164 | Valacyclovir hydrolase (VACVase) (Valacyclovirase) (EC 3.1.-.-) (Biphenyl hydrolase-like protein)                                                                                                                                                                                                 | Bphl               | 68021           | 2.1481 | 0.14737 | 0.83161 | 0.34829 | 19.8775825 | 19.520525  | 19.664065  | 19.856285  |
| Q9ERK4 | Exportin-2 (Exp2) (Chromosome segregation 1-like protein) (Importin-alpha re-exporter)                                                                                                                                                                                                            | Cse1l Xpo2         | 110750          | 2.1412 | 0.14826 | 0.82899 | 0.34882 | 19.6853725 | 19.668915  | 19.825155  | 19.81426   |
| O55143 | Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (SERCA2) (SR Ca(2+)-ATPase 2) (EC 7.2.2.10) (Calcium pump 2) (Calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform) (Endoplasmic reticulum class 1/2 Ca(2+) ATPase)                                   | Atp2a2             | 11938           | 2.1325 | 0.14938 | 0.82572 | 0.35092 | 24.88301   | 24.81383   | 24.900355  | 24.8494625 |
| Q8C0M9 | Isoaspartyl peptidase/L-asparaginase (EC 3.4.19.5) (EC 3.5.1.1) (Asparaginase-like protein 1) (Beta-aspartyl-peptidase) (Isoaspartyl dipeptidase) (L-asparagine amidohydrolase) [Cleaved into: Isoaspartyl peptidase/L-asparaginase alpha chain; Isoaspartyl peptidase/L-asparaginase beta chain] | Asrgl1             | 66514           | 2.1283 | 0.14993 | 0.82411 | 0.35168 | 22.8599625 | 22.791705  | 22.562015  | 22.7752125 |
| P63137 | Gamma-aminobutyric acid receptor subunit beta-2 (GABA(A) receptor subunit beta-2)                                                                                                                                                                                                                 | Gabrb2 Gabrb-2     | 14401           | 2.097  | 0.15409 | 0.81223 | 0.35585 | 20.5663075 | 20.55233   | 20.6029625 | 20.38152   |
| Q8R050 | Eukaryotic peptide chain release factor GTP-binding subunit ERF3A (Eukaryotic peptide chain release factor subunit 3a) (eRF3a) (G1 to S phase transition protein 1 homolog)                                                                                                                       | Gspt1 Erf3a        | 14852           | 2.0976 | 0.15401 | 0.81244 | 0.35585 | 19.3742675 | 19.765525  | 19.59572   | 19.865395  |
| P03911 | NADH-ubiquinone oxidoreductase chain 4 (EC 7.1.1.2) (NADH dehydrogenase subunit 4)                                                                                                                                                                                                                | Mtnd4 mt-Nd4 Nd4   | 17719           | 2.0968 | 0.15412 | 0.81214 | 0.35585 | 21.15215   | 21.15125   | 21.608955  | 21.3260725 |
| P70336 | Rho-associated protein kinase 2 (EC 2.7.11.1) (Rho-associated, coiled-coil-containing protein kinase 2) (Rho-associated, coiled-coil-containing protein kinase II) (ROCK-II) (p164 ROCK-2)                                                                                                        | Rock2              | 19878           | 2.1018 | 0.15344 | 0.81406 | 0.35585 | 21.488015  | 21.2073675 | 21.381725  | 21.42013   |

|        |                                                                                                                                                                                                         |                               |        |        |         |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q62261 | Spectrin beta chain, non-erythrocytic 1 (Beta-II spectrin) (Embryonic liver fodrin) (Fodrin beta chain)                                                                                                 | Sptbn1 Elf Spnb-2 Spnb2 Sptb2 | 20742  | 2.1012 | 0.15353 | 0.81382 | 0.35585 | 27.3577225 | 27.3883375 | 27.36938   | 27.320435  |
| Q9WUM3 | Coronin-1B (Coronin-2)                                                                                                                                                                                  | Coro1b                        | 23789  | 2.1    | 0.15368 | 0.81337 | 0.35585 | 20.8036575 | 20.848315  | 20.8670175 | 20.946675  |
| Q9ERT9 | Protein phosphatase 1 regulatory subunit 1A (Protein phosphatase inhibitor 1) (I-1) (IPP-1)                                                                                                             | Ppp1r1a                       | 58200  | 2.1099 | 0.15236 | 0.81712 | 0.35585 | 19.39776   | 19.4834525 | 19.7059625 | 19.4374025 |
| Q6ZWV7 | 60S ribosomal protein L35                                                                                                                                                                               | Rpl35                         | 66489  | 2.0956 | 0.15427 | 0.81172 | 0.35585 | 20.7927775 | 20.815285  | 20.7037825 | 20.9882125 |
| Q8BGB7 | Enolase-phosphatase E1 (EC 3.1.3.77) (2,3-diketo-5-methylthio-1-phosphopentane phosphatase) (MASA homolog)                                                                                              | Enoph1 Masa                   | 67870  | 2.0993 | 0.15378 | 0.81309 | 0.35585 | 19.47522   | 19.291485  | 19.5278025 | 19.364375  |
| Q80Z38 | SH3 and multiple ankyrin repeat domains protein 2 (Shank2) (Cortactin-binding protein 1) (CortBP1)                                                                                                      | Shank2 Cortbp1 Kiaa1022       | 210274 | 2.1111 | 0.1522  | 0.8176  | 0.35585 | 19.480815  | 19.373935  | 19.5078975 | 19.127155  |
| Q8BLJ3 | PI-PLC X domain-containing protein 3                                                                                                                                                                    | Plcxd3                        | 239318 | 2.1007 | 0.15359 | 0.81364 | 0.35585 | 19.806495  | 19.8003725 | 20.05257   | 19.4760825 |
| P57776 | Elongation factor 1-delta (EF-1-delta)                                                                                                                                                                  | Eef1d                         | 66656  | 2.0914 | 0.15484 | 0.81012 | 0.35662 | 21.0375475 | 21.059075  | 21.166285  | 21.270055  |
| Q9CQ62 | 2,4-dienoyl-CoA reductase, mitochondrial (EC 1.3.1.34) (2,4-dienoyl-CoA reductase [NADPH]) (4-enoyl-CoA reductase [NADPH])                                                                              | Decr1                         | 67460  | 2.0896 | 0.1551  | 0.8094  | 0.35668 | 19.409345  | 19.80846   | 19.6029625 | 19.618875  |
| Q6P9K9 | Neurexin-3 (Neurexin III-alpha) (Neurexin-3-alpha)                                                                                                                                                      | Nrxn3                         | 18191  | 2.0842 | 0.15582 | 0.80737 | 0.35732 | 19.92332   | 19.986915  | 19.8184775 | 19.517625  |
| Q6NXK7 | Inactive dipeptidyl peptidase 10 (Dipeptidyl peptidase X) (DPP X)                                                                                                                                       | Dpp10                         | 269109 | 2.0841 | 0.15584 | 0.80731 | 0.35732 | 21.3815575 | 21.7273325 | 21.678265  | 21.719675  |
| Q60634 | Flotillin-2 (Epidermal surface antigen) (ESA) (Membrane component chromosome 17 surface marker 1 homolog)                                                                                               | Flot2 Esa1 M17s1              | 14252  | 2.0812 | 0.15624 | 0.80622 | 0.3574  | 21.2943125 | 21.3750225 | 21.27532   | 21.2375075 |
| P04370 | Myelin basic protein (MBP) (Myelin A1 protein)                                                                                                                                                          | Mbp Shi                       | 17196  | 2.077  | 0.15682 | 0.8046  | 0.3574  | 28.53891   | 28.64793   | 28.40335   | 28.6230975 |
| Q60692 | Proteasome subunit beta type-6 (EC 3.4.25.1) (Low molecular mass protein 19) (Macropain delta chain) (Multicatalytic endopeptidase complex delta chain) (Proteasome delta chain) (Proteasome subunit Y) | Psmb6 Lmp19                   | 19175  | 2.0783 | 0.15664 | 0.80509 | 0.3574  | 21.5744525 | 21.3830225 | 21.26786   | 21.48401   |
| P62858 | 40S ribosomal protein S28                                                                                                                                                                               | Rps28                         | 54127  | 2.0799 | 0.15642 | 0.80571 | 0.3574  | 21.51703   | 21.3895375 | 21.4783975 | 21.43792   |
| Q6X893 | Choline transporter-like protein 1 (Solute carrier family 44 member 1) (CD antigen CD92)                                                                                                                | Slc44a1 Cd92 Cdw92 Ctl1       | 100434 | 2.0693 | 0.15788 | 0.80166 | 0.35876 | 19.982935  | 20.107035  | 19.883535  | 20.4164725 |
| Q91WC3 | Long-chain-fatty-acid--CoA ligase 6 (EC 6.2.1.3) (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA synthetase 6) (LACS 6)                                                                   | Acs16 Fac16                   | 216739 | 2.0693 | 0.15788 | 0.80167 | 0.35876 | 22.0234975 | 22.113025  | 22.16071   | 22.2753875 |
| Q68FD5 | Clathrin heavy chain 1                                                                                                                                                                                  | Cltc                          | 67300  | 2.0625 | 0.15882 | 0.79908 | 0.36036 | 28.079745  | 28.16562   | 28.238705  | 28.17573   |
| Q04447 | Creatine kinase B-type (EC 2.7.3.2) (B-CK) (Creatine kinase B chain) (Creatine phosphokinase B-type) (CPK-B)                                                                                            | Ckb Ckbb                      | 12709  | 2.0604 | 0.15912 | 0.79826 | 0.36051 | 27.8953075 | 27.96048   | 28.0257025 | 28.04868   |
| Q9JKB1 | Ubiquitin carboxyl-terminal hydrolase isozyme L3 (UCH-L3) (EC 3.4.19.12) (Ubiquitin thioesterase L3)                                                                                                    | Uchl3                         | 50933  | 2.0585 | 0.15939 | 0.79754 | 0.36057 | 21.3683875 | 21.2287    | 21.4622375 | 21.263605  |
| E9Q401 | Ryanodine receptor 2 (RYR-2) (RyR2) (Cardiac muscle ryanodine receptor) (Cardiac muscle ryanodine receptor-calcium release channel) (Type 2 ryanodine receptor)                                         | Ryr2                          | 20191  | 2.05   | 0.16058 | 0.79431 | 0.36235 | 20.1700475 | 19.9793225 | 20.0747475 | 19.6875975 |
| O35682 | Myeloid-associated differentiation marker (Myeloid up-regulated protein)                                                                                                                                | Myadm Mug                     | 50918  | 2.0495 | 0.16065 | 0.79412 | 0.36235 | 19.57986   | 19.2665425 | 19.4359575 | 19.28019   |
| P97478 | 5-demethoxyubiquinone hydroxylase, mitochondrial (DMQ hydroxylase) (EC 1.14.13.-) (Timing protein clk-1 homolog) (Ubiquinone biosynthesis monooxygenase COQ7)                                           | Coq7                          | 12850  | 2.0472 | 0.16098 | 0.79322 | 0.36257 | 20.3190125 | 20.412415  | 20.16596   | 20.2878175 |

|        |                                                                                                                                                                                                   |                              |        |        |         |         |         |             |             |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|--------|---------|---------|---------|-------------|-------------|------------|------------|
| Q01768 | Nucleoside diphosphate kinase B (NDK B) (NDP kinase B) (EC 2.7.4.6) (Histidine protein kinase NDKB) (EC 2.7.13.3) (P18) (nm23-M2)                                                                 | Nme2                         | 18103  | 2.0411 | 0.16185 | 0.79089 | 0.36374 | 20.82418    | 21.2812875  | 21.0021825 | 21.34826   |
| P99026 | Proteasome subunit beta type-4 (EC 3.4.25.1) (Low molecular mass protein 3) (Macropain beta chain) (Multicatalytic endopeptidase complex beta chain) (Proteasome beta chain) (Proteasome chain 3) | Psmb4 Lmp3                   | 19172  | 2.0402 | 0.16198 | 0.79054 | 0.36374 | 21.1233675  | 20.8822325  | 20.9756425 | 20.87658   |
| Q64514 | Tripeptidyl-peptidase 2 (TPP-2) (EC 3.4.14.10) (Tripeptidyl aminopeptidase) (Tripeptidyl-peptidase II) (TPP-II)                                                                                   | Tpp2                         | 22019  | 2.0336 | 0.16292 | 0.78804 | 0.3653  | 21.11985    | 20.8575975  | 21.0408675 | 20.9808025 |
| Q60668 | Heterogeneous nuclear ribonucleoprotein D0 (hnRNP D0) (AU-rich element RNA-binding protein 1)                                                                                                     | Hnrnpd Auf1 Hnrpd            | 11991  | 2.0289 | 0.16359 | 0.78624 | 0.36628 | 23.04563    | 23.0936875  | 22.997385  | 23.1760375 |
| P09671 | Superoxide dismutase [Mn], mitochondrial (EC 1.15.1.1)                                                                                                                                            | Sod2 Sod-2                   | 20656  | 2.0266 | 0.16393 | 0.78533 | 0.36651 | 23.673285   | 23.75485    | 23.636     | 23.7533225 |
| Q08274 | Dystrophia myotonica WD repeat-containing protein (Dystrophia myotonica-containing WD repeat motif protein) (Protein DMR-N9)                                                                      | Dmwd Dm9                     | 13401  | 2.0224 | 0.16454 | 0.78372 | 0.36734 | 19.7124425  | 19.4269825  | 19.2772025 | 19.131225  |
| P29341 | Polyadenylate-binding protein 1 (PABP-1) (Poly(A)-binding protein 1)                                                                                                                              | Pabpc1 Pabp1                 | 18458  | 2.0189 | 0.16505 | 0.78239 | 0.36793 | 22.590635   | 22.5669625  | 22.6267175 | 22.7165075 |
| P05064 | Fructose-bisphosphate aldolase A (EC 4.1.2.13) (Aldolase 1) (Muscle-type aldolase)                                                                                                                | Aldoa Aldo1                  | 11674  | 2.0102 | 0.16633 | 0.77903 | 0.3684  | 28.18695    | 28.2272625  | 28.247895  | 28.1767825 |
| P07901 | Heat shock protein HSP 90-alpha (Heat shock 86 kDa) (HSP 86) (HSP86) (Tumor-specific transplantation 86 kDa antigen) (TSTA)                                                                       | Hsp90aa1 Hsp86 Hsp86-1 Hspca | 15519  | 2.0122 | 0.16603 | 0.77981 | 0.3684  | 25.8297125  | 25.7873175  | 25.9141375 | 25.8326825 |
| P70202 | Latexin (Endogenous carboxypeptidase inhibitor) (EC1) (Tissue carboxypeptidase inhibitor) (TCI)                                                                                                   | Lxn                          | 17035  | 1.9994 | 0.16792 | 0.77489 | 0.3684  | 21.5936175  | 21.552635   | 21.5919925 | 21.7888725 |
| P28667 | MARCKS-related protein (Brain protein F52) (MARCKS-like protein 1) (Macrophage myristoylated alanine-rich C kinase substrate) (Mac-MARCKS) (MacMARCKS)                                            | Marcks1 Mlp Mrp              | 17357  | 1.9978 | 0.16816 | 0.77428 | 0.3684  | 20.3029475  | 19.965855   | 20.1299375 | 19.78903   |
| P14152 | Malate dehydrogenase, cytoplasmic (EC 1.1.1.37) (Cytosolic malate dehydrogenase)                                                                                                                  | Mdh1 Mor2                    | 17449  | 1.9988 | 0.16801 | 0.77466 | 0.3684  | 27.0166675  | 26.9760375  | 27.014905  | 26.980545  |
| P62075 | Mitochondrial import inner membrane translocase subunit Tim13                                                                                                                                     | Timm13 Tim13a Timm13a        | 30055  | 2.0036 | 0.1673  | 0.77651 | 0.3684  | 21.098115   | 20.896255   | 20.9940875 | 20.901705  |
| O55022 | Membrane-associated progesterone receptor component 1 (mPR)                                                                                                                                       | Pgrmc1 Pgrmc                 | 53328  | 2.0066 | 0.16685 | 0.77767 | 0.3684  | 21.993685   | 22.422665   | 22.106815  | 22.199795  |
| Q8R326 | Paraspeckle component 1 (Paraspeckle protein 1) (mPSP1)                                                                                                                                           | Pspc1 Psp1                   | 66645  | 2.0055 | 0.16702 | 0.77722 | 0.3684  | 20.6379775  | 20.6739675  | 20.6260525 | 20.591945  |
| Q7TNP2 | Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform (PP2A subunit A isoform PR65-beta) (PP2A subunit A isoform R1-beta)                                              | Ppp2r1b                      | 73699  | 2.0124 | 0.16601 | 0.77988 | 0.3684  | 21.4929575  | 21.050025   | 21.2127325 | 21.091855  |
| Q6ZQK5 | Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2 (Centaurin-beta-2) (Cnt-b2)                                                                                               | Acap2 Centb2 Kiaa0041        | 78618  | 2.0114 | 0.16615 | 0.7795  | 0.3684  | 18.7664575  | 19.2694075  | 18.4885725 | 18.57583   |
| Q8JZK9 | Hydroxymethylglutaryl-CoA synthase, cytoplasmic (HMG-CoA synthase) (EC 2.3.3.10) (3-hydroxy-3-methylglutaryl coenzyme A synthase)                                                                 | Hmgcs1                       | 208715 | 2.0075 | 0.16672 | 0.77801 | 0.3684  | 18.9460025  | 18.3896425  | 19.0951825 | 19.10734   |
| Q8BHB9 | Chloride intracellular channel protein 6                                                                                                                                                          | Clic6                        | 209195 | 2.0013 | 0.16764 | 0.77563 | 0.3684  | 18.80330975 | 17.79600525 | 13.7502615 | 17.9047905 |
| O55125 | Protein NipSnap homolog 1 (NipSnap1)                                                                                                                                                              | Nipsnap1                     | 18082  | 1.9911 | 0.16915 | 0.77172 | 0.3691  | 22.58473    | 22.6880175  | 22.6673025 | 22.4012975 |
| P08228 | Superoxide dismutase [Cu-Zn] (EC 1.15.1.1)                                                                                                                                                        | Sod1                         | 20655  | 1.9906 | 0.16924 | 0.7715  | 0.3691  | 25.0996975  | 25.110965   | 24.9150725 | 25.0988275 |
| Q9WUM5 | Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial (EC 6.2.1.4) (EC 6.2.1.5) (Succinyl-CoA synthetase subunit alpha) (SCS-alpha)                                                | Suclg1                       | 56451  | 1.9876 | 0.16969 | 0.77036 | 0.3691  | 23.541885   | 23.6509025  | 23.5872925 | 23.7185025 |

|        |                                                                                                                                                                                                                                                                                                                                                                |                                                |        |        |         |         |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9D1K2 | V-type proton ATPase subunit F (V-ATPase subunit F) (V-ATPase 14 kDa subunit) (Vacuolar proton pump subunit F)                                                                                                                                                                                                                                                 | Atp6v1f Atp6s14 Vattf                          | 66144  | 1.9901 | 0.16931 | 0.77131 | 0.3691  | 22.21941   | 22.11957   | 22.2508775 | 22.12736   |
| Q810U4 | Neuronal cell adhesion molecule (Nr-CAM) (Neuronal surface protein Bravo) (mBravo) (NgCAM-related cell adhesion molecule) (Ng-CAM-related)                                                                                                                                                                                                                     | Nrcam Kiaa0343                                 | 319504 | 1.9889 | 0.16949 | 0.77085 | 0.3691  | 22.632895  | 22.4526525 | 22.63077   | 22.57165   |
| P62746 | Rho-related GTP-binding protein RhoB                                                                                                                                                                                                                                                                                                                           | Rhob Arhb                                      | 11852  | 1.9846 | 0.17014 | 0.76918 | 0.36957 | 22.2511725 | 22.11876   | 22.05369   | 21.836475  |
| Q99JY9 | Actin-related protein 3 (Actin-like protein 3)                                                                                                                                                                                                                                                                                                                 | Actr3 Arp3                                     | 74117  | 1.9803 | 0.17078 | 0.76756 | 0.37043 | 24.605165  | 24.56274   | 24.5795475 | 24.47934   |
| Q60865 | Caprin-1 (Cytoplasmic activation- and proliferation-associated protein 1) (GPI-anchored membrane protein 1) (GPI-anchored protein p137) (GPI-p137) (p137GPI) (Membrane component chromosome 11 surface marker 1) (RNA granule protein 105)                                                                                                                     | Caprin1 Gpiap Gpiap1 Gpip137 M11s1 Rng105 G5E5 | 53872  | 1.9767 | 0.17133 | 0.76617 | 0.37056 | 19.95406   | 19.8963025 | 19.8524075 | 20.027505  |
| Q9CQR4 | Acyl-coenzyme A thioesterase 13 (Acyl-CoA thioesterase 13) (EC 3.1.2.-) (Thioesterase superfamily member 2)                                                                                                                                                                                                                                                    | Acot13 Them2                                   | 66834  | 1.9783 | 0.1711  | 0.76675 | 0.37056 | 21.992285  | 21.96932   | 21.807325  | 21.943025  |
| P53026 | 60S ribosomal protein L10a (CSA-19) (Neural precursor cell expressed developmentally down-regulated protein 6) (NEDD-6)                                                                                                                                                                                                                                        | Rpl10a Nedd-6 Nedd6                            |        | 1.97   | 0.17236 | 0.76357 | 0.37174 | 20.961535  | 20.9642475 | 20.990515  | 21.0892725 |
| Q8R2R9 | AP-3 complex subunit mu-2 (Adaptor-related protein complex 3 subunit mu-2) (Clathrin assembly protein assembly protein complex 3 mu-2 medium chain) (Clathrin coat assembly protein AP47 homolog 2) (Clathrin coat-associated protein AP47 homolog 2) (Golgi adaptor AP-1 47 kDa protein homolog 2) (HA1 47 kDa subunit homolog 2) (Mu3B-adaptin) (m3B) (P47B) | Ap3m2                                          | 64933  | 1.9703 | 0.17232 | 0.76367 | 0.37174 | 23.23347   | 22.58191   | 22.6592975 | 23.03037   |
| P26516 | 26S proteasome non-ATPase regulatory subunit 7 (26S proteasome regulatory subunit RPN8) (26S proteasome regulatory subunit S12) (Mov34 protein) (Proteasome subunit p40)                                                                                                                                                                                       | Psmd7 Mov-34 Mov34                             | 17463  | 1.9602 | 0.17387 | 0.75978 | 0.37289 | 18.979025  | 18.401705  | 18.88962   | 18.8515625 |
| Q9JL62 | Glycolipid transfer protein (GLTP)                                                                                                                                                                                                                                                                                                                             | Gltp                                           | 56356  | 1.9615 | 0.17366 | 0.7603  | 0.37289 | 19.6450225 | 19.61048   | 19.58479   | 19.9325825 |
| Q9DCZ1 | GMP reductase 1 (GMPR 1) (EC 1.7.1.7) (Guanosine 5'-monophosphate oxidoreductase 1) (Guanosine monophosphate reductase 1)                                                                                                                                                                                                                                      | Gmpr Gmpr1                                     | 66355  | 1.9612 | 0.17371 | 0.76017 | 0.37289 | 19.14202   | 18.84337   | 19.00103   | 18.673755  |
| Q8BG32 | 26S proteasome non-ATPase regulatory subunit 11 (26S proteasome regulatory subunit RPN6) (26S proteasome regulatory subunit S9) (26S proteasome regulatory subunit p44.5)                                                                                                                                                                                      | Psmd11                                         | 69077  | 1.963  | 0.17343 | 0.76088 | 0.37289 | 21.7323425 | 21.58457   | 21.778875  | 21.7471975 |
| O08997 | Copper transport protein ATOX1 (Metal transport protein ATX1)                                                                                                                                                                                                                                                                                                  | Atox1                                          | 11927  | 1.9555 | 0.17459 | 0.75797 | 0.37392 | 20.5109025 | 20.718725  | 20.3092375 | 20.9204525 |
| Q8BW96 | Calcium/calmodulin-dependent protein kinase type 1D (EC 2.7.11.17) (CaM kinase I delta) (CaM-KI delta) (CaMKI delta) (CaM kinase ID) (CaMKI-like protein kinase) (CKLIK) (mCKLIK)                                                                                                                                                                              | Camk1d                                         | 227541 | 1.9514 | 0.17524 | 0.75637 | 0.37478 | 21.39442   | 21.27285   | 21.3350175 | 21.00776   |
| Q9R0K7 | Plasma membrane calcium-transporting ATPase 2 (PMCA2) (EC 7.2.2.10) (Plasma membrane calcium ATPase isoform 2) (Plasma membrane calcium pump isoform 2)                                                                                                                                                                                                        | Atp2b2 Pmca2                                   | 11941  | 1.9484 | 0.1757  | 0.75522 | 0.37524 | 24.6386025 | 24.528585  | 24.5193025 | 24.37445   |
| Q921M7 | Protein FAM49B                                                                                                                                                                                                                                                                                                                                                 | Fam49b                                         | 223601 | 1.9429 | 0.17656 | 0.7531  | 0.37656 | 22.567335  | 22.5104425 | 22.687915  | 22.464145  |
| O54901 | OX-2 membrane glycoprotein (MRC OX-2 antigen) (CD antigen CD200)                                                                                                                                                                                                                                                                                               | Cd200 Mox2                                     |        | 1.9399 | 0.17704 | 0.75193 | 0.37669 | 20.94984   | 20.80048   | 20.87692   | 20.6563975 |
| Q8BHE3 | Caytaxin                                                                                                                                                                                                                                                                                                                                                       | Atcay                                          | 16467  | 1.9394 | 0.17712 | 0.75173 | 0.37669 | 20.5871175 | 20.79687   | 20.946655  | 20.4572025 |
| Q9R0P3 | S-formylglutathione hydrolase (FGH) (EC 3.1.2.12) (Esterase 10) (Esterase D) (Sid 478)                                                                                                                                                                                                                                                                         | Esd Es10 Sid478                                | 13885  | 1.9303 | 0.17856 | 0.74821 | 0.3787  | 22.1083    | 22.1163975 | 22.183915  | 22.2409275 |

|        |                                                                                                                                                                                                                                                                               |                   |       |        |         |         |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9D5V5 | Cullin-5 (CUL-5)                                                                                                                                                                                                                                                              | Cul5              | 75717 | 1.9317 | 0.17833 | 0.74876 | 0.3787  | 19.1732825 | 19.239835  | 19.46992   | 19.2284975 |
| P48318 | Glutamate decarboxylase 1 (EC 4.1.1.15) (67 kDa glutamic acid decarboxylase) (GAD-67) (Glutamate decarboxylase 67 kDa isoform)                                                                                                                                                | Gad1 Gad67        | 14415 | 1.9207 | 0.1801  | 0.74449 | 0.38143 | 21.8125175 | 21.6859075 | 21.7444075 | 21.64902   |
| P68181 | cAMP-dependent protein kinase catalytic subunit beta (PKA C-beta) (EC 2.7.11.11)                                                                                                                                                                                              | Prkacb Pkacb      | 18749 | 1.9177 | 0.18058 | 0.74333 | 0.38192 | 22.292625  | 22.3777975 | 22.4648225 | 22.29237   |
| Q8BP47 | Asparagine--tRNA ligase, cytoplasmic (EC 6.1.1.22) (Asparaginyl-tRNA synthetase) (AsnRS) (Asparaginyl-tRNA synthetase 1)                                                                                                                                                      | NARS1 Nars        | 70223 | 1.9147 | 0.18106 | 0.74217 | 0.3824  | 22.02164   | 21.834545  | 22.0278375 | 21.861315  |
| P47915 | 60S ribosomal protein L29                                                                                                                                                                                                                                                     | Rpl29 Rpl43       | 19944 | 1.9132 | 0.18131 | 0.74158 | 0.3824  | 19.190305  | 19.2781425 | 18.8343375 | 18.627415  |
| P62748 | Hippocalcin-like protein 1 (Neural visinin-like protein 3) (NVL-3) (NVP-3) (Visinin-like protein 3) (VILIP-3)                                                                                                                                                                 | Hpcal1            | 53602 | 1.9108 | 0.18171 | 0.74063 | 0.38271 | 19.9620275 | 20.2695625 | 20.1347325 | 19.972275  |
| P06801 | NADP-dependent malic enzyme (NADP-ME) (EC 1.1.1.40) (Malic enzyme 1)                                                                                                                                                                                                          | Me1 Mod-1 Mod1    | 17436 | 1.9085 | 0.18207 | 0.73975 | 0.38296 | 21.1115675 | 21.136895  | 21.4282275 | 21.2061275 |
| P45878 | Peptidyl-prolyl cis-trans isomerase FKBP2 (PPIase FKBP2) (EC 5.2.1.8) (13 kDa FK506-binding protein) (13 kDa FKBP) (FKBP-13) (FK506-binding protein 2) (FKBP-2) (Immunophilin FKBP13) (Rotamase)                                                                              | Fkbp2 Fkbp13      | 14227 | 1.9002 | 0.18344 | 0.73651 | 0.3853  | 20.5626475 | 20.551105  | 20.7119125 | 20.64112   |
| O35643 | AP-1 complex subunit beta-1 (Adaptor protein complex AP-1 subunit beta-1) (Adaptor-related protein complex 1 subunit beta-1) (Beta-1-adaptin) (Beta-adaptin 1) (Clathrin assembly protein complex 1 beta large chain) (Golgi adaptor HA1/AP1 adaptin beta subunit)            | Ap1b1 Adtb1       | 11764 | 1.8883 | 0.1854  | 0.7319  | 0.38887 | 24.1948725 | 24.206705  | 24.0873425 | 24.358025  |
| P84099 | 60S ribosomal protein L19                                                                                                                                                                                                                                                     | Rpl19             | 19921 | 1.8825 | 0.18637 | 0.72963 | 0.39034 | 20.765465  | 20.7155975 | 20.6884125 | 20.92402   |
| Q9DBG3 | AP-2 complex subunit beta (AP105B) (Adaptor protein complex AP-2 subunit beta) (Adaptor-related protein complex 2 subunit beta) (Beta-2-adaptin) (Beta-adaptin) (Clathrin assembly protein complex 2 beta large chain) (Plasma membrane adaptor HA2/AP2 adaptin beta subunit) | Ap2b1 Clapb1      | 71770 | 1.8811 | 0.18661 | 0.72907 | 0.39034 | 25.9068125 | 25.9173    | 25.9086125 | 25.84641   |
| Q8VE33 | Ganglioside-induced differentiation-associated protein 1-like 1 (GDAP1-L1)                                                                                                                                                                                                    | Gdap1l1 Gdap1l    |       | 1.8724 | 0.18806 | 0.7257  | 0.39104 | 20.99004   | 20.952685  | 21.2181675 | 21.08673   |
| P47738 | Aldehyde dehydrogenase, mitochondrial (EC 1.2.1.3) (AHD-M1) (ALDH class 2) (ALDH-E2) (ALDH)                                                                                                                                                                                   | Aldh2 Ahd-1 Ahd1  | 11669 | 1.876  | 0.18745 | 0.72711 | 0.39104 | 23.4834875 | 23.634915  | 23.33621   | 23.5046825 |
| Q9JM52 | Misshapen-like kinase 1 (EC 2.7.11.1) (GCK family kinase MINK) (MAPK/ERK kinase kinase 6) (MEK kinase kinase 6) (MEKKK 6) (Misshapen/NIK-related kinase) (Mitogen-activated protein kinase kinase kinase 6)                                                                   | Mink1 Map4k6 Mink | 50932 | 1.8729 | 0.18798 | 0.7259  | 0.39104 | 20.4886525 | 20.375765  | 20.3984275 | 20.1603675 |
| Q8BH66 | Atlastin-1 (EC 3.6.5.-) (Spastic paraplegia 3A homolog)                                                                                                                                                                                                                       | Atl1 Spg3a        | 73991 | 1.8749 | 0.18765 | 0.72665 | 0.39104 | 21.9887    | 21.86403   | 22.026305  | 21.9020675 |
| Q99LR1 | Lysophosphatidylserine lipase ABHD12 (EC 3.1.1.-) (2-arachidonoylglycerol hydrolase ABHD12) (Abhydrolase domain-containing protein 12) (Monoacylglycerol lipase ABHD12) (EC 3.1.1.23) (Oxidized phosphatidylserine lipase ABHD12) (EC 3.1.-.-)                                | Abhd12            | 76192 | 1.8715 | 0.18822 | 0.72533 | 0.39104 | 20.201665  | 20.35325   | 20.342295  | 20.5564025 |
| Q5EBJ4 | Ermin (Juxtanodin) (JN)                                                                                                                                                                                                                                                       | Ernm Kiaa1189     | 77767 | 1.8696 | 0.18854 | 0.72459 | 0.39118 | 20.556005  | 20.531615  | 20.06891   | 20.7982375 |
| Q9CPV4 | Glyoxalase domain-containing protein 4                                                                                                                                                                                                                                        | Glod4             | 67201 | 1.8644 | 0.18942 | 0.72258 | 0.39246 | 22.2263625 | 22.42306   | 22.28275   | 22.392895  |
| Q9QYB1 | Chloride intracellular channel protein 4 (mc3s5/mtCLIC)                                                                                                                                                                                                                       | Clic4             | 29876 | 1.8572 | 0.19065 | 0.71975 | 0.39448 | 20.1279125 | 20.3002475 | 20.150415  | 20.3822825 |
| P62137 | Serine/threonine-protein phosphatase PP1-alpha catalytic subunit (PP-1A) (EC 3.1.3.16)                                                                                                                                                                                        | Ppp1ca Ppp1a      | 19045 | 1.8533 | 0.19132 | 0.71824 | 0.39532 | 21.3409525 | 21.5574625 | 21.481205  | 21.5302325 |

|        |                                                                                                                                                                                                                                                   |                              |              |        |         |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------|--------|---------|---------|---------|------------|------------|------------|------------|
| P63101 | 14-3-3 protein zeta/delta (Protein kinase C inhibitor protein 1) (KCIP-1) (SEZ-2)                                                                                                                                                                 | Ywhaz                        | 22631        | 1.8497 | 0.19195 | 0.71681 | 0.3961  | 27.9458575 | 27.93098   | 27.955     | 27.8132125 |
| P51830 | Adenylate cyclase type 9 (EC 4.6.1.1) (ATP pyrophosphate-lyase 9) (Adenylate cyclase type IX) (Adenyl cyclase 9) (AC9) (Adenyl cyclase type 10) (ACTP10)                                                                                          | Adcy9                        | 11515        | 1.8454 | 0.1927  | 0.71512 | 0.3971  | 19.69338   | 19.6420375 | 19.791265  | 19.4903475 |
| Q99L43 | Phosphatidate cytidylyltransferase 2 (EC 2.7.7.41) (CDP-DAG synthase 2) (CDP-DG synthase 2) (CDP-diacylglycerol synthase 2) (CDS 2) (CDP-diglyceride pyrophosphorylase 2) (CDP-diglyceride synthase 2) (CTP:phosphatidate cytidylyltransferase 2) | Cds2                         | 110911       | 1.8382 | 0.19395 | 0.71231 | 0.39914 | 21.0882125 | 21.0920375 | 21.0291375 | 20.906075  |
| P20357 | Microtubule-associated protein 2 (MAP-2)                                                                                                                                                                                                          | Map2 Mtap2                   | 17756        | 1.8313 | 0.19516 | 0.7096  | 0.40109 | 26.716375  | 26.650575  | 26.76082   | 26.58352   |
| O08788 | Dynactin subunit 1 (150 kDa dynein-associated polypeptide) (DAP-150) (DP-150) (p150-glued)                                                                                                                                                        | Dctn1                        | 13191        | 1.8211 | 0.19696 | 0.70562 | 0.40316 | 23.3115825 | 23.0575075 | 23.1062675 | 23.0674925 |
| Q9Z0S1 | 3'(2'),5'-bisphosphate nucleotidase 1 (EC 3.1.3.7) (Bisphosphate 3'-nucleotidase 1) (PAP-inositol 1,4-phosphatase) (PIP)                                                                                                                          | Bpnt1                        | 23827        | 1.8213 | 0.19693 | 0.7057  | 0.40316 | 22.3861275 | 22.295875  | 22.258435  | 22.2476475 |
| Q9Z2U0 | Proteasome subunit alpha type-7 (EC 3.4.25.1) (Proteasome subunit RC6-1)                                                                                                                                                                          | Psma7                        | 26444        | 1.8212 | 0.19695 | 0.70566 | 0.40316 | 21.69097   | 21.6826225 | 21.7343925 | 21.8547275 |
| Q9QYB5 | Gamma-adducin (Adducin-like protein 70)                                                                                                                                                                                                           | Add3 Addl                    | 27360        | 1.8148 | 0.19809 | 0.70314 | 0.40321 | 24.223955  | 24.4577475 | 24.2002025 | 24.53628   |
| P28656 | Nucleosome assembly protein 1-like 1 (Brain protein DN38) (NAP-1-related protein)                                                                                                                                                                 | Nap1l1 Nrp                   | 53605        | 1.8194 | 0.19727 | 0.70493 | 0.40321 | 21.643505  | 21.725895  | 21.91891   | 21.7925425 |
| P63325 | 40S ribosomal protein S10                                                                                                                                                                                                                         | Rps10                        | 67097        | 1.8153 | 0.198   | 0.70333 | 0.40321 | 20.31554   | 20.4030225 | 20.5251275 | 20.523165  |
| Q80UG2 | Plexin-A4                                                                                                                                                                                                                                         | PlxnA4 Kiaa1550              | 243743       | 1.8171 | 0.19768 | 0.70404 | 0.40321 | 20.2548825 | 20.1580425 | 20.22583   | 20.0120825 |
| Q9Z0H8 | CAP-Gly domain-containing linker protein 2 (Cytoplasmic linker protein 115) (CLIP-115) (Cytoplasmic linker protein 2)                                                                                                                             | Clip2 Clyn2 Kiaa0291         | 269713       | 1.8136 | 0.1983  | 0.70267 | 0.40321 | 20.309265  | 20.241545  | 20.2152475 | 20.0937475 |
| P46660 | Alpha-internexin (Alpha-Inx) (66 kDa neurofilament protein) (NF-66) (Neurofilament-66)                                                                                                                                                            | Ina                          | 226180       | 1.8049 | 0.19986 | 0.69927 | 0.40584 | 25.482535  | 25.4730275 | 25.341795  | 25.7147275 |
| P52196 | Thiosulfate sulfurtransferase (EC 2.8.1.1) (Rhodanese)                                                                                                                                                                                            | Tst                          | 22117        | 1.7968 | 0.20134 | 0.69607 | 0.40721 | 21.5501775 | 21.5298975 | 21.5393675 | 21.75814   |
| Q8CIW6 | Solute carrier family 26 member 6 (Anion exchange transporter) (Chloride-formate exchanger) (Pendrin-L1) (Pendrin-like protein 1) (Putative anion transporter-1) (Pat-1)                                                                          | Slc26a6 Cfex Pat1            | 171429       | 1.7971 | 0.20129 | 0.69617 | 0.40721 | 20.849515  | 20.647635  | 20.383345  | 20.6673325 |
| Q922E4 | Ethanolamine-phosphate cytidylyltransferase (EC 2.7.7.14) (CTP:phosphoethanolamine cytidylyltransferase) (Phosphorylethanolamine transferase)                                                                                                     | Pcyt2                        | 68671        | 1.7977 | 0.20118 | 0.69642 | 0.40721 | 18.555195  | 18.24756   | 18.6736375 | 18.19056   |
| P55264 | Adenosine kinase (AK) (EC 2.7.1.20) (Adenosine 5'-phosphotransferase)                                                                                                                                                                             | Adk                          | 11534        | 1.7864 | 0.20325 | 0.69197 | 0.41053 | 21.914265  | 21.89262   | 21.66765   | 21.8601875 |
| P63323 | 40S ribosomal protein S12                                                                                                                                                                                                                         | Rps12                        |              | 1.7848 | 0.20354 | 0.69134 | 0.41058 | 21.48197   | 21.37451   | 21.5128375 | 21.5889125 |
| Q99J08 | SEC14-like protein 2 (Alpha-tocopherol-associated protein) (TAP)                                                                                                                                                                                  | Sec14l2                      | 67815        | 1.7798 | 0.20447 | 0.68938 | 0.4119  | 20.174925  | 20.0526725 | 20.030335  | 20.06225   |
| Q9Z1S5 | Neuronal-specific septin-3                                                                                                                                                                                                                        | Septin3 Sept3 Sept3          | 24050        | 1.7776 | 0.20489 | 0.68848 | 0.41221 | 23.4170025 | 23.3860375 | 23.4439225 | 23.3386925 |
| Q6GSS7 | Histone H2A type 2-A (H2a-614) (H2a-615) (Histone H2A.2)                                                                                                                                                                                          | Hist2h2aa1; Hist2h2aa2       | 15267 319192 | 1.7723 | 0.20587 | 0.6864  | 0.41364 | 26.5243975 | 26.62431   | 26.5865225 | 26.74332   |
| Q80UG5 | Septin-9 (SL3-3 integration site 1 protein)                                                                                                                                                                                                       | Septin9 Kiaa0991 Sept9 Sint1 | 53860        | 1.7682 | 0.20663 | 0.6848  | 0.41463 | 21.703525  | 21.5005175 | 21.7675975 | 21.747085  |
| P61027 | Ras-related protein Rab-10                                                                                                                                                                                                                        | Rab10                        | 19325        | 1.762  | 0.20781 | 0.68234 | 0.41484 | 23.648165  | 23.537345  | 23.5424875 | 23.4146375 |
| P35278 | Ras-related protein Rab-5C                                                                                                                                                                                                                        | Rab5c                        | 19345        | 1.7605 | 0.2081  | 0.68173 | 0.41484 | 20.99602   | 20.9167875 | 21.03972   | 20.9006325 |

|        |                                                                                                                                                                          |                           |        |        |         |         |         |            |            |            |            |
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| Q8BG51 | Mitochondrial Rho GTPase 1 (MIRO-1) (EC 3.6.5.-) (Ras homolog gene family member T1)                                                                                     | Rhot1 Arht1               | 59040  | 1.7642 | 0.20738 | 0.68323 | 0.41484 | 20.2510825 | 20.2390725 | 20.06814   | 20.1451525 |
| Q921H8 | 3-ketoacyl-CoA thiolase A, peroxisomal (EC 2.3.1.16) (Acetyl-CoA acyltransferase A) (Beta-ketothiolase A) (Peroxisomal 3-oxoacyl-CoA thiolase A)                         | Acaa1a Acaa1              | 113868 | 1.7605 | 0.2081  | 0.68174 | 0.41484 | 19.436975  | 19.2739625 | 19.638955  | 19.9118825 |
| Q8BGZ1 | Hippocalcin-like protein 4 (Neural visinin-like protein 2) (NVP-2)                                                                                                       | Hpcal4                    | 170638 | 1.7662 | 0.20702 | 0.68399 | 0.41484 | 23.4055575 | 23.4331075 | 23.672045  | 23.3891875 |
| Q9QW16 | SRC kinase signaling inhibitor 1 (SNAP-25-interacting protein) (SNIP) (p130Cas-associated protein) (p140Cap)                                                             | Srcin1 Kiaa1684 P140      | 56013  | 1.7579 | 0.20858 | 0.68072 | 0.41526 | 22.9396375 | 22.94882   | 22.96294   | 22.805145  |
| Q9D898 | Actin-related protein 2/3 complex subunit 5-like protein (Arp2/3 complex 16 kDa subunit 2) (ARC16-2)                                                                     | Arpc5l                    | 74192  | 1.7563 | 0.20889 | 0.68008 | 0.41534 | 20.7091625 | 20.9376925 | 20.937645  | 20.6532025 |
| Q8BKC5 | Importin-5 (Imp5) (Importin subunit beta-3) (Karyopherin beta-3) (Ran-binding protein 5) (RanBP5)                                                                        | Ipo5 Kpnb3 Ranbp5         | 70572  | 1.7507 | 0.20994 | 0.6779  | 0.41689 | 20.335625  | 20.23299   | 20.4349525 | 20.414965  |
| P48678 | Prelamin-A/C [Cleaved into: Lamin-A/C]                                                                                                                                   | Lmna Lmn1                 | 16905  | 1.7475 | 0.21057 | 0.6766  | 0.41734 | 22.370225  | 22.3273175 | 22.306805  | 22.580265  |
| Q8BG39 | Synaptic vesicle glycoprotein 2B (Synaptic vesicle protein 2B)                                                                                                           | Sv2b Kiaa0735             | 64176  | 1.7467 | 0.21072 | 0.67629 | 0.41734 | 24.321015  | 24.26816   | 24.379985  | 24.1973325 |
| P97370 | Sodium/potassium-transporting ATPase subunit beta-3 (Sodium/potassium-dependent ATPase subunit beta-3) (ATP-B-3) (CD antigen CD298)                                      | Atp1b3                    | 11933  | 1.7443 | 0.21117 | 0.67536 | 0.4177  | 21.003325  | 20.95489   | 20.9090375 | 21.0943925 |
| Q8K1M6 | Dynamin-1-like protein (EC 3.6.5.5) (Dynamin family member proline-rich carboxyl-terminal domain less) (Dymple) (Dynamin-related protein 1)                              | Dnm1l Drp1                | 74006  | 1.7406 | 0.21189 | 0.67388 | 0.41858 | 23.826325  | 23.7830675 | 23.9388925 | 23.8142    |
| O88447 | Kinesin light chain 1 (KLC 1)                                                                                                                                            | Klc1 Kns2                 |        | 1.7301 | 0.21393 | 0.66974 | 0.42042 | 20.791215  | 20.670745  | 20.78451   | 20.2779875 |
| Q62433 | Protein NDRG1 (N-myc downstream-regulated gene 1 protein) (Protein Ndr1)                                                                                                 | Ndrq1 Ndr1 Ndr1 Tdd5      | 17988  | 1.7314 | 0.21367 | 0.67025 | 0.42042 | 19.8528225 | 20.0626025 | 19.7332225 | 20.1966875 |
| Q61937 | Nucleophosmin (NPM) (Nucleolar phosphoprotein B23) (Nucleolar protein NO38) (Numatrin)                                                                                   | Npm1                      | 18148  | 1.7333 | 0.2133  | 0.67101 | 0.42042 | 23.087325  | 22.94555   | 23.0952725 | 22.8996075 |
| Q9D172 | Glutamine amidotransferase-like class 1 domain-containing protein 3A, mitochondrial                                                                                      | Gatd3a D10Jhu81e          | 28295  | 1.7325 | 0.21347 | 0.67066 | 0.42042 | 23.67039   | 23.7490375 | 23.6334625 | 23.7537025 |
| Q9DBS2 | Tumor protein p63-regulated gene 1-like protein (Mossy fiber terminal-associated vertebrate-specific presynaptic protein) (Protein FAM79A)                               | Tprgl1 Fam79a Mover Tprgl | 67808  | 1.7271 | 0.21451 | 0.66854 | 0.42103 | 20.4439375 | 20.6672175 | 20.5919425 | 20.39719   |
| O88643 | Serine/threonine-protein kinase PAK 1 (EC 2.7.11.1) (Alpha-PAK) (CDC42/RAC effector kinase PAK-A) (p21-activated kinase 1) (PAK-1) (p65-PAK)                             | Pak1 Paka                 |        | 1.7226 | 0.2154  | 0.66675 | 0.42166 | 21.7413025 | 21.64018   | 21.76136   | 21.6056025 |
| Q922Q8 | Leucine-rich repeat-containing protein 59 [Cleaved into: Leucine-rich repeat-containing protein 59, N-terminally processed]                                              | Lrrc59                    | 98238  | 1.7213 | 0.21566 | 0.66623 | 0.42166 | 20.1815175 | 20.2480625 | 20.3221525 | 20.4017575 |
| Q8K1B8 |                                                                                                                                                                          |                           |        | 1.7224 | 0.21543 | 0.66669 | 0.42166 | 19.0068975 | 18.809505  | 18.5544    | 18.6988325 |
| Q9CQ75 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 (Complex I-B8) (CI-B8) (NADH-ubiquinone oxidoreductase B8 subunit)                                          | Ndufa2                    | 17991  | 1.711  | 0.2177  | 0.66214 | 0.42186 | 20.63081   | 20.4590525 | 20.41265   | 20.3201325 |
| P42208 | Septin-2 (Neural precursor cell expressed developmentally down-regulated protein 5) (NEDD-5)                                                                             | Septin2 Nedd5 Nedd5 Sept2 | 18000  | 1.716  | 0.21671 | 0.66412 | 0.42186 | 20.64204   | 20.751585  | 20.62618   | 20.8541625 |
| P15532 | Nucleoside diphosphate kinase A (NDK A) (NDP kinase A) (EC 2.7.4.6) (Metastasis inhibition factor NM23) (NDPK-A) (Tumor metastatic process-associated protein) (nm23-M1) | Nme1 Nm23                 | 18102  | 1.7193 | 0.21605 | 0.66544 | 0.42186 | 25.0971425 | 25.1597825 | 25.0710075 | 25.2437675 |
| Q61206 | Platelet-activating factor acetylhydrolase IB subunit beta (EC 3.1.1.47) (PAF acetylhydrolase 30 kDa subunit) (PAF-AH 30)                                                | Pafah1b2 Pafahb           | 18475  | 1.711  | 0.21769 | 0.66215 | 0.42186 | 22.4614175 | 22.587085  | 22.636415  | 22.48457   |

|        |                                                                                                                                                                                                                                                                  |                         |        |        |         |         |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
|        | kDa subunit) (PAF-AH subunit beta) (PAFAH subunit beta)                                                                                                                                                                                                          |                         |        |        |         |         |         |            |            |            |            |
| Q9EQH3 | Vacuolar protein sorting-associated protein 35 (Maternal-embryonic 3) (Vesicle protein sorting 35)                                                                                                                                                               | Vps35 Mem3              | 65114  | 1.7119 | 0.21751 | 0.66252 | 0.42186 | 22.584645  | 22.67192   | 22.579845  | 22.632905  |
| Q640R3 | Hepatocyte cell adhesion molecule (Protein hepCAM)                                                                                                                                                                                                               | Hepacam                 | 72927  | 1.7122 | 0.21745 | 0.66263 | 0.42186 | 21.62344   | 21.793925  | 21.7023825 | 21.92022   |
| Q80T41 | Gamma-aminobutyric acid type B receptor subunit 2 (GABA-B receptor 2) (GABA-B-R2) (GABA-BR2) (GABABR2) (Gb2) (G-protein coupled receptor 51)                                                                                                                     | Gabbr2 Gm425 Gpr51      | 242425 | 1.7172 | 0.21646 | 0.66462 | 0.42186 | 19.50288   | 19.361815  | 19.403985  | 19.14083   |
| Q8BKX1 | Brain-specific angiogenesis inhibitor 1-associated protein 2 (BAI-associated protein 2) (BAI1-associated protein 2) (Insulin receptor substrate protein of 53 kDa) (IRSp53) (Insulin receptor substrate p53) (Insulin receptor tyrosine kinase 53 kDa substrate) | Baiap2                  | 108100 | 1.7038 | 0.21913 | 0.6593  | 0.4241  | 22.81754   | 22.83521   | 22.9392    | 22.7610075 |
| Q99L47 | Hsc70-interacting protein (Hip) (Protein FAM10A1) (Protein ST13 homolog)                                                                                                                                                                                         | St13 Fam10a1 Hip        | 70356  | 1.702  | 0.21951 | 0.65855 | 0.42429 | 21.6516225 | 21.4180625 | 21.5001875 | 21.52448   |
| Q7TNS2 | MICOS complex subunit Mic10 (Mitochondrial inner membrane organizing system protein 1)                                                                                                                                                                           | Micos10 Mic10 Minos1    | 433771 | 1.6998 | 0.21994 | 0.65769 | 0.42459 | 19.4630625 | 19.0158875 | 19.1341025 | 18.9082175 |
| Q8R1Q8 | Cytoplasmic dynein 1 light intermediate chain 1 (Dynein light chain A) (DLC-A) (Dynein light intermediate chain 1, cytosolic)                                                                                                                                    | Dync1li1 Dncli1 Dncli1  | 235661 | 1.6949 | 0.22092 | 0.65576 | 0.42595 | 21.499335  | 21.515435  | 21.663125  | 21.4737575 |
| Q91WS0 | CDGSH iron-sulfur domain-containing protein 1 (MitoNEET)                                                                                                                                                                                                         | Cisd1 D10Erttd214e Zcd1 | 52637  | 1.6889 | 0.22216 | 0.65334 | 0.42779 | 23.5688075 | 23.4223825 | 23.4003225 | 23.4016775 |
| P07310 | Creatine kinase M-type (EC 2.7.3.2) (Creatine kinase M chain) (Creatine phosphokinase M-type) (CPK-M) (M-CK)                                                                                                                                                     | Ckm Ckmm                | 12715  | 1.6865 | 0.22264 | 0.6524  | 0.42817 | 17.403175  | 18.7427025 | 18.057335  | 19.258625  |
| Q8BG05 | Heterogeneous nuclear ribonucleoprotein A3 (hnRNP A3)                                                                                                                                                                                                            | Hnrnpa3 Hnrpa3          | 229279 | 1.6743 | 0.22515 | 0.64752 | 0.43246 | 23.74997   | 23.691235  | 23.7645125 | 23.7704025 |
| Q9CQJ8 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9 (Complex I-B22) (CI-B22) (NADH-ubiquinone oxidoreductase B22 subunit)                                                                                                                                | Ndufb9                  | 66218  | 1.6722 | 0.22557 | 0.64671 | 0.43273 | 21.2474775 | 20.9408225 | 21.18711   | 20.9599775 |
| P26443 | Glutamate dehydrogenase 1, mitochondrial (GDH 1) (EC 1.4.1.3)                                                                                                                                                                                                    | Glud1 Glud              | 14661  | 1.6661 | 0.22686 | 0.64425 | 0.43464 | 26.1542375 | 26.0922775 | 26.0361175 | 26.1851875 |
| P34022 | Ran-specific GTPase-activating protein (Hpa1 tiny fragments locus 9a protein) (Ran-binding protein 1) (RANBP1)                                                                                                                                                   | Ranbp1 Htf9-a Htf9a     | 19385  | 1.6582 | 0.2285  | 0.64111 | 0.43724 | 21.657345  | 21.5592375 | 21.5177425 | 21.6230225 |
| A2A690 | Protein TANC2 (Tetratricopeptide repeat, ankyrin repeat and coiled-coil domain-containing protein 2)                                                                                                                                                             | Tanc2 Kiaa1148          | 77097  | 1.6545 | 0.22927 | 0.63965 | 0.43817 | 22.12545   | 22.0279275 | 22.1962775 | 22.0636775 |
| P18872 | Guanine nucleotide-binding protein G(o) subunit alpha                                                                                                                                                                                                            | Gnao1 Gna0 Gnao         | 14681  | 1.6496 | 0.23031 | 0.63769 | 0.43892 | 27.21007   | 27.255115  | 27.207925  | 27.1475925 |
| P13595 | Neural cell adhesion molecule 1 (N-CAM-1) (NCAM-1) (CD antigen CD56)                                                                                                                                                                                             | Ncam1 Ncam              | 17967  | 1.6513 | 0.22996 | 0.63835 | 0.43892 | 26.0664925 | 25.9922675 | 25.996575  | 25.94034   |
| Q62443 | Neuronal pentraxin-1 (NP1) (Neuronal pentraxin I) (NP-I)                                                                                                                                                                                                         | Nptx1                   | 18164  | 1.6486 | 0.23052 | 0.63728 | 0.43892 | 21.5859575 | 21.53704   | 21.63118   | 21.4295275 |
| P62812 | Gamma-aminobutyric acid receptor subunit alpha-1 (GABA(A) receptor subunit alpha-1)                                                                                                                                                                              | Gabra1 Gabra-1          | 14394  | 1.6466 | 0.23096 | 0.63647 | 0.43898 | 19.91916   | 19.686455  | 19.73268   | 19.657965  |
| P62484 | Abl interactor 2 (Abelson interactor 2) (Abi-2) (Abl-binding protein 3) (AblBP3) (Arg-binding protein 1) (ArgBP1)                                                                                                                                                | Abi2                    | 329165 | 1.6457 | 0.23114 | 0.63613 | 0.43898 | 20.1299175 | 20.3000775 | 20.04033   | 19.9680975 |
| Q9DAK9 | 14 kDa phosphohistidine phosphatase (EC 3.9.1.3) (Phosphohistidine phosphatase 1) (PHPT1) (Protein histidine phosphatase) (PHP)                                                                                                                                  | Phpt1 Php14             | 75454  | 1.6443 | 0.23144 | 0.63557 | 0.43901 | 19.2601925 | 19.1476925 | 19.0474725 | 19.2116325 |
| Q9WTT4 | V-type proton ATPase subunit G 2 (V-ATPase subunit G 2) (V-ATPase 13 kDa subunit 2) (Vacuolar proton pump subunit G 2)                                                                                                                                           | Atp6v1g2 Atp6g2 Ng38    | 66237  | 1.6404 | 0.23228 | 0.63398 | 0.44007 | 22.5142025 | 22.1933175 | 22.3672175 | 22.2361775 |
| P62889 | 60S ribosomal protein L30                                                                                                                                                                                                                                        | Rpl30                   | 19946  | 1.6375 | 0.23289 | 0.63284 | 0.4404  | 19.5112325 | 19.93717   | 20.1290275 | 20.1385925 |

|        |                                                                                                                                                                            |                         |                 |        |         |         |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|--------|---------|---------|---------|------------|------------|------------|------------|
| P19253 | 60S ribosomal protein L13a (Transplantation antigen P198) (Tum-P198 antigen)                                                                                               | Rpl13a P198 Tstap198-7  | 22121           | 1.636  | 0.23322 | 0.63223 | 0.4404  | 20.372565  | 19.8906075 | 20.154315  | 20.59265   |
| O08539 | Myc box-dependent-interacting protein 1 (Amphiphysin II) (Amphiphysin-like protein) (Bridging integrator 1) (SH3 domain-containing protein 9)                              | Bin1 Amphl Sh3p9        | 30948           | 1.6355 | 0.23332 | 0.63204 | 0.4404  | 23.952735  | 23.95357   | 23.98444   | 23.92924   |
| P16054 | Protein kinase C epsilon type (EC 2.7.11.13) (nPKC-epsilon)                                                                                                                | Prkce Pkce Pkcea        | 18754           | 1.6288 | 0.23478 | 0.62934 | 0.44042 | 22.939975  | 22.81682   | 22.829225  | 22.842845  |
| O35678 | Monoglyceride lipase (MGL) (EC 3.1.1.23) (Monoacylglycerol lipase) (MAGL)                                                                                                  | Mgll                    | 23945           | 1.632  | 0.23409 | 0.63062 | 0.44042 | 21.33746   | 21.3586275 | 21.5030125 | 21.4415025 |
| Q9ES28 | Rho guanine nucleotide exchange factor 7 (Beta-Pix) (PAK-interacting exchange factor beta) (p85SPR)                                                                        | Arhgef7 Kiaa0142 Pak3bp | 54126           | 1.6309 | 0.23431 | 0.63021 | 0.44042 | 19.8435025 | 20.16145   | 19.9897875 | 20.0147025 |
| Q9D023 | Mitochondrial pyruvate carrier 2 (Brain protein 44)                                                                                                                        | Mpc2 Brp44              | 70456           | 1.6299 | 0.23453 | 0.6298  | 0.44042 | 21.8428575 | 21.6630875 | 21.879935  | 21.6776975 |
| Q8BH04 | Phosphoenolpyruvate carboxykinase [GTP], mitochondrial (PEPCK-M) (EC 4.1.1.32)                                                                                             | Pck2                    | 74551           | 1.6303 | 0.23445 | 0.62996 | 0.44042 | 20.5056225 | 20.422785  | 20.2320875 | 19.934475  |
| O35129 | Prohibitin-2 (B-cell receptor-associated protein BAP37) (Repressor of estrogen receptor activity)                                                                          | Phb2 Bap Bcap37 Rea     | 12034           | 1.6219 | 0.23627 | 0.62659 | 0.44054 | 23.46487   | 23.3627575 | 23.511755  | 23.3344525 |
| P23927 | Alpha-crystallin B chain (Alpha(B)-crystallin) (P23)                                                                                                                       | Cryab Crya2             | 12955           | 1.6245 | 0.23571 | 0.62763 | 0.44054 | 19.43798   | 19.713175  | 19.243085  | 20.108425  |
| Q8BH95 | Enoyl-CoA hydratase, mitochondrial (EC 4.2.1.17) (Enoyl-CoA hydratase 1) (Short-chain enoyl-CoA hydratase) (SCEH)                                                          | Echs1                   | 93747           | 1.6257 | 0.23545 | 0.6281  | 0.44054 | 21.8531175 | 21.7135475 | 21.8244675 | 21.733495  |
| Q8K0T0 | Reticulon-1 (Neuroendocrine-specific protein)                                                                                                                              | Rtn1 Nsp                | 104001          | 1.6266 | 0.23524 | 0.62849 | 0.44054 | 24.0506325 | 24.158875  | 24.0719875 | 23.9290625 |
| P17182 | Alpha-enolase (EC 4.2.1.11) (2-phospho-D-glycerate hydro-lyase) (Enolase 1) (Non-neural enolase) (NNE)                                                                     | Eno1 Eno-1              | 13806<br>433182 | 1.6219 | 0.23628 | 0.62657 | 0.44054 | 28.2997075 | 28.300785  | 28.3913    | 28.257975  |
| Q9R0Y5 | Adenylate kinase isoenzyme 1 (AK 1) (EC 2.7.4.3) (EC 2.7.4.6) (ATP-AMP transphosphorylase 1) (ATP-AMP phosphotransferase) (Adenylate monophosphate kinase) (Myokinase)     | Ak1                     | 11636           | 1.6125 | 0.23832 | 0.62284 | 0.4412  | 23.8115    | 23.8810825 | 23.9564025 | 23.9220675 |
| P62827 | GTP-binding nuclear protein Ran (GTPase Ran) (Ras-like protein TC4) (Ras-related nuclear protein)                                                                          | Ran Rasl2-8             | 19384           | 1.6097 | 0.23895 | 0.6217  | 0.4412  | 23.5960125 | 23.60716   | 23.4521675 | 23.63242   |
| P97461 | 40S ribosomal protein S5 [Cleaved into: 40S ribosomal protein S5, N-terminally processed]                                                                                  | Rps5                    | 20103           | 1.6116 | 0.23854 | 0.62244 | 0.4412  | 20.41439   | 20.3512975 | 20.3265025 | 20.415515  |
| P53986 | Monocarboxylate transporter 1 (MCT 1) (Solute carrier family 16 member 1)                                                                                                  | Slc16a1 Mct1            | 20501           | 1.6146 | 0.23787 | 0.62367 | 0.4412  | 18.8897575 | 19.1590975 | 19.0004625 | 19.377595  |
| Q8C8R3 | Ankyrin-2 (ANK-2) (Ankyrin-B) (Brain ankyrin)                                                                                                                              | Ank2 AnkB               | 109676          | 1.6126 | 0.23831 | 0.62285 | 0.4412  | 25.199355  | 25.18206   | 25.286135  | 25.1912275 |
| A6H690 | IQ and AAA domain-containing protein 1-like (Protein IQCA1P1)                                                                                                              | lqca1l lqca1p1          | 231045          | 1.6184 | 0.23703 | 0.6252  | 0.4412  | 21.39261   | 21.184655  | 21.1195075 | 21.1159325 |
| Q5M8N0 | CB1 cannabinoid receptor-interacting protein 1 (CRIP-1)                                                                                                                    | Cnrip1                  | 380686          | 1.6139 | 0.23803 | 0.62336 | 0.4412  | 22.88075   | 22.901855  | 22.9471275 | 22.7436125 |
| O54962 | Barrier-to-autointegration factor (Breakpoint cluster region protein 1) (LAP2-binding protein 1) [Cleaved into: Barrier-to-autointegration factor, N-terminally processed] | Banf1 Baf Bcrp1 L2bp1   | 23825           | 1.6101 | 0.23886 | 0.62185 | 0.4412  | 20.7531375 | 19.87218   | 19.847125  | 20.0027775 |
| Q8CAA7 | Glucose 1,6-bisphosphate synthase (EC 2.7.1.106) (Phosphoglucomutase-2-like 1)                                                                                             | Pgm2l1                  | 70974           | 1.5974 | 0.24167 | 0.61677 | 0.44516 | 22.8754075 | 22.853785  | 22.9411825 | 22.8159    |
| Q810U3 | Neurofascin                                                                                                                                                                | Nfasc                   | 269116          | 1.5975 | 0.24165 | 0.61681 | 0.44516 | 23.853365  | 23.90695   | 23.925985  | 23.996725  |
| Q9D7G0 | Ribose-phosphate pyrophosphokinase 1 (EC 2.7.6.1) (Phosphoribosyl pyrophosphate synthase I) (PRS-I)                                                                        | Prps1                   | 19139           | 1.5926 | 0.24277 | 0.61481 | 0.44663 | 20.97431   | 21.2074525 | 20.9870575 | 21.1025075 |
| Q8R191 | Synaptogyrin-3                                                                                                                                                             | Syngr3                  | 20974           | 1.5872 | 0.24397 | 0.61266 | 0.44831 | 23.08334   | 23.04276   | 23.16649   | 22.9513825 |

|        |                                                                                                                                                                                                                                                                                                 |                                               |             |        |         |         |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9WV98 | Mitochondrial import inner membrane translocase subunit Tim9                                                                                                                                                                                                                                    | Timm9 Tim9 Tim9a Timm9a                       | 30056       | 1.5842 | 0.24465 | 0.61146 | 0.44901 | 21.6717725 | 21.5695975 | 21.4690275 | 21.55871   |
| P47955 | 60S acidic ribosomal protein P1                                                                                                                                                                                                                                                                 | Rplp1                                         | 56040       | 1.5814 | 0.24529 | 0.61032 | 0.44965 | 21.277915  | 21.6655125 | 21.743045  | 21.8272325 |
| Q8JZN5 | Complex I assembly factor ACAD9, mitochondrial (Acyl-CoA dehydrogenase family member 9) (ACAD-9) (EC 1.3.8.-)                                                                                                                                                                                   | Acad9                                         | 229211      | 1.5753 | 0.24669 | 0.60785 | 0.45167 | 20.2101975 | 20.4041825 | 20.2244    | 20.3824525 |
| Q8CHG7 | Rap guanine nucleotide exchange factor 2 (Cyclic nucleotide ras GEF) (CNrasGEF) (Neural RAP guanine nucleotide exchange protein) (nRap GEP) (PDZ domain-containing guanine nucleotide exchange factor 1) (PDZ-GEF1) (RA-GEF-1) (Ras/Rap1-associating GEF-1)                                     | Rapgef2 Kiaa0313 Pdzgef1                      |             | 1.5717 | 0.2475  | 0.60642 | 0.45262 | 20.12634   | 19.9344275 | 19.97509   | 19.6417625 |
| Q9WV34 | MAGUK p55 subfamily member 2 (Discs large homolog 2) (Protein MPP2)                                                                                                                                                                                                                             | Mpp2 DlgH2                                    | 50997       | 1.5629 | 0.24953 | 0.60288 | 0.45469 | 20.5912825 | 20.74164   | 20.7176325 | 20.3885275 |
| Q9Z2I0 | Mitochondrial proton/calcium exchanger protein (Leucine zipper-EF-hand-containing transmembrane protein 1)                                                                                                                                                                                      | Letm1                                         | 56384       | 1.563  | 0.24951 | 0.60291 | 0.45469 | 22.6267475 | 22.5736625 | 22.718345  | 22.52023   |
| Q8K4Z3 | NAD(P)H-hydrate epimerase (EC 5.1.99.6) (Apolipoprotein A-I-binding protein) (AI-BP) (NAD(P)HX epimerase)                                                                                                                                                                                       | Naxe Aibp Apoa1bp                             | 246703      | 1.5654 | 0.24897 | 0.60386 | 0.45469 | 20.54795   | 20.687055  | 20.8510175 | 20.568405  |
| Q8VE52 | Opioid growth factor receptor-like protein 1                                                                                                                                                                                                                                                    | Ogfrl1                                        | 70155       | 1.559  | 0.25044 | 0.6013  | 0.4558  | 19.2641475 | 19.056995  | 19.1874975 | 18.62585   |
| Q9D6J5 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial (Complex I-ASH1) (CI-ASH1) (NADH-ubiquinone oxidoreductase ASH1 subunit)                                                                                                                                             | Ndubf8                                        | 67264       | 1.5533 | 0.25177 | 0.599   | 0.45768 | 21.8701125 | 21.704885  | 21.81174   | 21.66064   |
| Q9JM63 | ATP-sensitive inward rectifier potassium channel 10 (Inward rectifier K(+) channel Kir4.1) (Potassium channel, inwardly rectifying subfamily J member 10)                                                                                                                                       | Kcnj10                                        | 16513       | 1.5519 | 0.25209 | 0.59844 | 0.45772 | 19.3711625 | 19.0694825 | 19.4929175 | 19.69413   |
| Q64133 | Amine oxidase [flavin-containing] A (EC 1.4.3.4) (Monoamine oxidase type A) (MAO-A)                                                                                                                                                                                                             | Maoa                                          | 17161       | 1.5457 | 0.25357 | 0.5959  | 0.45986 | 20.0424025 | 20.1763525 | 20.065545  | 20.1772375 |
| Q9WV02 | RNA-binding motif protein, X chromosome (Heterogeneous nuclear ribonucleoprotein G) (hnRNP G) (Cleaved into: RNA-binding motif protein, X chromosome, N-terminally processed)                                                                                                                   | RbmX Hnmpg Hnpg Rbmxp1 Rbmxt                  | 19655       | 1.5388 | 0.2552  | 0.59312 | 0.46172 | 21.7901975 | 21.757975  | 21.757835  | 21.6940425 |
| P60122 | RuvB-like 1 (EC 3.6.4.12) (49 kDa TATA box-binding protein-interacting protein) (49 kDa TBP-interacting protein) (DNA helicase p50) (Pontin 52) (TIP49a)                                                                                                                                        | Ruvbl1 Tip49 Tip49a                           | 56505       | 1.5389 | 0.25517 | 0.59316 | 0.46172 | 19.7838125 | 19.187455  | 19.42888   | 19.4032925 |
| P47809 | Dual specificity mitogen-activated protein kinase kinase 4 (MAP kinase kinase 4) (MAPKK 4) (EC 2.7.12.2) (C-JUN N-terminal kinase kinase 1) (JNK kinase 1) (JNKK 1) (JNK-activating kinase 1) (MAPK/ERK kinase 4) (MEK 4) (SAPK/ERK kinase 1) (SEK1)                                            | Map2k4 Jnkk1 Mek4 Mkk4 Prkmk4 Sek1 Serk1 Skk1 | 26398       | 1.5351 | 0.25606 | 0.59166 | 0.46273 | 20.9313075 | 20.877625  | 20.91667   | 20.79767   |
| P56382 | ATP synthase subunit epsilon, mitochondrial (ATPase subunit epsilon) (ATP synthase F1 subunit epsilon)                                                                                                                                                                                          | Atp5f1e Atp5e                                 | 67126       | 1.5319 | 0.25685 | 0.59033 | 0.46276 | 22.63867   | 22.533695  | 22.3065575 | 22.4969475 |
| Q6P069 | Sorcin                                                                                                                                                                                                                                                                                          | Sri                                           | 109552      | 1.5313 | 0.25699 | 0.59009 | 0.46276 | 19.9793    | 19.849545  | 19.6297875 | 19.9236275 |
| P83882 | 60S ribosomal protein L36a (60S ribosomal protein L44)                                                                                                                                                                                                                                          | Rpl36a Rpl44                                  | 19982 66483 | 1.5332 | 0.25654 | 0.59085 | 0.46276 | 19.3753425 | 19.15625   | 19.142665  | 19.442005  |
| O09131 | Glutathione S-transferase omega-1 (GSTO-1) (EC 2.5.1.18) (Glutathione S-transferase omega 1-1) (GSTO 1-1) (Glutathione-dependent dehydroascorbate reductase) (EC 1.8.5.1) (Monomethylarsonic acid reductase) (MMA(V) reductase) (EC 1.20.4.2) (S-(Phenacyl)glutathione reductase) (SPG-R) (p28) | Gsto1 Gstx Gtsttl                             | 14873       | 1.5265 | 0.25813 | 0.58816 | 0.46317 | 19.976885  | 20.106335  | 19.8689525 | 20.08764   |
| P54227 | Stathmin (Leukemia-associated gene protein) (Leukemia-associated phosphoprotein p18)                                                                                                                                                                                                            | Stmn1 Lag Lap18 Pr22                          | 16765       | 1.528  | 0.25778 | 0.58875 | 0.46317 | 23.0840575 | 23.1200225 | 23.259415  | 23.22774   |

|        |                                                                                                                                                                                                                                                                                                                                                                                                        |                         |        |        |         |         |         |            |            |            |            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
|        | (Metablastin) (Oncoprotein 18) (Op18)<br>(Phosphoprotein p19) (pp19) (Prosolin) (Protein Pr22) (pp17)                                                                                                                                                                                                                                                                                                  |                         |        |        |         |         |         |            |            |            |            |
| Q9Z1P6 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7 (Complex I-B14.5a) (CI-B14.5a) (NADH-ubiquinone oxidoreductase subunit B14.5a)                                                                                                                                                                                                                                                            | Ndufa7                  | 66416  | 1.5268 | 0.25806 | 0.58828 | 0.46317 | 22.34271   | 22.1386075 | 21.9814125 | 21.9703075 |
| P62874 | Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 (Transducin beta chain 1)                                                                                                                                                                                                                                                                                                             | Gnb1                    | 14688  | 1.5213 | 0.2594  | 0.58603 | 0.46491 | 26.5590375 | 26.5756825 | 26.654635  | 26.5037025 |
| O09111 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial (Complex I-ESSS) (CI-ESSS) (NADH-ubiquinone oxidoreductase ESSS subunit) (Neuronal protein 15.6) (Np15.6) (p15.6)                                                                                                                                                                                                          | Ndubf11 Np15            | 104130 | 1.515  | 0.26093 | 0.58348 | 0.4671  | 21.6456425 | 21.5031775 | 21.4325075 | 21.453995  |
| P06151 | L-lactate dehydrogenase A chain (LDH-A) (EC 1.1.1.27) (LDH muscle subunit) (LDH-M)                                                                                                                                                                                                                                                                                                                     | Ldha Ldh-1 Ldh1         | 16828  | 1.5093 | 0.2623  | 0.5812  | 0.46816 | 25.8183225 | 25.7496725 | 25.8402    | 25.7972275 |
| P48722 | Heat shock 70 kDa protein 4L (Heat shock 70-related protein APG-1) (Osmotic stress protein 94)                                                                                                                                                                                                                                                                                                         | Hspa4l Apg1 Hsp4l Osp94 | 18415  | 1.5092 | 0.26232 | 0.58117 | 0.46816 | 23.95763   | 23.8304275 | 23.9702075 | 23.9706    |
| P61982 | 14-3-3 protein gamma [Cleaved into: 14-3-3 protein gamma, N-terminally processed]                                                                                                                                                                                                                                                                                                                      | Ywhag                   | 22628  | 1.5088 | 0.26244 | 0.58098 | 0.46816 | 26.4693725 | 26.38972   | 26.5063525 | 26.36224   |
| Q9WV69 | Dematin (Dematin actin-binding protein) (Erythrocyte membrane protein band 4.9)                                                                                                                                                                                                                                                                                                                        | Dmtn Epb4.9 Epb49       | 13829  | 1.5056 | 0.26322 | 0.57968 | 0.469   | 22.69244   | 22.5713375 | 22.6038775 | 22.5224775 |
| Q9WTP6 | Adenylate kinase 2, mitochondrial (AK 2) (EC 2.7.4.3) (ATP-AMP transphosphorylase 2) (ATP:AMP phosphotransferase) (Adenylate monophosphate kinase)                                                                                                                                                                                                                                                     | Ak2                     | 11637  | 1.498  | 0.2651  | 0.5766  | 0.4699  | 21.164745  | 21.02926   | 20.7939025 | 20.6754725 |
| O54774 | AP-3 complex subunit delta-1 (AP-3 complex subunit delta) (Adaptor-related protein complex 3 subunit delta-1) (Delta-adaptin) (mBLVR1)                                                                                                                                                                                                                                                                 | Ap3d1 Ap3d              | 11776  | 1.4995 | 0.26471 | 0.57723 | 0.4699  | 22.17141   | 22.1904675 | 22.26461   | 22.05567   |
| P62821 | Ras-related protein Rab-1A (YPT1-related protein)                                                                                                                                                                                                                                                                                                                                                      | Rab1A Rab1              | 19324  | 1.4973 | 0.26526 | 0.57632 | 0.4699  | 24.49403   | 24.422785  | 24.434465  | 24.374545  |
| Q9R0X4 | Acyl-coenzyme A thioesterase 9, mitochondrial (Acyl-CoA thioesterase 9) (EC 3.1.2.-) (Acyl coenzyme A thioester hydrolase 2) (MTE-2) (Acyl-CoA thioester hydrolase 9) (Mitochondrial 48 kDa acyl-CoA thioester hydrolase 1) (Mt-ACT48.1) (Protein U8) (p48)                                                                                                                                            | Acot9 Acate2            | 56360  | 1.5003 | 0.26452 | 0.57755 | 0.4699  | 19.661065  | 19.669025  | 19.62247   | 19.267925  |
| Q6R891 | Neurabin-2 (Neurabin-II) (Protein phosphatase 1 regulatory subunit 9B) (Spinophilin)                                                                                                                                                                                                                                                                                                                   | Ppp1r9b                 | 217124 | 1.4994 | 0.26474 | 0.57717 | 0.4699  | 22.2610575 | 22.1752075 | 22.2037525 | 22.073735  |
| P54775 | 26S proteasome regulatory subunit 6B (26S proteasome AAA-ATPase subunit RPT3) (CIP21) (MB67-interacting protein) (MIP224) (Proteasome 26S subunit ATPase 4) (Tat-binding protein 7) (TBP-7)                                                                                                                                                                                                            | Psmc4 Tbp7              | 23996  | 1.4941 | 0.26605 | 0.57504 | 0.47021 | 18.994315  | 18.90955   | 19.3169925 | 19.14117   |
| Q0VE82 | Copine-7 (Copine VII)                                                                                                                                                                                                                                                                                                                                                                                  | Cpne7                   | 102278 | 1.4946 | 0.26594 | 0.57522 | 0.47021 | 19.6636675 | 19.421285  | 19.077665  | 19.48596   |
| O08756 | 3-hydroxyacyl-CoA dehydrogenase type-2 (EC 1.1.1.35) (17-beta-hydroxysteroid dehydrogenase 10) (17-beta-HSD 10) (EC 1.1.1.51) (3-hydroxy-2-methylbutyryl-CoA dehydrogenase) (EC 1.1.1.178) (3-hydroxyacyl-CoA dehydrogenase type II) (Endoplasmic reticulum-associated amyloid beta-peptide-binding protein) (Mitochondrial ribonuclease P protein 2) (Mitochondrial RNase P protein 2) (Type II HADH) | Hsd17b10 Erab Hadh2     |        | 1.4918 | 0.26663 | 0.57408 | 0.47046 | 20.04721   | 20.2375225 | 20.3376425 | 20.2456175 |
| Q3UHJ0 | AP2-associated protein kinase 1 (EC 2.7.11.1) (Adaptor-associated kinase 1)                                                                                                                                                                                                                                                                                                                            | Aak1 Kiaa1048           | 269774 | 1.4899 | 0.26712 | 0.5733  | 0.47046 | 23.6901525 | 23.621955  | 23.7065475 | 23.6164075 |
| P04104 | Keratin, type II cytoskeletal 1 (67 kDa cytokeratin) (Cytokeratin-1) (CK-1) (Keratin-1) (K1) (Type-II keratin Kb1)                                                                                                                                                                                                                                                                                     | Krt1 Krt2-1             | 16678  | 1.4905 | 0.26695 | 0.57357 | 0.47046 | 19.22394   | 17.28608   | 18.68088   | 18.360275  |

|        |                                                                                                                                                                                             |                              |       |        |         |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q3TEA8 | Heterochromatin protein 1-binding protein 3                                                                                                                                                 | Hp1bp3                       | 15441 | 1.4852 | 0.26829 | 0.5714  | 0.47198 | 20.073755  | 19.7380925 | 19.912075  | 19.4584225 |
| P63038 | 60 kDa heat shock protein, mitochondrial (EC 5.6.1.7) (60 kDa chaperonin) (Chaperonin 60) (CPN60) (HSP-65) (Heat shock protein 60) (HSP-60) (Hsp60) (Mitochondrial matrix protein P1)       | Hspd1 Hsp60                  | 15510 | 1.4759 | 0.27062 | 0.56763 | 0.47529 | 26.2380925 | 26.179595  | 26.2104425 | 26.15312   |
| Q6PEB6 | MOB-like protein phocein (Class II mMOB1) (Mob1 homolog 3) (Mob3) (Mps one binder kinase activator-like 3) (Preimplantation protein 3)                                                      | Mob4 Mob3 Mobk13 Phocn Prei3 | 19070 | 1.4744 | 0.27101 | 0.56701 | 0.47529 | 20.0040725 | 19.8595825 | 19.9038475 | 19.845635  |
| P67984 | 60S ribosomal protein L22 (Heparin-binding protein HBp15)                                                                                                                                   | Rpl22                        | 19934 | 1.4728 | 0.27141 | 0.56637 | 0.47529 | 20.87127   | 20.897055  | 21.013705  | 20.97934   |
| Q99PF4 | Cadherin-23 (Otocadherin)                                                                                                                                                                   | Cdh23                        | 22295 | 1.4739 | 0.27112 | 0.56683 | 0.47529 | 20.96333   | 21.0530875 | 21.3539325 | 21.1196025 |
| Q6ZWX6 | Eukaryotic translation initiation factor 2 subunit 1 (Eukaryotic translation initiation factor 2 subunit alpha) (eIF-2-alpha) (eIF-2alpha)                                                  | Eif2s1 Eif2a                 | 13665 | 1.4666 | 0.27299 | 0.56386 | 0.47662 | 20.3457325 | 20.202445  | 20.2874    | 20.4108625 |
| Q9Z2Q6 | Septin-5 (Cell division control-related protein 1) (CDCrel-1) (Peanut-like protein 1)                                                                                                       | Septin5 Pnut1 Sept5          | 18951 | 1.4661 | 0.27311 | 0.56366 | 0.47662 | 24.6897225 | 24.7279725 | 24.8045075 | 24.6369075 |
| Q9Z1N5 | Spliceosome RNA helicase Ddx39b (EC 3.6.4.13) (56 kDa U2AF65-associated protein) (DEAD box protein UAP56) (HLA-B-associated transcript 1 protein)                                           | Ddx39b Bat1 Bat1a Uap56      | 53817 | 1.468  | 0.27263 | 0.56443 | 0.47662 | 21.721585  | 21.6880775 | 21.8402475 | 21.9450275 |
| O88485 | Cytoplasmic dynein 1 intermediate chain 1 (Cytoplasmic dynein intermediate chain 1) (Dynein intermediate chain 1, cytosolic) (DIC-1)                                                        | Dync1i1 Dnci1 Dncic1         | 13426 | 1.4605 | 0.27457 | 0.56134 | 0.47862 | 20.7383875 | 20.611105  | 20.601835  | 20.4553925 |
| Q9R0Q7 | Prostaglandin E synthase 3 (EC 5.3.99.3) (Cytosolic prostaglandin E2 synthase) (cPGES) (Hsp90 co-chaperone) (Progesterone receptor complex p23) (Sid 3177) (Telomerase-binding protein p23) | Ptges3 Sid3177 Tebp          | 56351 | 1.4583 | 0.27512 | 0.56048 | 0.47902 | 22.303865  | 22.4197875 | 22.44147   | 22.4972125 |
| O55042 | Alpha-synuclein (Non-A4 component of amyloid precursor) (NACP)                                                                                                                              | Snca Syn                     | 20617 | 1.4503 | 0.2772  | 0.5572  | 0.48156 | 24.7682075 | 24.57919   | 24.382685  | 24.4469475 |
| Q9D6R2 | Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial (EC 1.1.1.41) (Isocitric dehydrogenase subunit alpha) (NAD(+)-specific ICDH subunit alpha)                                      | Idh3a                        | 67834 | 1.4509 | 0.27705 | 0.55744 | 0.48156 | 25.66623   | 25.6988825 | 25.69715   | 25.642295  |
| Q9DCX2 | ATP synthase subunit d, mitochondrial (ATPase subunit d) (ATP synthase peripheral stalk subunit d)                                                                                          | Atp5pd Atp5h                 | 71679 | 1.447  | 0.27806 | 0.55586 | 0.48195 | 25.0912825 | 25.1693625 | 25.118905  | 25.1745375 |
| Q6ZPE2 | Myotubularin-related protein 5 (Inactive phosphatidylinositol 3-phosphatase 5) (SET-binding factor 1) (Sbf1)                                                                                | Sbf1 Kiaa3020 Mtmr5          | 77980 | 1.4473 | 0.27798 | 0.55599 | 0.48195 | 20.0892375 | 20.000865  | 20.06084   | 19.91853   |
| Q9D8W5 | 26S proteasome non-ATPase regulatory subunit 12 (26S proteasome regulatory subunit RPN5) (26S proteasome regulatory subunit p55)                                                            | Psmc12                       | 66997 | 1.4376 | 0.28052 | 0.55204 | 0.48566 | 20.5017    | 20.7084175 | 20.7202875 | 20.6955625 |
| Q78PY7 | Staphylococcal nuclease domain-containing protein 1 (EC 3.1.31.1) (100 kDa coactivator) (p100 co-activator)                                                                                 | Snd1                         | 56463 | 1.4355 | 0.28107 | 0.55119 | 0.48581 | 19.83865   | 20.121565  | 19.9817525 | 20.068435  |
| O54984 | ATPase Asna1 (EC 3.6.-.-) (Arsenical pump-driving ATPase) (Arsenite-stimulated ATPase)                                                                                                      | Asna1 Arsa                   | 56495 | 1.4349 | 0.28124 | 0.55092 | 0.48581 | 20.7371275 | 20.7210425 | 20.832395  | 20.82248   |
| P58771 | Tropomyosin alpha-1 chain (Alpha-tropomyosin) (Tropomyosin-1)                                                                                                                               | Tpm1 Tpm-1 Tpm1a             | 22003 | 1.4276 | 0.28317 | 0.54795 | 0.48859 | 21.0334925 | 21.14632   | 20.8828025 | 21.11441   |
| Q9JIS5 | Synaptic vesicle glycoprotein 2A (Synaptic vesicle protein 2) (Synaptic vesicle protein 2A) (Calcium regulator SV2A)                                                                        | Sv2a Kiaa0736 Sv2            | 64051 | 1.4228 | 0.28447 | 0.54597 | 0.49027 | 24.4071925 | 24.3449375 | 24.34384   | 24.2525125 |
| P62073 | Mitochondrial import inner membrane translocase subunit Tim10                                                                                                                               | Timm10 Tim10                 | 30059 | 1.4211 | 0.28492 | 0.54527 | 0.4905  | 19.4393725 | 18.65794   | 19.4005525 | 18.5894375 |
| P63085 | Mitogen-activated protein kinase 1 (MAP kinase 1) (MAPK 1) (EC 2.7.11.24) (ERT1)                                                                                                            | Mapk1 Erk2 Mapk Prkm1        | 26413 | 1.4177 | 0.28582 | 0.5439  | 0.49095 | 24.677245  | 24.809595  | 24.737395  | 24.6689325 |

|        |                                                                                                                                                                                                          |                   |        |        |         |         |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
|        | (Extracellular signal-regulated kinase 2) (ERK-2) (MAP kinase isoform p42) (p42-MAPK) (Mitogen-activated protein kinase 2) (MAP kinase 2) (MAPK 2)                                                       |                   |        |        |         |         |         |            |            |            |            |
| P40336 | Vacuolar protein sorting-associated protein 26A (H<beta>58 protein) (H beta 58) (Vesicle protein sorting 26A) (mVPS26)                                                                                   | Vps26a Vps26      | 30930  | 1.4183 | 0.28568 | 0.54412 | 0.49095 | 19.7159625 | 19.5343525 | 19.8274225 | 19.3499425 |
| Q9CXZ1 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial (Complex I-18 kDa) (CI-18 kDa) (Complex I-AQDQ) (CI-AQDQ) (NADH-ubiquinone oxidoreductase 18 kDa subunit)                           | Ndufs4            | 17993  | 1.4157 | 0.28636 | 0.54308 | 0.49132 | 22.154315  | 22.0254875 | 22.06853   | 22.026625  |
| O35226 | 26S proteasome non-ATPase regulatory subunit 4 (26S proteasome regulatory subunit RPN10) (26S proteasome regulatory subunit S5A) (Multiubiquitin chain-binding protein)                                  | Psmd4 Mcb1        | 19185  | 1.4125 | 0.28723 | 0.54177 | 0.4922  | 19.9806525 | 19.738925  | 19.7000125 | 19.9721925 |
| P62315 | Small nuclear ribonucleoprotein Sm D1 (Sm-D1) (Sm-D autoantigen) (snRNP core protein D1)                                                                                                                 | Snrpd1            | 20641  | 1.4114 | 0.28752 | 0.54133 | 0.4922  | 20.21361   | 20.297455  | 20.30163   | 20.3515025 |
| P56399 | Ubiquitin carboxyl-terminal hydrolase 5 (EC 3.4.19.12) (Deubiquitinating enzyme 5) (Isopeptidase T) (Ubiquitin thioesterase 5) (Ubiquitin-specific-processing protease 5)                                | Usp5 Isot         | 22225  | 1.4066 | 0.28883 | 0.53936 | 0.49236 | 23.4984475 | 23.57924   | 23.654485  | 23.573685  |
| Q91XV3 | Brain acid soluble protein 1 (22 kDa neuronal tissue-enriched acidic protein) (Neuronal axonal membrane protein NAP-22)                                                                                  | Basp1 Nap22       | 70350  | 1.4063 | 0.28891 | 0.53924 | 0.49236 | 27.374535  | 27.2597925 | 27.16413   | 26.9667875 |
| Q9DC07 | LIM zinc-binding domain-containing Nebulette (Actin-binding Z-disk protein)                                                                                                                              | Nebi Lnebi        | 74103  | 1.4083 | 0.28838 | 0.54003 | 0.49236 | 21.5706175 | 21.3351525 | 21.26678   | 21.184005  |
| Q8BZ98 | Dynamin-3 (EC 3.6.5.5)                                                                                                                                                                                   | Dnm3 Kiaa0820     | 103967 | 1.409  | 0.28818 | 0.54034 | 0.49236 | 21.9877525 | 21.942455  | 22.11576   | 21.9903675 |
| Q9CPX8 | Cytochrome b-c1 complex subunit 10 (Complex III subunit 10) (Complex III subunit XI) (Ubiquinol-cytochrome c reductase complex 6.4 kDa protein)                                                          | Uqcrl1 Uqcr       | 66594  | 1.4039 | 0.28957 | 0.53824 | 0.49295 | 20.11217   | 20.390105  | 20.2842675 | 20.21394   |
| P62881 | Guanine nucleotide-binding protein subunit beta-5 (Gbeta5) (Transducin beta chain 5)                                                                                                                     | Gnb5              | 14697  | 1.3891 | 0.29364 | 0.53219 | 0.49932 | 21.77916   | 21.7145175 | 21.7904925 | 21.595925  |
| Q9DC69 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial (Complex I-39kD) (CI-39kD) (NADH-ubiquinone oxidoreductase 39 kDa subunit)                                                   | Ndufa9            | 66108  | 1.3811 | 0.29587 | 0.52889 | 0.50224 | 23.53299   | 23.66699   | 23.7128625 | 23.6314525 |
| Q3UIU2 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6 (Complex I-B17) (CI-B17) (NADH-ubiquinone oxidoreductase B17 subunit)                                                                        | Ndufb6 Gm137      | 230075 | 1.3806 | 0.29602 | 0.52868 | 0.50224 | 21.240345  | 21.1645075 | 21.3893875 | 21.196575  |
| P42125 | Enoyl-CoA delta isomerase 1, mitochondrial (EC 5.3.3.8) (3,2-trans-enoyl-CoA isomerase) (Delta(3),Delta(2)-enoyl-CoA isomerase) (D3,D2-enoyl-CoA isomerase) (Dodecenoyl-CoA isomerase)                   | Eci1 Dci          | 13177  | 1.377  | 0.29703 | 0.5272  | 0.50229 | 19.7322975 | 19.9157025 | 19.7437225 | 19.8499    |
| P56387 | Dynein light chain Tctex-type 3 (Protein 91/23) (T-complex-associated testis-expressed 1-like)                                                                                                           | Dynlt3 Tcte1l     | 67117  | 1.3772 | 0.29697 | 0.52729 | 0.50229 | 22.4384325 | 22.5850625 | 22.603485  | 22.71936   |
| Q6PE15 | Mycophenolic acid acyl-glucuronide esterase, mitochondrial (EC 3.1.1.93) (Alpha/beta hydrolase domain-containing protein 10) (Abhydrolase domain-containing protein 10)                                  | Abhd10            | 213012 | 1.3778 | 0.2968  | 0.52754 | 0.50229 | 19.9192    | 19.8011475 | 19.87448   | 19.7486525 |
| Q99MN1 | Lysine--tRNA ligase (EC 2.7.7.-) (EC 6.1.1.6) (Lysyl-tRNA synthetase) (LysRS)                                                                                                                            | Kars1 Kars        | 85305  | 1.3712 | 0.29864 | 0.52485 | 0.50402 | 19.14164   | 19.3539575 | 19.407265  | 19.38885   |
| E9Q3L2 | Phosphatidylinositol 4-kinase alpha (PI4-kinase alpha) (PI4K-alpha) (PtdIns-4-kinase alpha) (EC 2.7.1.67)                                                                                                | Pi4ka Pik4 Pik4ca | 224020 | 1.371  | 0.29872 | 0.52474 | 0.50402 | 20.250825  | 20.1947975 | 20.262025  | 20.27373   |
| O88441 | Metaxin-2 (Mitochondrial outer membrane import complex protein 2)                                                                                                                                        | Mtx2 MNCb-0780    | 53375  | 1.3676 | 0.29968 | 0.52334 | 0.50509 | 19.971505  | 19.6281925 | 20.0041325 | 19.99053   |
| P28474 | Alcohol dehydrogenase class-3 (EC 1.1.1.1) (Alcohol dehydrogenase 2) (Alcohol dehydrogenase 5) (Alcohol dehydrogenase B2) (ADH-B2) (Alcohol dehydrogenase class-III) (Glutathione-dependent formaldehyde | Adh5 Adh-2 Adh2   | 11532  | 1.3609 | 0.30157 | 0.52062 | 0.50771 | 22.19582   | 22.0778575 | 22.068145  | 22.1933725 |

|        |                                                                                                                                                                                                            |                          |        |        |         |         |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
|        | dehydrogenase) (FALDH) (FDH) (GSH-FDH) (EC 1.1.1.-) (S-(hydroxymethyl)glutathione dehydrogenase) (EC 1.1.1.284)                                                                                            |                          |        |        |         |         |         |            |            |            |            |
| O88844 | Isocitrate dehydrogenase [NADP] cytoplasmic (IDH) (EC 1.1.1.42) (Cytosolic NADP-isocitrate dehydrogenase) (IDP) (NADP(+)-specific ICDH) (Oxalosuccinate decarboxylase)                                     | Idh1                     | 15926  | 1.3585 | 0.30226 | 0.51962 | 0.50831 | 22.6751425 | 22.6020825 | 22.7110625 | 22.6621275 |
| P11031 | Activated RNA polymerase II transcriptional coactivator p15 (Positive cofactor 4) (PC4) (SUB1 homolog) (Single-stranded DNA-binding protein p9) (p14)                                                      | Sub1 Pc4 Rpo2tc1         | 20024  | 1.3568 | 0.30275 | 0.51891 | 0.50859 | 20.910295  | 20.8229675 | 20.8678375 | 21.014025  |
| Q8BMF3 | NADP-dependent malic enzyme, mitochondrial (NADP-ME) (EC 1.1.1.40) (Malic enzyme 3)                                                                                                                        | Me3                      | 109264 | 1.3551 | 0.30324 | 0.51821 | 0.50885 | 19.94371   | 19.9358675 | 20.22215   | 19.9027275 |
| Q71LX4 | Talin-2                                                                                                                                                                                                    | Tln2                     | 70549  | 1.3523 | 0.30404 | 0.51707 | 0.50963 | 21.781315  | 22.1242925 | 21.9443275 | 21.9516775 |
| P14231 | Sodium/potassium-transporting ATPase subunit beta-2 (Adhesion molecule in glia) (AMOG) (Sodium/potassium-dependent ATPase subunit beta-2)                                                                  | Atp1b2                   | 11932  | 1.3297 | 0.31061 | 0.50778 | 0.51611 | 24.2887725 | 24.1936825 | 24.20698   | 24.3402    |
| Q62093 | Serine/arginine-rich splicing factor 2 (Protein PR264) (Putative myelin regulatory factor 1) (MRF-1) (Splicing component, 35 kDa) (Splicing factor SC35) (SC-35) (Splicing factor, arginine/serine-rich 2) | Srsf2 Pr264 Sfrs10 Sfrs2 | 20382  | 1.33   | 0.31052 | 0.50791 | 0.51611 | 20.5795325 | 20.2568425 | 20.43897   | 20.1516775 |
| P39447 | Tight junction protein ZO-1 (Tight junction protein 1) (Zona occludens protein 1) (Zonula occludens protein 1)                                                                                             | Tjp1 Zo1                 | 21872  | 1.3336 | 0.30946 | 0.50939 | 0.51611 | 21.6990925 | 21.573295  | 21.36038   | 21.3154    |
| P60335 | Poly(rC)-binding protein 1 (Alpha-CP1) (Heterogeneous nuclear ribonucleoprotein E1) (hnRNP E1)                                                                                                             | Pcbp1                    | 23983  | 1.3324 | 0.30984 | 0.50886 | 0.51611 | 22.7852    | 22.6774975 | 22.628145  | 22.691775  |
| Q9JKD3 | Secretory carrier-associated membrane protein 5 (Secretory carrier membrane protein 5)                                                                                                                     | Scamp5                   | 56807  | 1.3356 | 0.30889 | 0.51019 | 0.51611 | 22.2314    | 21.97881   | 21.7961725 | 21.7968675 |
| Q9CQR2 | 40S ribosomal protein S21                                                                                                                                                                                  | Rps21                    | 66481  | 1.3316 | 0.31006 | 0.50856 | 0.51611 | 20.5992175 | 20.432515  | 20.51055   | 20.5993225 |
| Q8C522 | Endonuclease domain-containing 1 protein (EC 3.1.30.-)                                                                                                                                                     | Endod1 Kiaa0830          | 71946  | 1.3377 | 0.30826 | 0.51108 | 0.51611 | 20.2474975 | 20.2905725 | 20.27993   | 20.44432   |
| P61957 | Small ubiquitin-related modifier 2 (SUMO-2) (SMT3 homolog 2) (Ubiquitin-like protein SMT3B) (Smt3B)                                                                                                        | Sumo2 Smt3b Smt3h2       | 170930 | 1.3305 | 0.31038 | 0.50811 | 0.51611 | 21.446755  | 21.39021   | 21.18522   | 21.3394325 |
| Q9Z2W0 | Aspartyl aminopeptidase (EC 3.4.11.21)                                                                                                                                                                     | Dnpep                    | 13437  | 1.3221 | 0.31287 | 0.50463 | 0.51862 | 19.8037775 | 19.802795  | 20.0525025 | 19.995035  |
| Q9WUB3 | Glycogen phosphorylase, muscle form (EC 2.4.1.1) (Myophosphorylase)                                                                                                                                        | Pygm                     | 19309  | 1.3212 | 0.31314 | 0.50426 | 0.51862 | 20.5456025 | 20.426185  | 20.16468   | 20.1797425 |
| P41105 | 60S ribosomal protein L28                                                                                                                                                                                  | Rpl28                    | 19943  | 1.3217 | 0.313   | 0.50446 | 0.51862 | 20.91924   | 20.6965075 | 20.71302   | 20.88496   |
| P70670 | Nascent polypeptide-associated complex subunit alpha, muscle-specific form (Alpha-NAC, muscle-specific form) (skNAC)                                                                                       | Naca Gm1878              | 17938  | 1.3139 | 0.31531 | 0.50126 | 0.52165 | 21.1339575 | 21.146115  | 21.1089    | 20.9649725 |
| Q9CZ44 | NSFL1 cofactor p47 (p97 cofactor p47)                                                                                                                                                                      | Nsf1c                    | 386649 | 1.3118 | 0.31594 | 0.50039 | 0.52213 | 21.509335  | 21.4786725 | 21.6051575 | 21.6305125 |
| Q61545 | RNA-binding protein EWS                                                                                                                                                                                    | Ewsr1 Ews Ewsh           | 14030  | 1.3079 | 0.31713 | 0.49876 | 0.52352 | 19.669335  | 19.51236   | 19.6417275 | 19.602025  |
| Q9JLM8 | Serine/threonine-protein kinase DCLK1 (EC 2.7.11.1) (Doublecortin-like and CAM kinase-like 1) (Doublecortin-like kinase 1)                                                                                 | Dclk1 Dcamk1 Dclk        | 13175  | 1.3012 | 0.31913 | 0.49603 | 0.5248  | 22.3175075 | 22.46861   | 22.5359675 | 22.4212975 |
| P25444 | 40S ribosomal protein S2 (40S ribosomal protein S4) (Protein LLRep3)                                                                                                                                       | Rps2 Lrep3 Rps4          | 16898  | 1.3035 | 0.31846 | 0.49695 | 0.5248  | 21.6559075 | 21.6796325 | 21.67757   | 21.86287   |
| Q9CQ92 | Mitochondrial fission 1 protein (FIS1 homolog) (Tetratricopeptide repeat protein 11) (TPR repeat protein 11)                                                                                               | Fis1 Ttc11               | 66437  | 1.299  | 0.31983 | 0.49509 | 0.5248  | 20.9505825 | 20.9994125 | 20.9854525 | 21.081955  |
| Q9D7X3 | Dual specificity protein phosphatase 3 (EC 3.1.3.16) (EC 3.1.3.48) (T-DSP11) (Vaccinia H1-related phosphatase) (VHR)                                                                                       | Dusp3                    | 72349  | 1.2985 | 0.31997 | 0.49489 | 0.5248  | 20.99024   | 20.7879775 | 20.950045  | 20.8139825 |

|        |                                                                                                                                                                                                                 |                       |        |        |         |         |         |            |            |            |            |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9QYS2 | Metabotropic glutamate receptor 3 (mGluR3)                                                                                                                                                                      | Grm3 Gprc1c Mglur3    | 108069 | 1.3021 | 0.31886 | 0.4964  | 0.5248  | 21.3076425 | 21.21661   | 21.332115  | 21.2115025 |
| Q8BTG7 | Protein NDRG4 (N-myc downstream-regulated gene 4 protein) (Protein Ndr4)                                                                                                                                        | Ndrq4 Kiaa1180 Ndr4   | 234593 | 1.2988 | 0.31988 | 0.49501 | 0.5248  | 19.94443   | 19.8211425 | 19.978805  | 19.917205  |
| P61750 | ADP-ribosylation factor 4                                                                                                                                                                                       | Arf4                  | 11843  | 1.294  | 0.32133 | 0.49305 | 0.52591 | 19.563965  | 19.44972   | 19.4701    | 19.7090075 |
| P26369 | Splicing factor U2AF 65 kDa subunit (U2 auxiliary factor 65 kDa subunit) (U2 snRNP auxiliary factor large subunit)                                                                                              | U2af2 U2af65          | 22185  | 1.2946 | 0.32115 | 0.49329 | 0.52591 | 19.9819475 | 19.9226825 | 19.85737   | 19.666815  |
| Q9CRB9 | MICOS complex subunit Mic19 (Coiled-coil-helix-coiled-coil-helix domain-containing protein 3)                                                                                                                   | Chchd3 Mic19          | 66075  | 1.2834 | 0.3246  | 0.48865 | 0.53069 | 22.1170375 | 22.036135  | 21.8939125 | 21.9698875 |
| Q9CPP6 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5 (Complex I subunit B13) (Complex I-13kD-B) (NADH-ubiquinone oxidoreductase 13 kDa-B subunit)                                                       | Ndufa5                | 68202  | 1.279  | 0.32596 | 0.48684 | 0.53234 | 22.0812325 | 22.2650675 | 22.10478   | 22.1775225 |
| P35762 | CD81 antigen (26 kDa cell surface protein TAPA-1) (Target of the antiproliferative antibody 1) (CD antigen CD81)                                                                                                | Cd81 Tapa1            | 12520  | 1.2758 | 0.32695 | 0.48552 | 0.53339 | 23.9286725 | 24.114115  | 24.1383975 | 24.2617725 |
| Q8CHC4 | Synaptojanin-1 (EC 3.1.3.36) (Synaptic inositol 1,4,5-trisphosphate 5-phosphatase 1)                                                                                                                            | Synj1 Kiaa0910        |        | 1.274  | 0.32751 | 0.48477 | 0.53355 | 24.866285  | 24.799945  | 24.8258775 | 24.8340425 |
| Q9WV60 | Glycogen synthase kinase-3 beta (GSK-3 beta) (EC 2.7.11.26) (Serine/threonine-protein kinase GSK3B) (EC 2.7.11.1)                                                                                               | Gsk3b                 | 56637  | 1.2727 | 0.32793 | 0.48422 | 0.53355 | 20.998755  | 20.8245925 | 20.78085   | 20.8562825 |
| P62835 | Ras-related protein Rap-1A (Ras-related protein Krev-1)                                                                                                                                                         | Rap1a Krev-1          | 109905 | 1.2721 | 0.3281  | 0.484   | 0.53355 | 23.2960925 | 23.1721375 | 23.17132   | 23.2174025 |
| P16460 | Argininosuccinate synthase (EC 6.3.4.5) (Citrulline--aspartate ligase)                                                                                                                                          | Ass1 Ass              | 11898  | 1.2659 | 0.33005 | 0.48142 | 0.53615 | 20.55302   | 20.6629975 | 20.555865  | 20.7744275 |
| Q88712 | C-terminal-binding protein 1 (CtBP1) (EC 1.1.1.-)                                                                                                                                                               | Ctbp1                 | 13016  | 1.2629 | 0.33101 | 0.48016 | 0.53715 | 22.83454   | 22.80538   | 23.0634975 | 22.7987025 |
| P56391 | Cytochrome c oxidase subunit 6B1 (Cytochrome c oxidase subunit VIb isoform 1) (COX VIb-1)                                                                                                                       | Cox6b1 Cox6b          | 110323 | 1.2578 | 0.33261 | 0.47806 | 0.53865 | 24.46817   | 24.53623   | 24.55577   | 24.5528875 |
| Q8BLF1 | Neutral cholesterol ester hydrolase 1 (NCEH) (EC 3.1.1.-) (Arylacetamide deacetylase-like 1) (Chlorpyrifos oxon-binding protein) (CPO-BP)                                                                       | Nceh1 Aadac1 Kiaa1363 | 320024 | 1.2577 | 0.33264 | 0.47802 | 0.53865 | 21.0674225 | 21.1790725 | 21.2753175 | 21.155645  |
| Q9ERD7 | Tubulin beta-3 chain                                                                                                                                                                                            | Tubb3                 | 22152  | 1.2524 | 0.33433 | 0.47583 | 0.53909 | 25.775325  | 25.936475  | 26.0162425 | 25.9202325 |
| P68254 | 14-3-3 protein theta (14-3-3 protein tau)                                                                                                                                                                       | Ywhaq                 | 22630  | 1.253  | 0.33413 | 0.47608 | 0.53909 | 25.51108   | 25.3842675 | 25.423805  | 25.22819   |
| Q921G7 | Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial (ETF-QO) (ETF-ubiquinone oxidoreductase) (EC 1.5.5.1) (Electron-transferring-flavoprotein dehydrogenase) (ETF dehydrogenase)            | Etfdh                 | 66841  | 1.2542 | 0.33376 | 0.47656 | 0.53909 | 20.95832   | 20.8013    | 20.8023025 | 20.9125125 |
| Q99JF8 | PC4 and SFRS1-interacting protein (Lens epithelium-derived growth factor) (mLEDGF)                                                                                                                              | Psip1 Ledgf           | 101739 | 1.255  | 0.33349 | 0.47692 | 0.53909 | 20.67902   | 20.8855125 | 20.7036025 | 20.880505  |
| Q9D710 | Thioredoxin-related transmembrane protein 2 (Thioredoxin domain-containing protein 14)                                                                                                                          | Tmx2 Txndc14          | 66958  | 1.2485 | 0.33558 | 0.4742  | 0.53997 | 19.7200675 | 19.6921075 | 19.8991575 | 19.7335975 |
| Q9EPW0 | Inositol polyphosphate-4-phosphatase type I A (Inositol polyphosphate 4-phosphatase type I) (Inositol polyphosphate 4-phosphatase-1) (4-Phase-1) (Type I inositol 3,4-bisphosphate 4-phosphatase) (EC 3.1.3.66) | Inpp4a                | 269180 | 1.2489 | 0.33547 | 0.47435 | 0.53997 | 20.2769825 | 20.3169325 | 20.42094   | 20.21008   |
| Q64516 | Glycerol kinase (GK) (Glycerokinase) (EC 2.7.1.30) (ATP:glycerol 3-phosphotransferase)                                                                                                                          | Gk Gyk                | 14933  | 1.2456 | 0.33649 | 0.47302 | 0.54087 | 20.98446   | 20.7473275 | 20.72639   | 20.817785  |
| Q05920 | Pyruvate carboxylase, mitochondrial (EC 6.4.1.1) (Pyruvic carboxylase) (PCB)                                                                                                                                    | Pc Pcx                |        | 1.2435 | 0.33719 | 0.47212 | 0.54096 | 23.0652525 | 23.1597075 | 23.079525  | 23.1633025 |
| Q9JJJ8 | 60S ribosomal protein L38                                                                                                                                                                                       | Rpl38                 | 67671  | 1.2432 | 0.33727 | 0.47203 | 0.54096 | 18.64062   | 18.7909775 | 18.89571   | 19.1098425 |
| Q8BHZ0 | Protein FAM49A                                                                                                                                                                                                  | Fam49a D12Etd553e     | 76820  | 1.2421 | 0.33765 | 0.47153 | 0.54096 | 20.2658975 | 20.4648675 | 20.5922375 | 20.397665  |

|        |                                                                                                                                                                               |                               |                  |        |         |         |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|--------|---------|---------|---------|------------|------------|------------|------------|
| Q9QUH0 | Glutaredoxin-1 (Thioltransferase-1) (TTase-1)                                                                                                                                 | Glrx Glrx1 Grx Grx1           | 93692            | 1.2411 | 0.33797 | 0.47113 | 0.54096 | 19.8646425 | 19.5378725 | 19.7057575 | 19.3952275 |
| O54829 | Regulator of G-protein signaling 7 (RGS7)                                                                                                                                     | Rgs7                          | 24012            | 1.2371 | 0.33925 | 0.46949 | 0.54244 | 21.920415  | 21.8910425 | 22.1291925 | 22.0121975 |
| P16858 | Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (EC 1.2.1.12) (Peptidyl-cysteine S-nitrosylase GAPDH) (EC 2.6.99.-)                                                          | Gapdh Gapd                    | 14433            | 1.2329 | 0.34061 | 0.46774 | 0.54366 | 29.09202   | 29.09202   | 29.1372475 | 28.9809975 |
| Q9WUL7 | ADP-ribosylation factor-like protein 3                                                                                                                                        | Arl3                          | 56350            | 1.231  | 0.34123 | 0.46696 | 0.54366 | 21.510675  | 21.353035  | 21.4491825 | 21.335555  |
| Q9EQ80 | NIF3-like protein 1                                                                                                                                                           | Nif3l1                        | 65102            | 1.2314 | 0.34112 | 0.4671  | 0.54366 | 19.257295  | 19.4658525 | 19.3384875 | 19.3542925 |
| Q8JZQ2 | AFG3-like protein 2 (EC 3.4.24.-)                                                                                                                                             | Afg3l2                        | 69597            | 1.2304 | 0.34144 | 0.46669 | 0.54366 | 20.9494975 | 21.0446925 | 21.001335  | 20.76454   |
| Q9R111 | Guanine deaminase (Guanase) (Guanine aminase) (EC 3.5.4.3) (Guanine aminohydrolase) (GAH)                                                                                     | Gda                           | 14544            | 1.2293 | 0.3418  | 0.46623 | 0.54367 | 24.17143   | 24.3054775 | 24.17576   | 24.0987475 |
| P28738 | Kinesin heavy chain isoform 5C (Kinesin heavy chain neuron-specific 2)                                                                                                        | Kif5c Nkhc2                   | 16574            | 1.226  | 0.34287 | 0.46487 | 0.54481 | 22.14231   | 22.1014025 | 22.2530775 | 22.2817075 |
| P70349 | Histidine triad nucleotide-binding protein 1 (EC 3.-.-.-) (Adenosine 5'-monophosphoramidase) (Protein kinase C inhibitor 1) (Protein kinase C-interacting protein 1) (PKCI-1) | Hint1 Hint Pkci Pkci1 Prkcnh1 | 15254            | 1.2243 | 0.34344 | 0.46414 | 0.54516 | 23.1953175 | 23.33044   | 23.1484075 | 23.34692   |
| Q8QZS1 | 3-hydroxyisobutyryl-CoA hydrolase, mitochondrial (EC 3.1.2.4) (3-hydroxyisobutyryl-coenzyme A hydrolase) (HIBYL-CoA-H)                                                        | Hibch                         | 227095           | 1.2206 | 0.34465 | 0.46263 | 0.54649 | 20.62926   | 20.730665  | 20.796795  | 20.80386   |
| Q8JZQ9 | Eukaryotic translation initiation factor 3 subunit B (eIF3b) (Eukaryotic translation initiation factor 3 subunit 9) (eIF-3-eta) (eIF3 p116)                                   | Eif3b Eif3s9                  | 27979            | 1.2188 | 0.34524 | 0.46187 | 0.54688 | 20.3575875 | 20.453655  | 20.2773675 | 20.367075  |
| P97807 | Fumarate hydratase, mitochondrial (Fumarase) (EC 4.2.1.2) (EF-3)                                                                                                              | Fh Fh1                        | 14194            | 1.2161 | 0.34612 | 0.46077 | 0.5477  | 23.825485  | 23.9657775 | 23.99611   | 23.9564825 |
| Q9D394 | Protein RUFY3 (Rap2-interacting protein x) (RIPx) (Single axon-regulated protein 1) (Singar1)                                                                                 | Rufy3 D5Bwg0860e Ripx         | 52822            | 1.209  | 0.34849 | 0.45781 | 0.55088 | 22.2524125 | 22.15583   | 22.1744275 | 22.0950975 |
| Q9D4H8 | Cullin-2 (CUL-2)                                                                                                                                                              | Cul2                          | 71745            | 1.2053 | 0.34974 | 0.45626 | 0.55228 | 20.1224225 | 19.632575  | 19.969395  | 19.8899475 |
| Q8VEH3 | ADP-ribosylation factor-like protein 8A (ADP-ribosylation factor-like protein 10B) (Novel small G protein indispensable for equal chromosome segregation 2)                   | Arl8a Arl10b Gie2             | 68724            | 1.2038 | 0.35023 | 0.45565 | 0.55248 | 21.9067825 | 21.7886775 | 21.7729825 | 21.8985775 |
| Q9R0P9 | Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1) (EC 3.4.19.12) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5) (Ubiquitin thioesterase L1)                      | Uchl1                         | 22223            | 1.2025 | 0.35066 | 0.45511 | 0.55259 | 25.79481   | 25.814245  | 25.86065   | 25.95524   |
| P12367 | cAMP-dependent protein kinase type II-alpha regulatory subunit                                                                                                                | Prkar2a                       |                  | 1.1984 | 0.35205 | 0.4534  | 0.55386 | 21.18895   | 21.129145  | 21.126585  | 21.0083525 |
| P63168 | Dynein light chain 1, cytoplasmic (8 kDa dynein light chain) (DLC8) (Dynein light chain LC8-type 1) (Protein inhibitor of neuronal nitric oxide synthase) (PIN) (mPIN)        | Dynl1 Dlc1 Dncl1 Dnclc1       | 56455            | 1.198  | 0.35219 | 0.45322 | 0.55386 | 22.60013   | 22.4473825 | 22.7231775 | 22.504645  |
| P62900 | 60S ribosomal protein L31                                                                                                                                                     | Rpl31                         | 114641           | 1.1964 | 0.35274 | 0.45254 | 0.5539  | 20.248995  | 20.3190825 | 20.452465  | 20.4902725 |
| Q9EPE9 | Manganese-transporting ATPase 13A1 (CATP) (EC 7.2.2.-)                                                                                                                        | Atp13a1 Atp13a                | 170759           | 1.1958 | 0.35295 | 0.45229 | 0.5539  | 19.896645  | 19.969535  | 19.737     | 19.8779925 |
| P62196 | 26S proteasome regulatory subunit 8 (26S proteasome AAA-ATPase subunit RPT6) (Proteasome 26S subunit ATPase 5) (Proteasome subunit p45) (p45/SUG) (mSUG1)                     | Psmc5 Sug1                    | 19184            | 1.1946 | 0.35332 | 0.45183 | 0.55392 | 20.3831875 | 20.5526975 | 20.5467725 | 20.274835  |
| P03888 | NADH-ubiquinone oxidoreductase chain 1 (EC 7.1.1.2) (NADH dehydrogenase subunit 1)                                                                                            | Mtnd1 mt-Nd1 Nd1              | 17716<br>3338902 | 1.1909 | 0.3546  | 0.45026 | 0.55536 | 20.6335875 | 20.74776   | 20.90061   | 20.8115825 |
| P05063 | Fructose-bisphosphate aldolase C (EC 4.1.2.13) (Aldolase 3) (Brain-type aldolase) (Scrapie-responsive protein 2) (Zebirin II)                                                 | Aldoc Aldo3 Scrg2             | 11676            | 1.1883 | 0.35549 | 0.44918 | 0.55568 | 26.1612225 | 26.1097175 | 26.0103575 | 26.165375  |

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| Q148V7 | RAB11-binding protein RELCH (LisH domain and HEAT repeat-containing protein KIAA1468) (RAB11-binding protein containing LisH, coiled-coil, and HEAT repeats)                                          | Relch Kiaa1468      | 227446 | 1.1881 | 0.35553 | 0.44912 | 0.55568 | 19.517475  | 19.66283   | 19.784845  | 19.35526   |
| O08749 | Dihydrolipoyl dehydrogenase, mitochondrial (EC 1.8.1.4) (Dihydrolipoamide dehydrogenase)                                                                                                              | Dld                 | 13382  | 1.1831 | 0.35725 | 0.44703 | 0.55779 | 24.7349525 | 24.8021075 | 24.6834975 | 24.77343   |
| P47754 | F-actin-capping protein subunit alpha-2 (CapZ alpha-2)                                                                                                                                                | Capza2 Cappa2       | 12343  | 1.179  | 0.35865 | 0.44533 | 0.55909 | 24.4751025 | 24.4679875 | 24.5015575 | 24.35974   |
| O70325 | Phospholipid hydroperoxide glutathione peroxidase (PHGPx) (EC 1.11.1.12) (Glutathione peroxidase 4) (GPx-4) (GSHPx-4)                                                                                 | Gpx4                | 625249 | 1.1786 | 0.35882 | 0.44513 | 0.55909 | 21.3823025 | 21.3248075 | 21.2259975 | 21.3801975 |
| Q64727 | Vinculin (Metavinculin)                                                                                                                                                                               | Vcl                 | 22330  | 1.1744 | 0.36025 | 0.4434  | 0.56075 | 20.134965  | 20.29566   | 20.3314925 | 20.4522325 |
| Q91X97 | Neurocalcin-delta                                                                                                                                                                                     | Ncald D15Ert412e    | 52589  | 1.1703 | 0.36168 | 0.44168 | 0.56241 | 21.350305  | 21.29466   | 21.34312   | 21.259965  |
| Q3U1J4 | DNA damage-binding protein 1 (DDB p127 subunit) (Damage-specific DNA-binding protein 1) (UV-damaged DNA-binding factor)                                                                               | Ddb1                | 13194  | 1.1656 | 0.36331 | 0.43972 | 0.5638  | 22.1554375 | 22.30917   | 22.0518475 | 22.2480925 |
| Q9DBC7 | cAMP-dependent protein kinase type I-alpha regulatory subunit [Cleaved into: cAMP-dependent protein kinase type I-alpha regulatory subunit, N-terminally processed]                                   | Prkar1a             | 19084  | 1.1666 | 0.36295 | 0.44015 | 0.5638  | 21.18834   | 20.9944575 | 21.0392025 | 21.1371375 |
| P63073 | Eukaryotic translation initiation factor 4E (eIF-4E) (eIF4E) (mRNA cap-binding protein) (eIF-4F 25 kDa subunit)                                                                                       | Eif4e               | 13684  | 1.1637 | 0.36397 | 0.43893 | 0.56425 | 19.23991   | 19.1636275 | 19.0599825 | 19.2280725 |
| Q99LD4 | COP9 signalosome complex subunit 1 (SGN1) (Signalosome subunit 1) (G protein pathway suppressor 1) (GPS-1) (JAB1-containing signalosome subunit 1)                                                    | Gps1 Cops1 Csn1     |        | 1.1592 | 0.36554 | 0.43707 | 0.56572 | 21.1969425 | 21.069065  | 21.113105  | 21.119865  |
| O70435 | Proteasome subunit alpha type-3 (EC 3.4.25.1) (Macropain subunit C8) (Multicatalytic endopeptidase complex subunit C8) (Proteasome component C8) (Proteasome subunit K)                               | Psm3                | 19167  | 1.1567 | 0.36643 | 0.43601 | 0.56572 | 20.700075  | 20.5133025 | 20.6720275 | 20.5645925 |
| O88685 | 26S proteasome regulatory subunit 6A (26S proteasome AAA-ATPase subunit RPT5) (Proteasome 26S subunit ATPase 3) (Tat-binding protein 1) (TBP-1)                                                       | Psmc3 Tbp1          | 19182  | 1.1557 | 0.36677 | 0.4356  | 0.56572 | 21.6351625 | 21.457915  | 21.602625  | 21.449415  |
| Q9CYH2 | Peroxisomal-like 2A (Peroxisomal-like 2 activated in M-CSF stimulated monocytes) (Protein PAMM) (Redox-regulatory protein FAM213A)                                                                    | Prxl2a Fam213a Pamm | 70564  | 1.1568 | 0.36638 | 0.43607 | 0.56572 | 21.102345  | 21.120625  | 20.919305  | 20.89711   |
| Q3UUG6 | TBC1 domain family member 24                                                                                                                                                                          | Tbc1d24 Kiaa1171    | 224617 | 1.1562 | 0.36659 | 0.43582 | 0.56572 | 20.16928   | 20.5269375 | 20.54172   | 20.4897625 |
| Q6P5E6 | ADP-ribosylation factor-binding protein GGA2 (Gamma-adaptin-related protein 2) (Golgi-localized, gamma ear-containing, ARF-binding protein 2)                                                         | Gga2 Kiaa1080       | 74105  | 1.1536 | 0.36751 | 0.43473 | 0.56628 | 20.05782   | 19.7591825 | 20.180435  | 19.914245  |
| Q8VIJ6 | Splicing factor, proline- and glutamine-rich (DNA-binding p52/p100 complex, 100 kDa subunit) (Polypyrimidine tract-binding protein-associated-splicing factor) (PSF) (PTB-associated-splicing factor) | Sfpq Psf            | 71514  | 1.1506 | 0.36856 | 0.43349 | 0.56727 | 22.3018425 | 22.2074225 | 22.2700725 | 22.342425  |
| Q8BH59 | Calcium-binding mitochondrial carrier protein Aralar1 (Mitochondrial aspartate glutamate carrier 1) (Solute carrier family 25 member 12)                                                              | Slc25a12 Aralar1    | 78830  | 1.1497 | 0.36889 | 0.4331  | 0.56727 | 25.500925  | 25.5701375 | 25.5223825 | 25.57805   |
| O08795 | Glucosidase 2 subunit beta (80K-H protein) (Glucosidase II subunit beta) (Protein kinase C substrate 60.1 kDa protein heavy chain) (PKCSH)                                                            | Prkcsh              | 19089  | 1.1484 | 0.36937 | 0.43254 | 0.56744 | 20.0462725 | 19.901865  | 19.8363575 | 20.02782   |
| P08003 | Protein disulfide-isomerase A4 (EC 5.3.4.1) (Endoplasmic reticulum resident protein 72) (ER protein 72) (ERp-72) (ERp72)                                                                              | Pdia4 Cai Erp72     | 12304  | 1.142  | 0.37164 | 0.42988 | 0.56872 | 20.0021025 | 19.9180675 | 19.83524   | 19.9670775 |

|        |                                                                                                                                                                                                        |                            |        |        |         |         |         |             |            |             |             |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|--------|---------|---------|---------|-------------|------------|-------------|-------------|
| Q60875 | Rho guanine nucleotide exchange factor 2 (Guanine nucleotide exchange factor H1) (GEF-H1) (LBC'S first cousin) (Lymphoid blast crisis-like 1) (Oncogene LFC) (Rhobin)                                  | Arhgef2 Kiaa0651 Lbcl1 Lfc | 16800  | 1.1418 | 0.3717  | 0.42981 | 0.56872 | 20.7525875  | 20.8256725 | 20.8785775  | 20.718825   |
| Q62048 | Astrocytic phosphoprotein PEA-15 (15 kDa phosphoprotein enriched in astrocytes)                                                                                                                        | Pea15 Pea15a               | 18611  | 1.1404 | 0.37221 | 0.42921 | 0.56872 | 23.0103025  | 23.2914275 | 23.1720675  | 23.2399475  |
| Q60829 | Protein phosphatase 1 regulatory subunit 1B (DARPP-32) (Dopamine- and cAMP-regulated neuronal phosphoprotein)                                                                                          | Ppp1r1b                    | 19049  | 1.1421 | 0.37161 | 0.42991 | 0.56872 | 19.1447925  | 19.2639675 | 19.4556225  | 19.3524925  |
| Q99L13 | 3-hydroxyisobutyrate dehydrogenase, mitochondrial (HIBADH) (EC 1.1.1.31)                                                                                                                               | Hibadh                     | 58875  | 1.1398 | 0.37244 | 0.42894 | 0.56872 | 20.96778    | 20.8879225 | 21.0834475  | 20.99841    |
| Q7TMF3 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12 (Complex I-B17.2) (CI-B17.2) (CI-B17.2) (NADH-ubiquinone oxidoreductase subunit B17.2)                                                   | Ndufa12                    | 66414  | 1.1414 | 0.37187 | 0.42961 | 0.56872 | 22.42363    | 22.3020375 | 22.4087925  | 22.3642475  |
| O88737 | Protein bassoon                                                                                                                                                                                        | Bsn Kiaa0434               | 12217  | 1.1353 | 0.37403 | 0.4271  | 0.56886 | 24.0141775  | 24.0784275 | 23.9184325  | 23.9579025  |
| P01837 | Immunoglobulin kappa constant (Ig kappa chain C region MOPC 21)                                                                                                                                        | Igkc                       | 0      | 1.1354 | 0.37401 | 0.42712 | 0.56886 | 18.15712    | 16.151009  | 10.56355675 | 13.78873625 |
| Q61704 | Inter-alpha-trypsin inhibitor heavy chain H3 (ITI heavy chain H3) (ITI-HC3) (Inter-alpha-inhibitor heavy chain 3)                                                                                      | Itih3                      | 16426  | 1.1367 | 0.37355 | 0.42765 | 0.56886 | 14.83238075 | 19.3819875 | 17.68084525 | 17.8953655  |
| Q4KML4 | Costars family protein ABRACL (ABRA C-terminal-like protein)                                                                                                                                           | Abracl                     | 73112  | 1.1363 | 0.37368 | 0.4275  | 0.56886 | 18.49374925 | 14.7437995 | 18.5827745  | 18.096093   |
| Q9CPQ1 | Cytochrome c oxidase subunit 6C (Cytochrome c oxidase polypeptide VIc)                                                                                                                                 | Cox6c                      | 12864  | 1.1332 | 0.37479 | 0.42621 | 0.56915 | 23.9462625  | 23.8199    | 23.746265   | 23.92377    |
| Q9JKY5 | Huntingtin-interacting protein 1-related protein (HIP1-related protein)                                                                                                                                | Hip1r                      | 29816  | 1.1327 | 0.37496 | 0.42601 | 0.56915 | 19.8720875  | 19.71305   | 19.7175175  | 19.8173875  |
| Q8BIJ6 | Isoleucine--tRNA ligase, mitochondrial (EC 6.1.1.5) (Isoleucyl-tRNA synthetase) (IleRS)                                                                                                                | Iars2                      | 381314 | 1.1297 | 0.37606 | 0.42475 | 0.57025 | 20.3788375  | 20.4102925 | 20.2462525  | 20.40329    |
| P14824 | Annexin A6 (67 kDa calelectrin) (Annexin VI) (Annexin-6) (Calphobindin-II) (CPB-II) (Chromobindin-20) (Lipocortin VI) (Protein III) (p68) (p70)                                                        | Anxa6 Anx6                 | 11749  | 1.1218 | 0.37895 | 0.42142 | 0.57354 | 23.32136    | 23.3269475 | 23.44159    | 23.423845   |
| Q60931 | Voltage-dependent anion-selective channel protein 3 (VDAC-3) (mVDAC3) (Outer mitochondrial membrane protein porin 3)                                                                                   | Vdac3                      | 22335  | 1.1186 | 0.38009 | 0.42011 | 0.57354 | 24.7724775  | 24.8775225 | 24.7944125  | 24.8576425  |
| Q76MZ3 | Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform (PP2A subunit A isoform PR65-alpha) (PP2A subunit A isoform R1-alpha)                                                | Ppp2r1a                    | 51792  | 1.1193 | 0.37983 | 0.42042 | 0.57354 | 25.1236925  | 25.04896   | 25.1007525  | 25.0914375  |
| Q99LC3 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial (Complex I-42kD) (CI-42kD) (NADH-ubiquinone oxidoreductase 42 kDa subunit)                                                | Ndufa10                    | 67273  | 1.1206 | 0.37937 | 0.42093 | 0.57354 | 23.9872575  | 24.1072075 | 24.1416475  | 24.0093075  |
| Q8CCT4 | Transcription elongation factor A protein-like 5 (TCEA-like protein 5) (Transcription elongation factor S-II protein-like 5)                                                                           | Tceal5                     | 331532 | 1.1186 | 0.38011 | 0.4201  | 0.57354 | 22.103205   | 21.889405  | 21.8658725  | 21.694385   |
| Q99J99 | 3-mercaptopyruvate sulfurtransferase (MST) (EC 2.8.1.2)                                                                                                                                                | Mpst                       | 246221 | 1.1153 | 0.38131 | 0.41873 | 0.57478 | 20.1476275  | 20.422845  | 20.26572    | 20.4125325  |
| Q8R081 | Heterogeneous nuclear ribonucleoprotein L (hnRNP L)                                                                                                                                                    | Hnrnpl Hnrpl               | 15388  | 1.1087 | 0.38375 | 0.41595 | 0.57595 | 23.3047     | 23.2750425 | 23.3463875  | 23.3213775  |
| P27546 | Microtubule-associated protein 4 (MAP-4)                                                                                                                                                               | Map4 Mtap4                 | 17758  | 1.1071 | 0.38434 | 0.41528 | 0.57595 | 22.48569    | 22.3722375 | 22.5267325  | 22.477995   |
| Q9CXS4 | Centromere protein V (CENP-V) (Proline-rich protein 6)                                                                                                                                                 | Cenpv Prr6                 | 73139  | 1.112  | 0.38252 | 0.41735 | 0.57595 | 20.533675   | 20.4495775 | 20.493155   | 20.33128    |
| Q9EQ20 | Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial (MMSDH) (Malonate-semialdehyde dehydrogenase [acylating]) (EC 1.2.1.18) (EC 1.2.1.27) (Aldehyde dehydrogenase family 6 member A1) | Aldh6a1                    | 104776 | 1.1076 | 0.38414 | 0.41551 | 0.57595 | 21.483815   | 21.53408   | 21.393575   | 21.54127    |

|        |                                                                                                                                                                                                                                                                                                                         |                             |                                 |        |         |         |         |            |            |            |             |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|--------|---------|---------|---------|------------|------------|------------|-------------|
| Q80TB8 | Synaptic vesicle membrane protein VAT-1 homolog-like (EC 1.-.-.-)                                                                                                                                                                                                                                                       | Vat1l Kiaa1576              | 270097                          | 1.1075 | 0.38418 | 0.41546 | 0.57595 | 19.78163   | 20.23059   | 20.13591   | 19.861815   |
| P62830 | 60S ribosomal protein L23                                                                                                                                                                                                                                                                                               | Rpl23                       | 100044627<br>100862455<br>65019 | 1.109  | 0.38362 | 0.41609 | 0.57595 | 21.230155  | 21.2564    | 21.28652   | 21.4108325  |
| Q9D358 | Low molecular weight phosphotyrosine protein phosphatase (LMW-PTP) (LMW-PTPase) (EC 3.1.3.48) (Low molecular weight cytosolic acid phosphatase) (EC 3.1.3.2)                                                                                                                                                            | Acp1                        | 11431                           | 1.0991 | 0.38729 | 0.41196 | 0.5798  | 21.213215  | 20.9739475 | 21.1050625 | 20.8718725  |
| Q922D8 | C-1-tetrahydrofolate synthase, cytoplasmic (C1-THF synthase) [Cleaved into: C-1-tetrahydrofolate synthase, cytoplasmic, N-terminally processed] [Includes: Methylenetetrahydrofolate dehydrogenase (EC 1.5.1.5); Methylenetetrahydrofolate cyclohydrolase (EC 3.5.4.9); Formyltetrahydrofolate synthetase (EC 6.3.4.3)] | Mthfd1                      | 108156                          | 1.0945 | 0.38902 | 0.41002 | 0.58182 | 19.377225  | 19.1994425 | 19.2486425 | 19.51917    |
| P70296 | Phosphatidylethanolamine-binding protein 1 (PEBP-1) (HCNPPp) [Cleaved into: Hippocampal cholinergic neurostimulating peptide (HCNP)]                                                                                                                                                                                    | Pebp1 Pbp Pebp              | 23980                           | 1.0933 | 0.38947 | 0.40953 | 0.58191 | 26.0013675 | 25.976615  | 25.96912   | 25.8925525  |
| Q8VDN2 | Sodium/potassium-transporting ATPase subunit alpha-1 (Na <sup>+</sup> /K <sup>+</sup> ATPase alpha-1 subunit) (EC 7.2.2.13) (Sodium pump subunit alpha-1)                                                                                                                                                               | Atp1a1                      | 11928                           | 1.0873 | 0.39174 | 0.407   | 0.58267 | 25.594275  | 25.6114725 | 25.6019175 | 25.70485    |
| Q61735 | Leukocyte surface antigen CD47 (Integrin-associated protein) (IAP) (CD antigen CD47)                                                                                                                                                                                                                                    | Cd47                        | 16423                           | 1.0858 | 0.39231 | 0.40637 | 0.58267 | 22.536205  | 22.4942475 | 22.6161925 | 22.4513875  |
| Q9CPQ8 | ATP synthase subunit g, mitochondrial (ATPase subunit g) (ATP synthase membrane subunit g)                                                                                                                                                                                                                              | Atp5mg Atp5l                | 27425                           | 1.0843 | 0.39287 | 0.40575 | 0.58267 | 23.242895  | 23.3701875 | 23.237175  | 23.385705   |
| Q9Z1G3 | V-type proton ATPase subunit C 1 (V-ATPase subunit C 1) (Vacuolar proton pump subunit C 1)                                                                                                                                                                                                                              | Atp6v1c1 Atp6c Atp6c1 Vatac | 66335                           | 1.0866 | 0.39202 | 0.40669 | 0.58267 | 23.901225  | 23.8236875 | 23.8393    | 23.7832625  |
| Q8BK30 | NADH dehydrogenase [ubiquinone] flavoprotein 3, mitochondrial (Complex I-9kD) (CI-9kD) (NADH-ubiquinone oxidoreductase 9 kDa subunit)                                                                                                                                                                                   | Ndufv3                      | 78330                           | 1.0901 | 0.3907  | 0.40816 | 0.58267 | 19.45018   | 19.2267325 | 19.230475  | 19.27855    |
| Q3UHB1 | 5'-nucleotidase domain-containing protein 3 (EC 3.1.3.-) (GRP94-neighbor nucleotidase)                                                                                                                                                                                                                                  | Nt5dc3 Gnn                  | 103466                          | 1.0884 | 0.39134 | 0.40745 | 0.58267 | 22.41032   | 22.2951725 | 22.46324   | 22.3393775  |
| Q923D2 | Flavin reductase (NADPH) (FR) (EC 1.5.1.30) (Biliverdin reductase B) (BVR-B) (EC 1.3.1.24) (Biliverdin-IX beta-reductase) (NADPH-dependent diaphorase) (NADPH-flavin reductase) (FLR)                                                                                                                                   | Blvrb                       | 233016                          | 1.0845 | 0.39278 | 0.40585 | 0.58267 | 18.905234  | 14.8538165 | 19.1414085 | 14.46362125 |
| Q6A065 | Centrosomal protein of 170 kDa (Cep170)                                                                                                                                                                                                                                                                                 | Cep170 Kiaa0470             | 545389                          | 1.0839 | 0.39303 | 0.40558 | 0.58267 | 21.1453575 | 21.310225  | 21.06074   | 21.244435   |
| P61255 | 60S ribosomal protein L26 (Silica-induced gene 20 protein) (SIG-20)                                                                                                                                                                                                                                                     | Rpl26                       | 19941                           | 1.0825 | 0.39357 | 0.40498 | 0.5829  | 21.3779925 | 21.331895  | 21.2100425 | 21.3650325  |
| Q9Z2I9 | Succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial (EC 6.2.1.5) (ATP-specific succinyl-CoA synthetase subunit beta) (A-SCS) (Succinyl-CoA synthetase beta-A chain) (SCS-betaA)                                                                                                                             | Suca2                       | 20916                           | 1.0785 | 0.39507 | 0.40333 | 0.58383 | 24.7843125 | 24.74374   | 24.64538   | 24.79295    |
| P60840 | Alpha-endosulfine (ARPP-19e)                                                                                                                                                                                                                                                                                            | Ensa                        | 56205                           | 1.0782 | 0.39519 | 0.4032  | 0.58383 | 21.2011625 | 21.06263   | 21.08001   | 21.06939    |
| Q922J6 | Tetraspanin-2 (Tspan-2)                                                                                                                                                                                                                                                                                                 | Tspan2                      | 70747                           | 1.0778 | 0.39534 | 0.40303 | 0.58383 | 21.4299025 | 21.34596   | 20.9927175 | 21.16662    |
| Q99020 | Heterogeneous nuclear ribonucleoprotein A/B (hnRNP A/B) (CARG-binding factor-A) (CBF-A)                                                                                                                                                                                                                                 | Hnrnpab Cbf-a Cgbfa Hnrpab  | 15384                           | 1.0727 | 0.39731 | 0.40087 | 0.58393 | 21.298715  | 21.38199   | 21.38354   | 21.38734    |
| Q61885 | Myelin-oligodendrocyte glycoprotein                                                                                                                                                                                                                                                                                     | Mog                         | 17441                           | 1.0754 | 0.39626 | 0.40202 | 0.58393 | 24.334765  | 24.2538675 | 24.069825  | 24.49384    |
| Q62425 | Cytochrome c oxidase subunit NDUF44                                                                                                                                                                                                                                                                                     | Ndufa4                      | 17992                           | 1.0719 | 0.39759 | 0.40056 | 0.58393 | 25.1378525 | 25.0726575 | 25.058705  | 25.11277    |
| Q8BP67 | 60S ribosomal protein L24                                                                                                                                                                                                                                                                                               | Rpl24                       | 68193                           | 1.0732 | 0.39709 | 0.40111 | 0.58393 | 21.9756975 | 21.83409   | 21.9751625 | 21.96255    |

|        |                                                                                                                                                                                                                                          |                                                                                                                                                                                                  |                                                                            |        |         |         |         |             |             |             |             |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------|---------|---------|---------|-------------|-------------|-------------|-------------|
| O55131 | Septin-7 (CDC10 protein homolog)                                                                                                                                                                                                         | Septin7 Cdc10 Sept7                                                                                                                                                                              | 235072                                                                     | 1.0729 | 0.39722 | 0.40097 | 0.58393 | 25.123785   | 25.2283725  | 25.17881    | 25.150545   |
| P84228 | Histone H3.2                                                                                                                                                                                                                             | Hist1h3b H3-53 H3.2<br>H3b; Hist1h3c H3-143; Hist1h3d H3-B;<br>Hist1h3e H3-F;<br>Hist1h3f H3.2-221<br>H3f; Hist2h3b H3.2-616; Hist2h3c1 H3.2-615 Hist2h3ca1;<br>Hist2h3c2 H3.2-614<br>Hist2h3ca2 | 15077<br>260423<br>319148<br>319149<br>319150<br>319151<br>319154<br>97114 | 1.0716 | 0.3977  | 0.40044 | 0.58393 | 15.46430825 | 19.01826525 | 19.59145725 | 19.11194175 |
| Q9QXZ0 | Microtubule-actin cross-linking factor 1 (Actin cross-linking family 7)                                                                                                                                                                  | Macf1 Acf7 Acfp7<br>Macf                                                                                                                                                                         |                                                                            | 1.0676 | 0.39926 | 0.39875 | 0.58565 | 19.52196    | 19.696965   | 19.7196475  | 19.55479    |
| Q9D3D9 | ATP synthase subunit delta, mitochondrial (ATP synthase F1 subunit delta) (F-ATPase delta subunit)                                                                                                                                       | Atp5f1d Atp5d                                                                                                                                                                                    | 66043                                                                      | 1.066  | 0.39986 | 0.39809 | 0.58598 | 23.6876525  | 23.6478725  | 23.4826975  | 23.7206175  |
| Q9WUM4 | Coronin-1C (Coronin-3)                                                                                                                                                                                                                   | Coro1c                                                                                                                                                                                           | 23790                                                                      | 1.0649 | 0.40028 | 0.39763 | 0.58604 | 22.862925   | 22.90886    | 22.9677325  | 22.9120125  |
| P61514 | 60S ribosomal protein L37a                                                                                                                                                                                                               | Rpl37a                                                                                                                                                                                           | 19981                                                                      | 1.0635 | 0.40085 | 0.39702 | 0.5863  | 19.46279    | 19.2526925  | 19.357835   | 19.4474125  |
| Q9WVE8 | Protein kinase C and casein kinase substrate in neurons protein 2 (Syndapin-2) (Syndapin-II) (SdplI)                                                                                                                                     | Pacsin2                                                                                                                                                                                          | 23970                                                                      | 1.0603 | 0.40207 | 0.3957  | 0.58695 | 19.7858575  | 19.514355   | 19.612515   | 19.59522    |
| P62754 | 40S ribosomal protein S6 (Phosphoprotein NP33)                                                                                                                                                                                           | Rps6                                                                                                                                                                                             | 105244208<br>20104                                                         | 1.0613 | 0.4017  | 0.39609 | 0.58695 | 22.624425   | 22.521785   | 22.52244    | 22.6285125  |
| Q99PU5 | Long-chain-fatty-acid--CoA ligase ACSBG1 (EC 6.2.1.3) (Acyl-CoA synthetase bubblegum family member 1) (mBG1) (Gonadotropin-regulated long chain acyl CoA synthetase) (GR-LACS) (Lipidosin)                                               | Acsbg1 Kiaa0631 Lpd                                                                                                                                                                              | 94180                                                                      | 1.0584 | 0.4028  | 0.39491 | 0.58747 | 21.047495   | 21.106585   | 20.9787025  | 21.270315   |
| Q9DCZ4 | MICOS complex subunit Mic26 (Apolipoprotein O) (MICOS complex subunit Mic23) (Protein FAM121B)                                                                                                                                           | Apoo Fam121b Mic23<br>Mic26                                                                                                                                                                      | 68316                                                                      | 1.0565 | 0.40355 | 0.39411 | 0.58799 | 20.8876125  | 20.7970875  | 20.6927225  | 20.7978375  |
| P57780 | Alpha-actinin-4 (Non-muscle alpha-actinin 4)                                                                                                                                                                                             | Actn4                                                                                                                                                                                            | 60595                                                                      | 1.0543 | 0.40442 | 0.39317 | 0.5887  | 22.746765   | 22.762345   | 22.86892    | 22.784025   |
| G5E8K5 | Ankyrin-3 (ANK-3) (Ankyrin-G)                                                                                                                                                                                                            | Ank3                                                                                                                                                                                             | 11735                                                                      | 1.0485 | 0.40668 | 0.39075 | 0.59087 | 21.0584     | 20.924725   | 20.9371125  | 20.9190775  |
| Q99LP6 | GrpE protein homolog 1, mitochondrial (Mt-GrpE#1)                                                                                                                                                                                        | Grpel1                                                                                                                                                                                           | 17713                                                                      | 1.0487 | 0.4066  | 0.39083 | 0.59087 | 21.2146675  | 21.207535   | 21.25857    | 20.8603625  |
| P12787 | Cytochrome c oxidase subunit 5A, mitochondrial (Cytochrome c oxidase polypeptide Va)                                                                                                                                                     | Cox5a                                                                                                                                                                                            | 12858                                                                      | 1.0428 | 0.40895 | 0.38833 | 0.59306 | 24.84574    | 24.766575   | 24.8315625  | 24.878745   |
| Q9JHI5 | Isovaleryl-CoA dehydrogenase, mitochondrial (IVD) (EC 1.3.8.4)                                                                                                                                                                           | Ivd                                                                                                                                                                                              | 56357                                                                      | 1.0427 | 0.40899 | 0.38829 | 0.59306 | 21.4823775  | 21.5682225  | 21.3952625  | 21.426325   |
| Q8K1J6 | CCA tRNA nucleotidyltransferase 1, mitochondrial (EC 2.7.7.72) (mitochondrial tRNA nucleotidyl transferase, CCA-adding) (mt CCA-adding enzyme) (mt tRNA CCA-diphosphorylase) (mt tRNA CCA-pyrophosphorylase) (mt tRNA adenyltransferase) | Trmt1                                                                                                                                                                                            | 70047                                                                      | 1.0408 | 0.40974 | 0.38749 | 0.59306 | 21.29853    | 20.9289025  | 20.6992825  | 20.7441675  |
| Q8BH44 | Coronin-2B                                                                                                                                                                                                                               | Coro2b                                                                                                                                                                                           | 235431                                                                     | 1.0408 | 0.40973 | 0.3875  | 0.59306 | 21.620195   | 21.685505   | 21.7585125  | 21.6181775  |
| P63001 | Ras-related C3 botulinum toxin substrate 1 (EC 3.6.5.2) (p21-Rac1)                                                                                                                                                                       | Rac1                                                                                                                                                                                             | 19353                                                                      | 1.0379 | 0.41088 | 0.38629 | 0.59358 | 24.3004275  | 24.241425   | 24.143735   | 24.3339     |
| Q9EPJ9 | ADP-ribosylation factor GTPase-activating protein 1 (ARF GAP 1) (ADP-ribosylation factor 1 GTPase-activating protein) (ARF1 GAP) (ARF1-directed GTPase-activating protein)                                                               | Arfgap1 Arf1gap                                                                                                                                                                                  | 228998                                                                     | 1.0381 | 0.41078 | 0.38639 | 0.59358 | 20.824865   | 20.8019125  | 20.906985   | 20.749675   |
| P50114 | Protein S100-B (S-100 protein beta chain) (S-100 protein subunit beta) (S100 calcium-binding protein B)                                                                                                                                  | S100b                                                                                                                                                                                            | 20203                                                                      | 1.0353 | 0.41192 | 0.38518 | 0.59452 | 20.5465725  | 21.4978375  | 21.3106625  | 21.5442825  |

|        |                                                                                                                                                                                                                                                               |                   |        |        |         |         |         |             |            |             |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------|---------|---------|---------|-------------|------------|-------------|------------|
| O55142 | 60S ribosomal protein L35a                                                                                                                                                                                                                                    | Rpl35a            | 57808  | 1.0339 | 0.41246 | 0.38462 | 0.59473 | 19.72437    | 19.473775  | 19.5580425  | 19.5972475 |
| P08249 | Malate dehydrogenase, mitochondrial (EC 1.1.1.37)                                                                                                                                                                                                             | Mdh2 Mor1         | 17448  | 1.0299 | 0.41406 | 0.38294 | 0.59549 | 28.0733975  | 28.106245  | 28.0823325  | 28.0410225 |
| P23492 | Purine nucleoside phosphorylase (PNP) (EC 2.4.2.1) (inosine phosphorylase) (inosine-guanosine phosphorylase)                                                                                                                                                  | Pnp Np Pnp1       | 18950  | 1.0309 | 0.41367 | 0.38334 | 0.59549 | 20.0350175  | 20.1745325 | 20.1042325  | 20.407325  |
| P46097 | Synaptotagmin-2 (Inositol polyphosphate-binding protein) (IP4-binding protein) (IP4BP) (Synaptotagmin II) (SytlI)                                                                                                                                             | Syt2              | 20980  | 1.0287 | 0.41454 | 0.38243 | 0.59549 | 19.41043    | 19.28937   | 19.12674    | 19.5788225 |
| Q9JJK2 | LanC-like protein 2 (Testis-specific adriamycin sensitivity protein)                                                                                                                                                                                          | Lanc2 Tasp        | 71835  | 1.0287 | 0.41454 | 0.38243 | 0.59549 | 22.3725525  | 22.4454225 | 22.564285   | 22.3422925 |
| Q62059 | Versican core protein (Chondroitin sulfate proteoglycan core protein 2) (Chondroitin sulfate proteoglycan 2) (Large fibroblast proteoglycan) (PG-M)                                                                                                           | Vcan Cspg2        |        | 1.0266 | 0.41539 | 0.38154 | 0.59597 | 20.399755   | 20.3781425 | 20.3593175  | 20.6580825 |
| P10637 | Microtubule-associated protein tau (Neurofibrillary tangle protein) (Paired helical filament-tau) (PHF-tau)                                                                                                                                                   | Mapt Mtapt Tau    | 17762  | 1.0245 | 0.41625 | 0.38064 | 0.59597 | 24.7581525  | 24.80313   | 24.81288    | 24.634965  |
| P61759 | Prefoldin subunit 3 (von Hippel-Lindau-binding protein 1) (VBP-1) (VHL-binding protein 1)                                                                                                                                                                     | Vbp1 Pfdn3        | 22327  | 1.0253 | 0.41592 | 0.38099 | 0.59597 | 19.97303    | 19.86167   | 19.9731075  | 19.85377   |
| Q8CGY8 | UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltransferase 110 kDa subunit (EC 2.4.1.255) (O-GlcNAc transferase subunit p110) (O-linked N-acetylglucosamine transferase 110 kDa subunit) (OGT)                                                           | Ogt               | 108155 | 1.024  | 0.41644 | 0.38045 | 0.59597 | 20.8419575  | 20.84559   | 20.8300675  | 20.6908525 |
| P14211 | Calreticulin (CRP55) (Calregulin) (Endoplasmic reticulum resident protein 60) (ERP60) (HACBP)                                                                                                                                                                 | Calr              | 12317  | 1.0212 | 0.41758 | 0.37926 | 0.59649 | 23.5828125  | 23.78119   | 23.78236    | 23.88635   |
| O70251 | Elongation factor 1-beta (EF-1-beta)                                                                                                                                                                                                                          | Eef1b Eef1b2      | 55949  | 1.0217 | 0.41738 | 0.37947 | 0.59649 | 22.2119425  | 22.261465  | 22.3450175  | 22.3000425 |
| P24288 | Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39)                                                                                                                                                                 | Bcat1 Eca39       | 12035  | 1.0193 | 0.41833 | 0.37848 | 0.597   | 20.9451225  | 20.354895  | 20.3730225  | 20.3950625 |
| Q61646 | Haptoglobin [Cleaved into: Haptoglobin alpha chain; Haptoglobin beta chain]                                                                                                                                                                                   | Hp                | 15439  | 1.0165 | 0.41947 | 0.3773  | 0.59807 | 14.36464025 | 19.7228825 | 13.47394675 | 14.0737965 |
| O35526 | Syntaxin-1A (Neuron-specific antigen HPC-1)                                                                                                                                                                                                                   | Stx1a             | 20907  | 1.0135 | 0.42069 | 0.37603 | 0.59821 | 23.37482    | 23.38054   | 23.598255   | 23.2790775 |
| Q8CGC6 | RNA-binding protein 28 (RNA-binding motif protein 28)                                                                                                                                                                                                         | Rbm28             | 68272  | 1.0134 | 0.42075 | 0.37598 | 0.59821 | 21.2431175  | 21.1799225 | 21.1758225  | 20.3807125 |
| Q920E5 | Farnesyl pyrophosphate synthase (FPP synthase) (FPS) (EC 2.5.1.10) ((2E,6E)-farnesyl diphosphate synthase) (Cholesterol-regulated 39 kDa protein) (CR 39) (Dimethylallyltransferase) (EC 2.5.1.1) (Farnesyl diphosphate synthase) (Geranyltransferase)        | Fdps              | 110196 | 1.0138 | 0.42058 | 0.37615 | 0.59821 | 20.097365   | 19.78059   | 19.9724125  | 19.7693325 |
| Q99MR8 | Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial (MCCase subunit alpha) (EC 6.4.1.4) (3-methylcrotonyl-CoA carboxylase 1) (3-methylcrotonyl-CoA carboxylase biotin-containing subunit) (3-methylcrotonyl-CoA:carbon dioxide ligase subunit alpha) | Mccc1 Mcca        | 72039  | 1.0123 | 0.42119 | 0.37552 | 0.59829 | 18.9041825  | 19.0356375 | 18.6141475  | 18.814405  |
| P43006 | Excitatory amino acid transporter 2 (GLT-1) (Sodium-dependent glutamate/aspartate transporter 2) (Solute carrier family 1 member 2)                                                                                                                           | Slc1a2 Eaat2 Glt1 | 20511  | 1.0101 | 0.42206 | 0.37463 | 0.59841 | 27.0285775  | 27.002015  | 26.9270725  | 26.892395  |
| Q7M750 | Opalin (Oligodendrocytic myelin paranodal and inner loop protein) (Transmembrane protein 10)                                                                                                                                                                  | Opalin Tmem10     | 226115 | 1.0105 | 0.4219  | 0.37479 | 0.59841 | 19.6502325  | 19.6298575 | 19.344      | 19.628445  |
| P55088 | Aquaporin-4 (AQP-4) (Mercurial-insensitive water channel) (MIWC) (WCH4)                                                                                                                                                                                       | Aqp4              | 11829  | 1.0008 | 0.42588 | 0.37071 | 0.59931 | 20.91935    | 21.4939075 | 21.23748    | 21.60852   |
| O55100 | Synaptogyrin-1                                                                                                                                                                                                                                                | Syngr1            | 20972  | 1.0021 | 0.42534 | 0.37126 | 0.59931 | 23.505215   | 23.3461975 | 23.4499825  | 23.3511175 |

|        |                                                                                                                                                                                                                                                                              |                                 |        |         |         |         |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|---------|---------|---------|---------|------------|------------|------------|------------|
| Q9JMG7 | Hepatoma-derived growth factor-related protein 3 (HRP-3)                                                                                                                                                                                                                     | Hdgfl3 Hdqfrp3                  | 29877  | 1.0043  | 0.42447 | 0.37215 | 0.59931 | 21.432805  | 21.387525  | 21.3504425 | 21.51461   |
| O70493 | Sorting nexin-12 (SDP8 protein)                                                                                                                                                                                                                                              | Snx12                           | 55988  | 1.0009  | 0.42583 | 0.37076 | 0.59931 | 20.82029   | 20.8443725 | 20.9227675 | 20.83675   |
| Q91VN4 | MICOS complex subunit Mic25 (Coiled-coil-helix-coiled-coil-helix domain-containing protein 6)                                                                                                                                                                                | Chchd6 Mic25                    | 66098  | 0.99908 | 0.4266  | 0.36998 | 0.59931 | 20.85183   | 20.707225  | 20.6900125 | 20.64766   |
| Q99JY8 | Phospholipid phosphatase 3 (EC 3.1.3.-) (EC 3.1.3.4) (Lipid phosphate phosphohydrolase 3) (PAP2-beta) (Phosphatidate phosphohydrolase type 2b) (Phosphatidic acid phosphatase 2b) (PAP-2b) (PAP2b)                                                                           | Ppp3 Lpp3 Ppap2b                | 67916  | 0.99904 | 0.42662 | 0.36996 | 0.59931 | 21.5177575 | 21.66535   | 21.6172    | 21.626445  |
| Q8BVI4 | Dihydropteridine reductase (EC 1.5.1.34) (HDHPR) (Quinoid dihydropteridine reductase)                                                                                                                                                                                        | Qdpr Dhpr                       | 110391 | 1.0028  | 0.42508 | 0.37153 | 0.59931 | 23.2019025 | 22.91631   | 23.071575  | 23.064395  |
| P58389 | Serine/threonine-protein phosphatase 2A activator (EC 5.2.1.8) (PP2A, subunit B', PR53 isoform) (Phosphotyrosyl phosphatase activator) (PTPA) (Serine/threonine-protein phosphatase 2A regulatory subunit 4) (Serine/threonine-protein phosphatase 2A regulatory subunit B') | Ptpa Ppp2r4                     | 110854 | 1.0059  | 0.4238  | 0.37284 | 0.59931 | 22.03367   | 22.162825  | 22.010925  | 22.0435    |
| Q6PIC6 | Sodium/potassium-transporting ATPase subunit alpha-3 (Na(+)/K(+) ATPase alpha-3 subunit) (EC 7.2.2.13) (Na(+)/K(+) ATPase alpha(III) subunit) (Sodium pump subunit alpha-3)                                                                                                  | Atp1a3                          | 232975 | 1       | 0.42622 | 0.37036 | 0.59931 | 29.27293   | 29.27293   | 29.2277025 | 29.27293   |
| P47963 | 60S ribosomal protein L13 (A52)                                                                                                                                                                                                                                              | Rpl13                           | 270106 | 1.0002  | 0.42612 | 0.37047 | 0.59931 | 22.4802775 | 22.4159425 | 22.4764725 | 22.54808   |
| Q91VR2 | ATP synthase subunit gamma, mitochondrial (ATP synthase F1 subunit gamma) (F-ATPase gamma subunit)                                                                                                                                                                           | Atp5f1c Atp5c1                  | 11949  | 0.98974 | 0.43047 | 0.36605 | 0.60225 | 24.9687    | 24.9834875 | 24.916005  | 25.029095  |
| P62482 | Voltage-gated potassium channel subunit beta-2 (EC 1.1.1.-) (K(+)) channel subunit beta-2) (Kv-beta-2) (Neuroimmune protein F5)                                                                                                                                              | Kcnab2 Ckbeta2 I2rf5 Kcnb3      | 16498  | 0.99142 | 0.42978 | 0.36676 | 0.60225 | 22.2789425 | 22.2564575 | 22.3373025 | 22.079795  |
| P07759 | Serine protease inhibitor A3K (Serpina A3K) (Contrapsin) (SPI-2)                                                                                                                                                                                                             | Serpina3k Mcm2 Spi2             | 20714  | 0.9914  | 0.42978 | 0.36675 | 0.60225 | 21.242445  | 22.3017725 | 20.940195  | 21.5865425 |
| O88653 | Regulator complex protein LAMTOR3 (Late endosomal/lysosomal adaptor and MAPK and MTOR activator 3) (MEK-binding partner 1) (Mp1) (Mitogen-activated protein kinase kinase 1-interacting protein 1) (Mitogen-activated protein kinase scaffold protein 1)                     | Lamtor3 Map2k1ip1 Mapbp Mapksp1 | 56692  | 0.98995 | 0.43039 | 0.36614 | 0.60225 | 19.786865  | 19.8010625 | 20.0004925 | 19.96084   |
| P17742 | Peptidyl-prolyl cis-trans isomerase A (PPIase A) (EC 5.2.1.8) (Cyclophilin A) (Cyclosporin A-binding protein) (Rotamase A) (SP18) [Cleaved into: Peptidyl-prolyl cis-trans isomerase A, N-terminally processed]                                                              | Ppia                            | 268373 | 0.98924 | 0.43069 | 0.36584 | 0.60225 | 27.4757775 | 27.41489   | 27.4757775 | 27.3742075 |
| Q9DC70 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (Complex I-20kD) (CI-20kD) (NADH-ubiquinone oxidoreductase 20 kDa subunit)                                                                                                   | Ndufs7                          | 75406  | 0.98545 | 0.43227 | 0.36425 | 0.60391 | 21.573325  | 21.8990375 | 21.752285  | 21.677655  |
| P06745 | Glucose-6-phosphate isomerase (GPI) (EC 5.3.1.9) (Autocrine motility factor) (AMF) (Neuroleukin) (NLK) (Phosphoglucose isomerase) (PGI) (Phosphohexose isomerase) (PHI)                                                                                                      | Gpi Gpi1                        | 14751  | 0.98204 | 0.4337  | 0.36281 | 0.60535 | 26.278475  | 26.32156   | 26.266815  | 26.2258625 |
| P0DN34 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 1 (Complex I-MNLL) (CI-MNLL) (NADH-ubiquinone oxidoreductase MNLL subunit)                                                                                                                                         | Ndufb1                          |        | 0.97763 | 0.43555 | 0.36096 | 0.60739 | 20.66009   | 20.64009   | 20.4827625 | 20.63676   |
| Q9QUM9 | Proteasome subunit alpha type-6 (EC 3.4.25.1) (Macropain iota chain) (Multicatalytic endopeptidase complex iota chain) (Proteasome iota chain)                                                                                                                               | Psma6                           | 26443  | 0.97629 | 0.43612 | 0.36039 | 0.60763 | 22.2852775 | 22.2115575 | 22.322775  | 22.465245  |

|        |                                                                                                                                                                                                                       |                          |                  |         |         |         |         |            |            |            |            |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|---------|---------|---------|---------|------------|------------|------------|------------|
| Q9EQU5 | Protein SET (Phosphatase 2A inhibitor I2PP2A) (I-2PP2A) (Template-activating factor I) (TAF-I)                                                                                                                        | Set                      | 56086            | 0.97305 | 0.43749 | 0.35903 | 0.60842 | 21.5034725 | 21.4839525 | 21.4291525 | 21.539205  |
| P56959 | RNA-binding protein FUS (Protein pigpen)                                                                                                                                                                              | Fus                      | 233908           | 0.97326 | 0.4374  | 0.35912 | 0.60842 | 21.2621925 | 21.176345  | 21.2353325 | 21.20557   |
| Q99PJ0 | Neurotrimin                                                                                                                                                                                                           | Ntm Hnt Nt               |                  | 0.9674  | 0.43989 | 0.35665 | 0.61094 | 22.6565975 | 22.550195  | 22.6709675 | 22.4349975 |
| Q99J85 | Neuronal pentraxin receptor                                                                                                                                                                                           | Nptxr Npr                |                  | 0.96597 | 0.4405  | 0.35605 | 0.61094 | 21.063     | 21.4679325 | 21.400945  | 21.3274875 |
| Q91Z31 | Polypyrimidine tract-binding protein 2 (Brain-enriched polypyrimidine tract-binding protein) (Brain-enriched PTB) (Neural polypyrimidine tract-binding protein) (RRM-type RNA-binding protein brPTB)                  | Ptbp2 Brptb Nptb         | 56195            | 0.96659 | 0.44024 | 0.35631 | 0.61094 | 20.223255  | 20.20443   | 20.1896825 | 20.0858125 |
| Q91WJ8 | Far upstream element-binding protein 1 (FBP) (FUSE-binding protein 1)                                                                                                                                                 | Fubp1 D3Erd330e          |                  | 0.96335 | 0.44162 | 0.35495 | 0.61146 | 20.53657   | 20.5026925 | 20.323015  | 20.5577975 |
| Q9Z0P4 | Paralemmin-1 (Paralemmin)                                                                                                                                                                                             | Palm                     | 18483            | 0.96322 | 0.44168 | 0.35489 | 0.61146 | 23.466505  | 23.4105725 | 23.3908225 | 23.3527025 |
| P70188 | Kinesin-associated protein 3 (KAP-3) (KAP3)                                                                                                                                                                           | Kifap3                   | 16579            | 0.96091 | 0.44267 | 0.35392 | 0.61227 | 18.3587875 | 18.638615  | 18.414455  | 18.2817725 |
| P03930 | ATP synthase protein 8 (A6L) (F-ATPase subunit 8)                                                                                                                                                                     | Mtatp8 Atp8 mt-Atp8      | 17706            | 0.95773 | 0.44403 | 0.35259 | 0.61305 | 23.2402975 | 23.1502175 | 23.0723925 | 23.226995  |
| P03899 | NADH-ubiquinone oxidoreductase chain 3 (EC 7.1.1.2) (NADH dehydrogenase subunit 3)                                                                                                                                    | Mtnd3 mt-Nd3 Nd3         | 17718<br>3338896 | 0.95824 | 0.44381 | 0.3528  | 0.61305 | 19.7903175 | 19.74534   | 19.62596   | 19.7254075 |
| Q91V14 | Solute carrier family 12 member 5 (Electroneutral potassium-chloride cotransporter 2) (K-Cl cotransporter 2) (mKCC2) (Neuronal K-Cl cotransporter)                                                                    | Slc12a5 Kcc2 Kiaa1176    | 57138            | 0.95653 | 0.44455 | 0.35208 | 0.61322 | 24.32627   | 24.3289525 | 24.4051875 | 24.3096275 |
| Q61831 | Mitogen-activated protein kinase 10 (MAP kinase 10) (MAPK 10) (EC 2.7.11.24) (MAP kinase p49 3F12) (Stress-activated protein kinase JNK3) (c-Jun N-terminal kinase 3)                                                 | Mapk10 Jnk3 Prkm10 Serk2 | 26414            | 0.94957 | 0.44756 | 0.34915 | 0.61639 | 21.2243675 | 21.20586   | 21.2285375 | 21.0518775 |
| Q0VBF8 | Protein stum homolog                                                                                                                                                                                                  | Stum                     | 381310           | 0.94934 | 0.44766 | 0.34905 | 0.61639 | 22.7311975 | 22.830615  | 22.8051575 | 22.87683   |
| Q9D517 | 1-acyl-sn-glycerol-3-phosphate acyltransferase gamma (EC 2.3.1.51) (1-acylglycerol-3-phosphate O-acyltransferase 3) (1-AGP acyltransferase 3) (1-AGPAT 3) (Lysophosphatidic acid acyltransferase gamma) (LPAAT-gamma) | Agpat3 Lpaat3            | 28169            | 0.94673 | 0.44879 | 0.34795 | 0.61739 | 20.14589   | 19.6765475 | 20.6569275 | 20.3942375 |
| P28184 | Metallothionein-3 (MT-3) (Growth inhibitory factor) (GIF) (Metallothionein-III) (MT-III)                                                                                                                              | Mt3                      | 17751            | 0.94457 | 0.44973 | 0.34704 | 0.61757 | 22.08439   | 21.7504125 | 21.7440725 | 21.328805  |
| Q91VR5 | ATP-dependent RNA helicase DDX1 (EC 3.6.4.13) (DEAD box protein 1)                                                                                                                                                    | Ddx1                     | 104721           | 0.94482 | 0.44963 | 0.34715 | 0.61757 | 20.75758   | 20.857045  | 21.03138   | 20.90433   |
| Q9JKC6 | Cell cycle exit and neuronal differentiation protein 1 (BM88 antigen)                                                                                                                                                 | Cend1 Bm88               | 57754            | 0.94357 | 0.45017 | 0.34662 | 0.61762 | 24.160435  | 24.02303   | 23.8873525 | 23.73319   |
| Q60737 | Casein kinase II subunit alpha (CK II alpha) (EC 2.7.11.1)                                                                                                                                                            | Csnk2a1 Ckiia            | 12995            | 0.94006 | 0.4517  | 0.34515 | 0.61861 | 20.78489   | 20.8988675 | 21.0592425 | 20.90891   |
| Q9CPU0 | Lactoylglutathione lyase (EC 4.4.1.5) (Aldoketomutase) (Glyoxalase I) (Glx I) (Ketone-aldehyde mutase) (Methylglyoxalase) (S-D-lactoylglutathione methylglyoxal lyase)                                                | Glo1                     | 109801           | 0.94037 | 0.45157 | 0.34528 | 0.61861 | 22.4267475 | 22.56477   | 22.5134025 | 22.5654325 |
| Q9R1P3 | Proteasome subunit beta type-2 (EC 3.4.25.1) (Macropain subunit C7-I) (Multicatalytic endopeptidase complex subunit C7-I) (Proteasome component C7-I)                                                                 | Psmb2                    | 26445            | 0.93911 | 0.45212 | 0.34475 | 0.61863 | 19.95601   | 19.78776   | 19.8633175 | 19.86746   |
| P63158 | High mobility group protein B1 (High mobility group protein 1) (HMG-1)                                                                                                                                                | Hmgb1 Hmg-1 Hmg1         | 15289            | 0.93812 | 0.45255 | 0.34433 | 0.61866 | 18.717095  | 19.8710325 | 19.2070725 | 19.66011   |
| O35685 | Nuclear migration protein nudC (Nuclear distribution protein C homolog) (Silica-induced gene 92 protein) (SIG-92)                                                                                                     | Nudc                     | 18221            | 0.93591 | 0.45352 | 0.3434  | 0.61944 | 21.2713575 | 21.1326825 | 21.1690525 | 21.2735975 |

|        |                                                                                                                                                                                                                                                                            |                          |        |         |         |         |         |            |            |            |            |
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| Q8BFZ3 | Beta-actin-like protein 2 (Kappa-actin)                                                                                                                                                                                                                                    | Actb12                   | 238880 | 0.93471 | 0.45405 | 0.34289 | 0.61961 | 20.17236   | 19.9627825 | 20.017515  | 19.9391525 |
| Q9DB20 | ATP synthase subunit O, mitochondrial (ATP synthase peripheral stalk subunit OSCP) (Oligomycin sensitivity conferral protein) (OSCP)                                                                                                                                       | Atp5po Atp5o D12Wsu28e   | 28080  | 0.93321 | 0.45471 | 0.34226 | 0.61995 | 25.4023225 | 25.4447925 | 25.4216225 | 25.4629025 |
| Q9CT10 | Ran-binding protein 3 (RanBP3)                                                                                                                                                                                                                                             | Ranbp3                   | 71810  | 0.92979 | 0.45622 | 0.34082 | 0.62146 | 18.6862725 | 18.4947425 | 18.7410025 | 18.67572   |
| Q8K4B0 | Metastasis-associated protein MTA1                                                                                                                                                                                                                                         | Mta1                     |        | 0.92497 | 0.45836 | 0.33879 | 0.6216  | 20.90508   | 20.8948375 | 20.742445  | 20.3534325 |
| Q06138 | Calcium-binding protein 39 (MO25alpha) (Protein Mo25)                                                                                                                                                                                                                      | Cab39 Mo25               | 12283  | 0.92842 | 0.45683 | 0.34025 | 0.6216  | 20.40677   | 20.299835  | 20.45314   | 20.4538825 |
| P13707 | Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic (GPD-C) (GPDH-C) (EC 1.1.1.8)                                                                                                                                                                                     | Gpd1 Gdc-1 Gdc1 Kiaa4010 | 14555  | 0.92726 | 0.45734 | 0.33976 | 0.6216  | 21.6080125 | 21.76244   | 21.68151   | 21.900575  |
| P43276 | Histone H1.5 (H1 VAR.5) (H1b)                                                                                                                                                                                                                                              | H1-5 H1f5 Hist1h1b       | 56702  | 0.92561 | 0.45808 | 0.33906 | 0.6216  | 19.501745  | 19.283525  | 19.2126775 | 19.37554   |
| P60521 | Gamma-aminobutyric acid receptor-associated protein-like 2 (GABA(A) receptor-associated protein-like 2) (Golgi-associated ATPase enhancer of 16 kDa) (GATE-16)                                                                                                             | Gabarapl2                | 93739  | 0.92539 | 0.45817 | 0.33897 | 0.6216  | 19.775435  | 19.6998925 | 19.8166125 | 19.706975  |
| Q9JLZ3 | Methylglutaconyl-CoA hydratase, mitochondrial (EC 4.2.1.18) (AU-specific RNA-binding enoyl-CoA hydratase) (AU-binding enoyl-CoA hydratase) (muAUH) (Itaconyl-CoA hydratase) (EC 4.2.1.56)                                                                                  | Auh                      | 11992  | 0.921   | 0.46013 | 0.33712 | 0.62279 | 23.97337   | 23.95704   | 23.8308925 | 23.967065  |
| P03921 | NADH-ubiquinone oxidoreductase chain 5 (EC 7.1.1.2) (NADH dehydrogenase subunit 5)                                                                                                                                                                                         | Mtnd5 mt-Nd5 Nd5         | 17721  | 0.92025 | 0.46046 | 0.3368  | 0.62279 | 21.4375075 | 21.4352725 | 21.6790525 | 21.5659775 |
| Q8CBY8 | Dynactin subunit 4 (Dynactin subunit p62)                                                                                                                                                                                                                                  | Dctn4                    | 67665  | 0.92152 | 0.45989 | 0.33734 | 0.62279 | 19.65457   | 19.75725   | 19.816985  | 19.72955   |
| Q61016 | Guanine nucleotide-binding protein G(i)/G(s)/G(o) subunit gamma-7                                                                                                                                                                                                          | Gng7 Gngt7               |        | 0.91642 | 0.46217 | 0.33519 | 0.62381 | 21.3109    | 21.263095  | 21.22739   | 21.1316825 |
| Q9DBJ1 | Phosphoglycerate mutase 1 (EC 5.4.2.11) (EC 5.4.2.4) (BPG-dependent PGAM 1) (Phosphoglycerate mutase isozyme B) (PGAM-B)                                                                                                                                                   | Pgam1                    | 18648  | 0.91582 | 0.46244 | 0.33494 | 0.62381 | 26.14799   | 26.2272975 | 26.2714675 | 26.240385  |
| P68510 | 14-3-3 protein eta                                                                                                                                                                                                                                                         | Ywhah                    | 22629  | 0.91746 | 0.46171 | 0.33563 | 0.62381 | 26.054655  | 25.9389675 | 25.8825875 | 25.9652375 |
| Q8C1A5 | Thimet oligopeptidase (EC 3.4.24.15)                                                                                                                                                                                                                                       | Thop1                    | 50492  | 0.913   | 0.46371 | 0.33375 | 0.62442 | 21.09506   | 21.002865  | 21.0243325 | 21.17924   |
| Q8CIE6 | Coatomer subunit alpha (Alpha-coat protein) (Alpha-COP) [Cleaved into: Xenin (Xenopsin-related peptide); Proxenin]                                                                                                                                                         | Copa                     | 12847  | 0.91368 | 0.4634  | 0.33404 | 0.62442 | 19.720535  | 19.4276175 | 19.40112   | 19.604475  |
| P22892 | AP-1 complex subunit gamma-1 (Adaptor protein complex AP-1 subunit gamma-1) (Adaptor-related protein complex 1 subunit gamma-1) (Clathrin assembly protein complex 1 gamma-1 large chain) (Gamma-adaptin) (Gamma1-adaptin) (Golgi adaptor HA1/AP1 adaptin subunit gamma-1) | Ap1g1 Adtg Clapp1        | 11765  | 0.91111 | 0.46456 | 0.33296 | 0.62501 | 20.61588   | 20.5712175 | 20.65317   | 20.49977   |
| P16388 | Potassium voltage-gated channel subfamily A member 1 (MBK1) (MKI) (Voltage-gated potassium channel subunit Kv1.1)                                                                                                                                                          | Kcna1                    | 16485  | 0.90647 | 0.46666 | 0.331   | 0.6264  | 20.033975  | 19.962605  | 20.2265575 | 20.33787   |
| Q8BYI9 | Tenascin-R (TN-R) (Janusin) (Neural recognition molecule J1-160/180) (Restrictin)                                                                                                                                                                                          | Tnr                      | 21960  | 0.90759 | 0.46615 | 0.33147 | 0.6264  | 25.1392    | 25.1112925 | 25.185985  | 25.14801   |
| Q68FF6 | ARF GTPase-activating protein GIT1 (ARF GAP GIT1) (G protein-coupled receptor kinase-interactor 1) (GRK-interacting protein 1)                                                                                                                                             | Git1                     | 216963 | 0.9061  | 0.46682 | 0.33085 | 0.6264  | 19.8444625 | 19.7212025 | 19.827125  | 19.5750325 |
| Q8K595 | Mucolipin-2 (Transient receptor potential channel mucolipin 2) (TRPML2)                                                                                                                                                                                                    | Mcoln2                   | 68279  | 0.90464 | 0.46749 | 0.33023 | 0.62674 | 20.69927   | 20.84381   | 20.54415   | 20.7010075 |
| O70503 | Very-long-chain 3-oxoacyl-CoA reductase (EC 1.1.1.330) (17-beta-hydroxysteroid dehydrogenase 12) (17-beta-HSD 12) (3-                                                                                                                                                      | Hsd17b12 Kik1            | 56348  | 0.90015 | 0.46953 | 0.32834 | 0.62892 | 20.1697525 | 20.133565  | 20.2475575 | 20.1270825 |

|        |                                                                                                                                                                                                                                                                                                                                              |                      |        |         |         |         |         |            |            |            |            |
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|        | ketoacyl-CoA reductase) (KAR) (Estradiol 17-beta-dehydrogenase 12) (EC 1.1.1.62) (KIK-I)                                                                                                                                                                                                                                                     |                      |        |         |         |         |         |            |            |            |            |
| Q8VBV7 | COP9 signalosome complex subunit 8 (SGN8) (Signalosome subunit 8) (COP9 homolog) (JAB1-containing signalosome subunit 8)                                                                                                                                                                                                                     | Cops8 Csn8           | 108679 | 0.89871 | 0.47018 | 0.32773 | 0.62925 | 20.0707925 | 20.0906275 | 20.1935075 | 20.0702475 |
| Q3UUI3 | Acyl-coenzyme A thioesterase THEM4 (Acyl-CoA thioesterase THEM4) (EC 3.1.2.2) (Carboxyl-terminal modulator protein) (Thioesterase superfamily member 4)                                                                                                                                                                                      | Them4 Ctmp           | 75778  | 0.89665 | 0.47112 | 0.32687 | 0.62995 | 19.287905  | 19.278205  | 19.4423475 | 19.0794875 |
| P62331 | ADP-ribosylation factor 6                                                                                                                                                                                                                                                                                                                    | Arf6                 | 11845  | 0.89516 | 0.4718  | 0.32624 | 0.63031 | 20.7431375 | 20.715045  | 20.80137   | 20.6599375 |
| P30275 | Creatine kinase U-type, mitochondrial (EC 2.7.3.2) (Acidic-type mitochondrial creatine kinase) (Mia-CK) (Ubiquitous mitochondrial creatine kinase) (U-MiCK)                                                                                                                                                                                  | Ckmt1                | 12716  | 0.89423 | 0.47223 | 0.32585 | 0.63033 | 25.2808175 | 25.3857475 | 25.3690225 | 25.3876    |
| P62897 | Cytochrome c, somatic                                                                                                                                                                                                                                                                                                                        | Cycc                 | 13063  | 0.89224 | 0.47314 | 0.32501 | 0.63099 | 24.617115  | 24.6607475 | 24.75307   | 24.6779925 |
| O35658 | Complement component 1 Q subcomponent-binding protein, mitochondrial (GC1q-R protein) (Glycoprotein GC1qBP) (C1qBP)                                                                                                                                                                                                                          | C1qbp Gc1qbp         |        | 0.88913 | 0.47457 | 0.3237  | 0.63124 | 21.46639   | 21.6173575 | 21.60711   | 21.6309625 |
| Q60597 | 2-oxoglutarate dehydrogenase, mitochondrial (EC 1.2.4.2) (2-oxoglutarate dehydrogenase complex component E1) (OGDC-E1) (Alpha-ketoglutarate dehydrogenase)                                                                                                                                                                                   | Ogdh Kiaa4192        | 18293  | 0.88919 | 0.47454 | 0.32372 | 0.63124 | 24.415805  | 24.3625975 | 24.4296625 | 24.4561175 |
| Q8CHP8 | Glycerol-3-phosphate phosphatase (G3PP) (EC 3.1.3.21) (Aspartate-based ubiquitous Mg(2+)-dependent phosphatase) (AUM) (EC 3.1.3.48) (Phosphoglycolate phosphatase) (PGP)                                                                                                                                                                     | Pgp                  | 67078  | 0.8905  | 0.47394 | 0.32427 | 0.63124 | 20.78084   | 20.62599   | 20.590885  | 20.7013575 |
| F8VPU2 | FERM, ARHGEF and pleckstrin domain-containing protein 1 (FERM, RhoGEF and pleckstrin domain-containing protein 1)                                                                                                                                                                                                                            | Farp1                | 223254 | 0.87918 | 0.47917 | 0.31951 | 0.63681 | 20.409545  | 20.67571   | 20.7605325 | 20.70523   |
| Q80TL0 | Protein phosphatase 1E (EC 3.1.3.16) (Ca(2+)/calmodulin-dependent protein kinase phosphatase N) (CaMKP-N) (CaMKP-nucleus) (CaMKN) (Partner of PIX 1) (Partner of PIX-alpha) (Partner of PIXA)                                                                                                                                                | Ppm1e Camkn Kiaa1072 | 320472 | 0.87225 | 0.48241 | 0.31659 | 0.64055 | 22.29107   | 22.090715  | 22.1593175 | 22.1524075 |
| Q920P5 | Adenylate kinase isoenzyme 5 (AK 5) (EC 2.7.4.3) (EC 2.7.4.6) (ATP-AMP transphosphorylase 5)                                                                                                                                                                                                                                                 | Ak5                  | 229949 | 0.86569 | 0.48548 | 0.31383 | 0.64408 | 20.9218875 | 21.00501   | 20.972655  | 20.7489775 |
| Q7TQD2 | Tubulin polymerization-promoting protein (TPPP) (EC 3.6.5.-) (25 kDa brain-specific protein) (TPPP/p25) (p25-alpha)                                                                                                                                                                                                                          | Tppp                 | 72948  | 0.86251 | 0.48698 | 0.31249 | 0.6455  | 24.54301   | 24.561755  | 24.5942225 | 24.5098425 |
| Q9ERS2 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13 (Cell death regulatory protein GRIM-19) (Complex I-B16.6) (CI-B16.6) (Gene associated with retinoic and interferon-induced mortality 19 protein) (GRIM-19) (Gene associated with retinoic and IFN-induced mortality 19 protein) (NADH-ubiquinone oxidoreductase B16.6 subunit) | Ndufa13 Grim19       | 67184  | 0.86123 | 0.48759 | 0.31195 | 0.64575 | 25.29036   | 25.23792   | 25.0251    | 25.2055125 |
| O35593 | 26S proteasome non-ATPase regulatory subunit 14 (EC 3.4.19.-) (26S proteasome regulatory subunit RPN11) (MAD1)                                                                                                                                                                                                                               | Psm14 Pad1           | 59029  | 0.86014 | 0.48811 | 0.31149 | 0.64587 | 20.12922   | 20.01873   | 20.205175  | 20.0413325 |
| Q9QYR9 | Acyl-coenzyme A thioesterase 2, mitochondrial (Acyl-CoA thioesterase 2) (EC 3.1.2.2) (Acyl coenzyme A thioester hydrolase) (MTE-I) (Very-long-chain acyl-CoA thioesterase)                                                                                                                                                                   | Acot2 Mte1           | 171210 | 0.85844 | 0.48891 | 0.31077 | 0.64637 | 19.98116   | 20.07738   | 19.94396   | 20.1782475 |
| Q8BHN3 | Neutral alpha-glucosidase AB (EC 3.2.1.207) (Alpha-glucosidase 2) (Glucosidase II subunit alpha)                                                                                                                                                                                                                                             | Ganab G2an Kiaa0088  | 14376  | 0.85651 | 0.48982 | 0.30996 | 0.64643 | 20.71484   | 20.7997975 | 20.5480025 | 20.60956   |
| Q9CS84 | Neurexin-1 (Neurexin I-alpha) (Neurexin-1-alpha)                                                                                                                                                                                                                                                                                             | Nrxn1 Kiaa0578       | 18189  | 0.85568 | 0.49022 | 0.30961 | 0.64643 | 20.470125  | 20.5262175 | 20.45249   | 20.449475  |
| Q9QZ88 | Vacuolar protein sorting-associated protein 29 (Vesicle protein sorting 29)                                                                                                                                                                                                                                                                  | Vps29                | 56433  | 0.85698 | 0.4896  | 0.31016 | 0.64643 | 20.93515   | 20.9400175 | 20.7898075 | 20.97199   |

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| P16330 | 2',3'-cyclic-nucleotide 3'-phosphodiesterase (CNP) (CNPase) (EC 3.1.4.37)                                                                                                                                                                                                                                                        | Cnp Cnp1          | 12799 | 0.85451 | 0.49078 | 0.30912 | 0.64661 | 27.6698675 | 27.6984825 | 27.47191   | 27.7269675 |
| Q9D4C9 | Clavesin-1 (Retinaldehyde-binding protein 1-like 1)                                                                                                                                                                                                                                                                              | Clvs1 Rlbp11      | 74438 | 0.85244 | 0.49176 | 0.30824 | 0.64735 | 21.535435  | 21.430875  | 21.4023875 | 21.4501225 |
| P70404 | Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial (Isocitric dehydrogenase subunit gamma) (NAD(+)-specific ICDH subunit gamma)                                                                                                                                                                                       | ldh3g             | 15929 | 0.84932 | 0.49325 | 0.30693 | 0.64847 | 23.76381   | 23.7704775 | 23.9008825 | 23.8071775 |
| Q9Z1L5 | Voltage-dependent calcium channel subunit alpha-2/delta-3 (Voltage-gated calcium channel subunit alpha-2/delta-3) [Cleaved into: Voltage-dependent calcium channel subunit alpha-2-3; Voltage-dependent calcium channel subunit delta-3]                                                                                         | Cacna2d3          | 12294 | 0.84888 | 0.49346 | 0.30674 | 0.64847 | 18.99839   | 19.118715  | 18.8642375 | 18.6454175 |
| Q99JX3 | Golgi reassembly-stacking protein 2 (GRS2) (Golgi reassembly-stacking protein of 55 kDa) (GRASP55)                                                                                                                                                                                                                               | Gorasp2           | 70231 | 0.84755 | 0.4941  | 0.30619 | 0.64874 | 18.96728   | 19.0597825 | 19.2268975 | 19.3143925 |
| Q9WUC3 | Lymphocyte antigen 6H (Ly-6H)                                                                                                                                                                                                                                                                                                    | Ly6h              | 23934 | 0.84562 | 0.49502 | 0.30537 | 0.64923 | 23.0901275 | 22.9992875 | 22.8126    | 22.79941   |
| Q9CQV8 | 14-3-3 protein beta/alpha (Protein kinase C inhibitor protein 1) (KCIP-1) [Cleaved into: 14-3-3 protein beta/alpha, N-terminally processed]                                                                                                                                                                                      | Ywhab             | 54401 | 0.84412 | 0.49575 | 0.30474 | 0.64923 | 25.53887   | 25.551235  | 25.4583275 | 25.467115  |
| Q9JII6 | Aldo-keto reductase family 1 member A1 (EC 1.1.1.2) (EC 1.1.1.33) (EC 1.1.1.372) (EC 1.1.1.54) (Alcohol dehydrogenase [NADP(+)] (Aldehyde reductase) (Glucuronate reductase) (EC 1.1.1.19) (Glucuronolactone reductase) (EC 1.1.1.20)                                                                                            | Akr1a1 Akr1a4     | 58810 | 0.84446 | 0.49558 | 0.30489 | 0.64923 | 23.070595  | 23.0705825 | 23.0286575 | 23.0207025 |
| Q60870 | Receptor expression-enhancing protein 5 (GP106) (Polyposis locus protein 1 homolog) (Protein TB2 homolog)                                                                                                                                                                                                                        | Reep5 Dp1         |       | 0.83906 | 0.49818 | 0.30261 | 0.6518  | 21.2712275 | 21.2310825 | 21.2457225 | 21.0503475 |
| Q9QXV0 | ProSAAS (IA-4) (Proprotein convertase subtilisin/kexin type 1 inhibitor) (Proprotein convertase 1 inhibitor) (pro-SAAS) [Cleaved into: KEP; Big SAAS (b-SAAS); Little SAAS (l-SAAS); Big PEN-LEN (b-PEN-LEN) (SAAS CT(1-49)); PEN; PEN-20; PEN-19; Little LEN (l-LEN); Big LEN (b-LEN) (SAAS CT(25-40))]                         | Pcsk1n            | 30052 | 0.83829 | 0.49856 | 0.30228 | 0.6518  | 21.25952   | 21.42205   | 21.1779025 | 21.2781725 |
| P84091 | AP-2 complex subunit mu (AP-2 mu chain) (Adaptor protein complex AP-2 subunit mu) (Adaptor-related protein complex 2 subunit mu) (Clathrin assembly protein complex 2 mu medium chain) (Clathrin coat assembly protein AP50) (Clathrin coat-associated protein AP50) (Mu2-adaptin) (Plasma membrane adaptor AP-2 50 kDa protein) | Ap2m1 Clapm1      | 11773 | 0.83599 | 0.49967 | 0.30132 | 0.65269 | 25.07013   | 25.049045  | 25.10687   | 25.0302975 |
| Q8CC35 | Synaptopodin                                                                                                                                                                                                                                                                                                                     | Synpo Kiaa1029    |       | 0.83126 | 0.50196 | 0.29933 | 0.65345 | 22.076565  | 22.1173675 | 22.14237   | 21.93406   |
| P61202 | COP9 signalosome complex subunit 2 (SGN2) (Signalosome subunit 2) (Alien homolog) (JAB1-containing signalosome subunit 2) (Thyroid receptor-interacting protein 15) (TR-interacting protein 15) (TRIP-15)                                                                                                                        | Cops2 Csn2 Trip15 | 12848 | 0.83373 | 0.50077 | 0.30037 | 0.65345 | 20.291085  | 20.23045   | 20.3392775 | 20.228275  |
| P12815 | Programmed cell death protein 6 (ALG-257) (Apoptosis-linked gene 2 protein) (ALG-2) (PMP41)                                                                                                                                                                                                                                      | Pdcd6 Alg2        | 18570 | 0.83174 | 0.50173 | 0.29953 | 0.65345 | 20.178425  | 20.516975  | 20.1498575 | 20.3884225 |
| P21107 | Tropomyosin alpha-3 chain (Gamma-tropomyosin) (Tropomyosin-3)                                                                                                                                                                                                                                                                    | Tpm3 Tpm-5 Tpm5   | 59069 | 0.83195 | 0.50163 | 0.29962 | 0.65345 | 24.576385  | 24.54646   | 24.45661   | 24.51452   |
| Q8BGH2 | Sorting and assembly machinery component 50 homolog                                                                                                                                                                                                                                                                              | Samm50            | 68653 | 0.83017 | 0.5025  | 0.29887 | 0.65359 | 21.70678   | 21.6515525 | 21.7422575 | 21.68109   |
| Q9CZ13 | Cytochrome b-c1 complex subunit 1, mitochondrial (Complex III subunit 1) (Core protein I) (Ubiquinol-cytochrome-c reductase complex core protein 1)                                                                                                                                                                              | Uqcrc1            | 22273 | 0.8268  | 0.50414 | 0.29745 | 0.65517 | 25.43596   | 25.4699375 | 25.4447425 | 25.490875  |

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| P52503 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial (Complex I-13kD-A) (CI-13kD-A) (NADH-ubiquinone oxidoreductase 13 kDa-A subunit)                                                                                                                                                                                                                                               | Ndufs6 Ip13                | 407785 | 0.82385 | 0.50558 | 0.29621 | 0.65648 | 22.59902   | 22.6147475 | 22.4711475 | 22.331805  |
| P01027 | Complement C3 (HSE-MSF) [Cleaved into: Complement C3 beta chain; C3-beta-c (C3bc); Complement C3 alpha chain; C3a anaphylatoxin; Acylation stimulating protein (ASP) (C3adesArg); Complement C3b alpha' chain; Complement C3c alpha' chain fragment 1; Complement C3dg fragment; Complement C3g fragment; Complement C3d fragment; Complement C3f fragment; Complement C3c alpha' chain fragment 2] | C3                         | 12266  | 0.82141 | 0.50678 | 0.29518 | 0.65734 | 20.7128125 | 21.9178325 | 21.431605  | 21.451325  |
| Q8VDP4 | Cell cycle and apoptosis regulator protein 2 (Cell division cycle and apoptosis regulator protein 2)                                                                                                                                                                                                                                                                                                | Ccar2                      | 219158 | 0.82076 | 0.5071  | 0.29491 | 0.65734 | 19.0300975 | 19.4104675 | 19.1050875 | 19.091255  |
| P17156 | Heat shock-related 70 kDa protein 2 (Heat shock protein 70.2)                                                                                                                                                                                                                                                                                                                                       | Hspa2 Hcp70.2 Hsp70-2      | 15512  | 0.81554 | 0.50967 | 0.29271 | 0.65955 | 20.7021975 | 20.856935  | 20.6873725 | 20.8163775 |
| O70194 | Eukaryotic translation initiation factor 3 subunit D (eIF3d) (Eukaryotic translation initiation factor 3 subunit 7) (eIF-3-zeta) (eIF3 p66)                                                                                                                                                                                                                                                         | Eif3d Eif3s7               | 55944  | 0.81636 | 0.50927 | 0.29305 | 0.65955 | 19.925235  | 19.7947125 | 19.98742   | 19.9119    |
| Q3UMR5 | Calcium uniporter protein, mitochondrial                                                                                                                                                                                                                                                                                                                                                            | Mcu                        | 215999 | 0.81419 | 0.51034 | 0.29214 | 0.65985 | 20.960995  | 20.9795025 | 21.011465  | 20.889075  |
| P19536 | Cytochrome c oxidase subunit 5B, mitochondrial (Cytochrome c oxidase polypeptide Vb)                                                                                                                                                                                                                                                                                                                | Cox5b                      |        | 0.81111 | 0.51187 | 0.29084 | 0.66057 | 23.61334   | 23.559585  | 23.5451675 | 23.4957375 |
| P10922 | Histone H1.0 (Histone H1') (Histone H1(0)) (MyD196) [Cleaved into: Histone H1.0, N-terminally processed]                                                                                                                                                                                                                                                                                            | H1-0 H1f0 H1fv             | 14958  | 0.80965 | 0.51259 | 0.29023 | 0.66057 | 23.2886    | 23.2673825 | 23.078135  | 23.1452675 |
| Q9WUK2 | Eukaryotic translation initiation factor 4H (eIF-4H) (Williams-Beuren syndrome chromosomal region 1 protein homolog)                                                                                                                                                                                                                                                                                | Eif4h Wbscr1               | 22384  | 0.80959 | 0.51262 | 0.2902  | 0.66057 | 21.5700825 | 21.4538425 | 21.376825  | 21.266345  |
| Q8VE47 | Ubiquitin-like modifier-activating enzyme 5 (Ubiquitin-activating enzyme 5) (UFM1-activating enzyme) (Ubiquitin-activating enzyme E1 domain-containing protein 1)                                                                                                                                                                                                                                   | Uba5 Ube1dc1               | 66663  | 0.81087 | 0.51198 | 0.29075 | 0.66057 | 19.7134775 | 19.8598825 | 20.0322475 | 19.61003   |
| P21619 | Lamin-B2                                                                                                                                                                                                                                                                                                                                                                                            | Lmnb2                      | 16907  | 0.80663 | 0.51409 | 0.28896 | 0.6619  | 19.5919425 | 19.6874275 | 19.5478025 | 19.7533975 |
| Q7TMK9 | Heterogeneous nuclear ribonucleoprotein Q (hnRNP Q) (Glycine- and tyrosine-rich RNA-binding protein) (GRY-RBP) (NS1-associated protein 1) (Synaptotagmin-binding, cytoplasmic RNA-interacting protein) (pp68)                                                                                                                                                                                       | Syncrip Hnrpq Nsap1 Nsap1l | 56403  | 0.80571 | 0.51455 | 0.28857 | 0.66193 | 21.765525  | 21.7556525 | 21.8475225 | 21.845035  |
| Q35136 | Neural cell adhesion molecule 2 (N-CAM-2) (NCAM-2) (Neural cell adhesion molecule RB-8) (R4B12)                                                                                                                                                                                                                                                                                                     | Ncam2 Ocam Rncam           | 17968  | 0.80482 | 0.515   | 0.2882  | 0.66195 | 21.26985   | 21.39821   | 21.4888225 | 21.3324275 |
| Q9CPR4 | 60S ribosomal protein L17                                                                                                                                                                                                                                                                                                                                                                           | Rpl17                      |        | 0.79876 | 0.51803 | 0.28565 | 0.66529 | 18.2162175 | 18.531745  | 18.83735   | 19.4844425 |
| Q61425 | Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial (HCDH) (EC 1.1.1.35) (Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase) (Short-chain 3-hydroxyacyl-CoA dehydrogenase)                                                                                                                                                                                                            | Hadh Hadhsc Mschad Schad   | 15107  | 0.79282 | 0.52101 | 0.28315 | 0.66856 | 20.023185  | 20.2352525 | 20.0902975 | 20.2764375 |
| P36916 | Guanine nucleotide-binding protein-like 1 (GTP-binding protein MMR1)                                                                                                                                                                                                                                                                                                                                | Gnl1 Gna-rs1 Mmr1          | 14670  | 0.78748 | 0.52371 | 0.28091 | 0.67146 | 19.6087975 | 19.5139575 | 19.5823325 | 19.5776775 |
| Q91ZX7 | Prolow-density lipoprotein receptor-related protein 1 (LRP-1) (Alpha-2-macroglobulin receptor) (A2MR) (CD antigen CD91) [Cleaved into: Low-density lipoprotein receptor-related protein 1 85 kDa subunit (LRP-85); Low-density lipoprotein receptor-related protein 1 515 kDa subunit (LRP-515); Low-density lipoprotein receptor-related protein 1 intracellular domain (LRPICD)]                  | Lrp1 A2mr                  | 16971  | 0.77504 | 0.53006 | 0.27568 | 0.67732 | 21.0185575 | 21.008395  | 21.02482   | 21.159785  |

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| P60202 | Myelin proteolipid protein (PLP) (Lipophilin)                                                                                                                                                                                                                                                                    | Plp1 Plp                   | 18823  | 0.7754  | 0.52988 | 0.27583 | 0.67732 | 28.4524675 | 28.4309975 | 28.3175475 | 28.601095  |
| Q60932 | Voltage-dependent anion-selective channel protein 1 (VDAC-1) (mVDAC1) (Outer mitochondrial membrane protein porin 1) (Plasmalemmal porin) (Voltage-dependent anion-selective channel protein 5) (VDAC-5) (mVDAC5)                                                                                                | Vdac1 Vdac5                | 22333  | 0.77643 | 0.52935 | 0.27626 | 0.67732 | 26.85251   | 26.9146    | 26.8753425 | 26.848635  |
| Q91V24 | ATP-binding cassette sub-family A member 7                                                                                                                                                                                                                                                                       | Abca7                      | 27403  | 0.77656 | 0.52928 | 0.27631 | 0.67732 | 19.5712125 | 19.319035  | 19.1812275 | 19.1353525 |
| Q9CZ42 | ATP-dependent (S)-NAD(P)H-hydrate dehydratase (EC 4.2.1.93) (ATP-dependent NAD(P)HX dehydratase) (Carbohydrate kinase domain-containing protein) (NAD(P)HX dehydratase)                                                                                                                                          | Naxd Carkd                 | 69225  | 0.77248 | 0.53138 | 0.2746  | 0.67844 | 20.9011225 | 20.92118   | 21.03276   | 20.9381575 |
| P14873 | Microtubule-associated protein 1B (MAP-1B) (MAP1(X)) (MAP1.2) [Cleaved into: MAP1B heavy chain; MAP1 light chain LC1]                                                                                                                                                                                            | Map1b Mtap1b Mtap5         | 17755  | 0.76987 | 0.53272 | 0.2735  | 0.67921 | 25.3634625 | 25.3597675 | 25.38659   | 25.4035325 |
| Q9DBE8 | Alpha-1,3/1,6-mannosyltransferase ALG2 (EC 2.4.1.132) (EC 2.4.1.257) (Asparagine-linked glycosylation protein 2 homolog) (GDP-Man:Man(1)GlcNAc(2)-PP-Dol alpha-1,3-mannosyltransferase) (GDP-Man:Man(1)GlcNAc(2)-PP-dolichol mannosyltransferase) (GDP-Man:Man(2)GlcNAc(2)-PP-Dol alpha-1,6-mannosyltransferase) | Alg2 MNCb-5081             | 56737  | 0.76957 | 0.53287 | 0.27338 | 0.67921 | 19.6448075 | 19.8226275 | 19.6869725 | 19.7290275 |
| Q9CR61 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7 (Complex I-B18) (CI-B18) (NADH-ubiquinone oxidoreductase B18 subunit)                                                                                                                                                                                | Ndufb7                     | 66916  | 0.76753 | 0.53392 | 0.27252 | 0.67999 | 21.318685  | 21.18548   | 21.2393075 | 21.2215875 |
| Q91VR8 | Protein BRICK1 (BRK1)                                                                                                                                                                                                                                                                                            | Brk1                       | 101314 | 0.76661 | 0.5344  | 0.27213 | 0.68002 | 20.5394925 | 20.75746   | 20.550185  | 20.7659375 |
| O08585 | Clathrin light chain A (Lca)                                                                                                                                                                                                                                                                                     | CltA                       |        | 0.76453 | 0.53548 | 0.27126 | 0.68083 | 23.831085  | 23.71901   | 23.616785  | 23.6695625 |
| Q9D2G2 | Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial (EC 2.3.1.61) (2-oxoglutarate dehydrogenase complex component E2) (OGDC-E2) (Dihydrolipoamide succinyltransferase component of 2-oxoglutarate dehydrogenase complex) (E2K)                      | Dlst                       | 78920  | 0.76344 | 0.53604 | 0.2708  | 0.68098 | 23.4030325 | 23.3159725 | 23.407065  | 23.3253125 |
| P42669 | Transcriptional activator protein Pur-alpha (Purine-rich single-stranded DNA-binding protein alpha)                                                                                                                                                                                                              | Pura                       | 19290  | 0.76047 | 0.53758 | 0.26955 | 0.68185 | 24.322375  | 24.3121125 | 24.3707725 | 24.3070475 |
| O88342 | WD repeat-containing protein 1 (Actin-interacting protein 1) (AIP1)                                                                                                                                                                                                                                              | Wdr1                       | 22388  | 0.76041 | 0.53762 | 0.26953 | 0.68185 | 24.2806775 | 24.3365675 | 24.26482   | 24.3164325 |
| Q99KJ8 | Dynactin subunit 2 (50 kDa dynein-associated polypeptide) (Dynactin complex 50 kDa subunit) (DCTN-50) (Growth cone membrane protein 23-48K) (GMP23-48K) (p50 dynamitin)                                                                                                                                          | Dctn2                      | 69654  | 0.75954 | 0.53807 | 0.26916 | 0.68185 | 22.3052975 | 22.3511375 | 22.394365  | 22.3538525 |
| P20917 | Myelin-associated glycoprotein (Siglec-4a)                                                                                                                                                                                                                                                                       | Mag                        | 17136  | 0.7577  | 0.53903 | 0.26839 | 0.68221 | 23.2576925 | 23.3152375 | 23.1980925 | 23.469125  |
| P52480 | Pyruvate kinase PKM (EC 2.7.1.40) (Pyruvate kinase muscle isozyme)                                                                                                                                                                                                                                               | Pkm Pk3 Pkm2 Pykm          | 18746  | 0.75425 | 0.54083 | 0.26694 | 0.68221 | 27.85154   | 27.870845  | 27.8714575 | 27.8021225 |
| P49722 | Proteasome subunit alpha type-2 (EC 3.4.25.1) (Macropain subunit C3) (Multicatalytic endopeptidase complex subunit C3) (Proteasome component C3)                                                                                                                                                                 | Psma2 Lmpc3                | 19166  | 0.75386 | 0.54103 | 0.26678 | 0.68221 | 21.20356   | 21.3443325 | 21.3506825 | 21.4137375 |
| Q8C1B7 | Septin-11                                                                                                                                                                                                                                                                                                        | Septin11 D5ErtD606e Sept11 | 52398  | 0.7556  | 0.54012 | 0.26751 | 0.68221 | 24.24903   | 24.2989475 | 24.3679575 | 24.3269825 |
| Q9CR21 | Acyl carrier protein, mitochondrial (ACP) (CI-SDAP) (NADH-ubiquinone oxidoreductase 9.6 kDa subunit)                                                                                                                                                                                                             | Ndufab1                    | 70316  | 0.75476 | 0.54056 | 0.26716 | 0.68221 | 23.305945  | 23.2338775 | 23.3230175 | 23.2536075 |

|        |                                                                                                                                                                                                                                                                            |                          |           |         |         |         |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|---------|---------|---------|---------|------------|------------|------------|------------|
| O35841 | Apoptosis inhibitor 5 (API-5) (AAC-11)                                                                                                                                                                                                                                     | Api5                     | 11800     | 0.75432 | 0.54079 | 0.26697 | 0.68221 | 18.6360325 | 17.98584   | 18.742875  | 18.17836   |
| P10852 | 4F2 cell-surface antigen heavy chain (4F2hc) (Solute carrier family 3 member 2) (CD antigen CD98)                                                                                                                                                                          | Slc3a2 Mdu1              | 17254     | 0.74478 | 0.5458  | 0.26297 | 0.68552 | 24.167005  | 24.12052   | 24.18389   | 24.1919075 |
| Q9D1E6 | Tubulin-folding cofactor B (Cytoskeleton-associated protein 1) (Cytoskeleton-associated protein CKAP1) (Tubulin-specific chaperone B)                                                                                                                                      | Tbcb Ckap1               | 66411     | 0.74604 | 0.54514 | 0.26349 | 0.68552 | 23.25023   | 23.0851525 | 22.98152   | 23.1278825 |
| B9EJ80 | PDZ domain-containing protein 8                                                                                                                                                                                                                                            | Pdzd8                    | 107368    | 0.74632 | 0.54499 | 0.26361 | 0.68552 | 20.6627175 | 20.6226925 | 20.4314025 | 20.5546975 |
| Q6P1B1 | Xaa-Pro aminopeptidase 1 (EC 3.4.11.9) (Aminoacylproline aminopeptidase) (Cytosolic aminopeptidase P) (Soluble aminopeptidase P) (sAmp) (X-Pro aminopeptidase 1) (X-prolyl aminopeptidase 1, soluble)                                                                      | Xpnpep1                  | 170750    | 0.74459 | 0.5459  | 0.26288 | 0.68552 | 20.416635  | 20.4036625 | 20.217575  | 20.385305  |
| Q9CZD3 | Glycine--tRNA ligase (EC 6.1.1.14) (Diadenosine tetraphosphate synthetase) (Ap4A synthetase) (EC 2.7.7.-) (Glycyl-tRNA synthetase 1) (GlyRS)                                                                                                                               | Gars1 Gars               | 353172    | 0.74702 | 0.54462 | 0.26391 | 0.68552 | 20.4634425 | 20.28068   | 20.305855  | 20.382945  |
| Q66JS6 | Eukaryotic translation initiation factor 3 subunit J-B (eIF3j-B) (Eukaryotic translation initiation factor 3 subunit 1-B) (eIF-3-alpha-B) (eIF3 p35)                                                                                                                       | Eif3j2 Eif3s1-2 Gm9781   | 100042807 | 0.74235 | 0.54708 | 0.26195 | 0.68644 | 19.266985  | 19.16143   | 19.1034725 | 19.27629   |
| Q3THK7 | GMP synthase [glutamine-hydrolyzing] (EC 6.3.5.2) (GMP synthetase) (Glutamine amidotransferase)                                                                                                                                                                            | Gmps                     | 229363    | 0.74108 | 0.54776 | 0.26141 | 0.68672 | 21.4628025 | 21.4778075 | 21.555705  | 21.4401825 |
| Q8BGD9 | Eukaryotic translation initiation factor 4B (eIF-4B)                                                                                                                                                                                                                       | Eif4b                    | 75705     | 0.73754 | 0.54963 | 0.25993 | 0.6885  | 20.2409225 | 20.2355975 | 20.153575  | 20.0358475 |
| Q7TSJ2 | Microtubule-associated protein 6 (MAP-6) (Stable tubule-only polypeptide) (STOP)                                                                                                                                                                                           | Map6 Mtap6               | 17760     | 0.73632 | 0.55028 | 0.25942 | 0.68875 | 24.8553125 | 24.7756425 | 24.7492225 | 24.8040775 |
| P12382 | ATP-dependent 6-phosphofructokinase, liver type (ATP-PFK) (PFK-L) (EC 2.7.1.11) (6-phosphofructokinase type B) (Phosphofructo-1-kinase isozyme B) (PFK-B) (Phosphohexokinase)                                                                                              | Pfkl Pfk-l PfkB          | 18641     | 0.73057 | 0.55335 | 0.257   | 0.69202 | 23.1284875 | 23.13863   | 23.23885   | 23.1373225 |
| P49442 | Inositol polyphosphate 1-phosphatase (IPP) (IPPase) (EC 3.1.3.57)                                                                                                                                                                                                          | Inpp1                    | 16329     | 0.72144 | 0.55824 | 0.25318 | 0.69719 | 20.4097275 | 20.374955  | 20.44498   | 20.2701175 |
| Q80Y14 | Glutaredoxin-related protein 5, mitochondrial (Monothiol glutaredoxin-5)                                                                                                                                                                                                   | Glx5                     | 73046     | 0.72116 | 0.55839 | 0.25306 | 0.69719 | 18.86536   | 18.5620025 | 18.9368025 | 18.3818025 |
| Q9WTX5 | S-phase kinase-associated protein 1 (Cyclin-A/CDK2-associated protein p19) (S-phase kinase-associated protein 1A) (p19A) (p19skp1)                                                                                                                                         | Skp1 Skp1a               | 21402     | 0.72004 | 0.559   | 0.25259 | 0.69735 | 21.938655  | 21.7906525 | 21.9111075 | 21.7670025 |
| Q9CXV1 | Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial (CybS) (CII-4) (QPs3) (Succinate dehydrogenase complex subunit D) (Succinate-ubiquinone oxidoreductase cytochrome b small subunit) (Succinate-ubiquinone reductase membrane anchor subunit) | Sdhb                     | 66925     | 0.71917 | 0.55946 | 0.25223 | 0.69735 | 20.642305  | 20.50047   | 20.526955  | 20.6061425 |
| Q8BFZ9 | Erlin-2 (Endoplasmic reticulum lipid raft-associated protein 2) (Stomatin-prohibitin-flotillin-HflC/K domain-containing protein 2) (SPFH domain-containing protein 2)                                                                                                      | Erlin2 Spfh2             | 244373    | 0.71838 | 0.55989 | 0.2519  | 0.69735 | 19.642225  | 19.63269   | 19.449725  | 19.6341875 |
| Q91XL9 | Oxysterol-binding protein-related protein 1 (ORP-1) (OSBP-related protein 1)                                                                                                                                                                                               | Osbpl1a Orp1 Orp1a Orp1l | 64291     | 0.71395 | 0.56229 | 0.25004 | 0.69977 | 19.13755   | 19.2840525 | 19.5013175 | 19.3288675 |
| Q9JLB0 | MAGUK p55 subfamily member 6 (Dlgh4 protein) (P55T protein) (Protein associated with Lin-7 2)                                                                                                                                                                              | Mpp6 Dlgh4 Pals2         | 56524     | 0.71241 | 0.56312 | 0.2494  | 0.70024 | 21.1785575 | 21.2320575 | 21.29496   | 21.2199275 |
| Q9DCT2 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (Complex I-30kD) (CI-30kD) (NADH-ubiquinone oxidoreductase 30 kDa subunit)                                                                                                 | Ndufs3                   | 68349     | 0.70878 | 0.5651  | 0.24788 | 0.70212 | 24.2268525 | 24.3384075 | 24.2935425 | 24.2808725 |
| P18572 | Basigin (Basic immunoglobulin superfamily) (HT7 antigen) (Membrane glycoprotein gp42) (CD antigen CD147)                                                                                                                                                                   | Bsg                      | 12215     | 0.70737 | 0.56587 | 0.24729 | 0.7025  | 22.3592375 | 22.4148375 | 22.371375  | 22.4966575 |

|        |                                                                                                                                     |                        |                 |         |         |         |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|---------|---------|---------|---------|------------|------------|------------|------------|
| Q9D880 | Mitochondrial import inner membrane translocase subunit TIM50                                                                       | Timm50 Tim50           | 66525           | 0.7012  | 0.56924 | 0.2447  | 0.70555 | 20.66196   | 20.63077   | 20.5369075 | 20.5610075 |
| Q9CR62 | Mitochondrial 2-oxoglutarate/malate carrier protein (OGCP) (Solute carrier family 25 member 11)                                     | Slc25a11               | 67863           | 0.70146 | 0.5691  | 0.24481 | 0.70555 | 23.8291925 | 23.8500675 | 23.844225  | 23.76464   |
| Q9CQ60 | 6-phosphogluconolactonase (6PGL) (EC 3.1.1.31)                                                                                      | Pgls                   | 66171           | 0.69761 | 0.57121 | 0.2432  | 0.70742 | 20.1747775 | 20.2192575 | 20.3019525 | 20.2441725 |
| Q9CZU6 | Citrate synthase, mitochondrial (EC 2.3.3.1) (Citrate (Si)-synthase)                                                                | Cs                     | 12974           | 0.69557 | 0.57234 | 0.24235 | 0.70766 | 25.5527325 | 25.5760325 | 25.4953825 | 25.5740575 |
| Q80YN3 | Breast carcinoma-amplified sequence 1 homolog (Novel amplified in breast cancer 1 homolog)                                          | Bcas1 Nabc1            | 76960           | 0.696   | 0.5721  | 0.24253 | 0.70766 | 22.191195  | 21.96203   | 21.9554475 | 22.1293375 |
| Q9QY76 | Vesicle-associated membrane protein-associated protein B (VAMP-B) (VAMP-associated protein B) (VAP-B) (VAMP-associated protein 33b) | Vapb                   |                 | 0.69277 | 0.57389 | 0.24117 | 0.70873 | 21.277605  | 21.158195  | 21.1582025 | 21.191315  |
| Q8BGQ7 | Alanine--tRNA ligase, cytoplasmic (EC 6.1.1.7) (Alanyl-tRNA synthetase) (AlaRS) (Protein sticky) (Sti)                              | Aars1 Aars             | 234734          | 0.69232 | 0.57413 | 0.24099 | 0.70873 | 22.11305   | 22.082515  | 22.0922575 | 22.144085  |
| P32848 | Parvalbumin alpha                                                                                                                   | Pvalb Pva              | 19293           | 0.69145 | 0.57462 | 0.24062 | 0.70875 | 21.323275  | 21.1044825 | 21.1812625 | 21.119595  |
| Q71M36 | Chondroitin sulfate proteoglycan 5 (Acidic leucine-rich EGF-like domain-containing brain protein) (Neuroglycan C)                   | Cspg5 Caleb Ngc        | 29873           | 0.69061 | 0.57508 | 0.24027 | 0.70875 | 20.8824725 | 20.943275  | 20.8941825 | 21.0053175 |
| P05132 | cAMP-dependent protein kinase catalytic subunit alpha (PKA C-alpha) (EC 2.7.11.11)                                                  | Prkaca Pkaca           | 18747           | 0.68834 | 0.57634 | 0.23932 | 0.70924 | 20.075565  | 20.233725  | 20.12783   | 20.104495  |
| Q8BVQ5 | Protein phosphatase methylesterase 1 (PME-1) (EC 3.1.1.89)                                                                          | Ppme1 Pme1             | 72590           | 0.68822 | 0.5764  | 0.23928 | 0.70924 | 21.3399025 | 21.2321325 | 21.26733   | 21.307135  |
| Q9JLV5 | Cullin-3 (CUL-3)                                                                                                                    | Cul3                   | 26554           | 0.68679 | 0.5772  | 0.23867 | 0.70965 | 19.9961075 | 20.0327825 | 20.0899775 | 19.959425  |
| Q61035 | Histidine--tRNA ligase, cytoplasmic (EC 6.1.1.21) (Histidyl-tRNA synthetase) (HisRS)                                                | Hars1 Hars             | 15115           | 0.68578 | 0.57776 | 0.23826 | 0.70976 | 21.4743625 | 21.3302625 | 21.431795  | 21.43075   |
| Q8CGP0 | Histone H2B type 3-B                                                                                                                | Hist3h2bb Hist3h2bb-ps |                 | 0.68075 | 0.58056 | 0.23615 | 0.71041 | 26.48722   | 26.49495   | 26.4250725 | 26.4000525 |
| Q61990 | Poly(rC)-binding protein 2 (Alpha-CP2) (CTBP) (CBP) (Putative heterogeneous nuclear ribonucleoprotein X) (hnRNP X)                  | Pcbp2 Cbp HnrnpX Hnrpx | 18521           | 0.67955 | 0.58123 | 0.23565 | 0.71041 | 21.495175  | 21.5535975 | 21.4205325 | 21.5348925 |
| P28661 | Septin-4 (Brain protein H5) (Peanut-like protein 2)                                                                                 | Septin4 Pnutl2 Sept4   | 18952           | 0.68159 | 0.58009 | 0.2365  | 0.71041 | 20.4121475 | 20.28471   | 20.2532625 | 20.5052925 |
| Q99K48 | Non-POU domain-containing octamer-binding protein (NonO protein)                                                                    | Nono                   | 53610           | 0.68174 | 0.58001 | 0.23657 | 0.71041 | 20.8048375 | 20.82713   | 20.9695775 | 20.898745  |
| Q80TL4 | PHD finger protein 24                                                                                                               | Phf24 Kiaa1045 N28178  | 230085          | 0.67979 | 0.58109 | 0.23575 | 0.71041 | 22.6817675 | 22.8243325 | 22.7329625 | 22.7083175 |
| Q8R0A7 | Uncharacterized protein KIAA0513                                                                                                    | Kiaa0513               | 234797          | 0.679   | 0.58154 | 0.23542 | 0.71041 | 21.5991825 | 21.6208475 | 21.56736   | 21.6962625 |
| Q6ZWU9 | 40S ribosomal protein S27                                                                                                           | Rps27                  | 100043813 57294 | 0.67977 | 0.58111 | 0.23575 | 0.71041 | 20.42515   | 20.239925  | 20.403305  | 20.4191225 |
| Q6ZWY8 | Thymosin beta-10                                                                                                                    | Tmsb10 Ptmb10          | 19240           | 0.6772  | 0.58255 | 0.23467 | 0.71107 | 23.728995  | 23.5687375 | 23.3559775 | 23.0224425 |
| P26350 | Prothymosin alpha [Cleaved into: Prothymosin alpha, N-terminally processed; Thymosin alpha]                                         | Ptma                   | 19231           | 0.67301 | 0.58489 | 0.23292 | 0.71337 | 21.0789725 | 21.01063   | 20.7509575 | 20.7015025 |
| P60710 | Actin, cytoplasmic 1 (Beta-actin) [Cleaved into: Actin, cytoplasmic 1, N-terminally processed]                                      | Actb                   | 11461           | 0.66667 | 0.58847 | 0.23027 | 0.71374 | 30.03173   | 30.0090725 | 30.0090725 | 30.03173   |
| Q9R1V6 | Disintegrin and metalloproteinase domain-containing protein 22 (ADAM 22)                                                            | Adam22                 | 11496           | 0.67005 | 0.58656 | 0.23168 | 0.71374 | 21.8797325 | 21.8598325 | 21.938785  | 21.8562825 |
| Q7TMM9 | Tubulin beta-2A chain                                                                                                               | Tubb2a Tubb2           | 22151           | 0.66667 | 0.58847 | 0.23027 | 0.71374 | 29.9411    | 29.9637575 | 29.9637575 | 29.9411    |
| P99029 | Peroxisomal oxidin-5, mitochondrial (EC 1.11.1.15) (Antioxidant enzyme B166) (AOEB166) (Liver tissue 2D-page spot 2D-0014IV) (PLP)  | Prdx5 Prdx6            | 54683           | 0.67019 | 0.58648 | 0.23174 | 0.71374 | 25.61107   | 25.6362975 | 25.552865  | 25.575305  |

|        |                                                                                                                                                                                                                       |                       |        |         |         |         |         |            |             |             |            |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|---------|---------|---------|---------|------------|-------------|-------------|------------|
|        | (Peroxiredoxin V) (Prx-V) (Peroxisomal antioxidant enzyme) (Thioredoxin peroxidase PMP20)                                                                                                                             |                       |        |         |         |         |         |            |             |             |            |
| P62267 | 40S ribosomal protein S23                                                                                                                                                                                             | Rps23                 | 66475  | 0.66817 | 0.58762 | 0.2309  | 0.71374 | 20.5751225 | 20.47477    | 20.6002275  | 20.6104425 |
| Q9DCJ5 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8 (Complex I-19kD) (CI-19kD) (Complex I-PGIV) (CI-PGIV) (NADH-ubiquinone oxidoreductase 19 kDa subunit)                                                    | Ndufa8                | 68375  | 0.6674  | 0.58806 | 0.23058 | 0.71374 | 23.2056425 | 23.3632925  | 23.28728    | 23.31848   |
| P47941 | Crk-like protein                                                                                                                                                                                                      | Crkl Crkol            | 12929  | 0.66918 | 0.58705 | 0.23132 | 0.71374 | 19.0736125 | 18.9858775  | 19.2458     | 19.058085  |
| P33173 | Kinesin-like protein KIF1A (Axonal transporter of synaptic vesicles)                                                                                                                                                  | Kif1a Atsv Kif1       |        | 0.66401 | 0.58998 | 0.22917 | 0.71386 | 19.3280675 | 19.310215   | 19.4477225  | 19.30712   |
| Q8K2C9 | Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3 (EC 4.2.1.134) (3-hydroxyacyl-CoA dehydratase 3) (HACD3) (Butyrate-induced protein 1) (B-ind1) (Protein-tyrosine phosphatase-like A domain-containing protein 1) | Hacd3 Ptplad1         | 57874  | 0.66476 | 0.58955 | 0.22948 | 0.71386 | 20.8048975 | 20.9330575  | 20.8566775  | 21.2158425 |
| P19246 | Neurofilament heavy polypeptide (NF-H) (200 kDa neurofilament protein) (Neurofilament triplet H protein)                                                                                                              | Nefh Kiaa0845 Nfh     | 380684 | 0.66422 | 0.58986 | 0.22925 | 0.71386 | 22.4989025 | 22.52425    | 22.41436    | 22.70613   |
| Q0VF58 | Collagen alpha-1(XI) chain (Collagen alpha-1(Y) chain)                                                                                                                                                                | Col19a1               | 12823  | 0.66169 | 0.59129 | 0.2282  | 0.71488 | 21.046835  | 20.9760725  | 21.1355375  | 20.85078   |
| Q6ZQF0 | DNA topoisomerase 2-binding protein 1 (DNA topoisomerase II-beta-binding protein 1) (TopBP1) (DNA topoisomerase II-binding protein 1)                                                                                 | Topbp1 Kiaa0259       | 235559 | 0.65685 | 0.59404 | 0.22618 | 0.71764 | 20.4057    | 20.3096225  | 20.1767     | 20.16099   |
| Q91V41 | Ras-related protein Rab-14                                                                                                                                                                                            | Rab14                 | 68365  | 0.65592 | 0.59457 | 0.2258  | 0.71772 | 25.4289625 | 25.3726725  | 25.3452325  | 25.3993875 |
| Q60930 | Voltage-dependent anion-selective channel protein 2 (VDAC-2) (mVDAC2) (Outer mitochondrial membrane protein porin 2) (Voltage-dependent anion-selective channel protein 6) (VDAC-6) (mVDAC6)                          | Vdac2 Vdac6           | 22334  | 0.65287 | 0.59632 | 0.22452 | 0.71869 | 26.0212825 | 26.08176    | 25.9919375  | 26.04852   |
| Q9D6J6 | NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (NADH-ubiquinone oxidoreductase 24 kDa subunit)                                                                              | Ndufv2                | 72900  | 0.65363 | 0.59588 | 0.22484 | 0.71869 | 23.3062825 | 23.34294    | 23.4153225  | 23.318145  |
| O54991 | Contactin-associated protein 1 (Caspr) (Caspr1) (MHDNIV) (NCP1) (Neurexin IV) (Neurexin-4) (Paranodin)                                                                                                                | Cntnap1 Nrnx4         | 53321  | 0.64433 | 0.60121 | 0.22097 | 0.72402 | 21.4543975 | 21.3338825  | 21.367095   | 21.3295575 |
| P47753 | F-actin-capping protein subunit alpha-1 (CapZ alpha-1)                                                                                                                                                                | Capza1 Cappa1         | 0      | 0.64288 | 0.60205 | 0.22037 | 0.72446 | 18.77487   | 18.6916125  | 18.9875775  | 19.05171   |
| P14094 | Sodium/potassium-transporting ATPase subunit beta-1 (Sodium/potassium-dependent ATPase subunit beta-1)                                                                                                                | Atp1b1 Atp4b          | 11931  | 0.64099 | 0.60314 | 0.21958 | 0.7252  | 27.3741825 | 27.3218375  | 27.3109975  | 27.2961125 |
| Q6PDI5 | Proteasome adapter and scaffold protein ECM29 (Proteasome-associated protein ECM29 homolog)                                                                                                                           | Ecpas Ecm29 Kiaa0368  | 230249 | 0.63873 | 0.60445 | 0.21864 | 0.7262  | 14.125367  | 14.86012725 | 17.57586625 | 18.07891   |
| P84104 | Serine/arginine-rich splicing factor 3 (Pre-mRNA-splicing factor SRP20) (Protein X16) (Splicing factor, arginine/serine-rich 3)                                                                                       | Srsf3 Sfrs3 Srp20 X16 | 20383  | 0.63731 | 0.60527 | 0.21805 | 0.72661 | 21.09957   | 21.009715   | 21.0467625  | 21.04249   |
| Q62393 | Tumor protein D52 (mD52)                                                                                                                                                                                              | Tpd52                 | 21985  | 0.63598 | 0.60604 | 0.2175  | 0.72697 | 20.5481775 | 20.56424    | 20.5155975  | 20.3673825 |
| B9EKR1 | Receptor-type tyrosine-protein phosphatase zeta (R-PTP-zeta) (EC 3.1.3.48)                                                                                                                                            | Ptprz1                | 19283  | 0.63373 | 0.60735 | 0.21656 | 0.72796 | 23.7436725 | 23.6264925  | 23.6456425  | 23.7143175 |
| Q9ES97 | Reticulon-3                                                                                                                                                                                                           | Rtn3                  | 20168  | 0.632   | 0.60835 | 0.21584 | 0.72859 | 24.1338625 | 24.003185   | 24.036475   | 23.98825   |
| Q9CXW3 | Calcyclin-binding protein (CacyBP) (Siah-interacting protein)                                                                                                                                                         | Cacybp Sip            | 12301  | 0.62876 | 0.61024 | 0.2145  | 0.73028 | 20.7429025 | 20.74125    | 20.91106    | 20.8586125 |
| Q78IK2 | ATP synthase membrane subunit DAPIT, mitochondrial (Diabetes-associated protein in                                                                                                                                    | Atp5md Dapit Usmg5    | 66477  | 0.62612 | 0.61178 | 0.2134  | 0.73064 | 22.7441025 | 22.69472    | 22.6118375  | 22.712395  |

|        |                                                                                                                                                                                                                                                                                                       |                             |        |         |         |         |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------|---------|---------|---------|---------|------------|------------|------------|------------|
|        | insulin-sensitive tissues) (Up-regulated during skeletal muscle growth protein 5)                                                                                                                                                                                                                     |                             |        |         |         |         |         |            |            |            |            |
| Q91ZP9 | N-terminal EF-hand calcium-binding protein 2 (EF-hand calcium-binding protein 2) (Neuronal calcium-binding protein 2)                                                                                                                                                                                 | Necab2 Efcbp2               | 117148 | 0.6258  | 0.61197 | 0.21327 | 0.73064 | 19.5272475 | 19.46906   | 19.3895075 | 19.2525275 |
| Q8VCT3 | Aminopeptidase B (AP-B) (EC 3.4.11.6) (Arginine aminopeptidase) (Arginyl aminopeptidase) (Cytosol aminopeptidase IV)                                                                                                                                                                                  | Rnpep                       | 215615 | 0.62643 | 0.6116  | 0.21353 | 0.73064 | 21.0568925 | 21.05538   | 21.166675  | 21.1577725 |
| Q8BW75 | Amine oxidase [flavin-containing] B (EC 1.4.3.4) (Monoamine oxidase type B) (MAO-B)                                                                                                                                                                                                                   | Maob                        | 109731 | 0.62472 | 0.6126  | 0.21282 | 0.73082 | 21.5448975 | 21.61033   | 21.410745  | 21.55496   |
| Q9WTR5 | Cadherin-13 (Heart cadherin) (H-cadherin) (Truncated cadherin) (T-cad) (T-cadherin)                                                                                                                                                                                                                   | Cdh13                       | 12554  | 0.62087 | 0.61486 | 0.21122 | 0.73294 | 19.84763   | 20.06908   | 20.15276   | 19.93661   |
| P47791 | Glutathione reductase, mitochondrial (GR) (GRase) (EC 1.8.1.7)                                                                                                                                                                                                                                        | Gsr Gr1                     | 14782  | 0.61962 | 0.61559 | 0.21071 | 0.73324 | 19.1911275 | 19.168095  | 19.370085  | 19.35664   |
| Q9D0J8 | Parathymosin                                                                                                                                                                                                                                                                                          | Ptms                        | 69202  | 0.61634 | 0.61753 | 0.20934 | 0.73497 | 22.4131775 | 22.1905875 | 22.1542475 | 22.187495  |
| Q3TDK6 | Protein rogdi homolog (Leucine-zipper-containing LZF)                                                                                                                                                                                                                                                 | Rogdi Lzf                   | 66049  | 0.61509 | 0.61826 | 0.20883 | 0.73527 | 21.24567   | 21.31084   | 21.16839   | 21.0557475 |
| A2ALS5 | Rap1 GTPase-activating protein 1 (Rap1GAP) (Rap1GAP1) (ARPP-90)                                                                                                                                                                                                                                       | Rap1gap Kiaa0474 Rap1ga1    | 110351 | 0.61226 | 0.61994 | 0.20765 | 0.73611 | 19.795645  | 19.6227025 | 19.7817675 | 19.7014225 |
| Q6ZPJ3 | (E3-independent) E2 ubiquitin-conjugating enzyme UBE2O (EC 2.3.2.24) (E2/E3 hybrid ubiquitin-protein ligase UBE2O) (Ubiquitin carrier protein O) (Ubiquitin-conjugating enzyme E2 O) (Ubiquitin-conjugating enzyme E2 of 230 kDa) (Ubiquitin-conjugating enzyme E2-230K) (Ubiquitin-protein ligase O) | Ube2o Kiaa1734              | 217342 | 0.61245 | 0.61982 | 0.20773 | 0.73611 | 20.95143   | 20.94393   | 21.09994   | 20.969355  |
| P61264 | Syntaxin-1B                                                                                                                                                                                                                                                                                           | Stx1b Stx1b1 Stx1b2         | 56216  | 0.60979 | 0.6214  | 0.20663 | 0.73727 | 25.75874   | 25.6951225 | 25.6815825 | 25.66157   |
| Q78ZA7 | Nucleosome assembly protein 1-like 4                                                                                                                                                                                                                                                                  | Nap14                       | 17955  | 0.60733 | 0.62285 | 0.20561 | 0.73772 | 20.9538125 | 20.93848   | 20.967315  | 21.0036625 |
| Q35326 | Serine/arginine-rich splicing factor 5 (Delayed-early protein HRS) (Pre-mRNA-splicing factor SRP40) (Splicing factor, arginine/serine-rich 5)                                                                                                                                                         | Srsf5 Hrs Sfrs5             | 20384  | 0.60671 | 0.62322 | 0.20536 | 0.73772 | 19.66358   | 19.584515  | 19.455565  | 19.567825  |
| Q80Z24 | Neuronal growth regulator 1 (Kindred of IgLON) (Kilon) (Neurotractin)                                                                                                                                                                                                                                 | Negr1 Kiaa3001 Ntra         | 320840 | 0.60824 | 0.62232 | 0.20599 | 0.73772 | 20.82278   | 20.8449025 | 20.795825  | 20.6695175 |
| Q9DCS9 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10 (Complex I-PDSW) (CI-PDSW) (NADH-ubiquinone oxidoreductase PDSW subunit)                                                                                                                                                                 | Ndufb10                     | 68342  | 0.60246 | 0.62575 | 0.2036  | 0.74014 | 23.298245  | 23.2715125 | 23.35829   | 23.283415  |
| Q9Z2D6 | Methyl-CpG-binding protein 2 (MeCp-2 protein) (MeCp2)                                                                                                                                                                                                                                                 | Mecp2                       | 17257  | 0.59945 | 0.62755 | 0.20235 | 0.7417  | 19.424525  | 19.3040225 | 19.3480225 | 19.29774   |
| Q9JIA1 | Leucine-rich glioma-inactivated protein 1                                                                                                                                                                                                                                                             | Lgi1                        | 56839  | 0.59704 | 0.62899 | 0.20136 | 0.74282 | 22.9902475 | 22.96359   | 22.9911175 | 22.920735  |
| O55029 | Coatomer subunit beta' (Beta'-coat protein) (Beta'-COP) (p102)                                                                                                                                                                                                                                        | Copb2                       | 50797  | 0.59511 | 0.63014 | 0.20056 | 0.74361 | 20.3268875 | 20.1848775 | 20.29418   | 20.322895  |
| Q14C59 | Transmembrane protease serine 11B-like protein (EC 3.4.21.-) (Airway trypsin-like protease 5) (Transmembrane protease serine 11B)                                                                                                                                                                     | Tmprss11b Hat15 Tmprss11bnl | 319875 | 0.59241 | 0.63177 | 0.19944 | 0.74495 | 19.632375  | 19.4589725 | 19.5310225 | 19.6473825 |
| Q3U0V1 | Far upstream element-binding protein 2 (FUSE-binding protein 2) (KH type-splicing regulatory protein) (KSRP)                                                                                                                                                                                          | Khsrp Fubp2                 | 16549  | 0.58531 | 0.63604 | 0.19651 | 0.74883 | 20.58842   | 20.4831675 | 20.6078725 | 20.5980725 |
| Q9D0E1 | Heterogeneous nuclear ribonucleoprotein M (hnRNP M)                                                                                                                                                                                                                                                   | Hnrmnp Hnrm                 | 76936  | 0.58582 | 0.63574 | 0.19672 | 0.74883 | 21.387855  | 21.290205  | 21.2379675 | 21.0607225 |
| Q8VEM8 | Phosphate carrier protein, mitochondrial (Phosphate transport protein) (PTP) (Solute carrier family 25 member 3)                                                                                                                                                                                      | Slc25a3                     | 18674  | 0.58009 | 0.63921 | 0.19436 | 0.75169 | 25.6786475 | 25.748555  | 25.74728   | 25.7342325 |
| Q9DCU2 | Plasmalipin (Plasma membrane proteolipid)                                                                                                                                                                                                                                                             | Plip Plapi Pmlp Tm4sf11     | 67801  | 0.57969 | 0.63945 | 0.19419 | 0.75169 | 21.5525225 | 21.4903825 | 21.56044   | 21.8321    |

|        |                                                                                                                                                                                                                           |                                 |        |         |         |         |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|---------|---------|---------|---------|------------|------------|------------|------------|
| Q9QUI0 | Transforming protein RhoA (EC 3.6.5.2)                                                                                                                                                                                    | Rhoa Arha Arha2                 | 11848  | 0.57679 | 0.64121 | 0.193   | 0.75318 | 23.399875  | 23.3848475 | 23.40583   | 23.4488825 |
| O35295 | Transcriptional activator protein Pur-beta (Purine-rich element-binding protein B) (Vascular actin single-stranded DNA-binding factor 2 p44 component)                                                                    | Purb                            | 19291  | 0.57556 | 0.64196 | 0.19249 | 0.75331 | 21.7552175 | 21.667515  | 21.734545  | 21.60397   |
| Q99N28 | Cell adhesion molecule 3 (Immunoglobulin superfamily member 4B) (IgSF4B) (Nectin-like protein 1) (NECL-1) (Synaptic cell adhesion molecule 3) (TSLC1-like protein 1)                                                      | Cadm3 Igsf4b Nect1 Syncam3 Tsl1 | 94332  | 0.57498 | 0.64231 | 0.19225 | 0.75331 | 23.2385975 | 23.19288   | 23.2276575 | 23.18953   |
| P08553 | Neurofilament medium polypeptide (NF-M) (160 kDa neurofilament protein) (Neurofilament 3) (Neurofilament triplet M protein)                                                                                               | Nefm Nef3 Nfm                   | 18040  | 0.57265 | 0.64373 | 0.19129 | 0.7544  | 25.9022    | 25.8294025 | 25.755125  | 25.9873675 |
| A2AJI0 | MAP7 domain-containing protein 1                                                                                                                                                                                          | Map7d1 Kiaa1187 Mtap7d1         | 245877 | 0.57055 | 0.64502 | 0.19043 | 0.75532 | 19.3138875 | 19.3245425 | 19.33096   | 19.464045  |
| Q8BIG7 | Catechol O-methyltransferase domain-containing protein 1 (EC 2.1.1.-)                                                                                                                                                     | Comtd1                          | 69156  | 0.56936 | 0.64574 | 0.18994 | 0.75559 | 19.5965525 | 19.484995  | 19.519685  | 19.4572025 |
| Q00PI9 | Heterogeneous nuclear ribonucleoprotein U-like protein 2 (MLF1-associated nuclear protein)                                                                                                                                | Hnrnpul2 Hnrpul2 Manp           | 68693  | 0.56227 | 0.65009 | 0.18703 | 0.7601  | 20.9989225 | 20.9136375 | 20.927105  | 21.0049775 |
| O35927 | Catenin delta-2 (Neural plakophilin-related ARM-repeat protein) (NPRAP) (Neurojungin)                                                                                                                                     | Ctnnd2 Catnd2 Nprap             | 18163  | 0.55565 | 0.65418 | 0.18431 | 0.76429 | 21.7472575 | 21.73285   | 21.62164   | 21.6731575 |
| Q924M7 | Mannose-6-phosphate isomerase (EC 5.3.1.8) (Phosphohexomutase) (Phosphomannose isomerase) (PMI)                                                                                                                           | Mpi Mpi1 Pmi                    | 110119 | 0.55369 | 0.65539 | 0.1835  | 0.76512 | 20.2633775 | 20.2553775 | 20.3557275 | 20.2579375 |
| Q8CAQ8 | MICOS complex subunit Mic60 (Mitochondrial inner membrane protein) (Mitofilin)                                                                                                                                            | Immt Mic60                      | 76614  | 0.55283 | 0.65592 | 0.18315 | 0.76516 | 24.5860375 | 24.5634725 | 24.5206025 | 24.522345  |
| P16125 | L-lactate dehydrogenase B chain (LDH-B) (EC 1.1.1.27) (LDH heart subunit) (LDH-H)                                                                                                                                         | Ldhb Ldh-2 Ldh2                 | 16832  | 0.55075 | 0.65721 | 0.1823  | 0.76572 | 26.93866   | 26.8553675 | 26.84615   | 26.89334   |
| Q9WUA2 | Phenylalanine--tRNA ligase beta subunit (EC 6.1.1.20) (Phenylalanyl-tRNA synthetase beta subunit) (PheRS)                                                                                                                 | Farsb Farsl Farslb Frsb         | 23874  | 0.55031 | 0.65748 | 0.18212 | 0.76572 | 20.5475225 | 20.5961575 | 20.49257   | 20.5185825 |
| P56812 | Programmed cell death protein 5 (TF-1 cell apoptosis-related protein 19) (Protein TFAR19)                                                                                                                                 | Pdcd5 Tfar19                    | 56330  | 0.54962 | 0.65791 | 0.18184 | 0.76572 | 19.43585   | 19.273745  | 19.37104   | 19.366785  |
| Q6P1F6 | Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform (PP2A subunit B isoform B55-alpha) (PP2A subunit B isoform PR55-alpha) (PP2A subunit B isoform R2-alpha) (PP2A subunit B isoform alpha) | Ppp2r2a                         | 71978  | 0.54773 | 0.65909 | 0.18106 | 0.76651 | 22.0780925 | 22.0471975 | 22.0862    | 22.0930275 |
| P48771 | Cytochrome c oxidase subunit 7A2, mitochondrial (Cytochrome c oxidase subunit VIIa-liver/heart) (Cytochrome c oxidase subunit VIIa-L)                                                                                     | Cox7a2 Cox7a3 Cox7al            | 12866  | 0.54635 | 0.65994 | 0.18049 | 0.76692 | 23.897665  | 23.802065  | 23.883725  | 23.83333   |
| O09167 | 60S ribosomal protein L21                                                                                                                                                                                                 | Rpl21                           |        | 0.54325 | 0.66187 | 0.17922 | 0.768   | 20.407645  | 20.2586225 | 20.332275  | 20.420655  |
| P80317 | T-complex protein 1 subunit zeta (TCP-1-zeta) (CCT-zeta-1)                                                                                                                                                                | Cct6a Cct6 Cctz Cctz1           | 12466  | 0.54404 | 0.66138 | 0.17955 | 0.768   | 22.73703   | 22.7023725 | 22.7774425 | 22.8010575 |
| Q6PDL0 | Cytoplasmic dynein 1 light intermediate chain 2 (Dynein light intermediate chain 2, cytosolic)                                                                                                                            | Dync1li2 Dncli2 Dncllc2         | 234663 | 0.54036 | 0.66368 | 0.17804 | 0.76897 | 19.829175  | 19.91552   | 19.9675225 | 19.9471475 |
| Q6P560 | Zinc finger protein 182 (Zinc finger protein 21)                                                                                                                                                                          | Znf182 Zfp182 Znf21             | 319535 | 0.5403  | 0.66372 | 0.17802 | 0.76897 | 20.72543   | 22.2727925 | 21.559485  | 22.3706325 |
| D3Z7P3 | Glutaminase kidney isoform, mitochondrial (GLS) (EC 3.5.1.2) [Cleaved into: Glutaminase kidney isoform, mitochondrial 68 kDa chain; Glutaminase kidney isoform, mitochondrial 65 kDa chain]                               | Gls GlS1 Kiaa0838               | 14660  | 0.53579 | 0.66654 | 0.17617 | 0.77165 | 23.9671725 | 23.990335  | 24.0529875 | 23.9943825 |
| Q99KK2 | N-acylneuraminate cytidyltransferase (EC 2.7.7.43) (CMP-N-acetylneuraminic acid synthase) (CMP-NeuNAc synthase)                                                                                                           | Cmas                            | 12764  | 0.53452 | 0.66734 | 0.17565 | 0.77199 | 19.4260175 | 19.361645  | 19.479915  | 19.51582   |
| P06837 | Neuromodulin (Axonal membrane protein GAP-43) (Calmodulin-binding protein P-57) (Growth-associated protein 43)                                                                                                            | Gap43 Basp2                     | 14432  | 0.53246 | 0.66863 | 0.17481 | 0.77245 | 24.8946425 | 24.8012025 | 24.8742975 | 24.6458975 |

|        |                                                                                                                                                                                                                                                         |                         |                 |         |         |         |         |            |            |             |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|---------|---------|---------|---------|------------|------------|-------------|------------|
| P57759 | Endoplasmic reticulum resident protein 29 (Erp29)                                                                                                                                                                                                       | Erp29                   | 67397           | 0.53227 | 0.66875 | 0.17474 | 0.77245 | 20.978605  | 20.9293725 | 21.051675   | 21.0075475 |
| Q9CY27 | Very-long-chain enoyl-CoA reductase (EC 1.3.1.93) (Synaptic glycoprotein SC2) (Trans-2,3-enoyl-CoA reductase) (TER)                                                                                                                                     | Tecr Gpsn2              | 106529          | 0.52973 | 0.67035 | 0.1737  | 0.77371 | 20.017495  | 20.0842575 | 19.90189    | 20.0622475 |
| Q9D8B3 | Charged multivesicular body protein 4b (Chromatin-modifying protein 4b) (CHMP4b)                                                                                                                                                                        | Chmp4b                  | 75608           | 0.52873 | 0.67098 | 0.17329 | 0.77386 | 20.4020225 | 20.407805  | 20.29748    | 20.4432325 |
| P50247 | Adenosylhomocysteinase (AdoHcyase) (EC 3.3.1.1) (CUBP) (Liver copper-binding protein) (S-adenosyl-L-homocysteine hydrolase)                                                                                                                             | Ahcy                    | 11615<br>269378 | 0.52721 | 0.67194 | 0.17267 | 0.77438 | 21.609715  | 21.60003   | 21.5382075  | 21.645095  |
| P62962 | Profilin-1 (Profilin I)                                                                                                                                                                                                                                 | Pfn1                    | 18643           | 0.52594 | 0.67274 | 0.17215 | 0.77471 | 24.29241   | 24.2544475 | 24.3824475  | 24.261385  |
| Q8VDQ8 | NAD-dependent protein deacetylase sirtuin-2 (EC 2.3.1.286) (Regulatory protein SIR2 homolog 2) (SIR2-like protein 2) (mSIR2L2)                                                                                                                          | Sirt2 Sir2l2            | 64383           | 0.52469 | 0.67353 | 0.17164 | 0.77504 | 24.2321    | 24.1453825 | 24.0793375  | 24.30011   |
| P10639 | Thioredoxin (Trx) (ATL-derived factor) (ADF)                                                                                                                                                                                                            | Txn Txn1                | 22166           | 0.52117 | 0.67575 | 0.17021 | 0.77643 | 22.98461   | 22.869955  | 22.9011725  | 22.90694   |
| Q9Z1D1 | Eukaryotic translation initiation factor 3 subunit G (eIF3g) (Eukaryotic translation initiation factor 3 RNA-binding subunit) (eIF-3 RNA-binding subunit) (Eukaryotic translation initiation factor 3 subunit 4) (eIF-3-delta) (eIF3 p42) (eIF3 p44)    | Eif3g Eif3p42 Eif3s4    | 53356           | 0.52172 | 0.67541 | 0.17043 | 0.77643 | 18.857965  | 18.28279   | 18.6431175  | 18.41304   |
| O35143 | ATPase inhibitor, mitochondrial (ATP synthase F1 subunit epsilon) (Inhibitor of F(1)F(o)-ATPase) (IF(1)) (IF1)                                                                                                                                          | ATP5IF1 Atpi Atpif1 If1 | 11983           | 0.51639 | 0.67879 | 0.16826 | 0.777   | 21.838505  | 21.80439   | 21.643775   | 21.80346   |
| Q9JM14 | 5'(3')-deoxyribonucleotidase, cytosolic type (EC 3.1.3.-) (Cytosolic 5',3'-pyrimidine nucleotidase) (Deoxy-5'-nucleotidase 1) (dNT-1)                                                                                                                   | Nt5c Dnt1               | 50773           | 0.51783 | 0.67787 | 0.16885 | 0.777   | 20.8265825 | 20.75999   | 20.891325   | 20.7513775 |
| Q99J14 | 26S proteasome non-ATPase regulatory subunit 6 (26S proteasome regulatory subunit RPN7) (26S proteasome regulatory subunit S10) (p42A)                                                                                                                  | Psm6                    | 66413           | 0.5175  | 0.67808 | 0.16872 | 0.777   | 20.60375   | 20.604515  | 20.5774975  | 20.7586775 |
| Q9CYN9 | Renin receptor (ATPase H(+)-transporting lysosomal accessory protein 2) (ATPase H(+)-transporting lysosomal-interacting protein 2) (Renin/prorenin receptor) [Cleaved into: Renin receptor extracellular fragment; Renin receptor cytoplasmic fragment] | Atp6ap2 Atp6ip2         | 70495           | 0.51782 | 0.67788 | 0.16884 | 0.777   | 20.1294475 | 20.06509   | 20.020295   | 19.931495  |
| E9Q414 | Apolipoprotein B-100 (Apo B-100) [Cleaved into: Apolipoprotein B-48 (Apo B-48)]                                                                                                                                                                         | Apob                    | 238055          | 0.51649 | 0.67873 | 0.1683  | 0.777   | 19.9735675 | 19.7823475 | 19.8078125  | 19.8812625 |
| Q8R4F1 | Netrin-G2 (Lamint-2)                                                                                                                                                                                                                                    | Ntng2 Lmnt2             | 171171          | 0.51201 | 0.68158 | 0.16648 | 0.77948 | 20.263435  | 20.220705  | 20.351655   | 20.20423   |
| P61922 | 4-aminobutyrate aminotransferase, mitochondrial (EC 2.6.1.19) ((S)-3-amino-2-methylpropionate transaminase) (EC 2.6.1.22) (GABA aminotransferase) (GABA-AT) (Gamma-amino-N-butyrate transaminase) (GABA transaminase) (GABA-T) (L-AIBAT)                | Abat Gabat              | 268860          | 0.51059 | 0.68249 | 0.16591 | 0.77948 | 24.5049325 | 24.57042   | 24.7206425  | 24.5279675 |
| P21614 | Vitamin D-binding protein (DBP) (VDB) (Gc-globulin) (Group-specific component)                                                                                                                                                                          | Gc                      | 14473           | 0.51125 | 0.68206 | 0.16617 | 0.77948 | 16.490914  | 18.0932775 | 16.53169325 | 14.981235  |
| P63030 | Mitochondrial pyruvate carrier 1 (Brain protein 44-like protein)                                                                                                                                                                                        | Mpc1 Brp44l             | 55951           | 0.50877 | 0.68365 | 0.16517 | 0.77994 | 23.588895  | 23.373545  | 23.342345   | 23.4332275 |
| Q99K51 | Plastin-3 (T-plastin)                                                                                                                                                                                                                                   | Pls3                    | 102866          | 0.50835 | 0.68391 | 0.165   | 0.77994 | 21.1673625 | 21.15171   | 21.166295   | 21.255445  |
| P49443 | Protein phosphatase 1A (EC 3.1.3.16) (Protein phosphatase 2C isoform alpha) (PP2C-alpha) (Protein phosphatase 1A)                                                                                                                                       | Ppm1a Pppm1a            | 19042           | 0.50639 | 0.68517 | 0.1642  | 0.78079 | 20.62629   | 20.5325025 | 20.5410225  | 20.5347975 |
| P36536 | GTP-binding protein SAR1a                                                                                                                                                                                                                               | Sar1a Sara Sara1        |                 | 0.50471 | 0.68625 | 0.16352 | 0.78143 | 18.7111    | 18.7986525 | 18.927365   | 18.8038425 |
| Q9CQA3 | Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial (EC 1.3.5.1) (Iron-sulfur subunit of complex II) (Ib)                                                                                                                           | Sdhb                    | 67680           | 0.50174 | 0.68815 | 0.16232 | 0.78301 | 23.0351325 | 22.9942875 | 23.001335   | 23.065625  |

|        |                                                                                                                                                                                                                                                                                                                                           |                           |        |         |         |         |         |            |            |            |            |
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| Q9QZB7 | Actin-related protein 10 (Actin-related protein 11)                                                                                                                                                                                                                                                                                       | Actr10 Act11 Actr11 Arp11 | 56444  | 0.50064 | 0.68886 | 0.16187 | 0.78324 | 19.15061   | 19.258725  | 19.2658025 | 19.2742425 |
| Q02819 | Nucleobindin-1 (CALNUC)                                                                                                                                                                                                                                                                                                                   | Nucb1 Nuc Nucb            | 18220  | 0.49083 | 0.69518 | 0.1579  | 0.78984 | 18.2786125 | 18.4763925 | 18.5883725 | 18.688305  |
| P84096 | Rho-related GTP-binding protein RhoG (Sid 10750)                                                                                                                                                                                                                                                                                          | Rhog Arhg Sid10750        | 56212  | 0.48883 | 0.69648 | 0.15709 | 0.79072 | 21.514095  | 21.3169025 | 21.2875525 | 21.43976   |
| Q6IRU5 | Clathrin light chain B (Lcb)                                                                                                                                                                                                                                                                                                              | Cltb                      | 74325  | 0.48692 | 0.69771 | 0.15632 | 0.79141 | 23.6800575 | 23.583945  | 23.5842575 | 23.6234775 |
| Q8CGC7 | Bifunctional glutamate/proline--tRNA ligase (Bifunctional aminoacyl-tRNA synthetase) [Includes: Glutamate--tRNA ligase (EC 6.1.1.17) (Glutamyl-tRNA synthetase) (GluRS); Proline--tRNA ligase (EC 6.1.1.15) (Prolyl-tRNA synthetase) (ProRS)]                                                                                             | Eprs1 Eprs Qprs           | 107508 | 0.4863  | 0.69812 | 0.15607 | 0.79141 | 21.059425  | 21.0891075 | 21.1118275 | 21.042925  |
| Q11011 | Puromycin-sensitive aminopeptidase (PSA) (EC 3.4.11.14) (Cytosol alanyl aminopeptidase) (AAP-S)                                                                                                                                                                                                                                           | Npepps Psa                | 19155  | 0.48482 | 0.69908 | 0.15547 | 0.79191 | 24.6584375 | 24.636915  | 24.6495125 | 24.58896   |
| Q9D6F9 | Tubulin beta-4A chain (Tubulin beta-4 chain)                                                                                                                                                                                                                                                                                              | Tubb4a Tubb4              | 22153  | 0.48259 | 0.70053 | 0.15457 | 0.79296 | 24.9497225 | 24.9981525 | 25.020655  | 25.08683   |
| Q2PFD7 | PH and SEC7 domain-containing protein 3 (Exchange factor for ADP-ribosylation factor guanine nucleotide factor 6 D) (Exchange factor for ARF6 D) (Pleckstrin homology and SEC7 domain-containing protein 3)                                                                                                                               | Psd3 Efa6d Kiaa0942       | 234353 | 0.47962 | 0.70246 | 0.15338 | 0.79456 | 23.24336   | 23.22721   | 23.18288   | 23.193235  |
| Q9CQ69 | Cytochrome b-c1 complex subunit 8 (Complex III subunit 8) (Complex III subunit VIII) (Ubiquinol-cytochrome c reductase complex 9.5 kDa protein) (Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C)                                                                                                                | Uqcrcq                    | 22272  | 0.47536 | 0.70524 | 0.15166 | 0.79711 | 21.8155825 | 21.77893   | 21.7158625 | 21.645475  |
| Q99LF4 | RNA-splicing ligase RtcB homolog (EC 6.5.1.8) (3'-phosphate/5'-hydroxy nucleic acid ligase) (Focal adhesion-associated protein) (FAAP)                                                                                                                                                                                                    | RtcB D10Wsu52e            | 28088  | 0.47439 | 0.70587 | 0.15127 | 0.79724 | 19.86073   | 19.64486   | 19.7414875 | 19.8995375 |
| P11276 | Fibronectin (FN) [Cleaved into: Anastellin]                                                                                                                                                                                                                                                                                               | Fn1                       | 14268  | 0.46695 | 0.71074 | 0.14829 | 0.80156 | 20.8395075 | 20.69517   | 20.712665  | 20.72692   |
| Q8VEK0 | Cell cycle control protein 50A (P4-ATPase flippase complex beta subunit TMEM30A) (Transmembrane protein 30A)                                                                                                                                                                                                                              | Tmem30a Cdc50a D9Wsu20e   | 69981  | 0.46738 | 0.71046 | 0.14846 | 0.80156 | 19.4911275 | 19.466395  | 19.4319525 | 19.3736325 |
| Q791V5 | Mitochondrial carrier homolog 2                                                                                                                                                                                                                                                                                                           | Mtch2                     | 56428  | 0.45423 | 0.71913 | 0.14319 | 0.81042 | 23.2122    | 23.15347   | 23.1860925 | 23.16899   |
| Q9R1P4 | Proteasome subunit alpha type-1 (EC 3.4.25.1) (Macropain subunit C2) (Multicatalytic endopeptidase complex subunit C2) (Proteasome component C2) (Proteasome nu chain)                                                                                                                                                                    | Psma1                     | 26440  | 0.45172 | 0.72079 | 0.14219 | 0.81109 | 21.5418775 | 21.46869   | 21.483735  | 21.53461   |
| O88544 | COP9 signalosome complex subunit 4 (SGN4) (Signalosome subunit 4) (JAB1-containing signalosome subunit 4)                                                                                                                                                                                                                                 | Cops4 Csn4                | 26891  | 0.45222 | 0.72046 | 0.14239 | 0.81109 | 21.2085    | 21.1679875 | 21.2658075 | 21.1689375 |
| P62743 | AP-2 complex subunit sigma (Adaptor protein complex AP-2 subunit sigma) (Adaptor-related protein complex 2 subunit sigma) (Clathrin assembly protein 2 sigma small chain) (Clathrin coat assembly protein AP17) (Clathrin coat-associated protein AP17) (Plasma membrane adaptor AP-2 17 kDa protein) (Sigma-adaptin 3b) (Sigma2-adaptin) | Ap2s1 Ap17 Claps2         | 232910 | 0.44936 | 0.72236 | 0.14125 | 0.81225 | 22.2143175 | 22.22836   | 22.263355  | 22.172595  |
| Q3TC72 | Fumarylacetoacetate hydrolase domain-containing protein 2A (EC 3.-.-.-)                                                                                                                                                                                                                                                                   | Fahd2 Fahd2a              | 68126  | 0.4479  | 0.72333 | 0.14066 | 0.81275 | 20.2597075 | 20.2336925 | 20.3297825 | 20.2390775 |
| P62192 | 26S proteasome regulatory subunit 4 (P26s4) (26S proteasome AAA-ATPase subunit RPT2) (Proteasome 26S subunit ATPase 1)                                                                                                                                                                                                                    | Psmc1                     | 19179  | 0.44305 | 0.72655 | 0.13873 | 0.81338 | 20.973175  | 21.030195  | 21.0830025 | 20.9268125 |
| P51150 | Ras-related protein Rab-7a                                                                                                                                                                                                                                                                                                                | Rab7a Rab7                | 19349  | 0.44317 | 0.72647 | 0.13878 | 0.81338 | 23.3971225 | 23.407135  | 23.445655  | 23.45867   |

|        |                                                                                                                                                                                                                                                             |                    |        |         |         |         |         |            |            |            |            |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|---------|---------|---------|---------|------------|------------|------------|------------|
| Q9DCB4 | cAMP-regulated phosphoprotein 21 (ARPP-21) (Regulator of calmodulin signaling) (Thymocyte cAMP-regulated phosphoprotein)                                                                                                                                    | Arpp21 Rcs Tarpp   | 74100  | 0.4445  | 0.72559 | 0.13931 | 0.81338 | 18.7458025 | 18.434755  | 18.69274   | 18.6248925 |
| P58281 | Dynamin-like 120 kDa protein, mitochondrial (EC 3.6.5.5) (Large GTP-binding protein) (LargeG) (Optic atrophy protein 1 homolog) [Cleaved into: Dynamin-like 120 kDa protein, form S1]                                                                       | Opa1               | 74143  | 0.44441 | 0.72565 | 0.13928 | 0.81338 | 23.6545425 | 23.66265   | 23.6779    | 23.6121825 |
| P59325 | Eukaryotic translation initiation factor 5 (eIF-5)                                                                                                                                                                                                          | Elf5               | 217869 | 0.44438 | 0.72567 | 0.13926 | 0.81338 | 19.605895  | 19.6369875 | 19.6544325 | 19.699115  |
| Q6P5F9 | Exportin-1 (Exp1) (Chromosome region maintenance 1 protein homolog)                                                                                                                                                                                         | Xpo1 Crm1          | 103573 | 0.43936 | 0.72901 | 0.13726 | 0.81553 | 20.9028725 | 20.9784975 | 21.11056   | 20.9793425 |
| P22315 | Ferrochelatase, mitochondrial (EC 4.99.1.1) (Heme synthase) (Protoheme ferro-lyase)                                                                                                                                                                         | Fech               |        | 0.43347 | 0.73295 | 0.13493 | 0.81813 | 19.7398125 | 19.7463025 | 19.6808975 | 19.6965375 |
| Q62446 | Peptidyl-prolyl cis-trans isomerase FKBP3 (PPIase FKBP3) (EC 5.2.1.8) (25 kDa FK506-binding protein) (25 kDa FKBP) (FKBP-25) (FK506-binding protein 3) (FKBP-3) (Immunophilin FKBP25) (Rapamycin-selective 25 kDa immunophilin) (Rotamase)                  | Fkbp3 Fkbp25       | 30795  | 0.43355 | 0.7329  | 0.13496 | 0.81813 | 19.457665  | 19.43048   | 19.325905  | 19.4675525 |
| Q8C2Q3 | RNA-binding protein 14 (RNA-binding motif protein 14)                                                                                                                                                                                                       | Rbm14              | 56275  | 0.43417 | 0.73248 | 0.1352  | 0.81813 | 18.7404275 | 18.535705  | 18.6030125 | 18.7359125 |
| Q60676 | Serine/threonine-protein phosphatase 5 (PP5) (EC 3.1.3.16) (Protein phosphatase T) (PPT)                                                                                                                                                                    | Ppp5c              | 19060  | 0.43246 | 0.73362 | 0.13453 | 0.81829 | 20.749335  | 20.6873375 | 20.75519   | 20.602485  |
| Q9JHW4 | Selenocysteine-specific elongation factor (Elongation factor sec) (Eukaryotic elongation factor, selenocysteine-tRNA-specific) (mSelB)                                                                                                                      | Eefsec Selb        | 65967  | 0.43082 | 0.73472 | 0.13388 | 0.81892 | 20.07974   | 20.0929025 | 20.0511825 | 20.201615  |
| O09061 | Proteasome subunit beta type-1 (EC 3.4.25.1) (Macropain subunit C5) (Multicatalytic endopeptidase complex subunit C5) (Proteasome component C5) (Proteasome gamma chain)                                                                                    | Psmb1              | 19170  | 0.42839 | 0.73635 | 0.13291 | 0.82014 | 22.104535  | 22.0138275 | 22.0406725 | 22.020055  |
| P46664 | Adenylosuccinate synthetase isoform 2 (AMPSase 2) (AdSS 2) (EC 6.3.4.4) (Adenylosuccinate synthetase, acidic isoform) (Adenylosuccinate synthetase, liver isoform) (L-type adenylosuccinate synthetase) (IMP--aspartate ligase 2)                           | Adss2 Adss         | 11566  | 0.42614 | 0.73787 | 0.13202 | 0.82078 | 19.9639775 | 19.915825  | 20.066035  | 19.9796375 |
| Q60749 | KH domain-containing, RNA-binding, signal transduction-associated protein 1 (GAP-associated tyrosine phosphoprotein p62) (Src-associated in mitosis 68 kDa protein) (Sam68) (p21 Ras GTPase-activating protein-associated p62) (p68)                        | Khdrbs1            | 20218  | 0.42593 | 0.738   | 0.13194 | 0.82078 | 19.93361   | 19.949695  | 20.15389   | 20.0333475 |
| Q9JHK4 | Geranylgeranyl transferase type-2 subunit alpha (EC 2.5.1.60) (Geranylgeranyl transferase type II subunit alpha) (Rab geranyl-geranyltransferase subunit alpha) (Rab GG transferase alpha) (Rab GGTase alpha) (Rab geranylgeranyltransferase subunit alpha) | Rabggta            | 56187  | 0.42421 | 0.73916 | 0.13126 | 0.82147 | 19.5199925 | 19.3230175 | 19.4616825 | 19.345395  |
| Q91WD7 | Kinesin-like protein KIF18A                                                                                                                                                                                                                                 | Kif18a             | 228421 | 0.42258 | 0.74026 | 0.13062 | 0.82209 | 20.2367525 | 20.10238   | 20.0223175 | 20.017995  |
| Q6NZL0 | Protein SOGA3                                                                                                                                                                                                                                               | Soga3              | 67412  | 0.42165 | 0.74089 | 0.13025 | 0.82219 | 20.1458225 | 20.06014   | 20.0636575 | 20.01251   |
| Q99PL6 | UBX domain-containing protein 6 (UBX domain-containing protein 1)                                                                                                                                                                                           | Ubxn6 Ubxo1 Ubxdc2 | 66530  | 0.41601 | 0.74469 | 0.12802 | 0.82537 | 19.217285  | 19.7559525 | 19.61843   | 19.61881   |
| Q3THS6 | S-adenosylmethionine synthase isoform type-2 (AdoMet synthase 2) (EC 2.5.1.6) (Methionine adenosyltransferase 2) (MAT 2)                                                                                                                                    | Mat2a              | 232087 | 0.41579 | 0.74484 | 0.12794 | 0.82537 | 20.8388075 | 20.9117725 | 20.881725  | 20.94072   |
| Q9Z1Z2 | Serine-threonine kinase receptor-associated protein (UNR-interacting protein)                                                                                                                                                                               | Strap Unrip        | 20901  | 0.41433 | 0.74583 | 0.12736 | 0.82587 | 20.8182325 | 20.8073675 | 20.83894   | 20.7150775 |
| Q8R574 | Phosphoribosyl pyrophosphate synthase-associated protein 2 (PRPP synthase-associated protein 2) (41 kDa)                                                                                                                                                    | Prpsap2            | 212627 | 0.40852 | 0.74976 | 0.12508 | 0.82962 | 22.17065   | 22.0738025 | 21.965985  | 22.0479875 |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |        |         |         |         |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------|---------|---------|---------|---------|------------|------------|------------|------------|
|        | phosphoribosylpyrophosphate synthetase-associated protein) (PAP41)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |        |         |         |         |         |            |            |            |            |
| P61971 | Nuclear transport factor 2 (NTF-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Nutf2 Ntf2                        | 68051  | 0.40597 | 0.75149 | 0.12408 | 0.83074 | 20.650785  | 20.773735  | 20.9249475 | 20.7216875 |
| A2AGT5 | Cytoskeleton-associated protein 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ckap5                             | 75786  | 0.40542 | 0.75186 | 0.12386 | 0.83074 | 19.671905  | 19.559035  | 19.62689   | 19.7106625 |
| Q9WV92 | Band 4.1-like protein 3 (4.1B) (Differentially expressed in adenocarcinoma of the lung protein 1) (DAL-1) (DAL1P) (mDAL-1) [Cleaved into: Band 4.1-like protein 3, N-terminally processed]                                                                                                                                                                                                                                                                                                                       | Epb41l3 Dal1<br>Epb4.1l3 Kiaa0987 | 13823  | 0.40006 | 0.75551 | 0.12176 | 0.83357 | 23.9580825 | 23.9859125 | 23.9218375 | 23.9998475 |
| Q61481 | Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A (Cam-PDE 1A) (EC 3.1.4.17) (61 kDa Cam-PDE)                                                                                                                                                                                                                                                                                                                                                                                            | Pde1a                             | 18573  | 0.40044 | 0.75525 | 0.12191 | 0.83357 | 20.0583225 | 19.972805  | 20.0697775 | 20.1210525 |
| P35235 | Tyrosine-protein phosphatase non-receptor type 11 (EC 3.1.3.48) (Protein-tyrosine phosphatase SYP) (SH-PTP2) (SHP-2) (Shp2)                                                                                                                                                                                                                                                                                                                                                                                      | Ptpn11                            | 19247  | 0.39844 | 0.7566  | 0.12113 | 0.83418 | 19.527975  | 19.481395  | 19.605525  | 19.39986   |
| Q9CXY6 | Interleukin enhancer-binding factor 2 (Nuclear factor of activated T-cells 45 kDa)                                                                                                                                                                                                                                                                                                                                                                                                                               | Ilf2 Nf45                         | 67781  | 0.39753 | 0.75722 | 0.12078 | 0.83426 | 19.3863025 | 19.27132   | 19.2890675 | 19.2817    |
| Q61598 | Rab GDP dissociation inhibitor beta (Rab GDI beta) (GDI-3) (Guanosine diphosphate dissociation inhibitor 2) (GDI-2)                                                                                                                                                                                                                                                                                                                                                                                              | Gdi2 Gdi3                         | 14569  | 0.39388 | 0.75972 | 0.11935 | 0.83519 | 25.80312   | 25.82238   | 25.83073   | 25.83776   |
| Q9CQ54 | NADH dehydrogenase [ubiquinone] 1 subunit C2 (Complex I-B14.5b) (CI-B14.5b) (NADH-ubiquinone oxidoreductase subunit B14.5b)                                                                                                                                                                                                                                                                                                                                                                                      | Ndufc2                            | 68197  | 0.39509 | 0.75889 | 0.11982 | 0.83519 | 21.2656775 | 21.2752825 | 21.365185  | 21.281705  |
| Q8BGN3 | Glycerophosphocholine cholinephosphodiesterase ENPP6 (GPC-Cpde) (EC 3.1.4.-) (EC 3.1.4.38) (Choline-specific glycerophosphodiester phosphodiesterase) (Ectonucleotide pyrophosphatase/phosphodiesterase family member 6) (E-NPP 6) (NPP-6)                                                                                                                                                                                                                                                                       | Enpp6                             | 320981 | 0.39466 | 0.75918 | 0.11965 | 0.83519 | 19.5051525 | 19.397385  | 19.59536   | 19.648385  |
| P38647 | Stress-70 protein, mitochondrial (75 kDa glucose-regulated protein) (GRP-75) (Heat shock 70 kDa protein 9) (Mortalin) (Peptide-binding protein 74) (PBP74) (p66 MOT)                                                                                                                                                                                                                                                                                                                                             | Hspa9 Grp75 Hsp74<br>Hspa9a       | 15526  | 0.39076 | 0.76185 | 0.11813 | 0.83573 | 24.6048075 | 24.5738225 | 24.5895625 | 24.6357375 |
| Q9CR68 | Cytochrome b-c1 complex subunit Rieske, mitochondrial (EC 7.1.1.8) (Complex III subunit 5) (Cytochrome b-c1 complex subunit 5) (Rieske iron-sulfur protein) (RISP) (Rieske protein UQCRFS1) (Ubiquinol-cytochrome c reductase iron-sulfur subunit) [Cleaved into: Cytochrome b-c1 complex subunit 9 (Su9) (Subunit 9) (8 kDa subunit 9) (Complex III subunit IX) (Cytochrome b-c1 complex subunit 11) (UQCRFS1 mitochondrial targeting sequence) (UQCRFS1 MTS) (Ubiquinol-cytochrome c reductase 8 kDa protein)] | Uqcrrs1                           | 66694  | 0.3914  | 0.76141 | 0.11838 | 0.83573 | 23.716735  | 23.76325   | 23.6645825 | 23.69577   |
| Q8BMF4 | Dihydrolipoaldehyde-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial (EC 2.3.1.12) (Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex) (Pyruvate dehydrogenase complex component E2) (PDC-E2) (PDCE2)                                                                                                                                                                                                                                           | Dlat                              | 235339 | 0.39136 | 0.76143 | 0.11837 | 0.83573 | 24.8742025 | 24.875385  | 24.951185  | 24.8684275 |
| Q9EPN1 | Neurobeachin (Lysosomal-trafficking regulator 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Nbea Lyst2                        | 26422  | 0.38628 | 0.76491 | 0.11639 | 0.8383  | 21.286075  | 21.26198   | 21.2531    | 21.20773   |
| Q9QZ06 | Toll-interacting protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tollip                            | 54473  | 0.38573 | 0.76529 | 0.11618 | 0.8383  | 20.176985  | 20.250715  | 20.11929   | 20.05846   |
| Q9ESW4 | Acylglycerol kinase, mitochondrial (EC 2.7.1.107) (EC 2.7.1.138) (EC 2.7.1.94) (Multiple substrate lipid kinase) (MuLK) (Multi-substrate lipid kinase)                                                                                                                                                                                                                                                                                                                                                           | Agk Mulk                          | 69923  | 0.38472 | 0.76598 | 0.11578 | 0.83846 | 20.89466   | 20.8561425 | 20.91755   | 20.8200425 |

|        |                                                                                                                                                                                                                                                        |                             |        |         |         |         |         |            |            |            |            |
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| Q91Z73 | Beta-synuclein                                                                                                                                                                                                                                         | Sncb                        | 104069 | 0.3823  | 0.76764 | 0.11484 | 0.83907 | 24.064055  | 24.1898725 | 23.9646075 | 24.059715  |
| Q8C163 | Nuclease EXOG, mitochondrial (EC 3.1.30.-) (Endonuclease G-like 1) (Endo G-like 1)                                                                                                                                                                     | Exog Endog1                 | 208194 | 0.38281 | 0.76729 | 0.11504 | 0.83907 | 19.2674825 | 19.480965  | 19.52043   | 19.266945  |
| Q91VD9 | NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (Complex I-75kD) (CI-75kD)                                                                                                                                     | Ndufs1                      | 227197 | 0.38108 | 0.76848 | 0.11437 | 0.83939 | 25.098745  | 25.126235  | 25.10344   | 25.0924825 |
| Q61553 | Fascin (Singed-like protein)                                                                                                                                                                                                                           | Fscn1 Fan1 Snl              | 14086  | 0.37825 | 0.77042 | 0.11327 | 0.84079 | 24.2745275 | 24.3306175 | 24.350455  | 24.3706    |
| O88545 | COP9 signalosome complex subunit 6 (SGN6) (Signalosome subunit 6) (JAB1-containing signalosome subunit 6)                                                                                                                                              | Cops6 Csn6                  | 26893  | 0.37761 | 0.77086 | 0.11303 | 0.84079 | 19.9330625 | 20.0436525 | 19.95117   | 20.021525  |
| Q9Z204 | Heterogeneous nuclear ribonucleoproteins C1/C2 (hnRNP C1/C2)                                                                                                                                                                                           | HnrnpC Hnrpc                | 15381  | 0.37633 | 0.77174 | 0.11253 | 0.84115 | 21.6754275 | 21.6878325 | 21.736215  | 21.662215  |
| Q91VZ6 | Stromal membrane-associated protein 1                                                                                                                                                                                                                  | Smap1                       | 98366  | 0.3755  | 0.77231 | 0.11221 | 0.84117 | 20.2430525 | 20.2777725 | 20.189675  | 20.2452325 |
| Q00493 | Carboxypeptidase E (CPE) (EC 3.4.17.10) (Carboxypeptidase H) (CPH) (Enkephalin convertase) (Prohormone-processing carboxypeptidase)                                                                                                                    | Cpe                         | 12876  | 0.37454 | 0.77297 | 0.11184 | 0.84129 | 21.6665425 | 21.765545  | 21.7879275 | 21.89679   |
| Q91YT0 | NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (Complex I-51kD) (CI-51kD) (NADH-ubiquinone oxidoreductase 51 kDa subunit)                                                                                    | Ndufv1                      | 17995  | 0.37279 | 0.77418 | 0.11116 | 0.8414  | 24.0835175 | 24.119575  | 24.14266   | 24.1387825 |
| P32067 | Lupus La protein homolog (La autoantigen homolog) (La ribonucleoprotein)                                                                                                                                                                               | Ssb Ss-b                    | 20823  | 0.37358 | 0.77363 | 0.11147 | 0.8414  | 20.4100925 | 20.46162   | 20.4722575 | 20.4736425 |
| P60766 | Cell division control protein 42 homolog (EC 3.6.5.2) (G25K GTP-binding protein)                                                                                                                                                                       | Cdc42                       | 12540  | 0.37052 | 0.77574 | 0.11029 | 0.8425  | 22.9089975 | 22.9695625 | 22.92013   | 22.96993   |
| P70372 | ELAV-like protein 1 (Elav-like generic protein) (Hu-antigen R) (HuR) (MeIG)                                                                                                                                                                            | Elav1 Elra Hua              | 15568  | 0.36524 | 0.77938 | 0.10825 | 0.84371 | 20.4509625 | 20.342415  | 20.402315  | 20.3684725 |
| P97300 | Neuroplastin (Stromal cell-derived receptor 1) (SDR-1)                                                                                                                                                                                                 | Nptn Sdfr1 Sdr1             | 20320  | 0.36588 | 0.77893 | 0.1085  | 0.84371 | 24.3706425 | 24.362005  | 24.302915  | 24.3058875 |
| Q8R5J9 | PRA1 family protein 3 (ADP-ribosylation factor-like protein 6-interacting protein 5) (ARL-6-interacting protein 5) (Aip-5) (Addicisin) (GTRAP3-18) (Glutamate transporter EAAC1-interacting protein) (Prenylated Rab acceptor protein 2) (Protein JWA) | Arl6ip5 Aip5 Jwa Pra2 Praf3 | 65106  | 0.3649  | 0.77961 | 0.10812 | 0.84371 | 20.5166    | 20.535155  | 20.5359    | 20.6083975 |
| P56383 | ATP synthase F(0) complex subunit C2, mitochondrial (ATP synthase lipid-binding protein) (ATP synthase membrane subunit c locus 2) (ATP synthase proteolipid P2) (ATPase protein 9) (ATPase subunit c)                                                 | Atp5mc2 Atp5g2              | 67942  | 0.36574 | 0.77903 | 0.10845 | 0.84371 | 19.9981775 | 19.9910375 | 20.37317   | 19.779095  |
| Q91WD5 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial (EC 1.6.99.3) (EC 7.1.1.2) (Complex I-49kD) (CI-49kD) (NADH-ubiquinone oxidoreductase 49 kDa subunit)                                                                             | Ndufs2                      | 226646 | 0.36683 | 0.77828 | 0.10887 | 0.84371 | 23.36892   | 23.3880075 | 23.4095525 | 23.4245575 |
| Q811D0 | Disks large homolog 1 (Embryo-dlg/synapse-associated protein 97) (E-dlg/SAP97) (Synapse-associated protein 97) (SAP-97) (SAP97)                                                                                                                        | Dlg1 Dlgh1                  | 13383  | 0.36355 | 0.78054 | 0.1076  | 0.84411 | 20.8595475 | 20.926785  | 20.940135  | 20.9951125 |
| P45591 | Cofilin-2 (Cofilin, muscle isoform)                                                                                                                                                                                                                    | Cfl2                        | 12632  | 0.35978 | 0.78315 | 0.10616 | 0.84633 | 21.0382775 | 21.08739   | 21.1742475 | 21.1000725 |
| Q8BI08 | Protein MAL2                                                                                                                                                                                                                                           | Mal2                        | 105853 | 0.35711 | 0.785   | 0.10513 | 0.84773 | 21.2568925 | 21.1720725 | 21.1971775 | 21.1444    |
| Q8VE70 | Programmed cell death protein 10 (TF-1 cell apoptosis-related protein 15)                                                                                                                                                                              | Pdcd10 Tfar15               | 56426  | 0.35528 | 0.78626 | 0.10443 | 0.8479  | 26.10321   | 26.040915  | 26.17983   | 26.0960675 |
| Q8R4V1 | NFAT activation molecule 1 (Calcineurin/NFAT-activating ITAM-containing protein) (NFAT-activating protein with ITAM motif 1)                                                                                                                           | Nfam1 Cnaip                 | 74039  | 0.35585 | 0.78587 | 0.10465 | 0.8479  | 19.36604   | 19.246115  | 19.247975  | 19.20915   |
| Q8BJU0 | Small glutamine-rich tetratricopeptide repeat-containing protein alpha (Alpha-SGT)                                                                                                                                                                     | Sgta Sgt                    | 52551  | 0.35069 | 0.78944 | 0.10268 | 0.85073 | 21.32711   | 21.2196975 | 21.28239   | 21.2514725 |

|        |                                                                                                                                                                                                                                                                                                                                          |                                  |                 |         |         |          |         |            |            |            |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------|---------|---------|----------|---------|------------|------------|------------|------------|
| P24369 | Peptidyl-prolyl cis-trans isomerase B (PPIase B) (EC 5.2.1.8) (CYP-S1) (Cyclophilin B) (Rotamase B) (S-cyclophilin) (SCYLP)                                                                                                                                                                                                              | Ppib                             | 19035           | 0.34776 | 0.79148 | 0.10156  | 0.85232 | 22.9052375 | 22.98391   | 22.902515  | 23.047785  |
| Q9CZ04 | COP9 signalosome complex subunit 7a (SGN7a) (Signalosome subunit 7a) (JAB1-containing signalosome subunit 7a)                                                                                                                                                                                                                            | Cops7a Csn7a                     | 26894           | 0.3467  | 0.79221 | 0.10116  | 0.85251 | 19.58784   | 19.6980225 | 19.637775  | 19.89468   |
| Q8BNY6 | Neuronal calcium sensor 1 (NCS-1) (Frequenin homolog)                                                                                                                                                                                                                                                                                    | Ncs1 Freq                        | 14299           | 0.34304 | 0.79476 | 0.099766 | 0.8532  | 21.5975825 | 21.53693   | 21.5161075 | 21.47781   |
| P31938 | Dual specificity mitogen-activated protein kinase kinase 1 (MAP kinase kinase 1) (MAPKK 1) (EC 2.7.12.2) (ERK activator kinase 1) (MAPK/ERK kinase 1) (MEK 1)                                                                                                                                                                            | Map2k1 Mek1 Prkmk1               | 26395           | 0.34338 | 0.79452 | 0.099897 | 0.8532  | 22.9384675 | 23.015085  | 22.9575525 | 22.9757975 |
| Q9CQV6 | Microtubule-associated proteins 1A/1B light chain 3B (Autophagy-related protein LC3 B) (Autophagy-related ubiquitin-like modifier LC3 B) (MAP1 light chain 3-like protein 2) (MAP1A/MAP1B light chain 3 B) (MAP1A/MAP1B LC3 B) (Microtubule-associated protein 1 light chain 3 beta)                                                     | Map1lc3b Map1alc3 Map1lc3        | 67443           | 0.34403 | 0.79407 | 0.10014  | 0.8532  | 21.1193525 | 21.120565  | 21.196585  | 21.085765  |
| P62983 | Ubiquitin-40S ribosomal protein S27a (Ubiquitin carboxyl extension protein 80) [Cleaved into: Ubiquitin; 40S ribosomal protein S27a]                                                                                                                                                                                                     | Rps27a Uba80 Ubcep1              | 78294           | 0.34256 | 0.79509 | 0.099584 | 0.8532  | 27.190275  | 27.2029575 | 27.1855475 | 27.252485  |
| Q8R5C5 | Beta-centractin (Actin-related protein 1B) (ARP1B)                                                                                                                                                                                                                                                                                       | Actr1b                           | 226977          | 0.33757 | 0.79856 | 0.097693 | 0.85632 | 21.2930825 | 21.3509275 | 21.36147   | 21.3841275 |
| P09405 | Nucleolin (Protein C23)                                                                                                                                                                                                                                                                                                                  | Ncl Nuc                          | 17975           | 0.33548 | 0.80002 | 0.096902 | 0.85728 | 21.8692175 | 21.900985  | 21.9180025 | 21.9554425 |
| Q3THE2 | Myosin regulatory light chain 12B (Myosin regulatory light chain 2-B, smooth muscle isoform) (Myosin regulatory light chain 20 kDa) (MLC20) (Myosin regulatory light chain MRLC2)                                                                                                                                                        | Myl12b Mrlec2 Mylc2b             | 67938           | 0.33282 | 0.80187 | 0.095898 | 0.85866 | 22.1660975 | 22.248965  | 22.271075  | 22.305495  |
| P11087 | Collagen alpha-1(I) chain (Alpha-1 type I collagen)                                                                                                                                                                                                                                                                                      | Col1a1 Cola1                     | 12842           | 0.32904 | 0.8045  | 0.094474 | 0.86088 | 17.6527625 | 17.7820475 | 17.946375  | 17.43151   |
| P97797 | Tyrosine-protein phosphatase non-receptor type substrate 1 (SHP substrate 1) (SHPS-1) (Brain Ig-like molecule with tyrosine-based activation motifs) (Bit) (CD172 antigen-like family member A) (Inhibitory receptor SHPS-1) (MyD-1 antigen) (Signal-regulatory protein alpha-1) (Sirp-alpha-1) (mSIRP-alpha1) (p84) (CD antigen CD172a) | Sirpa Bit Myd1 Ptpns1 Shps1 Sirp | 19261           | 0.32804 | 0.8052  | 0.094096 | 0.86102 | 23.5484025 | 23.6746675 | 23.671795  | 23.6628575 |
| P68033 | Actin, alpha cardiac muscle 1 (Alpha-cardiac actin) [Cleaved into: Actin, alpha cardiac muscle 1, intermediate form]                                                                                                                                                                                                                     | Actc1 Actc                       | 11464           | 0.32103 | 0.81009 | 0.091467 | 0.86444 | 23.24343   | 23.15575   | 23.0865125 | 23.06605   |
| Q8CHH9 | Septin-8                                                                                                                                                                                                                                                                                                                                 | Septin8 Kiaa0202 Sept8           | 20362           | 0.32129 | 0.80991 | 0.091564 | 0.86444 | 22.406195  | 22.5592475 | 22.52275   | 22.5325975 |
| Q9D0T1 | NHP2-like protein 1 (Fertilization antigen 1) (FA-1) (High mobility group-like nuclear protein 2 homolog 1) (Sperm-specific antigen 1) (U4/U6.U5 small nuclear ribonucleoprotein SNU13) (U4/U6.U5 tri-snRNP 15.5 kDa protein) [Cleaved into: NHP2-like protein 1, N-terminally processed]                                                | Snu13 Nhp2l1 Ssfa1               | 100862468 20826 | 0.32104 | 0.81009 | 0.091469 | 0.86444 | 21.0049975 | 21.02832   | 21.02662   | 20.9313475 |
| P63242 | Eukaryotic translation initiation factor 5A-1 (eIF-5A-1) (eIF-5A1) (Eukaryotic initiation factor 5A isoform 1) (eIF-5A) (eIF-4D)                                                                                                                                                                                                         | Eif5a                            | 276770          | 0.31836 | 0.81196 | 0.090468 | 0.86582 | 22.6781125 | 22.631975  | 22.628085  | 22.6681925 |
| Q6WVG3 | BTB/POZ domain-containing protein KCTD12 (Pfetin) (Predominantly fetal expressed T1 domain)                                                                                                                                                                                                                                              | Kctd12 Pfet1                     | 239217          | 0.31586 | 0.8137  | 0.089535 | 0.86708 | 21.4156725 | 21.48727   | 21.412785  | 21.36917   |
| P26645 | Myristoylated alanine-rich C-kinase substrate (MARCKS)                                                                                                                                                                                                                                                                                   | Marcks Macs                      | 17118           | 0.31338 | 0.81544 | 0.08861  | 0.86771 | 23.26914   | 23.32491   | 23.3032375 | 23.1801525 |
| P14576 | Signal recognition particle 54 kDa protein (SRP54)                                                                                                                                                                                                                                                                                       | Srp54                            | 24067 665155    | 0.31421 | 0.81486 | 0.088916 | 0.86771 | 18.347555  | 18.765525  | 18.6782275 | 18.7577025 |
| P08551 | Neurofilament light polypeptide (NF-L) (68 kDa neurofilament protein) (Neurofilament triplet L protein)                                                                                                                                                                                                                                  | Nefl Nf68 Nfl                    | 18039           | 0.30851 | 0.81884 | 0.086798 | 0.87034 | 25.483485  | 25.35305   | 25.34114   | 25.4803525 |

|        |                                                                                                                                                                                                                                                                                                                           |                                 |        |         |         |          |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|---------|---------|----------|---------|------------|------------|------------|------------|
| P61082 | NEDD8-conjugating enzyme Ubc12 (EC 2.3.2.-) (NEDD8 carrier protein) (Ubiquitin-conjugating enzyme E2 M)                                                                                                                                                                                                                   | Ube2m Ubc-rs2 Ubc12             | 22192  | 0.30823 | 0.81904 | 0.086693 | 0.87034 | 21.44652   | 21.392455  | 21.4486575 | 21.39947   |
| P00416 | Cytochrome c oxidase subunit 3 (EC 1.9.3.1) (Cytochrome c oxidase polypeptide III)                                                                                                                                                                                                                                        | mt-Co3 COIII Mtco3              | 17710  | 0.30559 | 0.82089 | 0.085717 | 0.87064 | 19.06617   | 19.6977675 | 19.2784075 | 19.1093125 |
| Q01405 | Protein transport protein Sec23A (SEC23-related protein A)                                                                                                                                                                                                                                                                | Sec23a Sec23 Sec23r             | 20334  | 0.30457 | 0.8216  | 0.085338 | 0.87064 | 20.106885  | 20.2721825 | 20.31946   | 20.2100075 |
| P17809 | Solute carrier family 2, facilitated glucose transporter member 1 (Glucose transporter type 1, erythrocyte/brain) (GLUT-1) (GT1)                                                                                                                                                                                          | Slc2a1 Glut1                    | 20525  | 0.30556 | 0.82091 | 0.085706 | 0.87064 | 21.2051625 | 21.268695  | 21.2624975 | 21.2122925 |
| P70414 | Sodium/calcium exchanger 1 (Na <sup>+</sup> )/Ca <sup>2+</sup> -exchange protein 1) (Solute carrier family 8 member 1)                                                                                                                                                                                                    | Slc8a1 Ncx                      | 20541  | 0.30489 | 0.82138 | 0.085455 | 0.87064 | 21.1355525 | 21.14228   | 21.17033   | 21.0774625 |
| P17426 | AP-2 complex subunit alpha-1 (100 kDa coated vesicle protein A) (Adaptor protein complex AP-2 subunit alpha-1) (Adaptor-related protein complex 2 subunit alpha-1) (Alpha-adaptin A) (Alpha1-adaptin) (Clathrin assembly protein complex 2 alpha-A large chain) (Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit) | Ap2a1 Adtaa Clapa1              | 11771  | 0.3024  | 0.82313 | 0.084534 | 0.87165 | 24.935815  | 24.924885  | 24.9688925 | 24.9248975 |
| Q8R366 | Immunoglobulin superfamily member 8 (IgSF8) (CD81 partner 3) (Glu-Trp-Ile EWI motif-containing protein 2) (EWI-2) (Keratinocyte-associated transmembrane protein 4) (KCT-4) (Prostaglandin regulatory-like protein) (PGRL) (CD antigen CD316)                                                                             | Igsf8 Ewi2 Kct4 Pgrl            | 140559 | 0.2945  | 0.82866 | 0.081626 | 0.87689 | 23.02631   | 22.9482525 | 22.9640675 | 22.94761   |
| P60761 | Neurogranin (Ng) (RC3) [Cleaved into: NEUG(55-78)]                                                                                                                                                                                                                                                                        | Nrgn                            | 64011  | 0.28772 | 0.83341 | 0.079142 | 0.88077 | 22.678355  | 22.7197975 | 22.4658625 | 22.14665   |
| Q8VD37 | SH3-containing GRB2-like protein 3-interacting protein 1 (Endophilin-3-interacting protein)                                                                                                                                                                                                                               | Sgip1                           | 73094  | 0.28762 | 0.83348 | 0.079107 | 0.88077 | 21.2626025 | 21.34778   | 21.303525  | 21.2895775 |
| Q62167 | ATP-dependent RNA helicase DDX3X (EC 3.6.4.13) (D1Pas1-related sequence 2) (DEAD box RNA helicase DEAD3) (mDEAD3) (DEAD box protein 3, X-chromosomal) (Embryonic RNA helicase)                                                                                                                                            | Ddx3x D1Pas1-rs2 Ddx3 Dead3 Erh | 13205  | 0.2824  | 0.83713 | 0.077205 | 0.88309 | 21.3843175 | 21.3936425 | 21.4051575 | 21.415315  |
| Q99MN9 | Propionyl-CoA carboxylase beta chain, mitochondrial (PCCase subunit beta) (EC 6.4.1.3) (Propanoyl-CoA:carbon dioxide ligase subunit beta)                                                                                                                                                                                 | Pccb                            | 66904  | 0.28283 | 0.83684 | 0.07736  | 0.88309 | 21.3740525 | 21.3782525 | 21.30188   | 21.29359   |
| Q9DCD0 | 6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)                                                                                                                                                                                                                                                           | Pgd                             | 110208 | 0.28202 | 0.8374  | 0.077068 | 0.88309 | 21.393755  | 21.41152   | 21.412645  | 21.48918   |
| P00493 | Hypoxanthine-guanine phosphoribosyltransferase (HGPRT) (HGPRTase) (EC 2.4.2.8) (HPRT B)                                                                                                                                                                                                                                   | Hprt1 Hprt                      | 15452  | 0.27991 | 0.83888 | 0.0763   | 0.88348 | 22.44554   | 22.481055  | 22.52067   | 22.4899525 |
| Q9Z1W9 | STE20/SPS1-related proline-alanine-rich protein kinase (Ste-20-related kinase) (EC 2.7.11.1) (Serine/threonine-protein kinase 39)                                                                                                                                                                                         | Stk39 Spak                      | 53416  | 0.27984 | 0.83893 | 0.076276 | 0.88348 | 19.28176   | 19.226455  | 19.2022775 | 19.2056575 |
| P40240 | CD9 antigen (CD antigen CD9)                                                                                                                                                                                                                                                                                              | Cd9                             | 12527  | 0.27413 | 0.84293 | 0.07421  | 0.88708 | 20.8642075 | 20.742035  | 20.839485  | 20.705845  |
| Q9CQQ7 | ATP synthase F(0) complex subunit B1, mitochondrial (ATP synthase peripheral stalk-membrane subunit b) (ATP synthase subunit b) (ATPase subunit b)                                                                                                                                                                        | Atp5pb Atp5f1                   | 11950  | 0.26868 | 0.84675 | 0.072247 | 0.89048 | 24.675705  | 24.6822525 | 24.6225125 | 24.62884   |
| Q9D164 | FXFD domain-containing ion transport regulator 6 (PLM-like protein) (Phosphohippolin)                                                                                                                                                                                                                                     | Fxyd6 Plp                       | 59095  | 0.26374 | 0.8502  | 0.070477 | 0.8935  | 20.13289   | 19.7484175 | 19.978865  | 20.092495  |
| P24549 | Retinal dehydrogenase 1 (RALDH 1) (RALDH1) (EC 1.2.1.-) (EC 1.2.1.36) (ALDH-E1) (ALDHII) (Aldehyde dehydrogenase family 1 member A1) (Aldehyde dehydrogenase, cytosolic)                                                                                                                                                  | Aldh1a1 Ahd-2 Ahd2 Aldh1        | 11668  | 0.26043 | 0.85252 | 0.069296 | 0.8938  | 19.7179025 | 19.5328775 | 19.5892125 | 19.6205775 |
| O08553 | Dihydropyrimidinase-related protein 2 (DRP-2) (Unc-33-like phosphoprotein 2) (ULIP-2)                                                                                                                                                                                                                                     | Dpysl2 Crmp2 Ulip2              | 12934  | 0.26216 | 0.85131 | 0.069912 | 0.8938  | 28.486345  | 28.5143575 | 28.53919   | 28.4953725 |
| Q61171 | Peroxiredoxin-2 (EC 1.11.1.15) (Thiol-specific antioxidant protein) (TSA) (Thioredoxin                                                                                                                                                                                                                                    | Prdx2 Tdpx1 Tpx                 | 21672  | 0.26023 | 0.85266 | 0.069226 | 0.8938  | 24.823985  | 24.8506025 | 24.86521   | 24.8586225 |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |        |         |         |          |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|---------|---------|----------|---------|------------|------------|------------|------------|
|        | peroxidase 1) (Thioredoxin-dependent peroxide reductase 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |        |         |         |          |         |            |            |            |            |
| Q9R0P5 | Destrin (Actin-depolymerizing factor) (ADF) (Sid 23)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Dstn Dsn Sid23   | 56431  | 0.25999 | 0.85282 | 0.069141 | 0.8938  | 23.5498925 | 23.583215  | 23.52564   | 23.56926   |
| Q791T5 | Mitochondrial carrier homolog 1 (Mitochondrial carrier-like protein 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mtch1            | 56462  | 0.25819 | 0.85408 | 0.0685   | 0.89389 | 21.0648075 | 21.003135  | 21.0332725 | 20.9764875 |
| Q9DCH4 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |        | 0.25846 | 0.8539  | 0.068593 | 0.89389 | 18.124325  | 18.4569275 | 17.8767275 | 17.961275  |
| Q8R111 | Cytochrome b-c1 complex subunit 9 (Complex III subunit 9) (Complex III subunit X) (Cytochrome c1 non-heme 7 kDa protein) (Ubiquinol-cytochrome c reductase complex 7.2 kDa protein)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Uqcr10           | 66152  | 0.25619 | 0.85548 | 0.067789 | 0.89474 | 22.6349    | 22.547375  | 22.5816875 | 22.62805   |
| P70398 | Probable ubiquitin carboxyl-terminal hydrolase FAF-X (EC 3.4.19.12) (Deubiquitinating enzyme FAF-X) (Fat facets homolog) (Fat facets protein-related, X-linked) (Ubiquitin carboxyl-terminal hydrolase FAM) (Ubiquitin thioesterase FAF-X) (Ubiquitin-specific protease 9, X chromosome) (Ubiquitin-specific-processing protease FAF-X)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Usp9x FafI Fam   | 22284  | 0.25104 | 0.85908 | 0.065967 | 0.89789 | 20.5844975 | 20.3794875 | 20.480615  | 20.5049225 |
| P12023 | Amyloid-beta A4 protein (ABPP) (APP) (Alzheimer disease amyloid A4 protein homolog) (Amyloid precursor protein) (Amyloid-beta precursor protein) (Amyloidogenic glycoprotein) (AG) (Cleaved into: N-APP; Soluble APP-alpha (S-APP-alpha); Soluble APP-beta (S-APP-beta); C99 (APP-C99) (Beta-secretase C-terminal fragment) (Beta-CTF); Amyloid-beta protein 42 (Abeta42) (Beta-APP42); Amyloid-beta protein 40 (Abeta40) (Beta-APP40); C83 (Alpha-secretase C-terminal fragment) (Alpha-CTF); P3(42); P3(40); C80; Gamma-secretase C-terminal fragment 59 (APP-C59) (Amyloid intracellular domain 59) (AID(59)) (Gamma-CTF(59)); Gamma-secretase C-terminal fragment 57 (APP-C57) (Amyloid intracellular domain 57) (AID(57)) (Gamma-CTF(57)); Gamma-secretase C-terminal fragment 50 (Amyloid intracellular domain 50) (AID(50)) (Gamma-CTF(50)); C31] | App              | 11820  | 0.2482  | 0.86106 | 0.064966 | 0.89934 | 20.214185  | 20.1832125 | 20.196755  | 20.2543125 |
| P46638 | Ras-related protein Rab-11B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rab11b           | 19326  | 0.24394 | 0.86403 | 0.063471 | 0.9015  | 22.6108425 | 22.6321175 | 22.6246625 | 22.66551   |
| P99024 | Tubulin beta-5 chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tubb5            | 22154  | 0.23977 | 0.86694 | 0.062013 | 0.9015  | 24.9286175 | 24.9257225 | 24.938825  | 24.9688475 |
| O88343 | Electrogenic sodium bicarbonate cotransporter 1 (Sodium bicarbonate cotransporter) (Na <sup>+</sup> )/HCO <sub>3</sub> <sup>-</sup> cotransporter) (Solute carrier family 4 member 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Slc4a4 Nbc1 Nbc1 | 54403  | 0.2393  | 0.86726 | 0.061849 | 0.9015  | 22.9413675 | 22.95245   | 22.887925  | 22.9039325 |
| Q8R317 | Ubiquitin-1 (Protein linking IAP with cytoskeleton 1) (PLIC-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ubqln1 Plc1      | 56085  | 0.24121 | 0.86593 | 0.062516 | 0.9015  | 19.9843475 | 19.9084625 | 19.984315  | 19.8741    |
| Q9D1D4 | Transmembrane emp24 domain-containing protein 10 (21 kDa transmembrane-trafficking protein) (Transmembrane protein Tmp21) (p24 family protein delta-1) (p24delta1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Tmed10 Tmp21     | 68581  | 0.23983 | 0.86689 | 0.062035 | 0.9015  | 19.987285  | 19.8654725 | 19.88185   | 19.8783925 |
| Q8BU30 | Isoleucine-tRNA ligase, cytoplasmic (EC 6.1.1.5) (Isoleucyl-tRNA synthetase) (IRS) (IleRS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Iars1 Iars       | 105148 | 0.24231 | 0.86517 | 0.062898 | 0.9015  | 18.99611   | 19.114965  | 19.1270875 | 19.0639625 |
| Q03734 | Serine protease inhibitor A3M (Serpin A3M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Serpina3m        | 20717  | 0.24007 | 0.86672 | 0.062119 | 0.9015  | 17.6897075 | 18.2327025 | 17.554705  | 17.9670525 |
| B2RSH2 | Guanine nucleotide-binding protein G(i) subunit alpha-1 (Adenylate cyclase-inhibiting G alpha protein)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Gnai1 Gnai-1     | 14677  | 0.23743 | 0.86857 | 0.061197 | 0.90224 | 22.9591025 | 23.023925  | 22.9580875 | 22.9614575 |

|        |                                                                                                                                                                                                                          |                     |                    |         |         |          |         |            |            |            |            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|---------|---------|----------|---------|------------|------------|------------|------------|
| Q64433 | 10 kDa heat shock protein, mitochondrial (Hsp10) (10 kDa chaperonin) (Chaperonin 10) (CPN10)                                                                                                                             | Hspe1               | 15528              | 0.22984 | 0.87384 | 0.05857  | 0.9071  | 24.2313775 | 24.19514   | 24.1984625 | 24.2029375 |
| P14733 | Lamin-B1                                                                                                                                                                                                                 | Lmnb1               | 16906              | 0.22651 | 0.87614 | 0.057425 | 0.9086  | 21.094985  | 21.0732875 | 21.1398    | 21.0357175 |
| P63330 | Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform (PP2A-alpha) (EC 3.1.3.16)                                                                                                                       | Ppp2ca              | 19052              | 0.22604 | 0.87647 | 0.057264 | 0.9086  | 20.267925  | 20.19728   | 20.3408175 | 20.24262   |
| P53994 | Ras-related protein Rab-2A                                                                                                                                                                                               | Rab2a Rab2          | 59021              | 0.22117 | 0.87984 | 0.055596 | 0.91148 | 23.7087625 | 23.7337925 | 23.77081   | 23.7561825 |
| P51881 | ADP/ATP translocase 2 (ADP/ATP carrier protein 2) (Adenine nucleotide translocator 2) (ANT 2) (Solute carrier family 25 member 5) [Cleared into: ADP/ATP translocase 2, N-terminally processed]                          | Slc25a5 Ant2        | 11740              | 0.22003 | 0.88063 | 0.055208 | 0.91167 | 25.718035  | 25.7725625 | 25.7252725 | 25.752675  |
| Q9CY58 | Plasminogen activator inhibitor 1 RNA-binding protein (PAI1 RNA-binding protein 1) (PAI-RBP1) (SERPINE1 mRNA-binding protein 1)                                                                                          | Serbp1 Pairbp1      | 66870              | 0.21723 | 0.88256 | 0.054257 | 0.91305 | 20.526285  | 20.4842925 | 20.57399   | 20.62193   |
| P24527 | Leukotriene A-4 hydrolase (LTA-4 hydrolase) (EC 3.3.2.6) (Leukotriene A(4) hydrolase)                                                                                                                                    | Lta4h               | 16993              | 0.21268 | 0.88569 | 0.052719 | 0.91535 | 21.2056875 | 21.23765   | 21.26198   | 21.284605  |
| Q3TXS7 | 26S proteasome non-ATPase regulatory subunit 1 (26S proteasome regulatory subunit RPN2) (26S proteasome regulatory subunit S1)                                                                                           | Psmc1               | 70247              | 0.21227 | 0.88597 | 0.052579 | 0.91535 | 19.9254725 | 20.0493775 | 20.0878175 | 19.9831725 |
| P70704 | Phospholipid-transporting ATPase 1A (EC 7.6.2.1) (ATPase class I type 8A member 1) (Chromaffin granule ATPase II) (P4-ATPase flippase complex alpha subunit ATP8A1)                                                      | Atp8a1 Atpc1        | 11980              | 0.21018 | 0.88741 | 0.051876 | 0.91621 | 21.9488325 | 22.00128   | 22.0590625 | 22.0799    |
| Q9D8B4 | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 11 (Complex I-B14.7) (CI-B14.7) (NADH-ubiquinone oxidoreductase subunit B14.7)                                                                                | Ndufa11             |                    | 0.20789 | 0.88898 | 0.051107 | 0.91667 | 20.904905  | 20.9029175 | 21.0044875 | 20.9062425 |
| P05201 | Aspartate aminotransferase, cytoplasmic (cAspAT) (EC 2.6.1.1) (EC 2.6.1.3) (Cysteine aminotransferase, cytoplasmic) (Cysteine transaminase, cytoplasmic) (cCAT) (Glutamate oxaloacetate transaminase 1) (Transaminase A) | Got1                | 14718              | 0.2069  | 0.88966 | 0.050776 | 0.91667 | 26.528695  | 26.54573   | 26.56491   | 26.540885  |
| P62869 | Elongin-B (EloB) (Elongin 18 kDa subunit) (RNA polymerase II transcription factor SIII subunit B) (SIII p18) (Transcription elongation factor B polypeptide 2)                                                           | Elob Tceb2          | 67673              | 0.20708 | 0.88953 | 0.050838 | 0.91667 | 20.746945  | 20.7555325 | 20.707865  | 20.72223   |
| Q9WTP7 | GTP:AMP phosphotransferase AK3, mitochondrial (EC 2.7.4.10) (Adenylate kinase 3) (AK 3) (Adenylate kinase 3 alpha-like 1)                                                                                                | Ak3 Ak3l Ak3l1 Ak3l | 56248              | 0.20305 | 0.8923  | 0.049491 | 0.91877 | 21.182105  | 21.19128   | 21.1911425 | 21.071525  |
| Q99JR1 | Sideroflexin-1                                                                                                                                                                                                           | Sfxn1               | 14057              | 0.20184 | 0.89312 | 0.049089 | 0.919   | 21.522165  | 21.5482375 | 21.5048175 | 21.5040325 |
| Q9D855 | Cytochrome b-c1 complex subunit 7 (Complex III subunit 7) (Complex III subunit VII) (Ubiquinol-cytochrome c reductase complex 14 kDa protein)                                                                            | Uqcrb               |                    | 0.19803 | 0.89572 | 0.047827 | 0.92047 | 23.3720125 | 23.355225  | 23.366405  | 23.4006025 |
| P02802 | Metallothionein-1 (MT-1) (Metallothionein-I) (MT-I)                                                                                                                                                                      | Mt1                 | 17748              | 0.19798 | 0.89575 | 0.047813 | 0.92047 | 19.6392575 | 19.72689   | 19.484085  | 19.4041875 |
| Q9CQC7 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 (Complex I-B15) (CI-B15) (NADH-ubiquinone oxidoreductase B15 subunit)                                                                                        | Ndufb4              | 100042503<br>68194 | 0.19222 | 0.89967 | 0.045917 | 0.92387 | 22.16079   | 22.13226   | 22.1584475 | 22.1117125 |
| P19157 | Glutathione S-transferase P 1 (Gst P1) (EC 2.5.1.18) (GST YF-YF) (GST class-pi) (GST-piB) (Preadipocyte growth factor)                                                                                                   | Gstp1 Gstpib        | 14870              | 0.18754 | 0.90283 | 0.044392 | 0.9265  | 24.2376125 | 24.2540975 | 24.2272075 | 24.30209   |
| P97333 | Neuropilin-1 (A5 protein) (CD antigen CD304)                                                                                                                                                                             | Nrp1 Nrp            | 18186              | 0.18577 | 0.90403 | 0.043815 | 0.92711 | 18.53438   | 18.514625  | 18.709045  | 18.4992175 |
| Q91V61 | Sideroflexin-3                                                                                                                                                                                                           | Sfxn3               | 94280              | 0.18228 | 0.90638 | 0.042688 | 0.92834 | 23.981885  | 23.9627    | 24.0037125 | 23.9718375 |
| Q8CIB5 | Fermitin family homolog 2 (Kindlin-2) (Pleckstrin homology domain-containing family C member 1)                                                                                                                          | Fermt2 Plekhc1      | 218952             | 0.18217 | 0.90646 | 0.042653 | 0.92834 | 19.228705  | 19.2421    | 19.22375   | 19.289425  |

|        |                                                                                                                                                                                                                                                                     |                       |        |          |         |          |         |            |            |            |            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|----------|---------|----------|---------|------------|------------|------------|------------|
| Q9ESN6 | Tripartite motif-containing protein 2 (EC 2.3.2.27) (E3 ubiquitin-protein ligase TRIM2) (Neural activity-related RING finger protein) (RING-type E3 ubiquitin transferase TRIM2)                                                                                    | Trim2 Kiaa0517 Narf   | 80890  | 0.17884  | 0.90869 | 0.041585 | 0.93    | 20.9954525 | 21.0309175 | 21.0610525 | 21.0287875 |
| P21278 | Guanine nucleotide-binding protein subunit alpha-11 (G alpha-11) (G-protein subunit alpha-11)                                                                                                                                                                       | Gna11 Gna-11          | 14672  | 0.15874  | 0.92201 | 0.035264 | 0.94287 | 20.432995  | 20.43077   | 20.44015   | 20.3831425 |
| Q922H2 | [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3, mitochondrial (EC 2.7.11.2) (Pyruvate dehydrogenase kinase isoform 3)                                                                                                                              | Pdk3                  | 236900 | 0.158    | 0.92249 | 0.035038 | 0.94287 | 19.83789   | 19.83052   | 19.7878    | 19.77622   |
| Q9CZC8 | Secernin-1                                                                                                                                                                                                                                                          | Scrn1 Kiaa0193        | 69938  | 0.15387  | 0.92518 | 0.033772 | 0.94499 | 22.67568   | 22.66774   | 22.6563725 | 22.681365  |
| Q8C437 | PEX5-related protein (PEX2-related protein) (PEX5-like protein) (Peroxin-5-related protein) (Tetratricopeptide repeat-containing Rab8b-interacting protein) (Pex5Rp) (TRIP8b)                                                                                       | Pex5l Pex2 Pex5r Pxr2 | 58869  | 0.15008  | 0.92764 | 0.032619 | 0.94687 | 18.702495  | 18.6178525 | 18.4632675 | 18.3733725 |
| B2RXA1 | PI-PLC X domain-containing protein 2                                                                                                                                                                                                                                | Plcxd2                | 433022 | 0.14418  | 0.93144 | 0.030845 | 0.95011 | 20.878975  | 20.7952475 | 20.796095  | 20.8143325 |
| P48758 | Carbonyl reductase [NADPH] 1 (EC 1.1.1.184) (15-hydroxyprostaglandin dehydrogenase [NADP(+)] (EC 1.1.1.197) (NADPH-dependent carbonyl reductase 1) (Prostaglandin 9-ketoreductase) (Prostaglandin-E(2) 9-reductase) (EC 1.1.1.189)                                  | Cbr1 Cbr              | 12408  | 0.14032  | 0.9339  | 0.029698 | 0.95191 | 22.914235  | 22.91664   | 22.93821   | 22.9072875 |
| Q9D892 | Inosine triphosphate pyrophosphatase (ITPase) (Inosine triphosphatase) (EC 3.6.1.9) (Non-canonical purine NTP pyrophosphatase) (Non-standard purine NTP pyrophosphatase) (Nucleoside-triphosphate diphosphatase) (Nucleoside-triphosphate pyrophosphatase) (NTPase) | Itpa                  | 16434  | 0.13944  | 0.93446 | 0.029439 | 0.95191 | 20.5300775 | 20.5962425 | 20.594655  | 20.6273175 |
| P40237 | CD82 antigen (C33 antigen) (IA4) (Inducible membrane protein R2) (Metastasis suppressor Kangai-1 homolog) (CD antigen CD82)                                                                                                                                         | Cd82 Kai1             | 12521  | 0.1378   | 0.9355  | 0.028956 | 0.95212 | 21.0146675 | 20.9848925 | 20.889295  | 20.91934   |
| Q3UGR5 | Haloacid dehalogenase-like hydrolase domain-containing protein 2                                                                                                                                                                                                    | Hdh2                  | 76987  | 0.13716  | 0.93591 | 0.028767 | 0.95212 | 21.1284875 | 21.0712575 | 21.1228725 | 21.06722   |
| Q8JZU2 | Tricarboxylate transport protein, mitochondrial (Citrate transport protein) (CTP) (Solute carrier family 25 member 1) (Tricarboxylate carrier protein)                                                                                                              | Slc25a1               | 13358  | 0.12626  | 0.94273 | 0.025612 | 0.95842 | 19.31757   | 19.25683   | 19.3021625 | 19.3279625 |
| P62880 | Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 (G protein subunit beta-2) (Transducin beta chain 2)                                                                                                                                               | Gnb2                  | 14693  | 0.12453  | 0.9438  | 0.025122 | 0.95887 | 24.5085825 | 24.533215  | 24.54736   | 24.5335225 |
| Q9CX34 | Protein SGT1 homolog (Suppressor of G2 allele of SKP1 homolog)                                                                                                                                                                                                      | Sugt1                 | 67955  | 0.12077  | 0.94611 | 0.024058 | 0.96058 | 20.5076425 | 20.491855  | 20.532935  | 20.496095  |
| P68368 | Tubulin alpha-4A chain (Alpha-tubulin 4) (Alpha-tubulin isotype M-alpha-4) (Tubulin alpha-4 chain)                                                                                                                                                                  | Tuba4a Tuba4          | 22145  | 0.11792  | 0.94784 | 0.023263 | 0.96106 | 26.8300925 | 26.8898425 | 26.8874775 | 26.8499275 |
| Q9QZQ8 | Core histone macro-H2A.1 (Histone macroH2A1) (mH2A1) (H2A.y) (H2A/y)                                                                                                                                                                                                | Macroh2a1 H2afy       | 26914  | 0.11848  | 0.9475  | 0.02342  | 0.96106 | 21.60403   | 21.64233   | 21.5942375 | 21.6592625 |
| Q8K183 | Pyridoxal kinase (EC 2.7.1.35) (Pyridoxine kinase)                                                                                                                                                                                                                  | Pdk Pkh               | 216134 | 0.1082   | 0.95368 | 0.020599 | 0.96633 | 23.08564   | 23.066175  | 23.0487925 | 23.066035  |
| Q91VM9 | Inorganic pyrophosphatase 2, mitochondrial (EC 3.6.1.1) (Pyrophosphate phospho-hydrolase 2) (PPase 2)                                                                                                                                                               | Ppa2                  | 74776  | 0.087699 | 0.96544 | 0.015276 | 0.97695 | 19.830515  | 19.8677325 | 19.8196325 | 19.78746   |
| Q8BL97 | Serine/arginine-rich splicing factor 7 (Splicing factor, arginine/serine-rich 7)                                                                                                                                                                                    | Srsf7 Sfrs7           | 225027 | 0.088046 | 0.96525 | 0.015362 | 0.97695 | 21.0721625 | 21.056     | 21.1015125 | 21.0234225 |
| Q9CQH3 | NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 5, mitochondrial (Complex I-SGDH) (CI-SGDH) (NADH-ubiquinone oxidoreductase SGD subunit)                                                                                                                  | Ndufb5                | 66046  | 0.076806 | 0.97134 | 0.012631 | 0.98114 | 22.67337   | 22.6352425 | 22.6407325 | 22.6641    |
| P62320 | Small nuclear ribonucleoprotein Sm D3 (Sm-D3) (snRNP core protein D3)                                                                                                                                                                                               | Snrpd3                | 67332  | 0.076495 | 0.9715  | 0.012558 | 0.98114 | 20.6909675 | 20.6455    | 20.6847325 | 20.6720175 |

|        |                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |        |           |         |            |         |            |            |            |            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------|-----------|---------|------------|---------|------------|------------|------------|------------|
| P70663 | SPARC-like protein 1 (Extracellular matrix protein 2) (Matrix glycoprotein Sc1)                                                                                                                                                                                                                                                                                                                    | Sparcl1 Ecm2 Sc1                 | 13602  | 0.077714  | 0.97085 | 0.012846   | 0.98114 | 18.770045  | 18.83408   | 18.916805  | 18.7463825 |
| P05202 | Aspartate aminotransferase, mitochondrial (mAspAT) (EC 2.6.1.1) (EC 2.6.1.7) (Fatty acid-binding protein) (FABP-1) (Glutamate oxaloacetate transaminase 2) (Kynurenine aminotransferase 4) (Kynurenine aminotransferase IV) (Kynurenine--oxoglutarate transaminase 4) (Kynurenine--oxoglutarate transaminase IV) (Plasma membrane-associated fatty acid-binding protein) (FABPpm) (Transaminase A) | Got2 Got-2                       | 14719  | 0.074231  | 0.97269 | 0.012026   | 0.98149 | 26.7814425 | 26.7709    | 26.7823225 | 26.76111   |
| Q8VED9 | Galectin-related protein (Galectin-related protein A) (Lectin galactoside-binding-like protein A)                                                                                                                                                                                                                                                                                                  | Lgalsl Grpa Lgalsla              | 216551 | 0.07338   | 0.97313 | 0.011829   | 0.98149 | 21.0993575 | 21.0661025 | 21.0965525 | 21.06263   |
| Q03265 | ATP synthase subunit alpha, mitochondrial (ATP synthase F1 subunit alpha)                                                                                                                                                                                                                                                                                                                          | Atp5f1a Atp5a1                   | 11946  | 0.069931  | 0.97491 | 0.011036   | 0.98198 | 28.2688325 | 28.27907   | 28.269915  | 28.27969   |
| O08919 | Numb-like protein                                                                                                                                                                                                                                                                                                                                                                                  | Numb1 Nbl                        | 18223  | 0.070051  | 0.97485 | 0.011063   | 0.98198 | 20.8565975 | 21.003495  | 21.067175  | 20.989295  |
| Q91YR1 | Twinfilin-1 (Protein A6)                                                                                                                                                                                                                                                                                                                                                                           | Twf1 Ptk9                        | 19230  | 0.063069  | 0.97835 | 0.0095069  | 0.9848  | 20.47486   | 20.494575  | 20.43859   | 20.5085875 |
| Q9WV55 | Vesicle-associated membrane protein-associated protein A (VAMP-A) (VAMP-associated protein A) (VAP-A) (33 kDa VAMP-associated protein) (VAP-33)                                                                                                                                                                                                                                                    | Vapa Vap33                       | 30960  | 0.057288  | 0.98114 | 0.008271   | 0.98695 | 22.5404975 | 22.5309475 | 22.5690925 | 22.545615  |
| Q8C0L0 | Thioredoxin-related transmembrane protein 4 (Thioredoxin domain-containing protein 13)                                                                                                                                                                                                                                                                                                             | Tmx4 D2Bwg1356e Kiaa1162 Txndc13 | 52837  | 0.055801  | 0.98184 | 0.0079613  | 0.98701 | 19.7978925 | 19.8453425 | 19.779025  | 19.77908   |
| P00158 | Cytochrome b (Complex III subunit 3) (Complex III subunit III) (Cytochrome b-c1 complex subunit 3) (Ubiquinol-cytochrome-c reductase complex cytochrome b subunit)                                                                                                                                                                                                                                 | Mt-Cyb Cob Cytb mt-Cytb Mtcyb    | 17711  | 0.048637  | 0.9851  | 0.006519   | 0.98964 | 20.3582625 | 20.3774025 | 20.39368   | 20.415625  |
| Q9ER00 | Syntaxin-12                                                                                                                                                                                                                                                                                                                                                                                        | Stx12                            | 100226 | 0.040465  | 0.98859 | 0.0049832  | 0.99249 | 21.0170775 | 21.024435  | 21.0066925 | 21.0273525 |
| Q9R1P1 | Proteasome subunit beta type-3 (EC 3.4.25.1) (Proteasome chain 13) (Proteasome component C10-II) (Proteasome theta chain)                                                                                                                                                                                                                                                                          | Psmb3                            | 26446  | 0.036152  | 0.99032 | 0.0042246  | 0.99357 | 20.58314   | 20.6655425 | 20.6249075 | 20.6267875 |
| O89053 | Coronin-1A (Coronin-like protein A) (Clipin-A) (Coronin-like protein p57) (Tryptophan aspartate-containing coat protein) (TACO)                                                                                                                                                                                                                                                                    | Coro1a Coro1                     | 12721  | 0.033892  | 0.99119 | 0.0038426  | 0.99379 | 24.1433825 | 24.1585175 | 24.1281675 | 24.1509425 |
| Q9CR51 | V-type proton ATPase subunit G 1 (V-ATPase subunit G 1) (V-ATPase 13 kDa subunit 1) (Vacuolar proton pump subunit G 1)                                                                                                                                                                                                                                                                             | Atp6v1g1 Atp6g1                  | 66290  | 0.028573  | 0.99314 | 0.0029892  | 0.99428 | 20.145765  | 20.1475175 | 20.1260825 | 20.1667225 |
| P83940 | Elongin-C (EloC) (Elongin 15 kDa subunit) (RNA polymerase II transcription factor SIII subunit C) (SIII p15) (Stromal membrane-associated protein SMAP1B homolog) (Transcription elongation factor B polypeptide 1)                                                                                                                                                                                | Eloc Tceb1                       | 67923  | 0.029243  | 0.9929  | 0.003093   | 0.99428 | 20.8311775 | 20.792655  | 20.80854   | 20.8202875 |
| Q99LY9 | NADH dehydrogenase [ubiquinone] iron-sulfur protein 5 (Complex I-15 kDa) (CI-15 kDa) (NADH-ubiquinone oxidoreductase 15 kDa subunit)                                                                                                                                                                                                                                                               | Ndufs5                           | 595136 | 0.027162  | 0.99363 | 0.0027742  | 0.99428 | 22.140165  | 22.12744   | 22.150495  | 22.144735  |
| Q9CQD1 | Ras-related protein Rab-5A (EC 3.6.5.2)                                                                                                                                                                                                                                                                                                                                                            | Rab5a nnyRab5a                   | 271457 | 0.0040225 | 0.99963 | 0.00016176 | 0.99963 | 22.782405  | 22.77544   | 22.775515  | 22.777865  |