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**Metabolic dysfunction is restricted to the sciatic nerve in experimental diabetic neuropathy**

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**Abstract**

High glucose levels in the peripheral nervous system (PNS) have been implicated in the pathogenesis of diabetic neuropathy (DN). However our understanding of the molecular mechanisms which cause the marked distal pathology is incomplete. Here we performed a comprehensive, system-wide analysis of the PNS of a rodent model of DN. We integrated proteomics and metabolomics from the sciatic nerve (SN), the lumbar 4/5 dorsal root ganglia (DRG) and the trigeminal ganglia (TG) of streptozotocin-diabetic and healthy control rats. Even though all tissues showed a dramatic increase in glucose and polyol pathway intermediates in diabetes, there was a striking upregulation of mitochondrial oxidative phosphorylation and perturbation of lipid metabolism in the distal SN that was not present in the corresponding cell bodies of the DRG or the cranial TG. This suggests that the most severe molecular consequences of diabetes in the nervous system present in the SN, the region most affected by neuropathy. Such spatial metabolic dysfunction suggests a failure of energy homeostasis and/or oxidative stress specifically in the distal axon/Schwann cell-rich SN. These data provide a detailed molecular description of the distinct compartmental effects of diabetes on the PNS which could underlie the distal-proximal distribution of pathology.

## Introduction

Approximately 30-50% of patients with diabetes will develop diabetic neuropathy (DN), which typically presents with sensory symptoms in a distal ‘glove-and-stocking’ distribution (1; 2). DN is a poorly understood complication of diabetes and there are currently few treatments available (3). Raised glucose has long been thought to instigate pathology in DN, either through direct neurotoxicity, or from the activation of secondary pathways (4; 5). However, exactly how these pathways cause nerve conduction velocity deficits, neuropathic pain, distal axonopathy and numbness in the extremities continues to elude, and many clinical trials aimed at specific targets have failed due to lack of efficacy (3).

There is crossover between proposed pathogenic pathways in DN but how these interact is unclear. This question can be approached by implementing extensive ‘-omic’ technologies to measure many transcripts, proteins or metabolites in parallel. Gene microarrays were amongst the first of these technologies to be used and transcriptomic analyses have been performed on tissues such as the dorsal root ganglia (DRG) from streptozotocin (STZ)-diabetic rats compared to healthy controls (6), the sciatic nerve (SN) of *db/db* mice compared to those from *db/+* mice (7) and sural nerve biopsies from human patients whose neuropathy progressed over a year compared to those whose neuropathy did not (based on myelinated fibre density loss) (8). Common changes across these gene array studies highlight altered carbohydrate and lipid metabolism.

Since gene transcript levels do not always correlate with protein expression due to varying transcriptional/translational control, these studies have been expanded by the measurement of proteins through proteomics, using a cell culture-based method known as stable isotope labelling by amino acids in cell culture (SILAC). In neurons derived from the DRG of

diabetic rats (22 weeks post-STZ) compared to healthy controls and maintained in culture with high/normal glucose media respectively, there was significant downregulation of proteins related to oxidative phosphorylation and the tricarboxylic (TCA) cycle in diabetes/high glucose (9). In contrast, Schwann cells derived from the SN of neonatal rats and cultured in high glucose for 2, 6 or 16 days compared to normal glucose showed upregulation of oxidative phosphorylation and the TCA cycle at all time-points (10). Both findings strongly point to metabolic dysfunction and mitochondrial impairment occurring in DN.

These studies describe the effects of high glucose on a single cell type in culture, but do not replicate the multifaceted *in vivo* environment. The nervous system exists as a complex arrangement of cell types (encompassing neurons, glia, endothelial cells and more) and therefore primary single cell culture models are not able to address tissue-wide changes in diabetes and the distal-proximal presentation of DN. Tissue measurements address such limitations and targeted metabolomic analysis of the sural nerve, SN and DRG of *db/db* mice compared to *db/+* mice found that the metabolic intermediates of glycolysis and the TCA cycle are significantly downregulated in the sural nerve and SN, but not in the DRG in diabetes (11).

Targeted analyses are, however, based on *a priori* assumptions and therefore there is sufficient scope for a re-assessment of established theories and the generation of new targets by analysing proteins and metabolites in multiple nervous tissues alongside one another in an unbiased and holistic analysis. Since DN is a complex, multifactorial process with not all sites of the PNS affected equally, we combined proteomic and metabolomic analyses of three different regions of the PNS from control and diabetic rats (12 weeks post-STZ). The

integration of both technologies presented here provides novel insights into the distal-proximal pathogenesis of DN and these data enable generation of new therapeutic targets.

## Research Design and Methods

All reagents were purchased from Sigma-Aldrich unless stated.

### Animals

All animal experiments were carried out in accordance with the UK Animal (Scientific Procedures) Act 1986 and institutional ethical policies. Adult male Sprague-Dawley rats (initial weight  $370 \pm 19$  g, mean  $\pm$  SD; Charles River) were randomly assigned to treatment groups and injected intraperitoneally with 55 mg/kg streptozotocin (in 0.9% sodium chloride;  $n=16$ ) or an equivalent volume of saline ( $n=14$ ) following an overnight fast. Hyperglycemia was confirmed 3 days post-STZ, and animals housed in groups of 2-3 under a 12 hour light-dark cycle with *ad libitum* access to food and water. After 12 weeks, nerve conduction velocity was measured in the sciatic nerve of terminally-anaesthetised rats (2% (v/v) isoflurane in oxygen) as previously described (12).

### Cull and tissue collection

Terminally anaesthetised rats were culled by decapitation and blood glucose measured from core blood using a strip-operated reflectance photometer (12). SN, lumbar 4/5 DRG, trigeminal ganglia (TG) and plantar skin were dissected. All tissue collection was limited to a 90 minute time period each day to minimise circadian influences on metabolism and limit analyte degradation. Tissues destined for metabolomics were rapidly washed in ice-cold 0.9% NaCl in water. Tissues for proteomics were rapidly washed in ice-cold PBS followed by ice-cold 0.25 M sucrose. Tissue was snap frozen in liquid nitrogen to halt metabolic and proteolytic processes. The mass of each tissue was recorded and samples stored at  $-80^{\circ}\text{C}$ . and Intraepidermal nerve fibre density was measured by quantification of PGP9.5-

immunoreactive nerve fibres in the glabrous surface of the hindpaw as previously described (12).

### **Metabolomics**

Analysis of tissue metabolites was performed by lysing tissue in a mixture of chloroform, methanol and water to separate polar and non-polar metabolites, before analysis by gas- or liquid-chromatography mass spectrometry (GC-MS and LC-MS respectively). The weight of each sample was equalised and tissue lysed in 800  $\mu$ L 50:50 MeOH:CHCl<sub>3</sub>, containing isotopically labelled internal standards (0.016 mg/mL each of citric acid-*d*<sub>4</sub>, <sup>13</sup>C<sub>6</sub>-D-fructose, L-tryptophan-*d*<sub>5</sub>, L-alanine-*d*<sub>7</sub>, stearic acid-*d*<sub>35</sub>, benzoic acid-*d*<sub>5</sub>, and leucine-*d*<sub>10</sub>; Cambridge Isotopes) in a TissueLyser II (Qiagen). 400  $\mu$ L H<sub>2</sub>O was added and samples centrifuged at 2,400 x g for 15 min to cause separation of phases. After separation, tissue debris lay at the interface between the lower (non-polar, CHCl<sub>3</sub>) phase and the polar (MeOH:H<sub>2</sub>O) phase. Metabolites in the polar fraction were derivatised to methoxime/trimethylsilyl derivatives as described (13) and analysed by GC-MS (Agilent 7890A Gas Chromatograph and a LECO Pegasus HT time-of-flight MS). Metabolites in the non-polar fraction were resuspended in methanol and analysed by LC-MS (Accela UHPLC system coupled to an Orbitrap Velos MS). Instrumental analysis, data reduction and interpretation followed the protocol as previously described (14). Univariate statistical tests (mean ratio with confidence intervals, Mann-Whitney *P*-value, false discovery rate (FDR)-corrected *q*-value) were applied in R. All metabolites identified/quantified can be seen in Online Supplemental Table 1.

### **Proteomics sample fractionation and mass spectrometry**

Proteomics was performed using 8-plex iTRAQ (isobaric tags for relative and absolute quantitation), a labelled method of analysis that allows simultaneous analysis of 8



independent tissue samples, as previously described (15) with the following modifications. Tissue was lysed in 1 M triethylammonium bicarbonate (TEAB) with 0.1% (w/v) sodium-dodecyl sulphate in the following volumes: SN 600  $\mu$ L, DRG 150  $\mu$ L, TG 250  $\mu$ L in a TissueLyser II. 100  $\mu$ g of protein was aliquoted and volumes equalised to 30  $\mu$ L with 1 M TEAB before cysteine reduction, alkylation and digestion with 7.5  $\mu$ g trypsin. Tryptic digests were dried in a SpeedVac Concentrator (Eppendorf), resuspended in 30  $\mu$ L 1 M TEAB and labelled with iTRAQ reagent (iTRAQ 8-plex reagent-labeling kit; AB SCIEX). Labelled peptide samples were pooled within one 8-plex and dried in a SpeedVac Concentrator.

Peptides were fractionated off-line using high pH reverse phase chromatography on a 3  $\mu$ m Extend-C18 column (4.6 x 100 mm; Agilent) at 45°C using a 30 minute gradient from 3% to 40% acetonitrile in 0.1% ammonium hydroxide at 0.75 mL/min, with 30 second fractions collected, dried in a SpeedVac Concentrator and stored at -20°C until analysis. For subsequent analysis by low pH reverse phase liquid chromatography-tandem mass spectrometry (LC-MS/MS) analysis, dried fractions were resuspended in 15  $\mu$ L 3% (v/v) acetonitrile, 0.1% (v/v) trifluoroacetic acid, with 5  $\mu$ L analysed by low-pH reverse phase chromatography as previously described (15).

### **Proteomic analysis**

To identify proteins from their peptide spectra, raw data files were analysed using ProteinPilot v4.0 using default search settings against a rat-specific Uniprot database (15190 proteins; rel. 2011\_04), which was concatenated with a reversed-sequence 'decoy' version of the same database to enable the False Discovery Rate (FDR) for identifications to be determined.

To identify differentially expressed proteins, protein-level quantification was performed on the ProteinPilot spectrum-level iTRAQ measurements by Bayesian mixed-effects modelling in R (16). For each protein identified, statistically significant FDR-controlled differential protein expression between diabetes and control animals was inferred using the measurements unique to that protein. We based our one-sided significance test on the posterior probability that the mean fold-change is at least 5% either above or below control expression (17). The reciprocal of this posterior probability represents the local FDR (lFDR) *i.e.* the probability that this specific test is a false discovery. In this study, we defined a ‘significant’ difference in protein expression using a global FDR threshold of 5% (17).

We framed the problem as a Generalised Linear Mixed Model (GLMM) with Poisson likelihood distribution and log-link. In the GLMM design, condition (diabetes/control) was treated as a fixed effect and subject as a random effect. Additional random effects were fitted for sample within each peptide, in order that technical peptide-level variation and biological protein-level variation were both captured. The sample normalization scaling factors represent the mass spectrometer’s exposure to each sample, and hence were included as a fixed offset within the model.

Finally, the set of measurements within each iTRAQ spectrum were assigned: (a) their own baseline fixed effect, to account for differences in the location of the MS/MS selection window across the chromatographic profile, as well as varying ionisation/fragmentation efficiencies across peptides and charge states; and (b) their own independent and identically distributed log-normal residual variance, to account for over-dispersion due to background contamination and incorrectly identified spectra. Residual variances were assigned inverse-Gamma priors, while random effects were assigned parameter-expanded Cauchy priors. The

model was then tested with different prior scale factors to establish that the priors were not informative to the outcome. For each protein, model inference was run initially with 8 chains of 20,000 samples each and 50% burn-in. Mixing was deemed successful if, for each significance test, the variance of the posterior probabilities for the 8 chains did not exceed 0.02 (tested using a Bayesian Generalised Linear Model with Binomial likelihood distribution, logit link, 200,000 samples and 50% burn-in). If this test failed, the model was continually re-run with double the number of samples (thinned to 10,000) until the test passed. All proteins identified/quantified can be seen in Online Supplemental Table 2.

The results of the Bayesian analysis were analysed with Ingenuity® Pathway Analysis (IPA®; Qiagen; [www.qiagen.com/ingenuity](http://www.qiagen.com/ingenuity)). Protein lists were input into IPA® using Uniprot accession numbers, mean  $\log_2$  ratios and global FDRs for each of the three tissues separately. Significant changes (global FDR <0.05) were compared to the user input dataset as the reference set. To assess solely the mitochondrial proteome, proteins localised to the mitochondria were extracted via upload of the SN dataset to ConsensusPathDB (Max-Planck Institute for Molecular Genetics; <http://cpdb.molgen.mpg.de/>). 197 proteins were reported as being present in any part of the mitochondria. All mitochondrial proteins were then divided into two groups based on whether they were annotated as involved in metabolism (127 proteins) or non-metabolic (70 proteins).

## Results

### **Elevation of glucose and polyol intermediates throughout the peripheral nervous system in diabetes**

Following 12 weeks of diabetes, rats displayed a phenotype of peripheral neuropathy (18), including decreased sensory and motor nerve conduction velocities in the SN and loss of intraepidermal nerve fibres in the hind paw (Table 1). To investigate the peripheral nervous system in diabetes, we first performed metabolomics on the distal SN, the corresponding lumbar 4/5 DRG and on the cranial TG of diabetic and control rats (Figure 1A). Analysis of polar metabolites by GC-MS identified and quantified 47 metabolites in the SN, 46 in the DRG, and 47 in the TG ( $n=4$  per tissue). All tissues showed a similar extent of alteration with 18 metabolites (38.3%) in the SN, 16 (34.8%) in the DRG, and 19 (40.4%) in the TG significantly changed in diabetes (Figure 1B).

All tissues showed increases in glucose (SN: 4.8-fold, DRG: 14.6-fold, TG: 19.6-fold), sorbitol and fructose, and decreases in *myo*- and *scyllo*-inositol in diabetes (Figure 1C), characteristic of polyol pathway activation (19). Since free glucose should not normally accumulate, this indicates that impaired glucose utilisation is present in all three tissues in diabetes. All metabolites identified/quantified can be seen in Online Supplemental Table 1.

### **Dysregulation of lipid metabolism occurs in the sciatic nerve, is less severe in the DRG and not evident in the TG**

Our GC-MS analysis also showed decreases in palmitic (16:0), stearic (18:0), and eicosanoic (20:0) fatty acids in the SN, but these were unchanged in the DRG or TG (Figure 1C). To explore lipid species more widely, we performed non-polar metabolomics by LC-MS. Initial analysis produced 9,166 putative metabolite features across the three tissues ( $n=6$  per tissue).

We extracted features that showed potential changes ( $q < 0.1$ ) in any tissue and filtered these to 397 unique metabolite features (Online Supplemental Table 1). Of these, 257/397 (64.7%) in the SN (Figure 2A), 15/321 (4.7%) in the DRG (Figure 2B), and 1/365 (0.3%) in the TG (Figure 2C) were significantly altered in diabetes ( $q < 0.05$ ).

The most comprehensive lipid changes observed were in the triacylglycerols (TAGs). In the SN, 73 of 110 (66.4%) identified TAG species were significantly changed in diabetes (Figure 2E, inset). These exhibited a length-dependent phenomenon whereby relatively short-chain TAGs (<54:2) were reduced in diabetes, whilst longer chain species increased (Figure 2E). There was no change in any TAG species in either the DRG (Figure 2F) or TG (Figure 2G). Moreover, two abundant acylcarnitine species, palmitoylcarnitine (16:0) and linoleylcarnitine (18:2) showed increases in the SN (Figure 2H) but were unchanged in the DRG (Figure 2I) or TG (Figure 2J). Both families are functionally important in metabolism: TAGs for storage and acylcarnitines for fatty acid transport into the mitochondria for energy generation (Figure 2D). Beside alterations to metabolic lipids, we observed changes in major structural/membrane lipids, including phospholipids and sphingolipids/ceramides specifically in the SN (Online Supplemental Table 1). Interestingly, these lipid changes appear severe in the distal SN, moderate in the proximal DRG and not evident in the cranial TG, suggesting that lipid dysfunction presents distally in the PNS in diabetes.

### **Metabolic dysregulation in the sciatic nerve, but not in the dorsal root ganglia or trigeminal ganglia of diabetic rats**

To investigate the putative underlying mechanism of this spatial grading of metabolic dysfunction, we analysed all three tissues by iTRAQ proteomics (control  $n=4$ , diabetic  $n=6$  per tissue). We inferred differential protein expression between diabetic and control tissues

by Bayesian mixed effects modelling (see Methods). In the SN, 683 (28.9%) of the 2,356 proteins identified and quantified showed significant changes of expression in diabetes (Figure 3A and Online Supplemental Table 2). Ingenuity® Pathway Analysis highlighted coordinated dysregulation to oxidative phosphorylation, liver/retinoid X receptor (LXR/RXR) activation and glycolysis (Figure 3B). In contrast, only 85/1,649 (5.2%) proteins in the DRG (Figure 3C) and 60/1,734 (3.4%) proteins in the TG (Figure 3E) significantly changed. Pathway analysis showed changes in the 'Acute Phase Response' and LXR/RXR activation in both the DRG and TG (Figure 3D and Figure 3F), but overall protein expression in the DRG and TG was relatively unaffected (Online Supplemental Table 2), in spite of the higher levels of glucose.

Mitochondrial oxidative phosphorylation was particularly conspicuous between tissues with 32/37 (86%) identified proteins in the SN increased in diabetes whilst not one of the 29 oxidative phosphorylation proteins quantified in the DRG or TG was significantly altered (Figure 4). Dysregulation in the SN comprised increased expression in multiple subunits of complexes I, III, IV and V with no observed change in complex II. Since this upregulation could in principle be an artefact of increased mitochondrial numbers in the SN, we analysed the composition of the mitochondrial proteome. We found mitochondrial Rho GTPase 1 (Miro1), a protein mediating axonal transport of mitochondria (20), to be upregulated by diabetes in the SN (Online Supplemental Table 1), which might reflect aberrant mitochondrial transport and accumulation of mitochondria in axons. However, we found only 14/70 (20%) 'non-metabolic' mitochondrial proteins to be upregulated by diabetes compared to 86% of oxidative phosphorylation proteins. This disproportionate difference suggests

targeted effects on the proteins of oxidative phosphorylation rather than increased mitochondrial numbers.

In glycolysis, 8/13 (62%) proteins significantly increased in the SN, with the DRG (0/15) and TG (1/15) again unaffected (Figure 5B). Since we now have data on both the metabolites and proteins of glycolysis, we can integrate these to assess pathways in detail. We found that although multiple glycolytic proteins increased in the SN (Figure 5B), glycolytic intermediates glucose-6-phosphate, fructose 1,6-bisphosphate and glyceraldehyde-3-phosphate did not significantly change (Figure 5C). Whilst pathway analysis did not highlight the tricarboxylic acid (TCA) cycle, we found 6/13 (46%) TCA cycle enzymes were significantly increased in the SN, whereas none changed in either the DRG or TG (Figure 5E). Once again we saw a similar phenomenon whereby proteins of the TCA cycle showed increases in the SN (Figure 5E) without coincident increases in the metabolic intermediates citrate, succinate or malate (Figure 5F). Overall, we conclude that all tissues measured in the PNS of STZ-diabetic rats exhibit impaired glucose utilisation but that metabolic dysfunction is restricted to the SN.

## Discussion

Our integrated metabolomic and proteomic analysis in experimental diabetic neuropathy has revealed coordinated dysregulation of sugar, lipid and mitochondrial metabolism in the distal axonal/glial compartment of the SN that is not present in the corresponding cell bodies of the lumbar 4/5 DRG or the cranial TG. Integrating both analyses allows construction of a comprehensive model of defective metabolism in the SN, where upregulation of protein components of glycolysis, the TCA cycle and oxidative phosphorylation occur alongside complex changes in lipid metabolism (Figure 6). Since diabetic neuropathy predominately presents with distal symptoms, these site-specific molecular changes may directly contribute to disease pathogenesis.

We measured accumulation of glucose, fructose and sorbitol in all tissues, supporting the view that the polyol pathway is prominently altered in DN (4). As the polyol pathway is usually a minor route for glucose metabolism, these alterations point to changes in the utilization of glucose in all tissues studied. Thus raised glucose levels cannot alone explain the pathogenesis of diabetic neuropathy. The differential impact of impaired glucose utilisation on the PNS implies that metabolic regulation differs throughout the nervous system, with some regions more susceptible to dysfunctional metabolism than others.

The synchrony of diabetes-induced dysregulation to glycolysis, the TCA cycle and oxidative phosphorylation in the SN indicates substantial bioenergetic dysfunction. We found that whilst protein components of glycolysis/TCA cycle increased, their metabolic intermediates showed no evidence of alteration. Since we did not perform flux experiments we cannot specifically comment upon pathway activity but we suggest that the discrepancy between protein and metabolite measures here indicates that upregulation of the enzymes of



glycolysis, the TCA cycle and oxidative phosphorylation may reflect a compensatory response to metabolite overload in the SN. Such changes might indicate reduced ATP production, since increased expression of respiratory chain components in cultured Schwann cells coincides with decreased respiration efficiency (10), and/or oxidative stress (21). Interestingly, glycolytic/TCA cycle intermediates decrease in the sural and sciatic nerves but not the DRG of *db/db* mice (11), supporting our interpretation that pathway activity may not be increased. However, since both studies rely upon steady-state measures, definitive pathway flux is currently unknown.

Even though the normalisation of all protein ratios was performed, the majority of our highlighted protein changes showed an upregulation in the SN in diabetes. In principle, spatial differences could result from differential metabolism or an artefact such as increased numbers of mitochondria in the SN. We observed evidence of altered mitochondrial transport through increased expression of Miro1 in the SN in diabetes (20), however, increases in ‘non-metabolic’ mitochondrial proteins were infrequent compared to the 86% of oxidative phosphorylation proteins. We believe this indicates mitochondria are dysfunctional in distal axons but do not change in number. To support this, analysis of human skin biopsies found no difference in mitochondrial numbers within intraepidermal nerve fibres between patients with and without DN, but that mitochondrial volume increased in DN (22).

The main question arising from this work is why does the SN show such a disrupted proteomic/metabolomic signature whilst the DRG and TG appear relatively-unaffected? We believe that there could be at least two, non-mutually-exclusive explanations for these observations. The first is due to a difference in composition of the tissues. Both the DRG and TG are largely neuronal, with smaller contributions from satellite glial cells. In the SN

however, there are a high proportion of Schwann cells which could be responsible for the disrupted tissue metabolism we have observed. This could be either a direct influence (the dysregulated proteins we have measured derive predominately from Schwann cells) and/or an indirect influence (metabolic dysfunction in Schwann cells impacts upon axonal health and protein expression).

Here, our data harmonises with elegant molecular studies of peripheral neuropathy. Schwann-cell specific mitochondrial dysfunction and/or metabolic stress in mice leads to symptoms of peripheral neuropathy with decreased conduction velocity, loss of both small unmyelinated fibres and degeneration of large myelinated fibres and thermal hypoalgesia (23; 24). This work demonstrates that Schwann cell metabolism plays a critical role in supporting neuronal function along long peripheral nerves, and its disruption can cause axonal degeneration/neuropathy. Since glucose is preferentially taken up into Schwann cells in peripheral nerve (25) and aldose reductase predominately localises to Schwann cells (26; 27), it is possible that high glucose levels principally instigate metabolic dysfunction in Schwann cells, which impacts upon neuronal health, resulting in neuropathy. This will require further investigation but represents an attractive target for future mechanistic and therapeutic studies in DN.

It is believed that glycolytic glia support neuronal oxidative metabolism through the transfer of lactate which can support neuronal function during metabolic stress in Schwann cells (24; 28). We did not observe any change in lactate levels in the SN, but this does not preclude alterations in the flux of lactate between neurons and glia. Lactate transfer is mediated by the monocarboxylate transporters (MCTs), of which MCT-1 is the main isoform expressed in peripheral nerve (29). We identified/quantified MCT-1 in both the SN and DRG but did not

observe significantly altered expression in either tissue (Online Supplemental Table 2). Changes in localisation of the MCTs in the PNS in diabetes could alter lactate transfer but there are few available data that address this point (5).

Besides impaired metabolic support from Schwann cells, another possibility is that metabolic stress in Schwann cells themselves could result in accumulation of toxic intermediates, such as acylcarnitines, which have been shown to be neurotoxic and coincident to the development of peripheral neuropathy (30). Our data support the presence of this phenomenon in diabetic neuropathy since we observed concomitant mitochondrial dysfunction and deficits in lipid utilization in the SN, including alterations to acylcarnitines, which were not present without metabolic stress in the DRG/TG.

Dysfunctional lipid metabolism has been linked to the pathogenesis of neuropathy previously (23; 24), but its mechanism is poorly understood. Our data add that there are profound changes to lipid intermediates in the SN but not the DRG or TG in STZ-diabetes. Total lipid content was ~20% higher in control SN than control DRG (data not shown). Theoretically this difference could make changes in the SN more detectable, but this relatively small difference is unlikely to solely explain the extensive difference between control and diabetic tissues we have observed. Importantly, these disease-associated lipid alterations occurred in the absence of protein changes to  $\beta$ -oxidation (Online Supplemental Table 2), highlighting that protein expression levels alone do not capture possible post-translational modification effects on protein activity.

The second hypothesis approaches the relationship between the cell bodies in the DRG and the axons in the SN. It is possible that the neuronal cell bodies in the DRG are more capable

of responding to metabolic insult through constant synthesizing and refolding of proteins than the axonal compartment, which would explain why we do not observe abundant alterations in the DRG proteome/metabolome. Perikaryal preservation is a key feature of diabetic neuropathy, as no neuronal loss was detected in the DRG after 12 months of hyperglycaemia in STZ-diabetes (31; 32). The DRG plays a crucial role in axonal support, evidenced by findings in STZ-diabetes, when direct support of DRG neurons through intrathecal administration of insulin (which did not reduce hyperglycemia) improved sciatic nerve conduction velocity and protected against distal axonal atrophy and intraepidermal nerve fibre loss (33; 34). Therefore even apparently small phenotypic changes in the DRG may impact on distal axon health and play a role in the pathogenesis of diabetic neuropathy.

Therefore, whilst our findings highlight that metabolic dysfunction is most evident in the sciatic nerve, this does not negate the role played by the DRG in the pathogenesis of the disease. We believe distal axon degeneration is most likely to result from a complex combination of both local axonal/Schwann cell dysfunction and failed axonal support from the cell body. In future work it will be important to study the fundamental mechanisms of metabolism within the PNS to allow dissection of the responses of Schwann cells, neurons and axons.

During our analysis we focused on mechanisms of dysfunction in carbohydrate/lipid metabolism since these signals were the most enriched and concordant in our datasets. However, these data contain many more dysregulated proteins and metabolites which could yield interesting targets for future study. For example, endoplasmic reticulum stress and eIF2 signaling, key stress pathways linked to the pathogenesis of peripheral neuropathy (30), appear prominently altered and LXR/RXR activation shows complex alteration that differs

between tissues. Data on all of these are provided as Online Supplemental Tables as a resource. Since similar changes in carbohydrate metabolism have been reported in the type 2 *db/db* mouse model of diabetes (11), we believe that these alterations may well be applicable to further models and patients with DN. Investigation of shorter and longer durations of diabetes would be beneficial to describe the dynamics of some of the key changes highlighted here and their relationship to disease progression. Likewise, the reversion of some of these key changes with insulin or experimental therapeutics would be of interest.

Whilst it remains unclear whether neuron-glial metabolic coupling is disrupted in diabetes, our measurements support the notion of a compartmentation of dysfunctional energy metabolism in peripheral neuropathy. The observation that metabolic regulation differs between the proximal cell bodies of the lumbar 4/5 DRG to the axonal/Schwann cell-rich SN may help explain the underlying molecular basis for the ‘glove-and-stockings’ distribution of peripheral neuropathies. These findings would not have been possible had we not integrated both protein and metabolite measures and the performance of both technologies in parallel has proven vital to help interpret pathway interactions. This comprehensive network view of dysfunctional metabolism identifies new therapeutic targets to rescue a healthy state of metabolism and treat the progression of diabetic neuropathy.

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O.J.F. designed the study, collected and analysed the data and wrote the manuscript. R.D.U. designed the study, analysed the data and wrote the manuscript. P.B performed the GC-MS analysis and analysed the data. K.A.H. and N.R. performed the UHPLC-MS analysis. S.A. and R.S.P assisted with the animal study and contributed to discussion. A.W.D developed and performed the Bayesian analyses. W.B.D designed the study and analysed the data. G.J.S.C. and N.J.G. designed and supervised the study and wrote the manuscript. G.J.S.C. and N.J.G. are guarantors of this work and, as such, had full access to all the data in the study and take responsibility for the integrity of the data and the accuracy of the data analysis. All authors discussed the results and commented on the manuscript.

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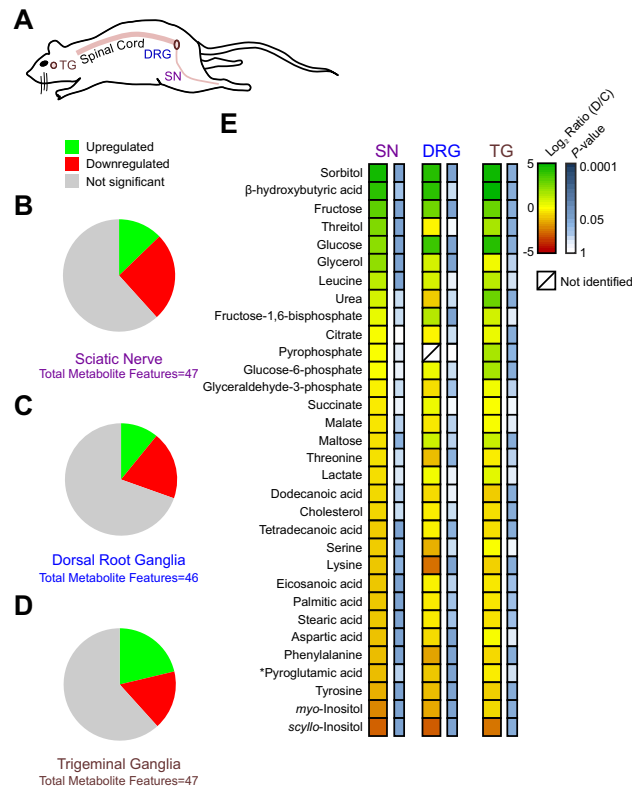
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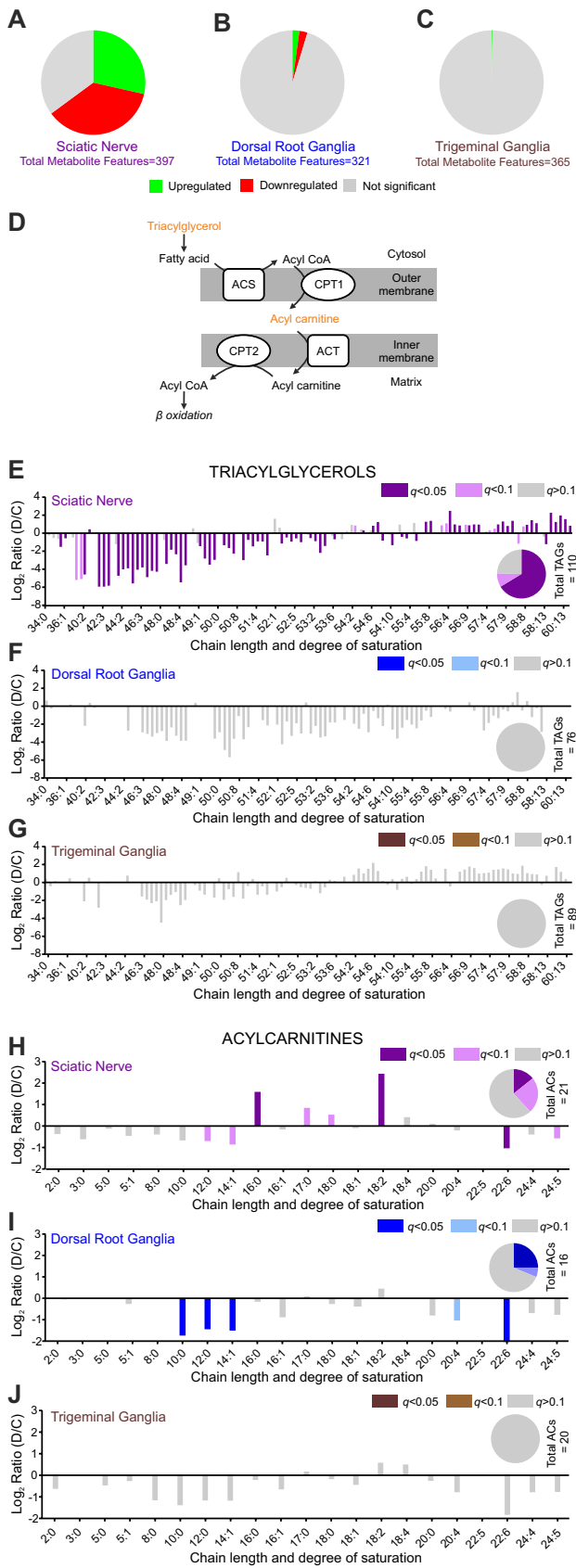


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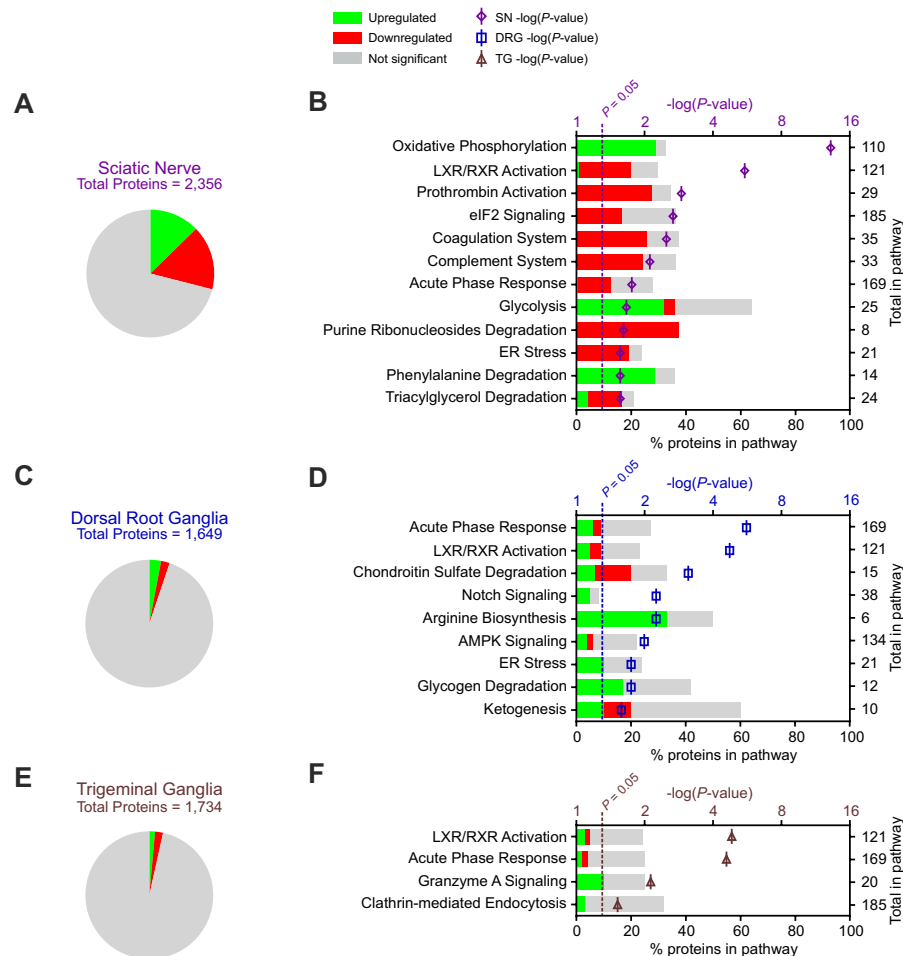
Table 1–Phenotype of streptozotocin-diabetic rats after 12 weeks'			
	Control	Diabetic	<i>P</i> -value
<i>n</i>	14	16	
Blood glucose (mmol/L)	10.3 ± 2.4	40.4 ± 8.1	<0.0001
Body weight (g)	589 ± 46	350 ± 28	<0.0001
Motor nerve conduction velocity (m/s)	52.3 ± 15.6	34.1 ± 6.8	0.002
Sensory nerve conduction velocity (m/s)	48.0 ± 11.6	26.3 ± 9.7	0.0001
Intraepidermal nerve fibre density (fibres/mm)	12.4 ± 3.4	8.7 ± 1.7	0.003
Data presented as mean ± SD.			



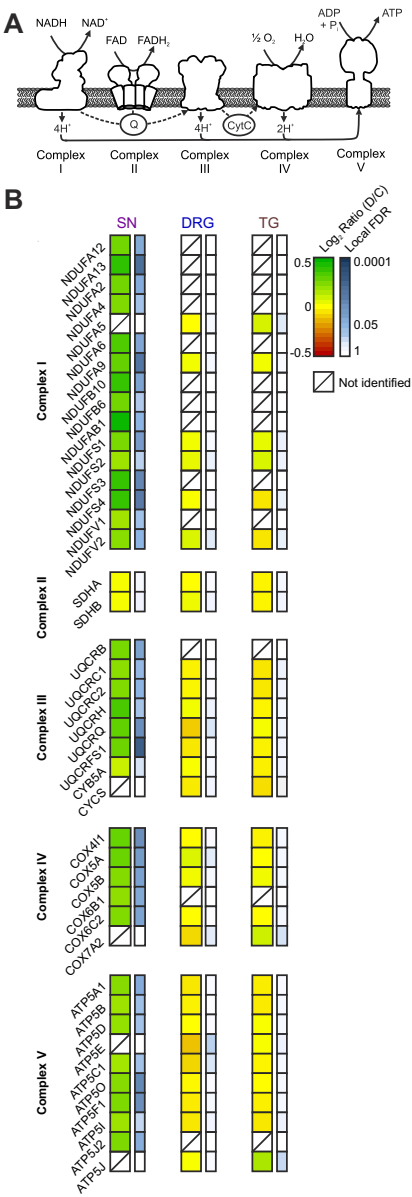
**Figure 1**—Impaired glucose utilization throughout the peripheral nervous system in diabetes. *A*: We analysed the sciatic nerve (SN), lumbar 4/5 dorsal root ganglia (DRG) and trigeminal ganglia (TG). *B-D*: Percentage of polar metabolite features in the SN (*B*), DRG (*C*) and TG (*D*) that were upregulated (green), downregulated (red) or not significantly changed in diabetes (grey;  $n=4$ ). *E*: Selected polar metabolite features from the three tissues. Log<sub>2</sub> ratio (diabetes/control – D/C) and Mann-Whitney *P*-value is shown based on the key in the top right. \*Pyroglutamic acid is a derivatisation product of glutamate/glutamine. All metabolites identified/quantified can be seen in Online Supplemental Table 1.



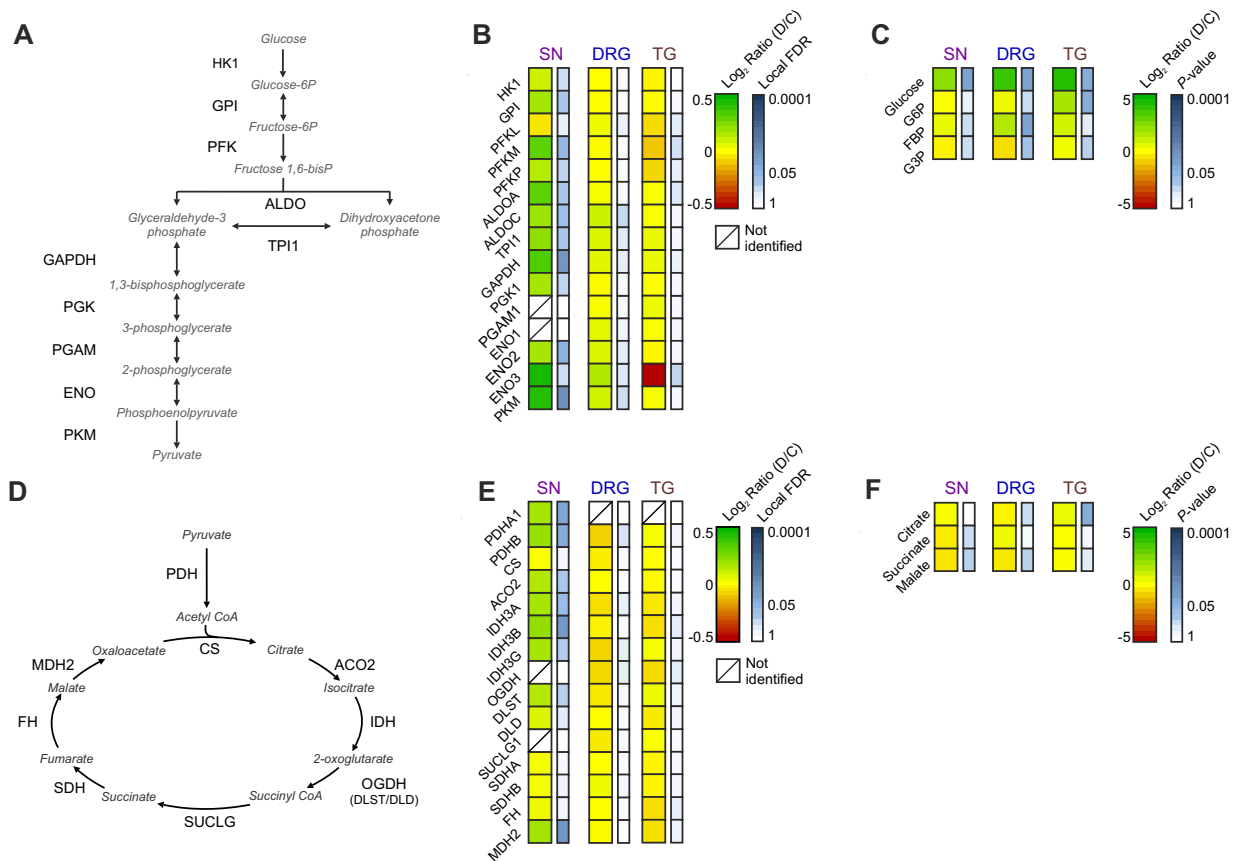
**Figure 2–** Dysregulation of lipid metabolism in the sciatic nerve in diabetes is less severe in the dorsal root ganglia and not evident in the trigeminal ganglia. *A-C*: Percentage of unique non-polar metabolite features in the sciatic nerve (SN; *A*), dorsal root ganglia (DRG; *B*) and trigeminal ganglia (TG; *C*) that were upregulated (green), downregulated (red) or not significantly changed in diabetes (grey; *n*=6). *D*: Schematic of lipid incorporation into the mitochondria for catabolism via  $\beta$  oxidation. ACS, acyl CoA synthetase; ACT, acylcarnitine/carnitine translocase; CPT1/2, carnitine palmitoyltransferase I/II. *E-G*: All triacylglycerol species identified in SN (*E*), DRG (*F*) and TG (*G*) are denoted by number of carbons:degree of saturation and Log<sub>2</sub> ratio (diabetes/control – D/C) shown. Inset shows percentage of triacylglycerols that were significantly changed (*q*<0.05; dark colour), approaching significant (*q*<0.1; light colour) or not significantly changed (*q*>0.1; grey). *H-J*: All acylcarnitine species identified in SN (*H*), DRG (*I*) and TG (*J*). Inset shows percentage of acylcarnitines that were significantly changed (dark colour), approaching significant (light colour) or not significantly changed (grey). All metabolites identified/quantified can be seen in Online Supplemental Table 1.



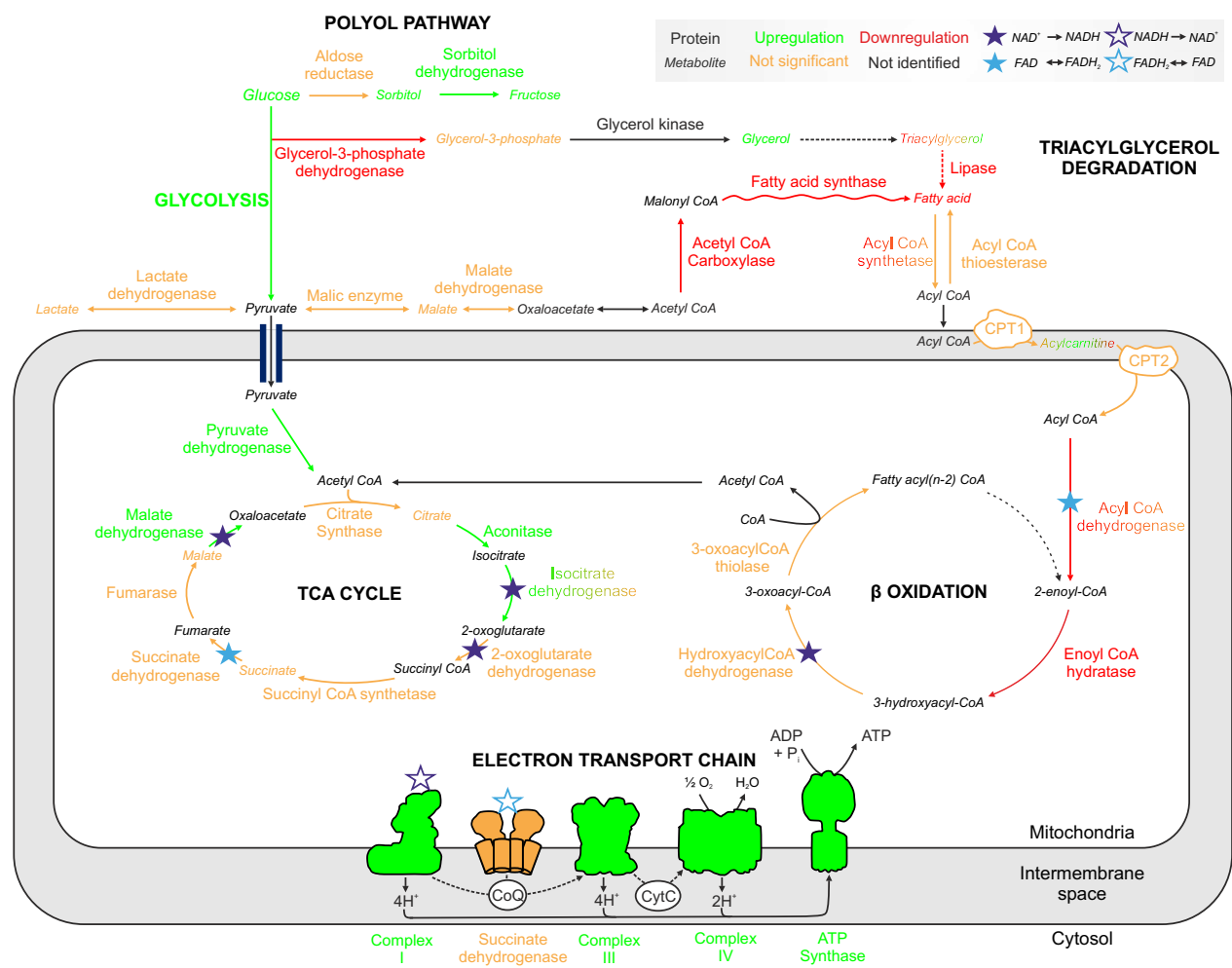
**Figure 3**—Proteomics reveals metabolic dysregulation in the sciatic nerve, but not in the dorsal root ganglia or trigeminal ganglia of diabetic rats. *A,C,E*: Percentage of proteins in SN (*A*), DRG (*C*) and TG (*E*) that were upregulated (green), downregulated (red) or not significantly changed in diabetes (grey; control  $n=4$ , diabetic  $n=6$ ). *B,D,F*: Pathway analysis of SN (*B*), DRG (*D*) and TG (*F*). Plots show significantly altered pathways organised by their  $-\log(P\text{-value})$  (top  $x$  axis), bars show percentage of proteins (bottom  $x$  axis). All proteins identified/quantified can be seen in Online Supplemental Table 2.



**Figure 4**—Dysregulated oxidative phosphorylation is restricted to the sciatic nerve. *A*: The oxidative phosphorylation electron transport chain. ADP, adenosine diphosphate; ATP, adenosine triphosphate; Q, Coenzyme Q/ubiquinol; CytC, Cytochrome C; FAD, oxidised flavin adenine dinucleotide; FADH<sub>2</sub>, reduced flavin adenine dinucleotide; NAD<sup>+</sup>, oxidised nicotinamide adenine dinucleotide; NADH, reduced nicotinamide adenine dinucleotide; Pi, inorganic phosphate. *B*: All proteins identified/quantified from oxidative phosphorylation are shown. Each protein is identified by its gene symbol and the plot shows the posterior mean log<sub>2</sub> ratio (diabetes/control – D/C) and local false discovery rate (FDR) in the sciatic nerve (SN), dorsal root ganglia (DRG) and trigeminal ganglia (TG).



**Figure 5**—Glycolysis and the TCA cycle show upregulated protein expression in the sciatic nerve but no changes in metabolic intermediates. *A*: The glycolysis pathway is shown with proteins (non-italicised) annotated by their gene symbol and metabolites (*italicised*). *B*: Proteins identified/quantified from glycolysis. Each protein is identified by its gene symbol and the plot shows the posterior mean log<sub>2</sub> ratio (diabetes/control – D/C) and local false discovery rate (FDR) in the sciatic nerve (SN), dorsal root ganglia (DRG) and trigeminal ganglia (TG). *C*: Metabolites identified/quantified from glycolysis. Plot shows log<sub>2</sub> ratio and Mann-Whitney *P*-value in each tissue. *D*: The TCA cycle is shown. *E*: Proteins identified/quantified from the TCA cycle. *F*: Metabolites identified/quantified from the TCA cycle.



**Figure 6**—Schematic of protein and metabolite changes in the sciatic nerve in diabetes. Proteins (non-italicised) and metabolites (*italicised*) are highlighted with upregulation in green, downregulation in red, no significant change in orange and not identified in black. Where a protein/metabolite showed multiple isoforms/species altered in different directions, these are depicted in multiple colours. Stars denote the production (closed stars) or consumption (open stars) of electron donors NADH (purple) and FADH<sub>2</sub> (blue). ADP, adenosine diphosphate; ATP, adenosine triphosphate; CoA, coenzyme A; CoQ, Coenzyme Q/ubiquinol; CPT1/2, carnitine palmitoyltransferase 1/2; CytC, Cytochrome C; FAD, oxidised flavin adenine dinucleotide; FADH<sub>2</sub>, reduced flavin adenine dinucleotide; NAD<sup>+</sup>, oxidised nicotinamide adenine dinucleotide; NADH, reduced nicotinamide adenine dinucleotide; O<sub>2</sub><sup>•−</sup>, superoxide; Pi, inorganic phosphate.



**Freeman *et al.* Supplemental Table 1**

**This document contains all metabolomic data**

GC-MS Diabetic-Control

UHPLC-MS Diabetic-Control

**Column headings are as follows for GC-MS**

Metabolite ID

SN Mean Log2 Ratio

SN l-95% CI

SN u-95% CI

SN P-value

DRG Mean Log2 Ratio

DRG l-95% CI

DRG u-95% CI

DRG P-value

TG Mean Log2 Ratio

TG l-95% CI

TG u-95% CI

TG P-value

**Column headings are as follows for UHPLC**

mz

rt

Putative ID

SN Control

SN STZ

SN Mean Log2 Ratio

SN l-95% CI

SN u-95% CI

SN P-value

SN FDR

DRG Control

DRG STZ

DRG Mean Log2 Ratio  
DRG l-95% CI  
DRG u-95% CI  
DRG P-value  
DRG FDR  
TG Control  
TG STZ  
TG Mean Log2 Ratio  
TG l-95% CI  
TG u-95% CI  
TG P-value  
TG FDR

**data in 2 sheets as follows:**

Gas Chromatography-MS data from the sciatic nerve, dorsal root ganglia and trigeminal ganglia of streptozotocin-diabetic rats in comparison to healthy controls

Ultra-High Performance Liquid Chromatography-MS data from the sciatic nerve, dorsal root ganglia and trigeminal ganglia of streptozotocin-diabetic rats in comparison to healthy controls

**S:**

Metabolite identification

Sciatic nerve mean log2 ratio

Sciatic nerve lower 95% confidence interval

Sciatic nerve upper 95% confidence interval

Sciatic nerve Mann-Whitney P-value

Dorsal root ganglia mean log2 ratio

Dorsal root ganglia lower 95% confidence interval

Dorsal root ganglia upper 95% confidence interval

Dorsal root ganglia Mann-Whitney P-value

Trigeminal ganglia mean log2 ratio

Trigeminal ganglia lower 95% confidence interval

Trigeminal ganglia upper 95% confidence interval

Trigeminal ganglia Mann-Whitney P-value

**C-MS:**

Mass-to-Charge ratio

Retention time

Putative identification, categorised

Number of control rats (total  $n=6$ ) in which this feature was identified in the sciatic nerve

Number of streptozotocin rats (total  $n=6$ ) in which this feature was identified in the sciatic nerve

Sciatic nerve mean log2 ratio

Sciatic nerve lower 95% confidence interval

Sciatic nerve upper 95% confidence interval

Sciatic nerve Mann-Whitney P-value

Sciatic nerve false discovery rate

Number of control rats (total  $n=6$ ) in which this feature was identified in the dorsal root ganglia

Number of streptozotocin rats (total  $n=6$ ) in which this feature was identified in the dorsal root ganglia

Dorsal root ganglia mean log2 ratio  
Dorsal root ganglia lower 95% confidence interval  
Dorsal root ganglia upper 95% confidence interval  
Dorsal root ganglia Mann-Whitney P-value  
Dorsal root ganglia false discovery rate  
Number of control rats (total n=6) in which this feature was identified in the trigeminal ganglia  
Number of streptozotocin rats (total n=6) in which this feature was identified in the trigeminal ganglia  
Trigeminal ganglia mean log2 ratio  
Trigeminal ganglia lower 95% confidence interval  
Trigeminal ganglia upper 95% confidence interval  
Trigeminal ganglia Mann-Whitney P-value  
Trigeminal ganglia false discovery rate

Metabolite ID	SN Mean L	SN I-95% C	SN u-95% C	SN p-value
Lactate	-0.64386	-4.64386	1.063503	0.386476
Alanine	-0.73697	-2.05889	1.117695	0.248213
Beta-Hydroxybutyric acid	4.146492	0.941106	6.391802	0.083265
Ethanolamine	0.678072	-0.18442	1.555816	0.148915
Glycerol	2.160275	1.709291	2.541019	0.020921
Leucine	1.327687	0.604071	2.107688	0.020921
Glycine	-0.45403	-1.05889	0.201634	0.148915
Serine	-0.97143	-1.78588	-0.1047	0.043308
Phosphoric acid	-0.16812	-0.76121	0.641546	0.248213
Urea	0.815575	-0.0145	1.608809	0.148915
Benzoic acid	-0.12029	-0.25154	0.014355	0.083265
Threonine	-0.59946	-1.64386	1.042644	0.248213
Succinate	-0.39593	-2.18442	0.956057	0.563703
Threitol and/or Erythritol	2.516015	1.726831	3.92505	0.020921
Malate	-0.47393	-1.18442	0.344828	0.148915
Aspartate	-1.152	-1.64386	-0.64386	0.020921
2-Hydroxyglutaric acid	0.056584	-1.64386	1.344828	0.77283
Creatinine	0.137504	-0.94342	1.981853	1
N-Acetylglutamic acid	0.189034	-0.47393	1.195348	0.77283
Glutamic acid	-1.152	-2.05889	-0.16812	0.083265
Pyroglutamic acid	-1.2863	-2.05889	-0.25154	0.148915
Dodecanoic acid	-0.73697	-1.59946	0.124328	0.148915
Phenylalanine	-1.25154	-2.12029	0.097611	0.020921
Pyroglutamic acid and/or glutamic acid	-0.13606	-0.68966	0.344828	0.288844
Glycerol-2-phosphate	-0.37707	-1	0.411426	0.248213
Pyrophosphate	0.124328	-2.05889	1.914565	0.4795
Glycerol-3-phosphate	-0.35845	-1.25154	0.757023	0.248213
Sorbitol	4.646163	3.678072	6.119771	0.020921
Fructose	3.142413	2.403268	4.350497	0.020921
Glyceraldehyde-3-phosphate	-0.26882	-0.78588	0.475085	0.248213
Glucose	2.266037	1.372952	3.224966	0.020921
Citrate	0.15056	-0.55639	1.157044	1
Tetradecanoic acid	-0.94342	-1.39593	-0.57777	0.020921
Lysine	-1.02915	-2.05889	-0.23447	0.043308
scyllo -Inositol	-2.94342	-3.8365	-1.73697	0.020921
myo -Inositol	-2.25154	-2.8365	-1.2863	0.020921
Tyrosine	-1.47393	-2	-0.88897	0.020921
Palmitic acid	-1.05889	-1.32193	-0.81097	0.020921
Stearic acid	-1.05889	-1.32193	-0.81097	0.020921
Glucose-6-phosphate	0.111031	-0.78588	0.978196	0.563703
Tryptophan	-0.94342	-1.8365	-0.18442	0.083265
Eicosanoic acid	-1.05889	-1.32193	-0.81097	0.020921
Sucrose	0.731183		2.356144	1
Maltose	-0.55639	-1.18442	-0.08927	0.043308
Fructose-1,6-bisphosphate	0.443607	-0.57777	1.748461	0.248213
Adenosine-5-monophosphate	-0.152	-1.88897	1.344828	0.563703
Cholesterol	-0.78588	-1.39593	0.238787	0.248213

DRG Mean	DRG I-95%	DRG u-95%	DRG p-value	TG Mean	L TG I-95%	C TG u-95%	(TG p-value
0.238787	-1.64386	1.063503	0.563703	0.565597	-2.55639		0.4795
-2.12029	-5.05889		0.083265	0.713696	-3.64386	3.343408	0.4795
4.171527		5.975676	0.248213	5.072963			0.033895
0.704872		5.289466	0.77283	0.411426	0.028569	0.782409	0.0771
0.879706	0.400538	1.438293	0.020921	0.286881	-0.34008	1.111031	0.157299
0.83996		3.24184	0.563703	1.378512	-2.8365	2.632268	0.288844
-0.34008	-1.35845	1.744161	0.248213	-0.074	-0.81097	0.62293	0.723674
-1.51457	-3.05889		0.248213	0.111031	-1.25154	2.070389	0.723674
-0.32193	-0.68966	0.014355	0.083265	0.097611	-0.68966	0.910733	0.4795
-1	-2.64386		0.386476	2.893362	0.887525		0.033895
-0.49411	-1.73697		0.77283	-0.074	-0.32193	0.163499	0.372456
-1.25154	-2.32193	-0.30401	0.043308	-0.34008	-1.12029	0.214125	0.157299
0.367371	-1.39593	2.849999	0.77283	0.097611	-2.32193	1.895303	0.723674
-0.16812	-2.94342		0.77283	1.718088	0.895303	2.759156	0.033895
-0.41504	-1.05889	0.056584	0.148915	0.176323	-0.94342	1.769772	0.4795
-0.64386	-1.05889	-0.20091	0.020921	0.163499	-1	0.863938	0.4795
0.111031	-0.59946	0.956057	0.386476	-0.08927	-0.71312	0.516015	0.723674
-0.2863	-1.94342	0.963474	0.77283	-0.13606	-0.8365	0.62293	0.4795
-1.2863	-2.73697		0.386476	0.214125	-0.47393	1.176323	0.723674
-0.8625	-4.64386	0.189034	0.248213	-0.05889	-1.47393	1.232661	1
-1.02915	-1.55639	-0.62149	0.020921	-0.34008	-1.25154	0.823749	0.288844
-0.68966		1.104337	0.563703	-0.97143	-3.32193	-0.08927	0.033895
-1.68966	-3.32193	-0.91594	0.020921	-0.68966	-1.152	-0.32193	0.033895
-0.21759	-0.64386	0.263034	0.386476	0.887525	-1.25154	3.460743	0.288844
-0.16812	-0.76121	0.344828	0.77283	0.263034	-0.04394	0.604071	0.0771
				1.722466	0.443607		0.049535
-0.37707	-1.05889	0.097611	0.148915	0.097611	-0.66658	0.831877	0.4795
4.256256	3.072106	5.035624	0.020921	4.778209	3.695994	7.263034	0.033895
2.823749	1.773996	3.68818	0.020921	2.965323	2.31904	3.858976	0.033895
-0.66658	-1.47393	-0.1047	0.083265	0.263034	-0.4344	0.925999	0.157299
3.868884	2.555816	5.088311	0.020921	4.292045	3.408712	5.694323	0.033895
-0.16812	-0.8625	0.298658	0.248213	0.411426	0.111031	0.773996	0.033895
-0.21759	-0.37707	-0.04394	0.043308	-0.59946	-0.76121	-0.45403	0.033895
-2.64386	-4.64386	-1.51457	0.020921	-0.8625	-1.51457	-0.34008	0.033895
-3.05889	-3.32193	-2.73697	0.020921	-2.55639	-3.32193	-1.64386	0.033895
-1.59946	-2.25154	-1.152	0.020921	-0.71312	-1.18442	-0.08927	0.033895
-1.25154	-1.51457	-0.91594	0.020921	-0.91594	-1.51457	-0.13606	0.033895
-0.37707	-0.8365	0.014355	0.083265	-0.49411	-1	0	0.0771
-0.39593	-0.81097	-0.02915	0.083265	-0.51457	-1.05889	0.014355	0.0771
0.356144	-0.57777	2.456806	0.248213	1.773996	1.028569	2.757023	0.033895
-0.20091				-0.76121	-2.64386	0.275007	0.0771
-0.23447	-0.51457	0.070389	0.148915	-0.45403	-1.05889	0.137504	0.0771
-1	-2.64386		0.386476	-2.47393			0.288844
0.9855	-0.39593	1.739848	0.148915	1.117695	-0.18442	1.996389	0.033895
1.475085	0.765535	2.017922	0.020921	0.903038	-1.4344	3.526069	0.4795
-0.0145	-2.18442	1.035624	0.723674	0.378512	-0.8625	1.744161	0.4795
-0.32193	-1.32193	0.298658	0.248213	-0.62149	-1.12029	-0.16812	0.033895

1

mz	rt
566.3214	375.8161
520.3385	378.4922
550.3876	455.0785
544.3374	389.5309
580.4332	453.5058
576.4001	418.7375
570.3537	395.7063
674.4347	414.7727
502.3287	513.5795
580.2956	344.3451
506.3594	584.121
504.3048	378.1925
647.4651	995.1112
673.4802	995.8957
785.6042	744.0215
791.5603	567.2106
839.6504	819.548
837.635	770.0239
813.6353	804.5006
853.5651	962.7527
803.5611	528.8486
761.5217	538.2935
659.4233	357.5435
754.5699	572.2351
846.552	580.0334
764.5567	551.8723
899.7288	746.8955
872.5671	584.765
558.3542	402.8825
856.7115	764.5041
928.6298	676.8447
728.5197	514.7022
746.5683	536.1022
829.5751	534.2905
761.3945	548.2099
774.5991	567.6027
840.5704	606.8419
786.5992	559.3982
784.5823	534.7596
780.5524	502.2131
802.6306	605.7189



816.6463	627.7509
808.5828	530.1529
831.6655	652.4048
830.6618	653.1617
844.6778	675.5988
842.6615	636.6672
840.6448	603.8444
876.5852	652.1135
836.6146	560.9464
872.709	733.5355
852.5501	504.9917
868.679	722.9927
864.6462	595.0443
862.6299	564.0544
938.5325	529.1611
878.5681	495.7228
891.6637	647.9405
779.6611	653.3104
804.685	707.4154
478.3288	522.4009
564.4014	449.0944
848.6558	591.1109
548.4065	653.0036
846.6405	563.3425
674.5117	527.8578
726.5419	541.081
724.5276	530.1676
696.498	494.5724
722.5087	534.2933
812.5373	498.7441
814.5514	548.4312
803.6623	501.1003
780.587	635.1496
795.5975	565.0438
799.5424	554.1733
831.6931	532.0859
829.6773	567.5023
651.4734	502.5113
656.4235	425.4167
662.4752	491.3498
716.5228	519.5101
760.4899	490.9468
762.5057	491.4892
758.473	529.2574
846.5063	496.4053
786.5098	512.1703
820.5872	574.388

858.5066	489.7902
856.6752	662.1647
852.6436	654.112
886.7246	775.5323
880.675	707.9553
878.6599	660.3987
770.5097	524.5181
769.5884	575.388
634.4801	485.267
883.5586	610.2556
826.5706	584.3496
760.5112	510.0961
760.5155	547.3721
873.4781	498.9447
874.6519	838.7625
925.5103	507.0619
939.5823	384.897
898.6558	674.8813
765.5256	522.296
810.6546	562.6279
843.5909	580.7249
903.668	930.4666
849.6928	834.5807
571.3566	395.5193
621.2998	369.8685
642.3613	380.568
665.2677	367.2137
822.5115	592.7711
903.5928	930.5803
937.6779	852.8342
935.6625	801.2615
963.6932	867.1291
892.6249	580.6204
912.5987	704.9136
927.6355	835.1768
612.3247	391.258
626.3657	406.2438
682.3633	379.3445
696.379	379.3138
760.4115	549.0091
810.5259	538.8523
842.5881	582.8274
812.542	535.7942
866.5266	521.8436
836.5425	531.7937
860.6353	804.8823
874.6518	704.1785

866.5885	567.3681
888.671	874.2853
880.5117	485.005
918.6153	705.2608
694.5045	560.7003
774.564	470.2316
782.5326	470.6887
862.5195	566.568
796.5448	584.3852
676.455	464.2213
746.4571	534.7493

653.1423	508.5104
558.4852	491.732
644.5967	563.5627
692.4173	479.4602
618.485	809.9121
727.5141	501.4815
879.6548	981.7212
758.6471	528.3549
828.6279	558.1155
856.6593	592.6172
864.6537	785.3472
887.5632	509.6952
700.5716	498.9723
756.6331	558.4371
832.6598	603.2821
906.7024	867.8656
462.3419	351.2584
710.5237	508.1951
590.4536	685.0533
682.561	498.9335
739.6265	558.4253
626.3666	392.5178
482.4188	395.4073
416.2673	397.6259
386.2871	556.0152
701.5587	494.2684
799.6662	605.7516
827.6977	651.0702
790.7595	636.554
839.6968	634.972
703.5746	513.8561
729.5929	520.4912
809.6522	565.774
885.647	819.7948

801.682	642.6599
837.6816	602.1784
835.6663	625.3192
851.6985	834.6199
879.6755	870.3595
783.6396	558.7424
811.6683	594.0029
302.3051	320.4642
424.2206	368.9778
411.297	557.7337
465.3467	351.7982

330.0679	282.6432
316.2479	305.97
370.2945	337.8977
344.2794	329.6798
394.2944	337.8962
460.2828	385.3556
462.2976	386.2562
422.3243	356.775
424.3415	358.5639
450.354	362.2456
414.3577	370.9839
468.333	358.4351
448.3413	358.1214
472.3402	357.2501
618.3073	425.7458
430.3799	377.9289

423.2714	321.271
639.4755	409.2485
613.4419	411.2056
557.4146	481.2763
583.4328	487.5151
585.4478	501.937
542.4841	512.2676
675.5148	528.0009
731.5026	533.372
745.4472	535.5257
771.4505	551.9693
755.5759	575.0075
685.5364	611.1223
825.6727	611.9264
791.6344	617.0642
687.5523	646.6503

713.5676	654.0876
739.5833	656.073
715.5835	688.4914
741.599	693.1004
767.6146	705.4421
743.6149	733.9527
764.6749	744.7748
769.6306	744.9155
795.6451	755.2363
871.677	761.4977
909.7005	765.4246
745.6307	780.2241
766.6906	791.9471
771.6462	792.1547
873.6921	800.803
834.753	804.5006
792.7061	804.8023
797.6619	805.6087
899.7085	814.5289
915.6813	814.8243
949.7236	831.9067
886.7838	834.4811
920.7677	850.3817
925.7241	851.4848
912.7995	852.233
875.7083	852.2877
921.7011	853.1179
837.6928	854.3795
815.7121	856.4546
799.6773	861.5427
901.7237	865.8484
896.7687	866.229
938.8148	866.8376
947.7158	867.5763
825.693	877.8757
841.6667	877.9102
959.7861	879.3481
951.739	886.5428
889.7241	887.9806
888.7999	893.4633
846.7534	893.7525
913.6785	893.9344
661.5376	903.3773
927.739	903.6012
874.778	910.9059
840.712	919.2533
940.8304	929.1141

865.7242	935.5399
843.7413	938.7949
864.7999	943.6408
827.7087	943.6621
822.7536	943.9043
889.6789	944.603
953.7541	949.9097
924.7994	951.1391
930.7583	951.3562
891.7398	951.7587
853.7241	960.928
890.8156	960.928
831.7425	961.5648
915.6945	961.7181
862.7833	962.0389
894.8005	962.0444
813.7315	964.3142
874.7846	979.2138
916.831	979.5425
941.7099	980.7329
819.7419	991.6513
887.7863	991.9422
841.7243	992.3833
905.7552	998.2575
659.5237	999.9497
942.8463	1000.134
947.7439	1020.987
932.7744	1021.096
892.8312	1036.65
833.7581	1037.079
923.7267	1037.78
917.7096	1038.725
919.7708	1045.136
859.7737	1056.303
918.8468	1056.757
943.7252	1058.216
957.786	1058.808
933.7867	1098.227
904.8313	1168.679
946.8776	1169.28
932.862	1170.043
935.8023	1189.634
961.8177	1217.512
911.8027	1273.249
798.6419	556.6205

342.2635	317.9653
767.5396	545.941
905.68	1001.132
901.6459	865.8462
817.6092	750.3271

741.1946	534.54
725.1635	534.2915
838.1427	591.9708
891.2275	867.7132
580.2923	386.1644
853.2167	964.1982
751.128	507.8768

435.3119	711.1957
922.732	999.7683
754.2438	507.7178
647.5951	629.2842
213.146	297.3825
759.5718	529.3573
591.5341	1028.35
684.5301	560.5264
604.2933	376.3185
485.3586	448.194
396.31	343.7769
605.5494	570.4971
299.1613	332.3172
167.0701	320.2427
197.044	616.3268
181.0494	346.2316
454.8238	686.6308
856.212	918.3396
222.1804	350.4332
498.2027	371.8794
263.2364	1062.199
365.132	339.7252
557.9471	972.0942
765.034	526.1175
359.1666	523.9162
738.042	519.9767
770.0212	532.4018
736.0195	526.7684
249.021	344.8601
535.2086	318.622
462.2972	563.3703

446.1193	508.1084
257.19	375.8813
225.0935	318.9698
795.048	526.5268
214.9888	475.2127
463.2988	600.5343
297.2402	376.5379
689.6432	704.9442
857.8256	982.3291
356.3519	431.1123
293.1812	395.3873
417.3138	627.5791
878.1522	679.5263
325.1619	422.428
502.3287	513.5795
675.9178	392.5194
371.1005	535.0602
223.9628	652.2901
104.1067	401.4274
327.0814	331.1091
224.0923	343.0631
472.2467	363.6764
347.1342	345.3191
839.0203	405.5836
767.0493	542.6586
261.1095	288.688
487.293	398.8344
777.6947	861.6933
248.9767	474.2849
815.0472	517.9969
279.0989	318.0419
390.0741	533.3688
646.3385	448.9202
644.3214	431.578
657.3207	376.184
295.1935	408.9782
316.1491	404.8291
262.9159	473.5694
436.3541	417.0342



**Putative ID****LYSOGLYCEROPHOSPHOLIPIDS**

LysoPC(18:1)  
LysoPC(18:2)  
LysoPC(20:0)  
LysoPC(20:4)  
LysoPC(22:0)  
LysoPC(22:2)  
LysoPC(22:5);LysoPC(20:2)  
LysoPC(24:1)  
LysoPC(dm16:0)  
LysoPC(dm18:1)  
LysoPC(dm18:1)  
LysoPE(18:0)

**GLYCEROPHOSPHOLIPIDS**

PA(32:0)  
PA(34:1)  
PA(42:2)  
PA(43:6)  
PA(44:0)  
PA(44:1);PS(38:0)  
PA(44:2)  
PA(44:4)  
PA(44:6);PA(42:3)  
PA(O-18:0/19:1);PA(O-20:0/17:1);PA(P-16:0/21:0);PA(P-18:0/19:0);PA(P-20:0/17:0)  
PA(P-16:0/13:0)  
PC(15:0/dm18:0);PE(18:0/dm18:0);PE(20:0/dm16:0)  
PC(18:0/dm18:1);PC(18:1/dm18:0);PC(20:1/dm16:0);PC(P-18:0/18:1);PC(18:2/O-18:0)  
PC(18:4/dm18:1);PC(20:5/dm16:0);PC(16:1/dm18:1);PC(18:2/dm16:0);PC(O-16:0/18:3);PC(O-16:0/18:3);PC(P-16:0/18:3)  
PC(20:1/24:1);PC(20:2/24:0);PC(44:2)  
PC(20:1/dm18:1);PC(20:2/dm18:0);PC(22:2/dm16:0)  
PC(21:4);PC(O-16:0/3:1)  
PC(24:0/dm18:1);PC(24:1/dm18:0)  
PC(24:1/dm18:1)  
PC(32:3);PE(35:3);PC(32:0);PC(30:0);PE(33:0);PE-NMe(32:0);PA(37:4)  
PC(33:1);PE(36:1);PE-NMe2(34:1);PA(38:2);PC(O-14:0/O-16:0);PE-NMe(O-16:0/O-16:0)  
PC(34:0);PE(37:0);PE-NMe(36:0)  
PC(34:1);PE(37:1);PA(39:2);PE-NMe2(O-16:0/O-16:0)  
PC(35:1);PE(38:1);PA(40:2);PC(O-12:0/O-20:0);PC(O-14:0/O-18:0);PC(O-16:0/O-16:0);PC(O-20:0/O-12:0)  
PC(35:2);PE(38:2);PE-NMe2(36:2)  
PC(36:2);PA(41:3)  
PC(36:3);PC(34:0);PE(37:0);PE-NMe(36:0);PA(41:4)  
PC(36:5);PC(34:2);PE(37:2);PE-NMe(36:2);PA(41:6)  
PC(37:1);PE(40:1);PA(42:2);PC(O-16:0/O-18:0)

PC(38:1);PA(43:2)  
PC(38:5);PC(36:2);PA(43:6)  
PC(39:1);PE(42:1);PA(44:2);PC(O-18:0/O-18:0)  
PC(39:1);PE(42:1);PA(44:2);PC(O-18:0/O-18:0)  
PC(40:1)  
PC(40:2)  
PC(40:3);PC(38:0);PE(41:0);PE-NMe(40:0)  
PC(40:4);PS(O-20:0/19:1);PS(P-18:0/21:0);PS(P-20:0/19:0)  
PC(40:5);PC(38:2)  
PC(42:1)  
PC(42:11);PC(40:8);PC(38:5);PC(18:2/dm18:1);PC(18:3/dm18:0);PC(20:3/dm16:0);PC(O-16:0/20:4)  
PC(42:3);PC(40:0);PE(43:0)  
PC(42:5);PC(40:2)  
PC(42:6);PC(40:3);PC(38:0);PE(41:0);PE-NMe(40:0)  
PC(42:9)  
PC(44:12);PC(42:9);PC(40:6);PE(43:6);PS(38:0);PC(20:3/dm18:1);PC(20:4/dm18:0);PC(22:4/dm16:0);PC(O-16:0/22  
PC(44:6);PC(42:3);PC(40:0);PE(43:0)  
PC(O-14:0/22:0);PC(O-16:0/20:0);PC(O-18:0/18:0);PC(O-20:0/16:0);PA(P-20:0/21:0)  
PC(O-16:0/22:0);PC(O-18:0/20:0)  
PC(O-16:2)  
PC(O-18:0/3:1)  
PC(O-20:0/22:6)  
PC(O-3:1/O-18:1);PC(P-3:0/O-18:1)  
PC(P-20:0/22:6)  
PE(14:0/dm18:1);PE(14:1/dm18:0);PE(16:1/dm16:0)  
PE(18:2/dm18:1);PE(18:3/dm18:0);PE(20:3/dm16:0);PE(O-16:0/20:4);PC(15:0/dm16:0);PE(16:0/dm18:0);PE(18:0/  
PE(18:3/dm18:1);PE(18:4/dm18:0);PE(20:4/dm16:0);PE(16:0/dm18:1);PE(16:1/dm18:0);PE(18:1/dm16:0);PnE(34:  
PE(18:4/dm16:0);PA(P-16:0/20:5)  
PE(18:4/dm18:1);PE(20:5/dm16:0);PE(16:1/dm18:1);PE(18:2/dm16:0);PA(P-16:0/22:6);PC(O-14:0/15:0);PE(O-16:0/  
PE(20:1/dm18:1);PE(20:2/dm18:0)  
PE(20:1/dm18:1);PE(20:2/dm18:0)  
PE(22:0/dm18:1);PE(22:1/dm18:0);PE(24:1/dm16:0)  
PE(22:4/dm18:0);PE(20:0/dm18:1);PE(20:1/dm18:0);PE(22:1/dm16:0);PA(O-20:0/22:6)  
PE(22:4/dm18:1);PE(22:5/dm18:0)  
PE(22:5/dm18:1);PE(22:6/dm18:0);PE(P-18:0/22:6);PC(34:1);PE(37:1);PC(34:1);SQDG(31:0);PE(20:2/dm18:1);PE(2  
PE(24:0/dm18:1);PE(24:1/dm18:0)  
PE(24:1/dm18:1)  
PE(28:1)  
PE(28:1);PC(O-10:0/O-12:0);PC(O-11:0/O-11:0);PC(O-16:0/O-6:0);PC(O-6:0/O-16:0)  
PE(30:0);PC(27:0)  
PE(34:2)  
PE(38:7);PC(33:4);PE(36:4);PC(31:1);PE(34:1);PC(O-14:0/15:0);PE(O-16:0/16:0)  
PE(38:7);PC(33:4);PE(36:4);PC(31:1);PE(34:1);PC(O-14:0/15:0);PE(O-16:0/16:0)  
PE(38:9);PE(36:6);PS(O-16:0/16:1);PS(O-18:0/14:1);PS(P-16:0/16:0);PS(P-18:0/14:0);PS(P-20:0/12:0);PA(40:10);PE  
PE(40:6);PS(36:2)  
PE(40:9);PA(42:10);PI(29:0)  
PE(42:5);PC(39:5);PC(37:2);PE(40:2);PA(44:6)

PE(44:12);PS(P-18:0/22:6);PE(22:6/dm18:1)  
PE(44:2)  
PE(44:4);PC(39:1);PE(42:1);CerP(d18:1/26:1);PC(O-18:0/O-18:0)  
PE(46:1);PC(O-20:0/O-20:0)  
PE(46:4);PE(44:1)  
PE(46:5);PE(44:2)  
PE(O-16:1/22:6);PE(20:5/dm18:1);PE(22:6/dm16:0);PC(32:1);PE(35:1);PE-NMe(34:1);PE(18:2/dm18:1);PE(18:3/dm18:1);PE(O-18:1/20:4);PE(20:3/dm18:1);PE(20:4/dm18:0);PE(22:4/dm16:0);PE(O-16:0/22:5);PE(O-18:0/20:5);DG(41:0)  
PE(P-16:0/13:0);PA(P-16:0/15:1)  
PE(P-20:0/22:4)  
PE(P-20:0/22:6);PC(36:1);PE(39:1);PC(36:2);PC(O-17:0/20:4)  
PG(34:4)  
PG(34:4)  
PG(38:4)  
PG(42:3)  
PG(42:6)  
PG(44:4);PA(44:1)  
PG(44:5)  
PG(O-16:0/17:1);PG(O-18:0/15:1);PG(P-16:0/17:0);PG(P-18:0/15:0);PG(P-20:0/13:0)  
PG(O-20:0/18:0);PG(O-18:0/20:0);PG(O-16:0/22:0)  
PG(O-20:0/19:1(9Z));PG(P-18:0/21:0);PG(P-20:0/19:0);PA(P-20:0/21:0)  
PG(O-20:0/21:0)  
PG(O-20:0/22:0)  
PI(16:1)  
PI(18:1)  
PI(20:2)  
PI(20:4)  
PI(32:3)  
PI(39:3);PI(37:0)  
PI(41:0)  
PI(41:1)  
PI(43:1)  
PI(O-18:0/20:3);PI(O-20:0/18:3);PI(P-16:0/22:2);PI(P-18:0/20:2);PI(P-20:0/18:2)  
PI(P-18:0/22:6)  
PI(P-20:0/22:4)  
PS(21:0);LysoPC(20:4);PC(20:4);LysoPC(18:1);PC(O-16:1/2:0);PC(P-16:0/2:0);PC(18:1)  
PS(22:0)  
PS(25:0);PC(23:0);PE(26:0);PE-NMe2(24:0);PC(22:1)  
PS(26:0);PC(24:0);PE(27:0)  
PS(31:3);PE(32:3);PE(31:4)  
PS(36:2);PG(38:7);PC(33:3);PE(36:3);PA(38:4);PC(31:0);PE(34:0);PE-NMe2(32:0);PC(31:0)  
PS(38:0);PG(40:5);PE(38:1)  
PS(38:4);PS(36:1);PC(33:2);PE(36:2);  
PS(39:3);PC(20:4/dm18:1);PC(20:5/dm18:0);PC(22:5/dm16:0);PC(O-38:6);PC(36:4);PE(22:5/dm18:1);PE(22:6/dm18:1);PS(40:6);PG(40:8);PS(36:0);PC(35:4);PE(38:4);PE-NMe2(36:4);PC(33:1);PE(36:1);PE-NMe2(34:1);PE(O-18:0/O-18:0)  
PS(41:1);PG(41:3)  
PS(42:1)

PS(42:5);PG(42:7);PE(40:3);PC(37:3);PC(35:0);PE(38:0);PE-NMe2(36:0)  
 PS(43:1)  
 PS(44:12);PS(42:9);PS(40:6);PE(42:10);PS(O-18:0/20:5);PS(P-16:0/22:4);PS(P-20:0/18:4);PS(P-18:0/20:4);PE(40:7)  
 PS(44:4);PC(40:1);PE(44:5);PS(O-20:0/20:0);PS(O-18:0/22:0);PE(42:2)  
 PS(O-16:0/14:0);PS(O-18:0/12:0);PG(P-16:0/14:1)  
 PS(O-16:0/20:2);PS(O-18:0/18:2);PS(P-16:0/20:1);PS(P-20:0/16:1);PS(P-18:0/18:1)  
 PS(O-18:0/17:2);PS(P-16:0/19:1);PS(P-18:0/17:1);PS(P-20:0/15:1);PC(14:1/dm18:1);PC(O-14:0/18:3)  
 PS(O-18:0/20:5);PS(P-16:0/22:4);PS(P-20:0/18:4);PS(P-18:0/20:4);PS(O-16:0/20:2);PS(O-18:0/18:2);PS(P-16:0/20:1)  
 PS(O-18:0/20:5);PS(P-16:0/22:4);PS(P-20:0/18:4);PS(P-18:0/20:4);PS(O-16:0/20:2);PS(O-18:0/18:2);PS(P-16:0/20:1)  
 PS(P-16:0/13:0)  
 PS(P-16:0/13:0)

### SPHINGOLIPIDS AND CERAMIDES

Cer(d18:0/24:0)  
 Cer(d18:2/16:0)  
 Ceramide (d18:1/22:0)  
 CerP(d18:1/16:0)  
 CerP(d18:1/16:0)  
 Etn-1-P-Cer(d14:1/18:0)  
 Galabiosylceramide (d18:1/16:0);Lactosylceramide (d18:1/16:0);SM(d18:2/24:1);SM(d18:0/22:0);  
 GlcCer(d18:0/20:0)  
 GlcCer(d18:0/22:0)  
 GlcCer(d18:0/24:0)  
 GlcCer(d18:2/23:0);GalCer(d18:2/23:0)  
 Glc-GP(38:4)  
 Glucosylceramide (d18:1/16:0);Galactosylceramide (d18:1/16:0);GlcCer(d18:1/16:0)  
 Glucosylceramide (d18:1/20:0);Galactosylceramide (d18:1/20:0)  
 Glucosylceramide (d18:1/24:1);Galactosylceramide (d18:1/24:1)  
 Glucosylceramide (d18:1/26:1);Galactosylceramide (d18:1/26:1)  
 Glucosylsphingosine;Galactosylsphingosine  
 N-(2-hydroxydocosanoyl)-4,8-sphingadienine  
 N-(2-hydroxyhexadecanoyl)-4,8-sphingadienine  
 N-(2-hydroxynonadecanoyl)-phytosphingosine  
 N-(2-hydroxytricosanoyl)-phytosphingosine  
 N-(2-hydroxytridecanoyl)-4,8-sphingadienine  
 N-(2-hydroxyundecanoyl)-4,8-sphingadienine  
 N,N,N-trimethyl-sphingosine  
 Phytosphingosine;hydroxysphinganine  
 SM(d16:1/18:1);SM(d18:1/16:1);SM(d18:2/16:0)  
 SM(d17:1/24:1);SM(d18:2/23:0)  
 SM(d17:1/26:1);SM(d18:2/25:0);SM(d19:1/24:1)  
 SM(d18:0/22:0)  
 SM(d18:0/24:0)  
 SM(d18:1/16:0)  
 SM(d18:1/18:1)  
 SM(d18:1/22:0)  
 SM(d18:1/23:0)

SM(d18:1/23:0);CerP(d18:1/26:1)  
SM(d18:1/24:0);SM(d18:0/24:1)  
SM(d18:1/24:1)  
SM(d18:1/25:0)  
SM(d18:1/26:1)  
SM(d18:2/22:1)  
SM(d18:2/24:1);SM(d18:0/22:0)  
Sphinganine  
Sphingosine 1-phosphate  
Sphingosine-1-phosphate (C19)  
Sphingosyl-phosphocholine

**ACYL CARNITINES**

Acetylcarnitine  
Decanoylcarnitine  
Tetradecenoylcarnitine  
Dodecanoylcarnitine  
Tetradecanoylcarnitine  
Arachidonoyl dopamine;Linoelaidyl carnitine;Linoleyl carnitine  
Linoelaidyl carnitine;Linoleyl carnitine  
Palmitoylcarnitine  
Linoelaidyl carnitine;Linoleyl carnitine  
Stearoylcarnitine  
Heptadecanoyl carnitine  
Linoelaidyl carnitine;Linoleyl carnitine  
Eicosatetranoyl carnitine;Vaccenyl carnitine;Elaidic carnitine;octadecenoyl carnitine  
Cervonyl carnitine  
Tetracosapentaenoyl carnitine  
Stearoylcarnitine

**ACYL GLYCERIDES**

MG(18:2)  
DAGe(30:1);DG(33:1)  
DAGe(30:1)  
DG(28:0)  
DG(32:4);DG(30:1)  
DG(32:3)  
DG(30:0)  
DG(35:2)  
DG(42:8)  
DG(40:10)  
DG(39:6)  
DG(41:4);DG(39:1)  
TG(38:2)  
TGe(48:3)  
TG(42:0)  
TG(38:1)

TG(40:2)  
TG(42:3)  
TG(42:4)  
TG(42:2)  
TG(46:6)  
TG(44:4)  
TG(44:2)  
TG(46:5)  
TG(46:3)  
TG(54:10)  
TG(57:12)  
TG(44:3)  
TG(44:1)  
TG(46:4)  
TG(52:6)  
TG(49:2)  
TG(46:2)  
TG(48:5)  
TG(56:10)  
TG(54:7)  
TG(60:13)  
TG(53:4)  
TG(56:8)  
TG(58:11)  
TG(55:5)  
TG(54:8)  
TG(58:13)  
TG(51:6)  
TG(49:3)  
TG(48:4)  
TG(56:9)  
TG(54:6)  
TG(57:6)  
TG(60:14)  
TG(50:5)  
TG(48:2)  
TGe(58:6)  
TG(60:12)  
TG(55:8)  
TG(53:3)  
TG(48:3)  
TGe(52:5)  
TG(36:0)  
TG(58:10)  
TG(52:4)  
TG(51:5)  
TG(57:5)

TG(53:6)  
TG(51:3)  
TG(51:1)  
TG(49:4)  
TG(48:1)  
TGe(50:3)  
TG(58:8)  
TG(56:6)  
TG(57:10)  
TG(55:7)  
TG(52:5)  
TG(53:2)  
TG(50:2)  
TGe(52:4)  
TG(51:2)  
TGe(56:6);TGe(54:3)  
TGe(50:4)  
TG(52:3)  
TG(55:3)  
TGe(54:5)  
TG(49:1)  
TGe(52:0)  
TG(51:4)  
TG(54:4)  
TG(36:1)  
TG(57:4)  
TG(56:5)  
TG(57:9)  
TG(53:1)  
TG(50:1)  
TGe(54:6);TG(51:0);TG(52:4);TG(50:1)  
TGe(52:3)  
TG(57:7)  
TG(52:2)  
TG(55:2)  
TGe(54:4)  
TG(60:9)  
TG(58:7)  
TG(54:2)  
TG(57:2)  
TG(56:2)  
TG(56:3)  
TG(60:8)  
TG(56:4)

#### UBIQUINONES AND RELATED METABOLITES

3-Demethylubiquinone-9

Decylubiquinol  
 Ubiquinol 8  
 Ubiquinol-10  
 Ubiquinone-10;Ubisemiquinone  
 Ubiquinone-9

### PORPHYRINS

131-hydroxy-magnesium-protoporphyrin IX 13-monomethyl ester  
 2-Acetyl-Protoporphyrin Ix  
 Coproporphyrin I Containing Co(III)  
 Heptacarboxylporphyrin III  
 Protoporphyrin;Protoporphyrin IX  
 Uroporphyrin III;Uroporphyrin I  
 Zinc protoporphyrin-9

### OTHERS

(24R)-1alpha,24,25-trihydroxy-22-oxavitamin D3;(24S)-1alpha,24,25-trihydroxy-22-oxavitamin D3;(25R)-1alpha,25  
 1,2-didocosanoyl-sn-glycero-3-phosphosulfocholine  
 10-Formyltetrahydrofolylpolyglutamate;Triglu-5-Formyl-Tetrahydrofolate  
 1-hexadecyl-tricosanoate  
 1-Nonanol  
 1-O-alpha-D-glucopyranosyl-(2-tetradecanoyloxy)-eicosan-1-ol;CE(18:3)  
 1-octadecyl-heptadecanoate  
 1-tetradecanoyl-2-(8-[3]-ladderane-octanyl)-sn-glycerophosphoethanolamine  
 2-(8-[3]-ladderane-octanyl)-sn-glycero-3-phosphocholine  
 2alpha-(3-Hydroxypropyl)-1alpha,25-dihydroxy-19-norvitamin D3;MG(24:1);hexacosenoic acid  
 2-Arachidonoylglycerol;1-Arachidonoylglycerol;9-deoxy-9-methylene-16,16-dimethyl -PGE2;3alpha,7alpha,12alph  
 2-octadecanoyl-1-hexadecyl-sn-glycerol;decyl hexacosanoate;dodecyl tetracosanoate;eicosanyl hexadecanoate;h  
 2-Polyprenylphenol;Tridecanoic acid;methyl lauric acid;dimethyl-undecanoic acid  
 3-(2-Hydroxyphenyl)propanoate;Tropate;Phenyllactate;Methoxyphenylacetic acid;Phenoxypropionic acid  
 3-(3,4-Dihydroxyphenyl)pyruvate;3,4,6-trihydroxy-cis-cinnamate  
 3-(4-Hydroxyphenyl)pyruvate;Caffeate;2-Hydroxy-3-(4-hydroxyphenyl)propenoate;trans-2,3-Dihydroxycinnamate;  
 3,5-Diiodo-4-hydroxyphenylpyruvate  
 3-Hydroxyisopentyl-CoA  
 3-Hydroxy-N6,N6,N6-trimethyl-L-lysine  
 3-Sulfodeoxycholic acid  
 4-Dodecylphenol;6-[3]-ladderane-1-hexanol  
 4-Hydroxy-3-polyprenylbenzoate  
 5-hydroxy-CTP  
 6-(Adenosine Tetrphosphate-Methyl)-7,8-Dihydropterin;3',5'-Cyclic diGMP  
 6-(alpha-D-Glucosaminy)-1D-myo-inositol;Lactosamine  
 Adenophostin A  
 Adenophostin B  
 ADP-D-glycero-D-manno-heptose;ADP-L-glycero-D-manno-heptose  
 Allantoin  
 all-trans-Retinoyl-beta-glucuronide;13-cis-retinoyl-beta-D-glucuronide  
 Arachidonoyl dopamine



benzyladenine-7-N-glucoside;benzyladenine-9-N-glucoside  
Deoxyestradiol  
Descarboxy-nor-N(Omega)-Hydroxy-L-Arginine  
Diadenosine triphosphate  
Diethylthiophosphoric acid  
dihydroxy-docosanoic acid  
dimethyl-tridecanol  
docosanyl icosanoate;eicosanyl docosanoate;hexacosanyl hexadecanoate;hexadecyl hexacosanoate;tetradecyl oc  
dotriacontanyl docosanoate;triacontanyl tetracosanoate;tetratriacontanyl icosanoate  
Eicosanoyl-EA  
Epsilon-(gamma-Glutamyl)-lysine  
ergostatetraenol  
Flavin adenine dinucleotide reduced;FADH<sub>2</sub>;FADH  
Galactosylhydroxylysine  
Gallopamil;N-(2R-methyl-3-hydroxy-ethyl)-16,16-dimethyl-5Z,8Z,11Z,14Z-docosatetraenoyl amine;N-(2-hydroxy-2  
Gamma-Methyleneadenosine-5'-Diphosphate  
Geranylbenzoquinone;Hexadecatetraenynoic acid  
L-Serine O-sulfate  
L-Valinol;Choline  
N-Acetyl-aspartyl-glutamate;3-Methyluridine  
N-Acetyl-L-tyrosine;N-benzoyloxycarbonyl-L-serine-betalactone;2-Hydroxy-8-methylchromene-2-carboxylate;2-Hyd  
N-arachidonoyl glutamic acid  
N-Benzoyl-D-arginine  
Nicotinamide 8-Bromo-Adenine Dinucleotide Phosphate  
Nicotinic acid adenine dinucleotide phosphate;Guanosine diphosphate adenosine  
Nomega, Nomega'-Dimethyl-L-arginine;Symmetric dimethylarginine;N,N-dimethylarginine;N<sub>3</sub>, N<sub>4</sub>-Dimethylarginin  
N-palmitoyl tryptophan;4alpha-carboxy-5alpha-cholesta-8,24-dien-3beta-ol;(22Z)-1alpha,25-dihydroxy-20-epivita  
O-(4-Hydroxy-3,5-diiodophenyl)-3,5-diiodo-L-tyrosine;thyroxine  
Oxalosuccinate  
P<sub>1</sub>,P<sub>2</sub>-Bis(5'-adenosyl) triphosphate;P<sub>1</sub>,P<sub>3</sub>-Bis(5'-adenosyl) triphosphate;Diadenosine triphosphate;5',5'-diadenosi  
p-Methoxystilbene;Hexyloxyphenol  
S-(2-Hydroxyethyl)glutathione  
S-(9-hydroxy-PGA<sub>1</sub>)-glutathione;S-(11-hydroxy-9-deoxy-delta<sup>12</sup>-PGD<sub>2</sub>)-glutathione  
S-(PGA<sub>1</sub>)-glutathione;Gsh-prostaglandin A<sub>1</sub>;10,11-dihydro-12R-hydroxy-leukotriene C<sub>4</sub>;S-(9-hydroxy-PGA<sub>2</sub>)-glutat  
S-(PGA<sub>2</sub>)-glutathione;S-(PGJ<sub>2</sub>)-glutathione;S-(9-deoxy-delta<sup>9,12</sup>-PGD<sub>2</sub>)-glutathione  
Tetradecyl Sulfate  
Tetraethylenepentamine  
Thiopyrophosphate  
Tricosanoyl-EA

SN Control	SN STZ	SN Mean L	SN I-95% C	SN u-95% C	SN p-value	SN FDR	DRG Contr
6	6	-0.64155	-0.93357	-0.35614	0.003948	0.008688	6
6	6	0.915936	0.713119	1.120294	0.003948	0.00025	6
5	5	0.713119	0.454032	0.971431	0.009023	0.089644	5
6	6	-0.18903	-0.33342	-0.04264	0.037373	0.059549	6
6	6	0.556393	0.321928	0.785875	0.003948	0.005262	6
2	6	0.888969	0.454032	1.395929	0.0455	0.050085	3
5	6	0.494109	0.268817	0.68966	0.00617	0.021012	6
4	6	2.473931	1.029146	3.321928	0.010515	0.098448	1
6	6	0.862496	0.556393	1.152003	0.003948	0.00695	6
6	6	-1.20789	-2.5008	-0.38957	0.016309	0.040885	0
6	6	-0.23879	-0.40054	-0.08406	0.010406	0.039404	6
6	6	0.340075	0.217591	0.473931	0.003948	0.003746	6
4	4	0.713119	0.37707	1.089267	0.020921	0.093927	1
5	5	0.761213	0.395929	1.120294	0.009023	0.097951	1
6	2	-2.91839	-3.19061	-2.59932	0.0455	0.003203	2
6	6	0.104697	0.0145	0.200913	0.016309	0.079231	6
6	2	-2.62994	-3.10936	-2.08746	0.0455	0.011057	3
6	6	-2.17632	-2.67807	-1.73552	0.003948	0.002501	1
6	3	-2.79701	-3.82985	-2.10434	0.020137	0.003943	3
5	4	-0.848	-1.24489	-0.41143	0.014306	0.04275	1
5	6	0.888969	0.666576	1.089267	0.00617	0.06111	6
6	6	0.217591	0.089267	0.358454	0.016309	0.03218	4
3	5	0.454032	0.136062	0.761213	0.025347	0.06177	5
6	6	0.168123	0.043943	0.286304	0.024975	0.05502	6
6	4	-0.52607	-0.85599	-0.21412	0.010515	0.032743	6
3	6	0.599462	0.395929	0.810966	0.020137	0.006366	3
6	6	-0.9855	-1.4489	-0.41143	0.006485	0.064097	6
6	6	-0.26303	-0.44361	-0.07039	0.024975	0.059726	6
6	6	0.643856	0.168123	1.184425	0.037373	0.058134	6
6	3	-1.4957	-2.1177	-0.87971	0.020137	0.022661	5
6	6	-0.23879	-0.44361	-0.04264	0.010406	0.077955	5
6	6	-0.37851	-0.51602	-0.23879	0.003948	0.006115	6
6	6	0.200913	0.074001	0.321928	0.016309	0.035091	6
5	6	0.514573	0.304006	0.713119	0.00617	0.104017	6
5	5	0.251539	0.089267	0.415037	0.009023	0.041726	5
6	6	0.713119	0.535332	0.888969	0.003948	0.000851	6
6	5	-0.31034	-0.65076	0	0.04461	0.148874	5
6	6	0.340075	0.184425	0.473931	0.003948	0.025311	6
6	6	0.415037	0.268817	0.556393	0.003948	0.015278	6
6	6	-0.926	-1.38405	-0.41143	0.003948	0.048218	4
6	6	0.434403	0.136062	0.736966	0.024975	0.053209	4

6	6	0.415037	0.268817	0.556393	0.003948	0.004088	6
6	6	-0.74846	-0.926	-0.58496	0.003948	0.00024	6
6	6	0.643856	0.251539	1	0.010406	0.053817	6
6	6	0.577767	0.168123	0.971431	0.024975	0.062865	6
6	6	0.304006	0.120294	0.494109	0.016309	0.034962	6
6	6	0.68966	0.434403	0.915936	0.003948	0.017685	6
6	6	1.058894	0.761213	1.358454	0.003948	0.00863	6
6	6	-0.53605	-0.91073	-0.17632	0.010406	0.043108	6
6	6	-0.44361	-0.64155	-0.26303	0.003948	0.0059	6
6	6	-0.54597	-0.87184	-0.18903	0.016309	0.060795	6
6	3	-1.19535	-1.66903	-0.7137	0.020137	0.016656	6
6	6	-1.50589	-2.28392	-0.70487	0.003948	0.050085	6
6	5	-0.35614	-0.60407	-0.11103	0.010587	0.050878	6
6	6	0.666576	0.494109	0.836501	0.003948	0.001063	6
4	6	1.120294	0.736966	1.473931	0.010515	0.093927	5
6	6	-0.07039	-0.50589	0.304006	0.262332	0.787146	6
2	6	1.152003	0.514573	1.736966	0.0455	0.046599	3
6	6	-1.32193	-2.49313	-0.65076	0.006485	0.010944	2
6	4	-1.68706	-2.62059	-1.04963	0.010515	0.004494	0
6	6	-0.21412	-0.36737	-0.07039	0.016309	0.04633	6
6	6	0.340075	0.089267	0.577767	0.006485	0.061068	6
6	6	-0.43296	-0.62293	-0.25096	0.003948	0.006467	6
5	6	0.862496	0.535332	1.120294	0.00617	0.027343	2
0	6						6
6	6	-0.51602	-0.85599	-0.18903	0.016309	0.039861	6
6	6	0.621488	0.358454	0.888969	0.003948	0.018311	6
6	6	-0.17632	-0.29866	-0.04264	0.024975	0.078805	5
6	6	1.736966	1.358454	2.184425	0.003948	0.001763	0
6	6	-0.22651	-0.37851	-0.07039	0.016309	0.04967	6
5	6	-0.93357	-1.30451	-0.59455	0.00617	0.06111	6
6	6	-0.21412	-0.38957	-0.04264	0.016309	0.065709	6
6	5	0.736966	0.217591	1.184425	0.02846	0.081945	6
5	5	-0.53605	-0.91839	-0.20163	0.009023	0.036084	6
6	6	-0.20163	-0.38957	-0.02857	0.024975	0.092291	6
6	6	-0.28688	-0.45418	-0.12433	0.006485	0.024951	6
6	3	0.494109	0.234465	0.761213	0.020137	0.034214	1
5	6	1	0.68966	1.286304	0.00617	0.006253	6
6	5	-1.15704	-1.94111	-0.37851	0.00617	0.064699	6
5	6	2.643856	1.556393	3.643856	0.00617	0.054289	0
5	6	-0.64155	-0.9486	-0.35614	0.010587	0.083913	4
6	6	0.494109	0.304006	0.68966	0.003948	0.004686	6
5	5	-1.03562	-1.74846	-0.51602	0.009023	0.089644	6
5	5	0.454032	0.152003	0.761213	0.009023	0.049523	5
4	6	0.785875	0.340075	1.217591	0.010515	0.039188	4
6	6	1.395929	0.514573	2.736966	0.010406	0.0373	3
6	6	0.888969	0.736966	1.029146	0.003948	0.003992	6
5	6	0.666576	0.454032	0.862496	0.00617	0.078117	5

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5	6	1.184425	0.454032	1.736966	0.04461	0.079271	0
6	6	0.666576	0.304006	1.029146	0.010406	0.035348	6
6	6	0.666576	0.358454	0.943416	0.006485	0.026233	6
6	6	-0.96347	-1.50589	-0.52607	0.006485	0.007378	6
6	6	0.713119	0.340075	1.029146	0.003948	0.041607	6
4	4	1	0.395929	1.736966	0.020921	0.041204	3
6	6	-0.67807	-0.93357	-0.44361	0.003948	0.00209	6
6	6	-0.65992	-1.08406	-0.23879	0.010406	0.04349	6
6	6	-0.43296	-0.85599	-0.08406	0.037373	0.083725	6
6	6	-0.37851	-0.70487	-0.08406	0.024975	0.069411	6
6	6	-0.32193	-0.48543	-0.1635	0.010406	0.015417	6
5	4	-1.36737	-1.852	-0.73118	0.027486	0.058134	4
2	6	-0.90304	-1.8679	-0.32193	0.0455	0.041887	6
6	5	1.321928	0.888969	1.785875	0.00617	0.013853	0
6	2	0.535332	0.340075	0.736966	0.0455	0.091739	0
6	6	1.251539	0.577767	2	0.010406	0.033613	4
5	6	1.358454	1.152003	1.556393	0.00617	0.039302	6
5	6	1.434403	0.785875	2.058894	0.010587	0.032402	1
5	6	-0.60407	-0.99277	-0.27501	0.00617	0.097951	6
5	4	1.395929	0.810966	2	0.014306	0.038648	1
6	6	0.556393	0.340075	0.761213	0.003948	0.015664	6
6	6	0.395929	0.184425	0.621488	0.006485	0.02341	1
6	6	-1.4957	-1.95977	-1.12433	0.003948	0.00025	6
3	6	0.37707	0.120294	0.621488	0.020137	0.057116	6
6	6	0.713119	0.200913	1.286304	0.016309	0.057669	0
6	6	2.643856	2.120294	3.473931	0.003948	3.79E-05	6
6	4	0.888969	0.304006	1.599462	0.019016	0.05614	4
6	6	0.599462	0.321928	0.915936	0.003948	0.008952	5
5	6	0.454032	0.152003	0.785875	0.017622	0.046746	1
6	6	-1.08406	-1.48027	-0.774	0.003948	0.002927	1
6	6	-1.7866	-3.32912	-1.04264	0.003948	0.003569	0
6	6	0.473931	0.136062	0.836501	0.016309	0.047205	1
4	6	2.836501	2.473931	3.184425	0.010515	0.000999	4
6	6	-0.35614	-0.55582	-0.1635	0.024975	0.02175	6
6	4	-2.52857	-3.49953	-1.88362	0.010515	0.002136	1
6	5	-0.36737	-0.47508	-0.26303	0.00617	0.003395	6
3	6	2.473931	1.888969	2.943416	0.020137	0.093927	5
6	4	-0.61353	-0.926	-0.23879	0.033006	0.055985	6
6	6	-0.78241	-1.22651	-0.32193	0.010406	0.039861	6
6	5	0.168123	0.043943	0.304006	0.04461	0.070581	6
5	6	-0.61353	-0.9782	-0.27501	0.010587	0.023209	6
6	6	0.643856	0.395929	0.888969	0.003948	0.010529	6
6	6	-0.44361	-0.60407	-0.28688	0.003948	0.002742	6
6	6	-0.33342	-0.48543	-0.17632	0.003948	0.010529	6
6	6	-0.23879	-0.43296	-0.05658	0.024975	0.068113	6
6	2	-2.35614	-2.7866	-1.79077	0.0455	0.017607	1
6	6	-0.32193	-0.54597	-0.11103	0.010406	0.043178	6

6	6	0.943416	0.666576	1.251539	0.003948	0.001434	6
6	6	-2.85	-3.4957	-2.26003	0.003948	0.008825	5
6	6	-0.8953	-1.33914	-0.50589	0.003948	0.007996	6
6	6	-0.44361	-0.62293	-0.26303	0.003948	0.006428	6
4	6	-0.42223	-0.57531	-0.26303	0.010515	0.009727	6
6	6	1.599462	0.556393	2.395929	0.010406	0.095721	6
4	6	1.736966	0.415037	5.643856	0.033006	0.075161	5
5	6	-0.61353	-1	-0.27501	0.00617	0.096258	6
6	5	-0.53605	-0.91839	-0.15056	0.017622	0.056303	0
5	6	1.943416	1.358454	2.556393	0.00617	0.089644	2
6	6	-0.45418	-0.66903	-0.23879	0.006485	0.016266	6
6	6	-1.92979	-3.08236	-0.95606	0.010406	0.046599	6
6	6	-0.87971	-2.02857	-0.1635	0.037373	0.07347	6
5	6	1.184425	0.810966	1.514573	0.00617	0.017931	5
6	6	0.556393	0.104697	0.971431	0.016309	0.097933	6
5	5	-2.24793	-4.23802	-1.03562	0.009023	0.062779	5
6	6	-0.9782	-1.46467	-0.50589	0.006485	0.022704	6
6	6	-0.26303	-0.43296	-0.11103	0.003948	0.034229	1
6	6	0.666576	0.340075	1	0.003948	0.014972	6
2	6	1.888969	1.217591	2.943416	0.0455	0.075475	4
5	6	1.358454	0.943416	1.736966	0.00617	0.089644	6
6	2	-1.3505	-1.88362	-0.9486	0.0455	0.043336	1
6	6	0.971431	0.434403	1.556393	0.010406	0.032628	6
6	6	1.029146	0.217591	1.943416	0.024975	0.079384	6
6	6	0.621488	0.184425	1	0.024975	0.072962	6
6	6	-0.48543	-0.774	-0.21412	0.010406	0.021082	6
4	5	0.836501	0.454032	1.251539	0.014306	0.014689	0
6	6	0.268817	0.074001	0.454032	0.037373	0.050085	6
6	6	-1.02148	-1.38405	-0.68706	0.003948	0.002389	6
6	6	0.713119	0.37707	1.029146	0.006485	0.019045	5
6	6	1.089267	0.251539	2.184425	0.024975	0.075899	6
4	6	0.761213	0.304006	1.152003	0.019016	0.0511	4
6	6	2.836501	2.473931	3.184425	0.003948	0.002136	6
6	6	-0.40054	-1	0.043943	0.200185	0.210626	6
6	5	-0.18903	-0.33342	-0.04264	0.02846	0.065641	6
6	6	0.340075	0.089267	0.599462	0.024975	0.064434	6
6	6	0.68966	0.268817	1.120294	0.006485	0.039404	6
6	6	0.340075	0.089267	0.577767	0.010406	0.06125	6
6	6	0.321928	0.058894	0.599462	0.037373	0.080259	6
6	6	0.434403	0.089267	0.761213	0.006485	0.079378	5
6	6	0.621488	0.304006	0.971431	0.006485	0.012355	5
6	6	0.340075	0.152003	0.535332	0.010406	0.02484	6
6	6	0.514573	0.286304	0.736966	0.003948	0.009116	6
6	6	1.217591	0.943416	1.473931	0.003948	0.005385	6
6	5	-4.27277	-5.47962	-3.38267	0.00617	0.017728	1

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6	6	0.621488	0.251539	1.029146	0.010406	0.026233	6
3	6	0.810966	0.454032	1.152003	0.020137	0.015573	1
6	6	-0.20163	-0.31034	-0.09761	0.010406	0.016136	6
6	6	-1.48543	-1.9486	-1.1177	0.003948	0.00023	1
6	6	0.810966	0.286304	1.514573	0.016309	0.034311	1
6	6	0.836501	0.577767	1.089267	0.003948	0.003882	6
6	6	0.514573	0.340075	0.68966	0.003948	0.002156	6
6	6	0.184425	0.043943	0.321928	0.010406	0.082739	5
5	6	0.535332	0.268817	0.810966	0.010587	0.013528	6
6	6	1	0.713119	1.286304	0.003948	0.004582	6
3	4	0.943416	0.358454	1.473931	0.033895	0.069376	5
6	5	-0.37851	-0.73985	-0.04264	0.04461	0.098815	2
6	6	-0.63227	-1.18903	-0.05658	0.037373	0.124095	6
6	6	-0.82375	-1.29278	-0.32193	0.006485	0.050521	6
6	6	-0.65992	-1.20789	-0.1375	0.010406	0.077526	6
6	6	-0.22651	-0.75702	0.321928	0.262332	0.514715	6
5	6	1.217591	0.943416	1.473931	0.00617	0.06111	6
6	6	0.713119	0.535332	0.888969	0.003948	0.003233	6
6	6	1.556393	0.862496	2.120294	0.003948	0.046175	6
6	6	2.395929	1.736966	2.943416	0.003948	0.025205	6
5	6	0.029146	-0.37851	0.454032	0.855132	0.933666	6
6	6	0.810966	0.304006	1.251539	0.010406	0.059179	6
5	6	2.643856	2.251539	3.058894	0.00617	0.06111	6
6	6	-0.1635	-0.57531	0.268817	0.262332	0.551818	6
6	6	-1	-1.5656	-0.44361	0.006485	0.036081	6
6	6	-0.53605	-0.8953	-0.1635	0.016309	0.055372	6
6	4	0.494109	0.120294	0.888969	0.019016	0.085487	6
6	5	0.217591	0.074001	0.358454	0.00617	0.098531	6
6	6	-0.1375	-0.23879	-0.04264	0.003948	0.067901	6
6	6	0.358454	0.120294	0.621488	0.024975	0.039696	6
6	5	-2.4489	-3.67129	-1.56071	0.00617	0.022669	5
6	3	-1.44361	-3.86295	-0.41143	0.038867	0.06177	0
6	5	-4.15218	err.	-2.76977	0.00617	0.028244	4
4	5	-0.33342	-0.60407	-0.07039	0.027486	0.075161	5
6	6	-0.50589	-0.85599	-0.17632	0.016309	0.042503	6
6	5	-0.78241	-1.0635	-0.4957	0.00617	0.007641	3
6	6	-0.65992	-0.9855	-0.34483	0.006485	0.014572	6
5	4	-0.20163	-0.34483	-0.07039	0.014306	0.085442	1
6	6	0.415037	0.286304	0.535332	0.003948	0.006564	6
6	4	-5.0009	-6.07403	-3.34483	0.010515	0.077167	2
5	6	0.37707	0.152003	0.599462	0.010587	0.026976	6
6	6	0.340075	0.234465	0.454032	0.003948	0.00209	6
6	4	-5.10978	-6.00787	-3.75916	0.010515	0.057566	1

6	5	-4.49442	-5.60318	-3.49697	0.00617	0.029708	4
6	2	-5.84875	-7.30797	-4.89724	0.0455	0.01452	2
6	3	-5.73471	-6.92125	-4.56071	0.020137	0.038174	2
6	5	-5.84172	-7.32706	-4.87971	0.00617	0.017685	5
6	6	-4.18428	-5.1469	-3.41819	0.003948	0.012859	5
6	3	-5.48896	-6.46156	-4.49953	0.020137	0.02797	5
6	4	-3.91169	-4.82528	-3.23113	0.010515	0.006332	1
6	6	-4.08066	-5.15421	-3.34199	0.003948	0.007451	6
6	6	-3.70487	-4.62176	-3.04963	0.003948	0.004582	6
5	6	-1.23879	-2.16672	-0.65076	0.00617	0.00858	2
6	6	-1.07039	-2.04963	-0.27501	0.024975	0.067473	1
6	5	-3.80323	-5.93475	-2.78241	0.00617	0.015627	6
6	2	-4.63169	-5.9241	-3.75702	0.0455	0.011798	1
6	6	-4.78031	-5.84122	-4.03474	0.003948	0.007956	6
6	6	-0.90304	-1.65076	-0.38957	0.010406	0.025205	5
6	3	-2.72465	-4.10434	-1.96347	0.020137	0.00209	3
6	2	-3.96901	err.	-2.29866	0.0455	0.010529	1
6	6	-3.47379	-4.43162	-2.80323	0.003948	0.004681	6
6	6	0.888969	0.304006	1.556393	0.016309	0.045086	6
6	6	1.152003	0.643856	1.836501	0.003948	0.006366	2
5	6	1.473931	0.621488	2.643856	0.00617	0.034388	0
6	6	-1.32769	-1.73552	-0.9782	0.003948	0.000678	5
6	5	0.836501	0.251539	1.556393	0.02846	0.052351	0
6	6	1.029146	0.454032	1.643856	0.016309	0.030648	6
6	6	-0.76553	-1.0635	-0.51602	0.003948	0.004536	4
6	6	-0.73985	-0.9782	-0.53605	0.003948	0.00376	6
6	6	-1.12433	-1.53107	-0.79909	0.003948	0.00209	1
6	6	-2.37573	-2.80529	-2.0036	0.003948	0.001063	5
6	4	-3.40327	-4.05658	-2.87578	0.010515	0.002899	0
6	6	-5.36036	-6.26266	-4.38059	0.003948	0.03218	6
6	6	0.785875	0.415037	1.251539	0.003948	0.011271	6
6	6	0.736966	0.268817	1.217591	0.003948	0.040963	4
6	6	0.888969	0.395929	1.473931	0.003948	0.023298	2
6	6	0.736966	0.234465	1.321928	0.003948	0.044603	0
6	6	-2.18903	-2.68482	-1.70929	0.003948	0.007094	6
5	5	-1.74416	-2.15056	-1.28688	0.009023	0.021547	6
6	2	-1.88753	-2.23573	-1.4489	0.0455	0.012907	1
6	6	1.888969	1.152003	3.058894	0.003948	0.007094	0
6	6	1.286304	0.643856	2.120294	0.003948	0.016563	5
6	6	-2.09424	-2.41143	-1.75702	0.003948	0.003883	5
6	6	-2.24489	-2.62994	-1.89142	0.003948	0.001684	6
6	6	-2.14731	-2.56803	-1.7866	0.003948	0.000537	5
4	5	-1.42223	-2.22033	-0.8953	0.014306	0.003994	0
6	6	1.358454	0.810966	1.888969	0.003948	0.02277	2
6	6	-0.848	-1.1375	-0.59455	0.003948	0.001295	1
6	6	-0.82375	-1.04264	-0.60407	0.003948	0.001502	6
6	6	0.415037	0.120294	0.68966	0.024975	0.056604	4

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6	6	-0.58496	-0.75702	-0.42223	0.003948	0.001231	6
6	6	-1.37851	-1.848	-1.0072	0.003948	0.000363	1
6	6	-2.90497	-3.33485	-2.52857	0.003948	0.001415	6
6	6	-2.86196	-3.28983	-2.48543	0.003948	0.001415	6
6	6	-3.32625	-3.82273	-2.89142	0.003948	0.00232	6
6	4	-3.41007	-4.06953	-2.89142	0.010515	0.00225	5
6	6	0.836501	0.37707	1.321928	0.010406	0.023086	3
6	6	0.761213	0.251539	1.358454	0.024975	0.046376	0
6	6	1.286304	0.836501	1.836501	0.003948	0.002766	5
6	6	1.184425	0.761213	1.736966	0.003948	0.001854	6
6	6	-0.48543	-0.67807	-0.31034	0.003948	0.004666	6
6	6	-0.79909	-1.10434	-0.52607	0.003948	0.002011	6
6	6	-1.55582	-2.15381	-1.0635	0.003948	0.00302	5
6	6	-0.69599	-0.96347	-0.46467	0.003948	0.00225	5
6	6	-0.65992	-0.91073	-0.43296	0.003948	0.002328	3
6	3	-0.80735	-1.04963	-0.5656	0.020137	0.003645	1
6	6	-0.67807	-1.29278	-0.22651	0.006485	0.048051	1
6	6	-0.38957	-0.63227	-0.17632	0.003948	0.031457	6
6	6	-0.48543	-0.79077	-0.22651	0.003948	0.029713	6
6	6	-0.34483	-0.50589	-0.20163	0.003948	0.013914	5
6	6	-1.34483	-1.83592	-0.94111	0.003948	0.001063	1
6	6	-0.32193	-0.61353	-0.07039	0.010406	0.088337	1
6	6	-0.81558	-1.04963	-0.57531	0.003948	0.004088	3
6	6	0.217591	0.120294	0.321928	0.003948	0.01119	6
6	6	-0.47508	-0.83188	-0.17632	0.003948	0.042041	0
6	6	0.234465	0.043943	0.415037	0.037373	0.074869	4
6	6	0.888969	0.556393	1.217591	0.003948	0.007031	0
6	6	0.713119	0.304006	1.120294	0.010406	0.037504	6
6	6	-0.45418	-0.774	-0.1635	0.003948	0.034667	6
6	6	-1.24489	-2.36457	-0.50589	0.003948	0.026026	6
6	6	-0.42223	-0.76553	-0.1375	0.003948	0.054571	3
6	6	-0.73118	-1.26903	-0.27501	0.003948	0.030322	5
6	6	1.217591	0.836501	1.68966	0.003948	0.001434	3
6	6	-1.05658	-1.66903	-0.59455	0.003948	0.005542	6
6	6	-0.31034	-0.53605	-0.09761	0.010406	0.046376	6
6	6	-0.44361	-0.75702	-0.17632	0.003948	0.043291	3
5	6	1.152003	0.494109	1.943416	0.00617	0.032075	0
6	6	0.666576	0.136062	1.217591	0.016309	0.079836	6
6	6	0.761213	0.286304	1.184425	0.024975	0.06177	3
6	6	0.862496	0.340075	1.358454	0.010406	0.04967	1
6	6	0.785875	0.286304	1.251539	0.024975	0.057177	1
6	6	1	0.304006	1.68966	0.037373	0.072375	6
5	6	2.184425	1.358454	3.321928	0.00617	0.021012	0
6	6	2.395929	1.434403	3.836501	0.003948	0.024706	6
6	6	0.251539	0.089267	0.434403	0.016309	0.042606	5



6	6	-0.48543	-1.03562	0.089267	0.054664	0.208599	6
5	6	-0.76553	-1.11103	-0.47508	0.00617	0.058504	6
6	6	0.268817	0.058894	0.473931	0.010406	0.065342	1
4	6	0.643856	0.200913	1.217591	0.010515	0.071725	3
6	6	1.473931	0.473931	2.321928	0.006485	0.091483	6
6	6	-1.21412	-1.9855	-0.55582	0.010406	0.031066	6
6	6	-1.29278	-2.08746	-0.60407	0.010406	0.032369	6
6	6	0.785875	0.494109	1.058894	0.003948	0.008815	1
6	6	1.152003	0.454032	2.058894	0.003948	0.035011	0
4	5	-0.35614	-0.60407	-0.09761	0.014306	0.073277	6
6	4	-1.1635	-1.70929	-0.67807	0.010515	0.011351	1
6	6	-2.61589	-4.21335	-1.32193	0.006485	0.064434	6
6	6	0.434403	0.184425	0.666576	0.010406	0.028407	6
6	6	0.184425	0.152003	0.217591	0.003948	0.000104	6
6	6	-2.04963	-2.95047	-1.20163	0.006485	0.035091	6
6	6	0.454032	0.184425	0.68966	0.010406	0.04385	4
6	6	0.136062	0.043943	0.234465	0.016309	0.039861	6
6	6	0.494109	0.395929	0.599462	0.003948	0.000399	6
5	6	-0.94111	-2.03914	-0.18903	0.02846	0.070838	0
5	5	-1.10434	-1.51602	-0.54597	0.009023	0.067601	3
6	6	0.395929	-0.02857	0.761213	0.149541	0.190434	6
6	6	0.943416	0.184425	2	0.024975	0.07538	6
6	6	1.68966	1.251539	2.184425	0.003948	0.004088	6
6	6	0.152003	0.043943	0.251539	0.003948	0.049882	6
6	6	-1.07039	-1.9855	-0.42223	0.010406	0.026045	6
6	6	-0.8953	-1.65992	-0.26303	0.016309	0.051096	5
5	6	0.358454	0.074001	0.621488	0.02846	0.076348	2
6	6	-0.80735	-1.45943	-0.27501	0.016309	0.039668	6
6	6	0.577767	0.268817	0.888969	0.010406	0.023528	6
6	6	-1.62293	-2.01078	-1.28688	0.003948	0.000464	1
6	6	-0.36737	-0.61353	-0.12433	0.016309	0.050085	6
6	6	-0.63227	-1.22651	-0.1375	0.024975	0.065934	5
5	6	0.736966	0.268817	1.152003	0.02846	0.058984	1
6	6	-0.5656	-0.97085	-0.1635	0.016309	0.057586	3
5	6	1.286304	0.494109	2.643856	0.010587	0.031167	6
6	6	0.340075	0.184425	0.473931	0.003948	0.018044	6
6	5	-0.848	-1.1177	-0.58496	0.00617	0.004197	6
6	6	-0.46467	-0.62293	-0.31034	0.003948	0.002136	6
6	5	0.713119	0.358454	1.120294	0.00617	0.017187	6
6	6	-0.35614	-0.52607	-0.17632	0.003948	0.018875	6
6	5	-0.73118	-1.37295	-0.17632	0.017622	0.064097	0
6	6	-1.73985	-5.93946	-0.43296	0.016309	0.071572	0
6	6	-0.11103	-0.17632	-0.05658	0.010406	0.01779	6

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6	6	-2.0635	-3.36036	-1.01436	0.010406	0.050193	6
6	6	-0.82375	-1.56071	-0.20163	0.024975	0.060795	0
6	6	-1.09085	-2.07039	-0.37851	0.016309	0.039696	2
6	6	-0.47508	-0.72247	-0.25096	0.003948	0.011369	6
6	6	-0.35614	-0.65076	-0.08406	0.037373	0.06177	6
6	6	-0.42223	-0.59455	-0.25096	0.003948	0.004582	1
6	6	-0.29866	-0.4957	-0.08406	0.010406	0.070073	6
6	6	-0.27501	-0.45418	-0.09761	0.016309	0.034311	6
6	6	-0.45418	-0.82375	-0.15056	0.006485	0.057817	1
6	6	-0.41143	-0.78241	-0.09761	0.037373	0.067166	6
6	6	-0.72247	-1.33342	-0.08406	0.037373	0.116231	6
6	6	-0.40054	-0.75702	-0.11103	0.037373	0.074404	6
6	6	0.666576	0.136062	1.152003	0.024975	0.091277	4
3	4	0.251539	0.168123	0.340075	0.033895	0.028787	0
6	6	0.862496	0.556393	1.152003	0.003948	0.00695	6
5	5	-0.79909	-1.29278	-0.31034	0.009023	0.04967	6
6	6	-1.29866	-2.14405	-0.58496	0.010406	0.033775	1
6	6	-0.26303	-0.4957	-0.04264	0.037373	0.087708	6
6	6	-0.29866	-0.46467	-0.1375	0.006485	0.020955	6
5	5	-0.8953	-1.64155	-0.21412	0.02828	0.079173	5
4	6	-0.50589	-0.83188	-0.21412	0.019016	0.028606	5
6	6	0.666576	0.136062	1.395929	0.010406	0.079267	5
6	6	-0.95606	-1.76977	-0.35614	0.010406	0.031746	6
6	6	-0.69599	-1.18269	-0.21412	0.016309	0.053943	5
6	6	-0.45418	-0.73118	-0.1635	0.010406	0.049523	6
6	5	-0.60407	-0.93357	-0.23879	0.017622	0.054807	6
6	6	-0.20163	-0.28688	-0.12433	0.003948	0.005218	6
6	6	-6.37643	-7.70002	-5.12391	0.003948	0.04586	1
6	6	-0.45418	-0.7137	-0.17632	0.016309	0.048788	6
6	6	0.915936	0.340075	1.836501	0.037373	0.041195	6
6	6	-1.07039	-2.1375	-0.35614	0.016309	0.039393	6
6	6	-1.52105	-2.79286	-0.52607	0.010406	0.061068	5
6	6	-0.41143	-0.76553	-0.08406	0.037373	0.07314	6
4	6	1.184425	0.761213	1.599462	0.010515	0.013123	6
5	6	-0.79909	-1.33342	-0.40054	0.00617	0.093927	6
6	6	0.074001	-0.22651	0.358454	0.748774	0.725396	6
6	6	-0.27501	-0.61353	0.0145	0.109315	0.176185	6
6	6	-0.41143	-0.79909	-0.07039	0.024975	0.079098	2
4	5	0.535332	0.251539	0.862496	0.014306	0.035715	6

DRG STZ	DRG Mean	DRG l-95%	DRG u-95%	DRG p-value	DRG FDR	TG Control	TG STZ
6	-0.69599	-1.47508	-0.08406	0.037373	0.353672	6	6
6	0.736966	-0.11103	1.321928	0.054664	0.545614	6	6
6	0.304006	-0.47508	1.286304	0.583882	0.804572	4	6
6	-0.22651	-0.64155	0.152003	0.200185	0.684916	6	6
6	-0.01436	-0.73985	0.713119	1	0.979434	6	6
5	0.473931	-0.76553	1.643856	0.456057	0.724735	5	6
6	0.434403	-0.31034	1	0.200185	0.684916	6	4
2	0.358454					6	6
6	0.785875	0.556393	1.029146	0.003948	0.005728	5	6
0						6	5
6	-0.08406	-0.25096	0.089267	0.42334	0.71394	6	6
6	0.286304	-0.63227	1.434403	0.748774	0.792032	6	6
0						1	1
0						1	2
0						4	0
6	-0.08406	-0.28688	0.104697	0.336668	0.724735	6	6
0						4	0
0						5	2
0						5	1
0						2	0
6	0.666576	0.454032	0.888969	0.003948	0.023583	6	6
6	-0.23879	-1.32769	0.415037	0.135593	0.777548	6	5
3	0.251539	0.029146	0.454032	0.10105	0.450339	6	4
6	0.043943	-0.34483	0.37707	1	0.922939	6	6
6	0.043943	-0.41143	0.454032	0.87278	0.944256	3	2
3	0.120294	-0.34483	0.736966	0.512691	0.818179	3	4
6	0.268817	-0.75702	1.089267	0.87278	0.797704	5	6
6	-0.07039	-0.35614	0.200913	0.87278	0.81345	6	6
6	0.358454	-0.76553	1.120294	0.748774	0.745902	6	4
5	0.120294	-0.774	0.971431	0.916815	0.894348	3	3
6	-0.20163	-0.72247	0.304006	0.36131	0.738155	3	2
6	-0.21412	-0.37851	-0.05658	0.024975	0.257121	6	6
6	-0.04264	-0.90304	0.621488	0.748774	0.962996	6	6
6	0.268817	0.043943	0.514573	0.054664	0.386498	6	6
4	-0.1375	-0.47508	0.234465	0.327187	0.741537	6	4
6	0.37707	0.058894	0.666576	0.024975	0.381443	6	6
5	-0.26303	-0.37851	-0.15056	0.009023	0.067129	6	5
6	0.217591	-0.21412	0.599462	0.262332	0.705987	6	6
6	0.217591	-0.5656	0.836501	0.630954	0.795091	6	6
2	0.152003	-0.59455	0.971431	0.643429	0.843886	6	6
4	0.136062	-0.8953	0.971431	0.563703	0.886795	6	6

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6	0.089267	-0.57531	0.888969	0.87278	0.912301	6	6
6	-0.67807	-1.42761	-0.07039	0.024975	0.369083	6	6
5	0.599462	-0.12433	1.358454	0.067889	0.529164	6	6
6	0.168123	-1.60407	1.434403	0.630954	0.912149	6	6
6	0.058894	-0.774	0.862496	0.630954	0.954783	6	6
6	0.340075	-0.59455	1.321928	0.42334	0.745065	6	6
6	0.415037	-0.42223	1	0.630954	0.703778	6	6
6	-0.58496	-1.03562	-0.15056	0.010406	0.266841	4	3
6	-0.62293	-1.21412	-0.1375	0.024975	0.296095	6	6
6	0.104697	-0.65992	0.785875	0.87278	0.89965	6	6
6	-0.29866	-1.25701	0.494109	0.630954	0.754326	6	6
5	0.286304	-0.61353	1.120294	0.583882	0.775485	6	6
6	-0.70487	-1.76977	-0.02857	0.054664	0.410527	6	6
6	0.089267	-0.48543	0.577767	0.748774	0.876623	6	6
6	0.577767	0.234465	1	0.00617	0.228388	3	5
6	-1.22651	-1.78241	-0.75702	0.003948	0.043339	6	6
6	0.810966	0.454032	1.152003	0.020137	0.096457	3	6
2	-0.21412	-0.50589	0.043943	0.121335	0.627365	6	4
0						3	6
6	0.168123	-0.38957	0.68966	0.87278	0.791811	6	6
6	-0.05658	-0.60407	0.514573	0.748774	0.929502	5	5
6	-0.04264	-0.22651	0.120294	0.748774	0.816823	5	6
4	0.234465	-0.848	1.029146	1	0.80104	5	6
6	0.888969	0.514573	1.251539	0.006485	0.076165	3	5
6	-0.37851	-0.87184	0.043943	0.109315	0.492624	6	6
6	0.535332	0.37707	0.713119	0.003948	0.00943	6	6
1	0.268817					6	6
6						1	6
6	0.104697	-0.09761	0.286304	0.336668	0.706635	6	6
6	0.089267	-0.97085	1.251539	0.748774	0.963771	6	6
5	0	-0.47508	0.494109	0.715001	0.998266	3	1
6	0.621488	-0.08406	1.152003	0.200185	0.541184	6	6
6	-0.42223	-1.14405	0.152003	0.200185	0.601474	5	6
6	-0.22651	-0.40054	-0.05658	0.037373	0.307086	6	6
6	-0.01436	-0.44361	0.358454	0.748774	0.973039	6	6
0						1	2
6	0.556393	0.217591	0.836501	0.016309	0.26369	6	6
6	-0.66903	-1.60881	0.234465	0.078169	0.580141	3	1
4						4	6
2	-0.07039	-0.31034	0.217591	0.354539	0.853589	3	1
6	0.473931	0.168123	0.785875	0.010406	0.157021	6	6
6	-0.29866	-1.05658	0.395929	0.336668	0.798497	6	5
3	0.736966	0.120294	1.434403	0.052632	0.402088	6	5
6	0.251539	-0.18903	0.68966	0.200825	0.684916	6	6
5	0.286304	-0.47508	1.029146	0.456057	0.738155	6	5
6	0.168123	-0.1375	0.454032	0.262332	0.70175	6	6
4	0.304006	0	0.556393	0.086411	0.585244	4	5

0						4	3
6	0.286304	-1.03562	1.358454	0.630954	0.816514	6	6
6	0.321928	-0.32193	0.888969	0.336668	0.704675	5	6
6	0.168123	-0.62293	0.836501	0.87278	0.835155	6	6
6	0.340075	-0.75702	1.184425	0.630954	0.76004	6	6
5	0.915936	0.120294	2.251539	0.025347	0.394176	4	6
5	-0.54597	-0.83996	-0.26303	0.00617	0.091866	6	6
6	-0.36737	-0.66903	-0.08406	0.024975	0.285568	6	6
6	-0.23879	-0.94111	0.340075	0.262332	0.745065	6	6
6	-0.36737	-0.73118	0.043943	0.078169	0.523307	5	4
6	-0.1635	-0.35614	0.0145	0.054664	0.496838	6	6
3	-0.61353	-1.60407	0.304006	0.0771	0.614961	5	4
6	-0.34483	-1.01436	0.200913	0.200185	0.678722	6	4
1						4	4
0						1	1
3	0.304006	-2.37016	1.68966	1	0.855488	6	5
6	0.535332	0.058894	0.943416	0.054664	0.489158	6	6
1	1.286304					1	0
6	-0.21412	-0.86394	0.358454	0.42334	0.813307	6	6
5	0.713119					6	4
6	0.104697	-0.09761	0.304006	0.262332	0.714887	6	5
1	-1.20789					2	4
6	-3.37573	-5.32769	err.	0.109315	0.703778	6	6
6	0.217591	-0.57531	0.761213	0.748774	0.787676	5	4
0						6	5
6	2.736966	2.120294	3.184425	0.003948	0.106368	6	6
1	0.304006					6	3
3	0.761213	0.217591	1.473931	0.052632	0.285568	6	6
0						1	2
0						2	2
0						0	0
0						0	2
6	1.943416	1.643856	2.251539	0.010515	0.024415	2	6
6	-0.36737	-0.926	0.152003	0.109315	0.607125	6	4
0						0	0
6	-0.08406	-0.25096	0.074001	0.336668	0.697021	6	4
6	2.321928	1.785875	2.736966	0.00617	0.181017	6	6
6	0.043943	-0.36737	0.395929	0.748774	0.912149	4	3
6	0.029146	-0.21412	0.251539	0.42334	0.932386	6	6
5	-0.29866	-0.64155	0.0145	0.04461	0.456975	6	4
6	-0.58496	-0.79909	-0.35614	0.003948	0.073434	4	4
6	-0.08406	-0.23879	0.074001	0.42334	0.719041	6	6
6	-0.67807	-1.5509	-0.01436	0.016309	0.413134	6	6
6	-0.20163	-0.70487	0.251539	0.336668	0.730585	5	5
6	-0.46467	-0.94111	-0.04264	0.037373	0.377482	6	6
0						1	0
6	-0.33342	-0.97085	0.217591	0.336668	0.687797	6	5

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6	0.234465	-0.09761	0.556393	0.262332	0.607125	6	6
3	-1.94486	-3.41143	err.	0.654721	0.728888	4	5
6	-0.95606	-1.64155	-0.32193	0.016309	0.238515	4	4
6	-0.34483	-1.16993	0.304006	0.336668	0.705987	4	2
5	-0.25096	-0.54597	0.058894	0.067889	0.557638	6	6
6	0.643856	-0.43296	1.358454	0.262332	0.662289	6	6
6	0.454032	-1.17632	2.643856	0.583882	0.785701	5	6
5	0.37707	-1.81558	1.434403	0.855132	0.856808	6	3
0						6	6
4	1.321928	0.089267	2	0.064078	0.522267	1	5
6	-0.35614	-0.7137	-0.01436	0.054664	0.394496	5	4
6	-0.17632	-0.65992	0.340075	0.42334	0.758545	6	5
6	0.321928	-0.18903	0.713119	0.109315	0.673119	6	6
6	0.862496	0.358454	1.358454	0.010587	0.20696	3	5
6	0.0145	-0.72247	0.736966	0.630954	0.980436	5	6
5	0.761213	-0.20163	1.434403	0.117185	0.576157	4	2
6	-0.47508	-1.07039	0.104697	0.109315	0.529891	6	6
1	-1.76553					3	4
6	0.785875	-0.08406	1.556393	0.109315	0.49592	6	6
6	0.577767	-0.51602	1.321928	0.286422	0.702297	1	4
6	0.666576	-0.57531	1.785875	0.109315	0.710691	6	6
0						1	1
6	0.200913	-0.94111	0.971431	0.87278	0.847878	6	6
6	0.37707	-0.50589	0.943416	0.87278	0.724735	6	6
6	0.152003	-0.36737	0.713119	0.521839	0.805431	6	6
6	0.0145	-0.25096	0.268817	0.748774	0.967621	6	6
0						0	1
6	0.168123	-0.50589	0.736966	0.630954	0.818179	6	6
5	-0.38957	-1.09761	0.340075	0.201243	0.6973	5	3
6	0.286304	-0.66903	1	0.855132	0.765877	6	6
6	0.37707	-0.58496	1	1	0.725968	6	6
4	0.268817	-0.61353	0.971431	0.77283	0.76004	4	5
6	2.395929	1.785875	2.943416	0.003948	0.104668	6	6
6	-0.85599	-1.49057	-0.38957	0.003948	0.096457	5	5
6	0.089267	-0.38957	0.556393	0.630954	0.857272	6	5
6	0.043943	-0.1635	0.251539	0.521839	0.838462	6	6
6	0.136062	-0.75702	0.810966	1	0.87462	6	6
6	0.0145	-0.99277	0.785875	0.87278	0.985771	6	6
6	0.043943	-1.07724	0.836501	0.87278	0.964967	6	6
5	0.168123	-0.9855	1.152003	0.916815	0.875653	5	6
6	0.029146	-1.02148	0.713119	0.583882	0.976616	6	6
6	0.089267	-0.27501	0.395929	0.87278	0.827811	6	6
6	0.136062	-0.23879	0.473931	0.42334	0.761837	6	6
6	0.713119	0.184425	1.152003	0.024975	0.341333	6	6
0						2	0

6	0.494109	-0.81558	1.358454	0.42334	0.724735	6	6
4	2.321928					3	4
6	-0.01436	-0.1635	0.136062	0.87278	0.95851	6	6
0						2	3
0						3	3
6	0.321928	-0.18903	0.785875	0.262332	0.658058	6	6
6	0.200913	-0.21412	0.556393	0.42334	0.714887	6	6
3	-0.04264	-0.28688	0.168123	0.654721	0.875653	6	6
6	0.043943	-0.46467	0.494109	1	0.944256	6	4
6	0.494109	0.304006	0.713119	0.003948	0.033787	6	5
3	0.556393	-0.52607	1.321928	0.179712	0.705987	6	5
3	1.029146	-0.69599	err.	0.248213	0.724735	3	1
6	-1.70044	-2.72901	-1.05658	0.003948	0.012549	6	6
6	-1.46989	-2.31034	-0.8953	0.003948	0.018798	6	6
6	-1.40599	-2.28392	-0.81558	0.003948	0.027541	6	6
6	-1.17632	-2.04614	-0.57531	0.003948	0.069166	6	6
6	0.556393	0.37707	0.713119	0.003948	0.144966	6	6
6	0.268817	-0.05658	0.556393	0.109315	0.533311	6	6
6	-0.12433	-0.79909	0.395929	0.521839	0.845188	5	6
6	0.415037	-0.22651	0.943416	0.149541	0.658058	6	6
6	-0.9486	-1.67356	-0.41143	0.010406	0.098871	6	6
6	0.058894	-0.79909	0.68966	0.87278	0.940841	6	6
6	0.395929	-0.35614	0.971431	0.200185	0.721932	6	6
6	-1	-1.81147	-0.44361	0.010406	0.096457	6	6
6	-2	-2.7845	-1.40599	0.003948	0.027608	6	6
6	-0.73118	-1.43296	-0.09761	0.078169	0.358574	6	5
6	-0.22651	-0.88753	0.577767	0.521839	0.786409	6	5
6	-0.18903	-0.38957	0	0.078169	0.436512	6	5
6	0.029146	-0.11103	0.184425	0.42334	0.827811	5	4
6	0.089267	-0.01436	0.200913	0.109315	0.543016	6	6
5	-0.31034	-0.8953	0.599462	0.174525	0.742522	5	3
0						1	1
3	-0.28688	-0.91073	0.494109	0.723674	0.73438	4	1
4	-0.05658	-0.54597	0.395929	0.806496	0.908245	4	5
6	-0.37851	-0.87971	0.043943	0.109315	0.497796	6	6
1	-0.5656					6	5
6	-0.44361	-0.75702	-0.1635	0.010406	0.164925	6	4
4	1.251539					5	4
6	0.251539	-0.08406	0.556393	0.200185	0.607089	6	5
0						2	0
6	0.120294	-0.29866	0.473931	0.748774	0.792073	6	6
5	0.286304	-0.29866	0.836501	0.273322	0.714706	6	6
0						2	0

1	-2.08066					5	1
0						3	0
0						2	2
0						6	4
2	-2.88166			0.245278	0.693745	5	5
0						5	0
0						4	0
4	-3.27798	-5.06264	err.	0.055009	0.689457	6	6
6	-2.80116	-4.43229	err.	0.109315	0.703778	6	6
1	-2.51349					6	4
2	1.473931					5	4
4	-2.61589	-4.2211	err.	0.088082	0.702982	6	5
0						3	1
3	-2.97453	-4.75007	err.	0.121335	0.703778	6	4
6	-2.93168	-5.03122	err.	0.04461	0.706635	5	6
0						6	3
0						1	0
6	-3.73877	-5.4266	err.	0.016309	0.701328	6	6
6	-0.41143	-2.04264	err.	0.262332	0.886795	6	6
6	-1.24489	-3.21257	err.	1	0.835155	5	6
0						2	3
1	-3.25852					6	5
0						1	1
6	-0.12433	-1.58015	2.836501	0.630954	0.945187	6	6
2	-2.35614	-4.36947	err.	0.643429	0.741429	6	6
6	-2.10769	-3.89336	err.	0.200185	0.723868	6	6
0						1	1
1	-2.03562					5	5
0						0	0
6	-3.74201	-5.37539	err.	0.006485	0.697021	6	6
6	0.358454	-1.33914	err.	0.054664	0.876218	6	6
6	-0.43296	-2.68257	err.	0.200825	0.901338	6	6
6	-1.23266	-4.56621	err.	1	0.843886	3	6
0						0	0
6	-3.52982	-5.15137	err.	0.016309	0.684916	6	6
3	-2.26303	-3.39643	2.736966	0.121335	0.566346	6	5
0						0	0
2						2	4
6	-1.09761	-3.32193	err.	0.583882	0.751159	6	6
3	-3.38405	-6.01903	err.	0.025347	0.697281	6	6
2	-3.18269	-5.06867	err.	0.182422	0.702315	6	5
0						6	3
0						0	1
2	-1.11103	err.	err.	0.438578	0.724035	4	4
2	-3.19535					2	4
5	-1.45943	-3.37434	err.	0.201243	0.718007	6	6
6	-0.9486	-4.30961	err.	0.83117	0.817738	5	6



6	-1.7137	-3.53605	err.	0.336668	0.723483	6	6
0						1	1
3	-3.57652	-5.15299	err.	0.070701	0.702982	6	6
6	-3.50589	-4.97728	err.	0.006485	0.672278	6	5
3	-3.75489	-5.30961	err.	0.038867	0.700566	6	6
0						5	3
3	0.494109	-0.90304	1.599462	0.275234	0.724735	3	3
0						1	2
3	0.358454	-1.9486	1.68966	0.654721	0.829038	5	6
6	-0.41143	-2.24184	err.	0.630954	0.875653	6	6
6	-1.79077	-3.30159	err.	0.149541	0.684916	6	6
6	-2.09761	-4.06264	err.	0.149541	0.6973	6	6
5	-5.58856	-8.01061	err.	0.02828	0.724735	6	5
5	-2.7866	-4.88118	err.	0.0758	0.705458	6	5
2	-2.23879	-3.74846	err.	0.083265	0.724735	4	5
0						2	1
0						1	1
6	-1.60881	-3.43162	err.	0.262332	0.718591	6	6
6	-1.43829	-3.49953	err.	0.262332	0.719817	6	6
3	-1.61353	-4.52544	err.	0.654721	0.735328	5	4
0						2	1
0						0	1
0						3	3
6	-0.75702	-2.49057	err.	0.748774	0.80104	6	6
0						0	1
6	-1.76553	-5.07852	err.	0.286422	0.751159	5	6
0						0	2
6	-0.47508	-1.57046	0.810966	0.336668	0.734471	6	6
6	-2.95791	-4.91743	err.	0.054664	0.703778	6	6
6	-4.78712	-6.62293	err.	0.024975	0.724735	6	6
0						3	2
0						4	2
2	-0.27501	-2.22651	err.	0.563703	0.925072	3	5
6	-4.14568	-6.05463	err.	0.109315	0.724735	6	6
6	-2.28392	-4.45681	err.	0.109315	0.706635	6	6
2	-2.73552	-4.393	err.	0.083265	0.738155	4	4
3						2	6
6	-0.38957	-1.852	err.	0.42334	0.872279	6	6
3	-1.85599	-3.50589	err.	0.827259	0.76004	4	5
0						1	3
0						0	1
6	-0.20163	-1.62761	err.	0.630954	0.92279	5	6
0						0	0
6	-0.50589	-1.85599	2.251539	0.748774	0.789063	4	6
6	-0.20163	-0.87184	0.415037	0.715001	0.781987	3	6

Diabetes

6	-1.36177	-2.40599	-0.72247	0.006485	0.044921	6	6
6	-0.05658	-0.67807	0.535332	0.87278	0.958113	6	6
1	-2.08746					2	2
1	0.120294					5	5
6	0	-0.7137	0.556393	1	0.996445	6	6
6	-0.09761	-0.46467	0.304006	0.42334	0.827426	6	6
6	-0.09761	-0.4957	0.321928	0.521839	0.827811	6	6
2	0.556393					6	6
0						0	3
6	-0.08406	-0.35614	0.168123	0.630954	0.773248	5	5
0						0	0
5	-0.32193	-0.60407	-0.02857	0.04461	0.389131	6	6
6	0.200913	-0.31034	0.68966	0.42334	0.738155	4	4
6	-0.23879	-1.59455	3.643856	0.748774	0.901338	6	6
6	-0.27501	-0.70487	0.089267	0.200185	0.598791	6	4
2	0.666576	-0.27501	1.514573	0.164915	0.686328	3	0
6	-0.12433	-0.27501	0.029146	0.109315	0.551461	6	6
6	0.494109	-0.07039	1	0.109315	0.51966	6	6
0						0	3
5	0.074001	-0.76553	0.810966	0.881497	0.929089	1	2
6	0.915936	0.713119	1.089267	0.003948	0.019766	6	5
6	0.535332	-0.91839	1.68966	0.42334	0.724735	6	6
6	0.234465	-0.44361	0.736966	0.748774	0.751159	6	6
6	0	-0.25096	0.234465	0.87278	0.995511	6	6
6	0.029146	-0.58496	0.535332	1	0.962866	6	6
3	-0.15056	-0.73985	0.321928	0.296718	0.789856	6	6
3	0.104697	-0.52607	0.643856	1	0.845188	5	6
6	-0.11103	-0.26303	0.029146	0.109315	0.559792	6	6
6	0.217591	-0.55582	0.862496	0.521839	0.795065	6	6
0						1	0
6	0.058894	-0.22651	0.340075	0.521839	0.845188	6	6
6	-0.36737	-0.91073	0.058894	0.100348	0.542228	4	1
0						1	2
2	0.152003	-2.62293	1.514573	1	0.922939	6	6
6	0.666576	-0.1375	1.395929	0.149541	0.539493	5	6
6	0.058894	-0.22651	0.358454	0.630954	0.875653	6	5
6	-0.70487	-0.9486	-0.48543	0.003948	0.010058	6	3
5	-0.07039	-1.05658	0.514573	0.100348	0.930839	6	6
5	-0.29866	-0.74846	0.136062	0.100348	0.62359	4	6
6	-0.07039	-0.18903	0.058894	0.336668	0.6973	6	6
0						1	0
0						6	5
6	-0.18903	-0.50589	0.104697	0.200185	0.668631	6	6

4	-0.12433	-0.5656	0.340075	0.393769	0.809101	6	4
1						6	6
2	0.043943	-0.38957	0.599462	1	0.921039	6	5
6	-0.36737	-0.65992	-0.09761	0.016309	0.254948	6	6
6	-0.09761	-0.25096	0.058894	0.054664	0.636675	5	5
1	0.089267					5	5
6	0.029146	-0.07039	0.136062	0.748774	0.823716	6	6
6	-0.31034	-0.86394	0.184425	0.262332	0.670041	6	6
0						1	1
6	0.043943	-0.72247	0.68966	0.87278	0.959895	6	6
6	0.358454	0.168123	0.535332	0.010406	0.088265	6	5
6	-0.1635	-0.40054	0.074001	0.078169	0.635894	6	6
2	1 err.		2.736966	0.164915	0.766252	5	5
0						4	5
6	0.785875	0.556393	1.029146	0.003948	0.005728	5	6
3	-0.15056	-1.68257	0.713119	0.605577	0.900105	5	4
0						6	5
5	-0.4957	-1.09761	0	0.067889	0.421773	4	4
6	-0.15056	-0.25096	-0.05658	0.010406	0.220321	6	6
4	0.234465	-0.21412	0.68966	0.327187	0.6973	6	6
3	-0.87184 err.		0.304006	0.179712	0.683968	3	0
4	0.168123	-2.39232	1.286304	0.806496	0.914528	6	5
6	-0.1375	-0.36737	0.074001	0.200185	0.662915	6	6
4	-0.73118	-1.90689	0.168123	0.141645	0.545614	5	4
6	0.0145	-0.64155	0.535332	0.87278	0.980163	6	5
6	0.321928	-0.08406	0.68966	0.262332	0.562595	6	5
6	-0.26303	-0.68706	0.104697	0.149541	0.625229	6	6
0						4	1
6	-0.1375	-0.34483	0.074001	0.109315	0.645808	6	4
5	-0.50589	-1.02857	-0.02857	0.02846	0.394176	6	6
6	-0.22651	-0.82375	0.286304	0.42334	0.728392	6	6
5	0.089267	-0.51602	0.621488	0.754023	0.887936	6	5
6	-0.59455	-1.08406	-0.1375	0.037373	0.293264	6	4
6	-0.12433	-1.02857	0.862496	0.630954	0.901338	4	3
6	-0.83996	-1.38405	-0.38957	0.010406	0.181017	6	6
6	0.251539	0.120294	0.37707	0.016309	0.094589	6	6
6	-0.47508	-0.57531	-0.36737	0.003948	0.00455	6	4
2	0.321928	-5.83415	1.434403	1	0.847878	6	6
6	0.37707	-0.72247	1.120294	0.748774	0.741537	6	6

TG Mean	L	TG I-95% C	TG u-95% C	TG p-value	TG FDR
-0.85599	-2.27501	0.0145	0.109315	0.763195	
0.454032	-0.46467	1.217591	0.336668	0.763195	
0.358454	-0.69599	2	0.522431	0.999906	
-0.55582	-1.29278	0.043943	0.109315	0.763195	
0.058894	-0.5656	0.68966	1	0.955004	
0.120294	-0.66903	0.810966	0.855132	0.909684	
0.184425	-0.31034	0.713119	0.669815	0.786415	
0.217591	-2.23266	2.943416	1	0.932007	
1.120294	0.358454	1.68966	0.00617	0.701423	
-0.44361	-1.09085	0.304006	0.273322	0.763195	
0.415037	-0.73118	1.089267	1	0.77755	
-0.12433	-0.85599	0.473931	0.748774	0.883743	
-1.35614					
-0.76553					
-0.25096	-0.7137	0.234465	0.336668	0.763195	
-0.73118	err.	1.68966	0.245278	0.818591	
-1.55582					
1	0.736966	1.217591	0.003948	0.365914	
0.888969	-0.5656	1.736966	0.100348	0.763195	
0.454032	-0.02857	0.971431	0.135593	0.763195	
0.217591	-0.01436	0.454032	0.054664	0.763195	
0.058894	-1.83592	1.395929	1	0.977411	
0.043943	err.	err.	0.723674	0.993463	
0.217591	-0.59455	1.434403	0.465209	0.855796	
-0.40054	-1.04963	0.104697	0.109315	0.763195	
0.621488	0.251539	1	0.019016	0.517455	
-0.42223	-4.04614	1.514573	0.512691	0.8352	
0.321928	-1.65535	1.286304	0.563703	0.851631	
-0.18903	-0.65076	0.251539	0.521839	0.779044	
-0.1375	-0.47508	0.152003	0.748774	0.776939	
0.556393	0.395929	0.713119	0.003948	0.029011	
-0.08406	-0.41143	0.200913	0.393769	0.851631	
0.286304	-0.07039	0.621488	0.078169	0.763195	
-0.43296	-0.91073	0.200913	0.144127	0.763195	
0.058894	-0.07039	0.200913	0.630954	0.792604	
0.152003	-0.20163	0.454032	0.336668	0.772799	
-0.37851	-1.40599	0.434403	0.630954	0.767957	
0.089267	-0.35614	0.434403	0.262332	0.880556	

0.089267	-0.1635	0.358454	0.262332	0.791465
-0.79909	-1.3505	-0.36737	0.003948	0.330369
0.152003	-0.69599	0.810966	0.521839	0.886947
0.217591	-0.63227	0.971431	0.42334	0.838564
0.136062	-0.35614	0.68966	0.630954	0.840856
0.184425	-0.23879	0.736966	0.262332	0.78519
0.643856	0.37707	0.888969	0.003948	0.433077
-0.4957	-1.0072	0.089267	0.0771	0.763195
-0.78241	-1.22033	-0.36737	0.003948	0.421603
0.268817	-0.32193	0.915936	0.200185	0.771149
-0.4957	-1.25096	0.043943	0.149541	0.763195
0.321928	-0.5656	2.120294	0.630954	0.820887
-0.61353	-0.95606	-0.26303	0.016309	0.496206
-0.27501	-0.76553	0.200913	0.42334	0.763195
0.915936	0.473931	1.321928	0.025347	0.999906
-1.59455	-2.82985	-0.50589	0.016309	0.64597
0.713119	0.152003	1.434403	0.038867	0.68918
0.621488	-0.17632	1.556393	0.135593	0.763195
-0.07039	-1.08406	1.556393	0.796253	0.9723
0.713119	-1.15056	1.556393	0.521839	0.767163
0.621488	0.043943	1.152003	0.016294	0.763195
-0.08406	-0.63227	0.494109	0.583882	0.917699
0.862496	-0.31034	1.736966	0.144127	0.763195
0.251539	-0.32193	0.666576	0.296718	0.767163
-0.57531	-1.10434	0.029146	0.078169	0.763195
0.535332	0.152003	0.971431	0.024975	0.554626
-0.31034	-0.82375	0.304006	0.336668	0.763195
0.434403				
0	-0.45418	0.473931	1	0.997402
-0.1375	-1	1.251539	0.630954	0.999906
1.556393				
0.136062	-1.23879	1.029146	0.87278	0.932137
-0.22651	-1.02148	0.599462	0.36131	0.833614
-0.31034	-0.57531	-0.05658	0.037373	0.62642
0.321928	-0.58496	0.943416	0.87278	0.784428
0.713119				
0.454032	0.136062	0.761213	0.010406	0.577621
-0.47508				
0.321928	-2.0321	err.	0.669815	0.903524
-0.78241				
0.535332	0.268817	0.810966	0.010406	0.296477
-0.926	-2.5509	1.599462	0.465209	0.999906
-0.25096	-1.32193	0.494109	0.715001	0.818591
0.358454	-0.15056	0.810966	0.037373	0.763195
0	-2.1635	1.089267	1	0.998908
0.454032	0.104697	0.736966	0.054664	0.715184
0.643856	0.286304	1.029146	0.014306	0.999906

0.888969	-1.04264	2.058894	0.288844	0.763195
0.058894	-0.67807	0.915936	1	0.960983
0.058894	-0.35614	0.535332	0.715001	0.931645
0.785875	-0.02857	1.68966	0.037373	0.763195
0.286304	-0.25096	0.943416	0.42334	0.763195
-0.53605	-1.34483	0.434403	0.088082	0.763195
0.089267	-0.57531	0.621488	0.87278	0.917766
-0.74846	-1.73552	0.358454	0.200185	0.763195
0.104697	-0.65992	1.029146	0.521839	0.922331
-0.12433	-1.05658	0.494109	0.220671	0.897795
-0.09761	-0.57531	0.304006	0.200185	0.874236
0.494109	-0.50589	1.217591	0.220671	0.763195
-0.08406	-0.21412	0.043943	0.088082	0.763195
0.535332	-0.12433	1.395929	0.248213	0.763195
0.621488				
0.340075	-1.03562	3.184425	0.465209	0.861115
0.358454	-0.07039	0.785875	0.109315	0.999906
-0.05658	-0.69599	0.599462	0.87278	0.999906
0.074001	-0.37851	0.68966	0.393769	0.91589
0.089267	-0.45418	0.556393	0.273322	0.896788
0.577767	-1.87578	err.	0.643429	0.840856
-0.73985	-3.23113	5.058894	0.748774	0.795243
0.089267	-0.46467	0.68966	0.624206	0.900784
-0.20163	-0.79909	0.454032	0.583882	0.810897
3.058894	2.251539	3.836501	0.003948	0.421603
0.340075	-1.09085	1.395929	0.796253	0.829694
0.200913	0.043943	0.358454	0.016309	0.715184
0.286304				
0.200913			1	0.970135
3.184425	2.943416	3.473931	0.0455	0.123198
0.473931	-0.21412	1.473931	0.135593	0.763195
0.029146	-0.40054	0.535332	1	0.962227
2.251539	1.286304	3.184425	0.003948	0.999906
-0.11103	-1.22033	0.666576	0.4795	0.92251
-0.1635	-0.51602	0.184425	0.200185	0.767862
0.074001	-0.34483	0.434403	0.669815	0.895182
-1.33342	-5.09466	0.089267	0.083265	0.763195
0.029146	-0.54597	0.494109	0.630954	0.974171
-0.55582	-1.45943	0.104697	0.109315	0.763195
-0.95606	-1.66903	-0.33342	0.02828	0.554626
-0.72247	-1.42223	-0.21412	0.010406	0.554626
0.286304	-0.59455	1.286304	0.465209	0.809214

-0.26303	-1.09761	0.535332	0.630954	0.802148
-0.76553	-1.5656	0.37707	0.141645	0.763195
-0.96347	-1.852	-0.12433	0.020921	0.763195
0.395929	-3.45812	2.395929	0.643429	0.875901
-0.1635	-0.58496	0.268817	0.630954	0.78519
0.415037	-1.79909	4.058894	0.42334	0.859691
0.136062	-1.43296	1.599462	0.715001	0.940999
-0.774	-1.43829	0.415037	0.3017	0.999906
-0.18903	-0.91839	0.358454	0.262332	0.816389
-0.05658				
-0.21412	-0.65992	0.200913	0.327187	0.763195

-0.37851	-0.848	0.074001	0.100348	0.763195
-1.02148	-2.04264	1.217591	0.521839	0.763195
0.286304	-0.20163	0.810966	0.10105	0.763195
-0.36737	-1.03562	0.434403	0.36131	0.767163
1.321928	0.136062	2	0.064078	0.763195
-1.36177	-2.73335	-0.1635	0.024975	0.763195
0.120294	-2.70487	1.888969	0.723674	0.961334
0.251539	0.0145	0.494109	0.037373	0.715184
-0.7137				
0.68966	0.234465	1.217591	0.016309	0.999906
-1.0072				
0.473931	-1.91073	err.	1	0.851631
0.494109	-0.44361	1.736966	0.200185	0.763195
0.268817	-0.42223	1.556393	0.630954	0.808592
-0.12433	-0.45418	0.184425	0.336668	0.783541

0.514573	-0.23879	1.888969	0.200185	0.763195
0	-0.36737	0.37707	0.881497	0.999963
0.666576	-0.09761	1.251539	0.149541	0.763195
0.514573	-0.42223	1.736966	0.200185	0.763195
-0.21412	-0.75702	0.494109	0.462433	0.803688
2.120294	1.434403	2.643856	0.003948	0.481211
-0.79077	-1.70929	-0.07039	0.02828	0.735303
-0.08406	-0.40054	0.184425	0.583882	0.819357
-0.18903	-0.79909	0.358454	0.521839	0.800469
0.074001	-0.74846	0.736966	0.748774	0.947873
0	-0.51602	0.434403	0.42334	0.996126
0.168123	-0.73118	0.888969	0.630954	0.876471
-0.18903	-0.94111	1.029146	0.715001	0.890653
0.251539	-0.08406	0.621488	0.054664	0.763195
-0.01436	-0.40054	0.321928	0.521839	0.974506
0.251539	-0.05658	0.514573	0.109315	0.763195
0.321928	-0.20163	0.915936	0.149541	0.763195

0.0145	-0.75702	1.251539	0.87278	0.998053
0.473931	-0.18903	1.058894	0.157299	0.763195
-0.17632	-0.40054	0.058894	0.109315	0.763195
-0.85599	-6.22362	err.	1	0.885512
1.029146	-1.17632	2.643856	0.12663	0.763195
0.234465	0.0145	0.454032	0.109315	0.763195
0.200913	0.074001	0.321928	0.010406	0.512827
-0.32193	-0.91073	0.535332	0.521839	0.776423
0.577767	0.043943	1.184425	0.055009	0.735303
0.200913	-0.22651	0.68966	0.144127	0.771888
0	-0.59455	0.713119	0.715001	0.998908
-0.51602				
-1.37851	-2.30451	-0.58496	0.006485	0.524901
-1.1635	-1.87971	-0.51602	0.016309	0.512827
-1.15704	-1.9782	-0.45418	0.016309	0.512827
-1	-2.02857	-0.27501	0.037373	0.554626
0.234465	-0.09761	0.577767	0.109315	0.999906
-0.09761	-0.54597	0.286304	0.630954	0.865468
-0.20163	-1.28096	0.599462	0.465209	0.858183
0.556393	-0.17632	1.152003	0.109315	0.763195
-0.80735	-1.51602	-0.17632	0.078169	0.632637
0.136062	-0.75702	0.836501	0.521839	0.903524
0.971431	-0.66903	2.251539	0.42334	0.999906
-0.774	-1.4489	-0.20163	0.054664	0.554626
-1.82375	-2.72247	-0.9855	0.003948	0.512827
-0.74846	-1.51096	0.120294	0.201243	0.763195
-0.1635	-0.78241	0.577767	0.583882	0.852165
-0.18903	-0.75702	0.234465	0.715001	0.78519
0.058894	-0.73985	0.810966	0.624206	0.956801
0.168123	-0.18903	0.473931	0.42334	0.767163
0.089267	-0.64155	0.621488	0.881497	0.913543
-0.64155				
-0.22651				
-0.07039	-0.37851	0.304006	0.624206	0.893883
-0.57531	-1.09761	0.029146	0.078169	0.763195
-0.29866	-0.79077	0.152003	0.144127	0.763195
-0.22651	-1.28688	0.621488	0.522431	0.849158
-0.28688	-1.09761	0.666576	0.462433	0.799948
0.395929	0.152003	0.666576	0.00617	0.512827
0.168123	-0.23879	0.514573	0.262332	0.782639
0.415037	-0.01436	0.915936	0.054664	0.763195



-1.97453

-0.01436	-0.69599	0.556393	1	0.992821
-2.68257	-4.4019	-1.1177	0.135593	0.683465
-1.96347	-3.66789	-0.28688	0.02828	0.763195

-2.17313	-4.12516	-0.46467	0.037373	0.763195
-1.4489	-2.72465	0.074001	0.024975	0.763195
0.268817	err.	5.643856	0.522431	0.930483
0.836501	-0.26303	3.473931	0.141645	0.763195
0.643856	err.	4.058894	0.715001	0.851726

0

-1.78241	-4.40463	0.168123	0.088082	0.763195
-0.41143	-4.02326	3.836501	0.465209	0.881933
-1.23879	-3.1635	1.395929	0.438578	0.763195

-1.82375	-3.2854	-0.08406	0.078169	0.763195
1.473931	err.	err.	0.200185	0.763195
1.152003	-3.09592	err.	0.36131	0.767163
0.268817	err.	1.358454	0.563703	0.902064
-0.43296	-2.81762	err.	0.855132	0.886947
1.321928				
0.761213	-2.89336	3.184425	0.42334	0.787079
0.268817	-2.82375	err.	0.521839	0.931665
0.058894	-2.926	err.	1	0.988708
0.621488				
-1.25096	-3.20789	err.	0.250592	0.763195

-2.40599	-4.37226	-0.73118	0.024975	0.739374
1.643856	-0.65992		0.054664	0.763195
2.058894	-0.90304	err.	0.078169	0.763195
1.321928	-1.58496	err.	0.196706	0.763195

-1.48027	-2.82985	0.643856	0.149541	0.763195
-1.26903	-2.28688	-0.15056	0.100348	0.763195

1.058894	err.	err.	0.354539	0.767957
1.286304	err.	err.	0.200185	0.767163
-1.08406	-2.488	1.599462	0.521839	0.763195
-0.94111	-2.29572	2.736966	0.855132	0.767163
-0.774	-4.2502	err.	1	0.807939

0.810966	-1.09761	2.943416	0.248213	0.763195
0	-2.1177	err.	1	0.999402
-0.32193	-1.84398	2.251539	1	0.882045
1.286304	-0.87184	err.	0.201243	0.763195

0.058894	-2.53854	3.836501	0.87278	0.986058
0.268817				
-1.67356	-3.46989	1.556393	0.149541	0.763195
-1.56071	-2.71149	0.836501	0.067889	0.763195
-1.83188	-3.54102	1.321928	0.078169	0.763195
-2.06005	-3.37434	err.	0.179712	0.763195
0.915936	-1.65076	err.	0.275234	0.767163
1.089267				
0.888969	-0.67807	2.473931	0.273322	0.763195
1.68966	err.	err.	0.149541	0.763195
-0.1635	-1.63691	1.836501	0.87278	0.934859
0.0145	-1.36737	2.251539	0.630954	0.996126
-0.63227	err.	err.	0.715001	0.876471
0.0145	-3.34199	5.643856	0.715001	0.998908
-0.28688	-1.57046	2.473931	1	0.893883
-0.43296				
-0.44361				
0.395929	-1.47508	3.321928	0.521839	0.852364
0.514573	-0.88753	2.473931	0.42334	0.78519
0.666576	-1.38957	5.643856	0.220671	0.783843
-0.79909				
-1.23879	-2.848	1.943416	0.12663	0.763195
0.888969	-1.02857	4.321928	0.200185	0.763195
0.971431	-1.26903	err.	0.201243	0.763195
1.321928	-0.90304	2.943416	0.262332	0.763195
-0.58496	-2.28392	err.	0.87278	0.837159
-1.81558	err.	err.	0.630954	0.772799
-0.87971			0.563703	0.807939
-0.61353	err.	err.	0.643429	0.851631
1.434403	err.	6.643856	0.296718	0.763195
-0.41143	err.	err.	1	0.913543
0.286304	-1.5656	4.643856	0.630954	0.902763
0	-3.12433	err.	0.77283	0.999727
1.599462	0.358454	2.943416	0.095581	0.707288
1.736966	-1.05658	err.	0.054664	0.763195
0.736966	-2.33056	4.643856	0.462433	0.78519
0.862496				
1.395929	-0.23879	3.473931	0.100348	0.763195
-0.32193	-1.94486	err.	1	0.914913
0.168123	-0.20163	0.556393	0.3017	0.767957

-1.0072	-1.848	-0.26303	0.037373	0.62642
0.029146	-0.47508	0.494109	0.748774	0.999906
0.074001	-1.26303	err.	1	0.970269
0.321928	-0.73985	1.643856	0.250592	0.817787
0.104697	-0.87184	1	1	0.932007

-0.41143	-0.79077	-0.02857	0.109315	0.763195
-0.4957	-0.93357	0	0.149541	0.763195
1.251539	-1.36177	2.251539	0.078169	0.763195

-0.1375	-0.87971	0.736966	0.464702	0.897799
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-0.59455	-1.3505	0.074001	0.149541	0.763195
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0.136062	-0.41143	0.810966	0.563703	0.861276
0.713119	-0.64155	2.643856	0.149541	0.763195
-0.37851	-0.7137	-0.08406	0.010515	0.707288

-0.31034	-0.70487	0.089267	0.149541	0.763195
0.251539	0.043943	0.454032	0.037373	0.664768

0.37707				
-0.67807	-3.37573	0.556393	0.144127	0.763195
-0.31034	-1.36737	1.785875	0.87278	0.866711
0.200913	-0.50589	0.836501	0.42334	0.832924
-0.01436	-0.32193	0.286304	1	0.980376
-0.34483	-1.02857	0.268817	0.149541	0.763195
-0.40054	-0.93357	0.184425	0.262332	0.763195
-0.20163	-0.65076	0.286304	0.583882	0.780135
-0.35614	-1.02857	0.184425	0.149541	0.763195
0	-0.73118	0.761213	0.87278	0.998908

-0.50589	-1.5656	0.217591	0.336668	0.763195
-0.04264				
-0.09761				

0.029146	-0.42223	0.599462	0.630954	0.97174
-0.17632	-1.26303	1.68966	0.855132	0.919059
0.120294	-0.64155	0.713119	1	0.893997
3.058894	err.	4.643856	0.070701	0.763195
-0.33342	-1.07724	0.268817	0.336668	0.763195
0.888969	-0.73118	2.184425	0.200825	0.763195
-0.22651	-0.926	0.321928	0.200185	0.786862

-0.80735	-1.81558	0.514573	0.36131	0.763195
0.0145	-0.15056	0.200913	0.630954	0.980376

-0.35614	-0.774	0.058894	0.135593	0.763195
-0.55582	-1.07724	0	0.109315	0.763195
-0.17632	-0.58496	0.286304	0.273322	0.786415
0.321928	-1.5509	1.152003	0.336668	0.848376
0.029146	-1.03562	0.666576	0.916815	0.980376
0.234465	-0.60407	0.862496	0.754023	0.813247
0.104697	-0.32193	0.494109	1	0.852321
0.029146	-0.9782	0.915936	0.87278	0.98954
0.251539				
0.074001	-0.35614	0.599462	0.630954	0.905087
0.37707	-0.22651	0.971431	0.201243	0.763195
-0.29866	-0.86394	0.168123	0.149541	0.763195
0.217591	-1.05658	2.643856	0.347208	0.90782
0.736966	-0.21412	1.434403	0.086411	0.763195
1.120294	0.358454	1.68966	0.00617	0.701423
-0.5656	-1.01436	-0.01436	0.086411	0.763195
-0.45418	-0.96347	0.0145	0.100348	0.763195
-0.1375	-0.38957	0.089267	0.248213	0.763195
-0.01436	-0.37851	0.340075	0.87278	0.98577
0.340075	-0.83996	1.217591	0.748774	0.804239
0.268817	-0.78241	1.029146	0.201243	0.820887
-0.46467	-1.39506	0.217591	0.149541	0.763195
-0.45418	-0.88753	-0.04264	0.086411	0.739374
0	-0.87971	0.713119	0.715001	0.999322
-0.36737	-1.36737	0.666576	0.465209	0.78519
-0.67807	-1.70044	-0.04264	0.037373	0.763195
-2.02148				
0.089267	-0.78241	0.836501	0.669815	0.934859
-0.43296	-1.01436	0.120294	0.054664	0.763195
-0.42223	-1.1375	0.251539	0.200185	0.763195
-0.42223	-0.94111	0.089267	0.100348	0.763195
-0.58496	-1.18903	0.217591	0.286422	0.763195
-0.27501	-1.03562	0.915936	0.4795	0.818591
-0.58496	-1.31034	0.089267	0.149541	0.999906
-0.07039	-1.20789	0.943416	0.748774	0.966516
0.217591	-0.81558	2	0.393769	0.883743
1.736966	-0.57531	2.736966	0.024975	0.763195
0.120294	-0.58496	0.785875	0.521839	0.89524

Freeman *et al.* Supplemental Table 2

This document contains all proteomic da

SN Diabetic-Control  
DRG Diabetic-Control  
TG Diabetic-Control

Column headings are as follows:

Accession  
Name  
Peptides  
Spectra  
Mean Log<sub>2</sub> Ratio  
l-95% CI  
u-95% CI  
lFDR  
gFDR

ta in 3 sheets as follows:

- Data from the sciatic nerve of streptozotocin-diabetic rats in comparison to healthy controls
- Data from the dorsal root ganglia of streptozotocin-diabetic rats in comparison to healthy controls
- Data from the trigeminal ganglia of streptozotocin-diabetic rats in comparison to healthy controls

- UniProt accession number
- Protein Name
- Number of peptides for this protein
- Number of spectra for this protein
- The inferred mean  $\log_2$  ratio for this comparison
- The lower 95% credible interval
- The upper 95% credible interval
- Local false discovery rate for the one-sided Bayesian test on this protein (direction of the test is given by the sign of th
- Global false discovery rate for the set of tests from the top of the spreadsheet to this entry. Where the IFDR of this tes

e Mean Log<sub>2</sub> Ratio)

it is tied with others, the greatest gFDR of these entries should be taken

Accession	Name	Peptides	Spectra	Mean Log <sub>2</sub> F	l-95% CI	u-95% CI	IFDR
sp P14046	Alpha-1-inh	13	30	-2.281154	-2.717715	-1.846525	0
tr Q5BKC4	C9 protein (	7	10	-0.793182	-1.013777	-0.563367	0
sp P01026	Complemer	50	100	-0.8821	-1.145616	-0.625892	1.25E-05
sp Q03626	Murinoglob	18	33	-1.066785	-1.429025	-0.719474	1.25E-05
sp P12785	Fatty acid s	52	100	-0.638085	-0.846854	-0.432447	5E-05
tr Q68FY4	Group speci	26	50	-0.816746	-1.112522	-0.522832	7.5E-05
sp P31232	Transgelin C	12	45	-0.940675	-1.288807	-0.598326	8.75E-05
sp P08649	Complemer	5	6	-0.569335	-0.790179	-0.356773	0.000125
tr F1LR41	F Uncharacte	17	47	-0.711885	-0.988149	-0.421971	0.000175
sp P29826	Rano class I	2	3	-0.739445	-1.015277	-0.457204	0.000175
sp P62963	Profilin-1 O	11	31	-0.217966	-0.281104	-0.158066	0.0001875
sp P02770	Serum albu	33	100	-0.521236	-0.726884	-0.313951	0.0002
tr B1WBS6	Glb1l protei	1	5	-0.467472	-0.616477	-0.306679	0.0002
tr D3Z8Y5	I Uncharacte	13	28	-0.764808	-1.085244	-0.442248	0.0002125
sp P20059	Hemopexin	21	49	-1.04607	-1.459215	-0.617238	0.000225
tr D3ZC54	I Uncharacte	2	5	-0.915909	-1.2834	-0.553127	0.000225
tr Q923Z2	I Tropomyosi	3	7	-0.755547	-1.058266	-0.439409	0.0002375
sp Q63041	Alpha-1-ma	33	72	-0.867768	-1.251217	-0.499712	0.0002875
tr D3ZJ95	C Uncharacte	14	31	-0.740159	-1.046925	-0.42869	0.0002875
tr Q5I0M1	Apolipoprot	8	14	-0.561702	-0.788063	-0.339274	0.0003
tr D3ZXX2	I Uncharacte	54	100	-0.469293	-0.658713	-0.281143	0.000325
sp P16303	Carboxylest	14	29	-1.575787	-2.27726	-0.871514	0.0003375
tr D4A7U1	Uncharacte	6	8	-0.360778	-0.488416	-0.230553	0.00035
sp P02680	Fibrinogen	5	6	-0.717955	-1.034112	-0.419484	0.0004
tr D3ZZX3	I Uncharacte	32	59	-0.308126	-0.42422	-0.188592	0.000475
sp P36953	Afamin OS=	19	33	-0.641912	-0.947464	-0.344972	0.0005125
sp Q35413	Sorbin and	2	3	-0.675928	-0.999833	-0.367296	0.0005375
sp Q63556	Serine prote	7	11	-0.765822	-1.085544	-0.420049	0.0005875
sp P81155	Voltage-dep	5	13	0.3619773	0.2196575	0.5030236	0.000625
sp P24368	Peptidyl-pro	10	22	-0.413392	-0.592468	-0.240778	0.0006625
tr Q5RJR9	C Serine (Or c	12	24	-0.462945	-0.668063	-0.253342	0.0006875
sp P20788	Cytochrome	7	15	0.2881161	0.1705463	0.407205	0.0007375
sp P06761	78 kDa gluc	23	42	-0.377969	-0.544216	-0.216542	0.0007625
sp Q9QXQ0	Alpha-actini	22	43	-0.338512	-0.47875	-0.195392	0.0008
sp P18292	Prothrombi	10	16	-0.47749	-0.687364	-0.255174	0.000825
tr F1LQX0	F Uncharacte	8	16	-1.220326	-1.850752	-0.568682	0.0008625
sp P58775-	Isoform 2 o	5	14	-0.762049	-1.123482	-0.410633	0.000875
sp Q62812	Myosin-9 O	52	100	-0.31164	-0.441644	-0.186528	0.000975
tr D3ZFC6	I Uncharacte	19	38	-0.589273	-0.87174	-0.309539	0.0009875
sp Q5RJR8	Leucine-rich	3	6	-0.547505	-0.81128	-0.275534	0.0009875
sp Q66HD0	Endoplasmic	22	41	-0.268736	-0.375399	-0.162748	0.0010125
sp P18418	Calreticulin	16	34	-0.343447	-0.493158	-0.197034	0.0010375
tr D3ZUU6	RCG25681 C	8	15	-0.376953	-0.554605	-0.213772	0.0010375
sp P11598	Protein disu	30	62	-0.299893	-0.431644	-0.174186	0.0011375
tr D4ADX5	Uncharacte	1	5	0.3228838	0.1753666	0.4741886	0.0013
sp Q9JI03	C Collagen al	3	4	0.5683491	0.2748914	0.8709956	0.0013875
sp Q8VHE9	All-trans-ret	6	9	-0.939556	-1.439218	-0.469807	0.0014375
sp Q62736	Non-muscle	19	26	-0.382434	-0.559245	-0.212863	0.00145
sp P54690	Branched-cl	5	6	0.4303075	0.2109388	0.657178	0.0017



tr D3ZYI8 D Uncharacte	6	13	-0.293786	-0.415673	-0.170421	0.0017
tr F1LZC5 F Uncharacte	3	7	0.4127086	0.2100579	0.6179222	0.0017625
tr Q6PDV8  RCG31311 C	4	8	-0.400005	-0.595939	-0.208881	0.0018
sp P52555  Endoplasmic	4	5	-0.401201	-0.621591	-0.198241	0.0018125
sp P07150  Annexin A1	22	52	-0.610721	-0.9359	-0.276287	0.00185
sp Q9Z1P2  Alpha-actinin	21	38	-0.410186	-0.608706	-0.207608	0.0019
sp P01015  Angiotensin	6	11	-0.642059	-0.983974	-0.290353	0.00195
sp Q6IRK9  Plasma glut	8	23	-0.540015	-0.812296	-0.254733	0.0019625
tr D3ZFF3 C Uncharacte	7	10	-0.44467	-0.677936	-0.224818	0.0022125
sp Q5BK63  NADH dehydro	9	15	0.3027265	0.1573756	0.4511054	0.0022625
sp P02650  Apolipoprotein	8	15	-0.608947	-0.953789	-0.282407	0.0023
sp Q63081  Protein disulf	10	23	-0.329519	-0.478544	-0.174405	0.00245
tr F1LSF5 F Uncharacte	13	27	-1.247729	-1.998441	-0.512304	0.0024875
sp B0K020  CDGSH iron	4	8	0.4223658	0.2032897	0.6430963	0.0027125
tr F1LQL3 F Uncharacte	8	12	-0.257524	-0.377662	-0.133533	0.0027875
sp Q641Z6  EH domain-	8	17	-0.379535	-0.58534	-0.178079	0.002925
tr F1M4U5  Uncharacte	10	16	0.2866664	0.1512877	0.4188559	0.0029875
sp Q5XIF3 I NADH dehydro	5	5	0.3944716	0.1857703	0.6066018	0.0029875
sp P38983  40S ribosomal	9	17	-0.303099	-0.451749	-0.15736	0.0032625
sp Q4AEF8  Coatamer s	12	18	-0.315908	-0.482656	-0.152207	0.0033125
sp P52944  PDZ and LIM	5	7	-0.413674	-0.637872	-0.181741	0.0035125
tr F1LZ56 F Uncharacte	8	14	-0.688428	-1.104296	-0.278273	0.00385
tr F1LST5 F Uncharacte	1	3	-0.348267	-0.521716	-0.166197	0.00395
tr F1LRK8 F Uncharacte	11	22	-0.187189	-0.268108	-0.107577	0.0040125
sp Q01177  Plasminogen	16	24	-0.448362	-0.711814	-0.186222	0.0041
tr F1M983  Uncharacte	7	9	-0.420552	-0.658673	-0.182441	0.0041125
sp P68035  Actin, alpha	2	3	-0.546673	-0.878649	-0.216982	0.004125
sp P34058  Heat shock	18	36	-0.186298	-0.26648	-0.10617	0.0041875
sp Q63798  Proteasome	5	6	-0.393394	-0.628389	-0.164562	0.0042125
sp P38659  Protein disulf	11	13	-0.501837	-0.795257	-0.206302	0.0043125
tr Q7TQ11  Aa1018 OS-	5	7	-0.576029	-0.925986	-0.226073	0.004625
sp P52873  Pyruvate car	16	20	-0.495619	-0.795874	-0.204685	0.0046375
sp Q9R1Z0  Voltage-depe	4	7	0.3583888	0.164359	0.554733	0.0046875
sp Q9Z2L0  Voltage-depe	9	19	0.4152614	0.170878	0.6524173	0.0047125
tr D3ZIA3 C Uncharacte	6	8	-0.280259	-0.43742	-0.132198	0.004775
tr F1MAG6  Uncharacte	15	32	-0.428821	-0.683284	-0.173873	0.0048
sp P47819-2 Isoform 2 of	5	9	-0.354781	-0.531152	-0.173498	0.0048125
tr B2GV72  Carbonyl re	2	6	-0.422566	-0.667624	-0.17477	0.0048375
tr B2RZ44 E N-acetyltran	1	2	-0.350226	-0.55733	-0.150709	0.00495
sp Q64611  Cysteine sul	4	7	-0.673553	-1.112057	-0.244346	0.0049875
sp P27952  40S ribosomal	10	18	-0.27559	-0.422894	-0.132531	0.005025
tr Q5BJT9 C Creatine kinase	8	11	0.3494003	0.1369522	0.5758505	0.0051625
sp P62630  Elongation factor	15	55	-0.254568	-0.386337	-0.120467	0.0052125
sp O08619  Coagulation	5	11	-0.454166	-0.719968	-0.177676	0.0052125
tr B6DYQ7  Glutathione	9	28	0.2003953	0.1028421	0.2998646	0.00525
tr D3ZQN7  Uncharacte	34	56	0.409908	0.1664886	0.6539064	0.0052625
tr Q6AYJ9 C ADP-ribosyl	8	16	0.3459108	0.1460611	0.5402226	0.005325
sp Q62920  PDZ and LIM	4	7	-0.416292	-0.661633	-0.17341	0.0053625
sp P17077  60S ribosomal	1	4	-0.308046	-0.476165	-0.131523	0.0054
tr D3ZG43  NADH dehydro	4	9	0.3947214	0.1691553	0.6305893	0.0054125

tr F1M614	Uncharacte	66	100	0.4981962	0.1876053	0.8135027	0.00545
sp Q8VI04	L-asparagin	9	19	-0.172555	-0.246116	-0.10163	0.0054875
sp Q6MG61	Chloride int	4	10	-0.275091	-0.419951	-0.132616	0.005725
sp P17425	Hydroxyme	11	17	-0.293184	-0.44909	-0.134314	0.00585
sp Q06647	ATP synthas	10	23	0.2350845	0.119628	0.3535386	0.0058625
sp P13941	Collagen al	5	7	-0.449788	-0.720478	-0.161127	0.0061125
tr F1LZW6	Uncharacte	2	3	0.455345	0.1630685	0.7583066	0.0062125
tr D3ZV82	Uncharacte	2	4	-0.48822	-0.793686	-0.176238	0.0063875
tr B6DYQ4	Microsomal	2	3	-0.998079	-1.665963	-0.291563	0.0064375
sp P05545	Serine prote	13	30	-0.597873	-1.000537	-0.205486	0.006625
sp P12346	Serotransfe	2	11	-0.535964	-0.873499	-0.195587	0.0067875
tr F1LQD5	Uncharacte	2	3	-0.610309	-1.034449	-0.210506	0.006825
tr F1LM05	Uncharacte	10	28	-0.739447	-1.242795	-0.224707	0.006925
tr D3ZUM2	Sterile alphi	4	5	0.5048986	0.1725296	0.8383848	0.0069625
sp P47875	Cysteine an	10	18	-0.238964	-0.359167	-0.112889	0.007
sp Q9WV78	Plasmalemr	1	2	-0.438255	-0.713924	-0.158497	0.0072125
sp Q5XF0	Transgelin-2	13	38	-0.393169	-0.630264	-0.145324	0.0073125
sp Q35179	Endophilin-	8	13	0.2923426	0.120939	0.4667481	0.007375
sp P20595	Guanylate c	3	4	-0.464042	-0.742118	-0.169891	0.0075375
tr D3ZUM4	Beta-galactu	5	9	-0.409139	-0.674201	-0.15876	0.007775
sp Q7TQ16	Cytochrome	4	8	0.3097907	0.1202044	0.4973349	0.0078375
tr D4A0Y1	Uncharacte	14	20	-0.45349	-0.753381	-0.164059	0.0079375
sp P10888	Cytochrome	6	13	0.2985928	0.1225222	0.4728599	0.008025
sp P01048	T-kininogen	6	15	0.4361191	0.1620153	0.7199508	0.0080625
sp P14141	Carbonic an	16	74	-1.306517	-2.287319	-0.350127	0.008075
sp P19511	ATP synthas	5	10	0.2557681	0.1113123	0.4001561	0.008125
tr D4A0S8	Uncharacte	3	5	-0.253258	-0.396414	-0.113989	0.00815
sp Q6AYS7	Aminoacyla	9	19	-0.283851	-0.447164	-0.121958	0.0082875
sp P29314	40S ribosom	11	17	-0.243116	-0.377195	-0.106931	0.008325
tr Q66HI5	Ferritin OS=	6	10	0.3084232	0.1223653	0.4950583	0.0083375
tr Q5XFV4	Fabp4 prote	10	36	-0.951369	-1.653075	-0.271367	0.00835
tr B5DF91	ELAV (Embr	4	5	-0.286937	-0.459916	-0.121141	0.0084375
sp P84100	60S ribosom	4	4	-0.271798	-0.432538	-0.112882	0.0086625
tr Q6P9Y4	Solute carri	5	11	0.4504522	0.1521693	0.7495853	0.00885
sp Q9Z0W7	Chloride int	6	7	-0.232582	-0.360834	-0.104809	0.0089125
sp P11980	Pyruvate kir	4	13	0.4318806	0.1456952	0.729655	0.0092375
sp P50878	60S ribosom	10	18	-0.235578	-0.372122	-0.105535	0.0092375
tr Q8K3R4	30 kDa adip	1	2	-0.549486	-0.944557	-0.149831	0.00925
sp P85972	Vinculin OS=	51	100	-0.256078	-0.403797	-0.112609	0.0093375
tr D3Z913	Uncharacte	20	28	0.2778033	0.1114751	0.4446014	0.0097
sp Q6AXV4	Sorting and	3	6	0.4128461	0.1274536	0.6891556	0.010075
sp P25093	Fumarylac	6	6	-0.564978	-0.96958	-0.169744	0.010275
sp O88644	Grifin OS=R	1	2	-1.250422	-2.210343	-0.278065	0.0103875
tr D3ZX87	Uncharacte	5	6	-0.255742	-0.41166	-0.107093	0.0109375
tr F1LN18	Uncharacte	9	11	-0.288473	-0.468067	-0.104503	0.0109625
sp Q01129	Decorin OS=	18	100	0.1817428	0.0885079	0.2712896	0.011025
sp P85973	Purine nucl	12	32	-0.358752	-0.595173	-0.122799	0.011025
sp P04636	Malate deh	16	59	0.1839511	0.0880399	0.2783689	0.0110375
sp Q5RKI0	WD repeat-	18	33	-0.155547	-0.22787	-0.08459	0.01105
tr Q4QQV0	Tubulin, bet	4	5	-0.325578	-0.538086	-0.107996	0.0111

sp P04041	Glutathione	6	10	-0.373205	-0.62682	-0.119714	0.011125
tr F1M6Q3	Uncharacte	5	10	0.6097628	0.1603541	1.0580384	0.01115
sp Q63355	Myosin-Ic C	35	59	-0.16486	-0.242578	-0.087392	0.0111875
sp Q1WIM3	Cell adhesic	7	16	0.3755462	0.1211352	0.6314692	0.0115125
sp P24090	Alpha-2-HS-	13	62	-0.404906	-0.690128	-0.130299	0.01155
sp P07340	Sodium/pot	8	19	0.5863758	0.156513	1.0254922	0.011775
sp P04797	Glyceraldeh	21	85	0.3522407	0.1200999	0.5940782	0.0118375
sp P61265	Syntaxin-1B	4	6	0.4454611	0.1287949	0.7588457	0.0121125
tr B7X6I3 B	C38 protein	6	9	0.4960115	0.1417845	0.8810871	0.0122
sp Q5XIH7	Prohibitin-2	16	26	0.2868736	0.1009291	0.4676197	0.012775
tr F1M7I8 F	Uncharacte	2	5	-0.743326	-1.294682	-0.156418	0.0128125
tr F1M957	Uncharacte	3	7	-0.380577	-0.65401	-0.114428	0.013125
tr D3ZUX5	Coiled-coil-I	2	3	0.3832402	0.1068014	0.6524531	0.01335
tr F1M2X2	Uncharacte	16	32	0.2590595	0.1009017	0.4223204	0.013375
tr D3Z7Y9 I	Uncharacte	3	4	-0.776235	-1.332352	-0.177415	0.0134
sp P07151	Beta-2-micr	4	6	-0.401579	-0.678706	-0.115087	0.0135375
sp Q6IUR5	Neudesin O	3	5	-0.367258	-0.635623	-0.105958	0.0136
sp Q35077	Glycerol-3- $\phi$	14	26	-0.439028	-0.75574	-0.11547	0.01365
sp P62278	40S ribosom	5	12	-0.207618	-0.325894	-0.085021	0.01365
sp Q68FX0	Isocitrate de	6	12	0.2139536	0.0885	0.3415856	0.013675
sp Q5MPA9	Serine/thre	4	5	0.40798	0.1194269	0.7093924	0.0137
sp Q66H86	Olfactomed	8	16	0.3080767	0.1055937	0.5217255	0.0137625
tr D3ZFH5 I	Uncharacte	4	8	-0.301883	-0.509639	-0.096964	0.0137875
sp P60892	Ribose-phos	6	12	0.242174	0.0918442	0.3905369	0.0141
tr D3ZWG4	Uncharacte	10	45	0.5952229	0.1419476	1.0581068	0.0141375
sp Q8VBU2	Protein NDF	6	12	0.2007256	0.0884456	0.3242392	0.0141375
sp Q6B345	Protein S10	3	11	-0.221787	-0.355589	-0.085217	0.0142375
tr D3ZNA6	Microtubule	11	17	0.2383446	0.0924196	0.3799373	0.0143125
sp P11240	Cytochrome	8	20	0.2978941	0.0996273	0.4989676	0.0144625
sp O08730	Glycogenin-	3	7	0.3391415	0.103915	0.5766685	0.0144875
tr Q3MID6	Calumenin (	1	2	-0.470425	-0.838751	-0.132041	0.014675
sp Q66HF1	NADH-ubiqui	12	21	0.2595586	0.0911775	0.4277794	0.0152125
tr F1M853	Uncharacte	19	22	-0.344201	-0.59916	-0.097886	0.01545
sp P62853	40S ribosom	4	6	-0.280933	-0.465252	-0.094623	0.01545
tr B1PLB1 E	CD34 antigen	5	7	-0.403257	-0.695938	-0.101921	0.015575
tr D3ZW18	Uncharacte	7	12	0.2932223	0.0969631	0.486847	0.0156125
tr E9PSV0 E	Uncharacte	5	6	-0.482809	-0.855828	-0.108759	0.0157625
sp Q6PDV7	60S ribosom	10	24	-0.273083	-0.455435	-0.094709	0.0157875
sp Q63560	Microtubule	15	27	0.2733757	0.0904175	0.4508226	0.0158125
tr Q55158 I	D6.1A prote	2	4	0.3315145	0.095817	0.5609393	0.0158625
sp Q9WUW	Complemer	4	6	-0.311279	-0.5173	-0.107515	0.015875
sp Q9EPB1	Dipeptidyl $\phi$	2	3	-0.417749	-0.737069	-0.099011	0.015925
tr B5DEN5	Eukaryotic t	6	10	-0.184647	-0.286738	-0.081516	0.015975
tr D3ZZ95 I	60S ribosom	5	6	-0.235507	-0.373368	-0.091143	0.0160625
sp P00786	Pro-catheps	2	2	-0.380479	-0.68969	-0.102661	0.0162375
tr F1M7F7	Uncharacte	2	2	-0.822828	-1.462263	-0.157611	0.0164
tr F1M9K9	6-phosphog	12	34	-0.178548	-0.279243	-0.081254	0.0165
tr F1LQW3	Uncharacte	4	8	-0.250271	-0.417012	-0.087446	0.0165625
tr Q4KMA8	Erap1 prote	5	5	-0.397948	-0.688704	-0.109727	0.0166
sp P62832	60S ribosom	6	15	-0.276377	-0.462243	-0.091116	0.0166375

sp P24054	SPARC-like	3	3	0.4080508	0.1041473	0.6958636	0.01675
sp POC0A9	Small VCP/	4	7	0.5880175	0.1098195	1.0602917	0.0172125
sp P97675	Ectonucleot	7	10	-0.274061	-0.470333	-0.086222	0.0174625
tr D3Z9L8	Uncharacte	2	4	-0.243941	-0.404815	-0.088481	0.017875
sp Q66X93	Staphylococ	8	13	-0.212223	-0.340044	-0.077754	0.018225
sp Q4KLF8	Actin-relate	4	8	-0.23366	-0.383036	-0.082333	0.018325
tr F1LPY9	Uncharacte	2	3	-0.233132	-0.37797	-0.084287	0.0184625
tr D3ZJP8	Uncharacte	1	4	-0.595743	-1.078969	-0.095974	0.018575
sp P12075	Cytochromc	3	9	0.2430448	0.0801356	0.4023129	0.0189125
sp P06685	Sodium/pot	23	55	0.4189436	0.098142	0.7531403	0.0194625
sp P60881	Synaptosom	5	7	0.3245822	0.0944356	0.5568294	0.019525
tr B2RYS2	RCG60159 (	3	5	0.2628931	0.0804664	0.4452329	0.019825
sp Q64428	Trifunctiona	26	44	0.1635769	0.078544	0.2546096	0.0198875
tr F1LPJ9	Uncharacte	2	2	-0.500626	-0.915804	-0.099404	0.0199
tr D3ZFS9	Uncharacte	4	7	-0.360402	-0.622952	-0.097328	0.0201875
tr D4ACL3	Uncharacte	14	22	-0.287162	-0.495288	-0.081943	0.0204375
tr D3ZSE0	40S ribosom	3	7	-0.352543	-0.617441	-0.086508	0.0206875
sp P15304	Hormone-se	7	13	-0.598901	-1.12114	-0.099015	0.0207375
sp Q9QZA6	CD151 antiq	9	18	0.5068764	0.0986892	0.9369116	0.02075
sp P62907	60S ribosom	5	8	-0.250018	-0.427765	-0.081255	0.020775
tr D4A0T0	RCG32945 (	4	5	0.3968051	0.0833553	0.7153523	0.020825
tr Q6AXM6	Intercellula	1	3	-0.363928	-0.651338	-0.091378	0.0209625
sp P04785	Protein disu	20	36	-0.2498	-0.424419	-0.08092	0.0211125
sp P11951	Cytochromc	4	7	0.2442038	0.0820175	0.4146438	0.0211875
tr D3ZM87	Nebulin (Pr	13	14	1.1404176	0.083704	2.1946625	0.0213
sp Q6QA69	1-acylglycer	2	3	-0.89187	-1.678605	-0.11771	0.0214375
sp Q9ESM2	Hyaluronan	5	6	0.5858362	0.0559581	1.1391758	0.021475
sp P00507	Aspartate a	18	44	0.1876507	0.0724513	0.3001064	0.02185
tr B0K031	RCG30479,	6	8	-0.261047	-0.458227	-0.073475	0.021925
sp P05197	Elongation f	27	65	-0.208723	-0.34262	-0.074632	0.0219375
sp B4F795	Choline trar	9	16	0.3952947	0.0769362	0.7170265	0.0219625
tr Q9JKB7	Guanine de	27	67	-0.296863	-0.511688	-0.073281	0.0220625
tr D3ZZR9	FK506 bindi	6	10	-0.195818	-0.317397	-0.072661	0.022225
sp Q9JLA3	UDP-glucos	4	4	-0.344642	-0.615977	-0.076373	0.022325
tr Q4FZZ4	Pyruvate de	12	24	0.1790748	0.0719009	0.284725	0.0229375
sp P21807	Peripherin (	26	100	0.423654	0.0788076	0.7711175	0.0231375
tr F1LQN3	Uncharacte	14	25	0.2939648	0.0775409	0.5204003	0.0232125
tr Q9WVJ6	Tissue-type	7	9	-0.284301	-0.499934	-0.068861	0.0235625
tr Q5I0M7	Hnrpa1 pro	7	8	-0.234406	-0.401641	-0.069042	0.023775
tr Q5M860	Rho, GDP di	4	7	-0.333459	-0.597267	-0.076388	0.0240625
tr D3ZE37	Uncharacte	2	3	-0.279459	-0.485772	-0.068385	0.02415
sp Q4V8H8	EH domain-	24	68	-0.27741	-0.47746	-0.065784	0.0242125
sp Q6AYD4	Endothelial	1	2	-0.693532	-1.342272	-0.073027	0.0243125
tr F1M8K0	Uncharacte	15	28	0.256966	0.0697879	0.4375842	0.02445
tr D3Z9Y9	Uncharacte	3	4	-0.302004	-0.538069	-0.075098	0.024475
tr D3ZN79	Uncharacte	4	5	-0.293119	-0.517983	-0.070394	0.0246
tr Q6IRH6	Slc25a3 pro	9	17	0.2743698	0.0644091	0.482599	0.0249875
sp P39069	Adenylate k	4	11	0.4624416	0.0710042	0.8514552	0.0250375
sp Q99PD6	Transformir	4	5	-0.397854	-0.716488	-0.07673	0.02505
tr F1LP22	Uncharacte	2	3	0.3795024	0.0372029	0.8196304	0.0254375

tr D4A3L8 I RCG47053 (	3	5	-0.43156	-0.813476	-0.062242	0.0255375
tr F1LSW7  Uncharacte	3	6	-0.229283	-0.387699	-0.067644	0.025675
tr B5DEH4  Uap1l1 prot	5	7	-0.284843	-0.504932	-0.070652	0.02575
tr B1H277 I Pgm2 prote	8	9	-0.273588	-0.478303	-0.066978	0.025825
tr D3ZC55 I Heat shock	21	49	0.2165527	0.0722372	0.3667053	0.025875
tr D4A3V2  NADH dehy	3	6	0.3462561	0.0672533	0.6265532	0.026
sp O08628  Procollagen	4	4	-0.290563	-0.501984	-0.074826	0.026075
sp P63245  Guanine nu	6	10	-0.273681	-0.47717	-0.065382	0.0262375
tr D3ZJ82 C Uncharacte	6	14	0.4035155	0.0696923	0.7464525	0.0263375
tr B2RZC1 I Retinol binc	2	2	-1.097796	-2.255865	-0.037849	0.0273
tr B1WBM0 CD9 molecu	9	60	0.543621	0.0560508	1.0265629	0.0274875
tr D4A6F0 I Uncharacte	3	4	-0.315975	-0.585971	-0.059078	0.028275
sp O35142  Coatomer s	6	10	-0.216533	-0.37735	-0.062892	0.0286
tr E9PTT4 E Uncharacte	5	7	0.2152626	0.0693817	0.365123	0.0287
tr D4A8P1 I Uncharacte	6	15	-0.230866	-0.397285	-0.068876	0.0287625
tr D3ZD09 I Uncharacte	4	6	0.2225675	0.0671942	0.3813482	0.0288125
sp P85969  Beta-solubl	4	6	0.3712989	0.0474622	0.6882028	0.02885
sp Q924C3  Ectonucleot	3	3	0.4136343	0.0598833	0.7550708	0.029
tr Q5RK10 I Neuroprote	4	9	-0.269149	-0.468325	-0.058475	0.0290125
sp P19643 I Amine oxid	13	27	0.4405908	0.0576874	0.8279664	0.0290875
tr E9PTV0 E Uncharacte	1	3	0.3085816	0.0637672	0.5635644	0.0291
sp P35053 I Glypican-1 (	3	3	-0.276257	-0.497335	-0.068992	0.0291125
sp Q5U211  Sorting nexi	4	8	-0.199419	-0.337	-0.066828	0.029175
sp Q68FS4  Cytosol ami	13	27	-0.16819	-0.270395	-0.065476	0.0293625
sp Q6TEK3 I Vitamin K e	1	2	-0.331209	-0.607438	-0.063111	0.0294625
sp P09811  Glycogen pl	4	5	-0.549107	-1.034485	-0.040095	0.0298375
tr F1LPP9 F Uncharacte	6	10	-0.218751	-0.384252	-0.061919	0.0298875
tr F1LXA0 F Uncharacte	1	3	0.2765701	0.0606681	0.4957173	0.0299375
sp P15999 I ATP synthas	26	53	0.2333675	0.0615672	0.4037186	0.0301375
tr Q6IMZ5 I Tropomodu	5	7	0.2726769	0.0601866	0.481611	0.0301625
tr D3ZS58 I NADH dehy	2	5	0.2728366	0.0562036	0.4826887	0.0302625
sp P61765 I Isoform 2 o	18	36	0.2487183	0.0621047	0.4338916	0.0303
tr F1LSD3 F Integrin bet	50	100	0.2815084	0.0589961	0.5064067	0.030325
sp Q91XU8 I Phosphatidi	2	4	0.4657513	0.0329411	0.8827239	0.030575
tr F1LT35 F Uncharacte	5	8	-0.277229	-0.497699	-0.05425	0.030725
tr Q6MG98 I Histocompa	1	2	-1.313151	-2.710722	0.0302809	0.030725
sp P49432 I Pyruvate de	9	20	0.2121033	0.0608663	0.3686595	0.0309
tr F1LNN9 I Uncharacte	7	10	0.2108013	0.0590764	0.3584537	0.0311125
sp Q4FZY0 I EF-hand doi	5	11	-0.210493	-0.347308	-0.069051	0.031125
sp B0BNI5 I Olfactomed	5	11	0.3383191	0.049984	0.6136485	0.0313
sp Q00981 I Ubiquitin ce	12	46	0.2060632	0.0593224	0.348483	0.031825
sp P21396 I Amine oxid	10	17	0.26561	0.0599248	0.4771861	0.032
sp P0C1Q3 I Lysophosph	1	2	0.3299876	0.0531723	0.6234644	0.032175
sp P14669 I Annexin A3	18	34	-0.247361	-0.439904	-0.060108	0.0323
sp Q9EST6 I Acidic leucir	3	5	-0.253879	-0.442652	-0.054691	0.0324375
tr Q5M7T5 I Serine (Or c	18	37	-0.342447	-0.632934	-0.047831	0.032475
sp P62632 I Elongation f	5	7	0.3731514	0.0541727	0.7056637	0.0326625
sp P61314 I 60S ribosom	3	4	-0.256485	-0.455202	-0.057199	0.032725
tr D3ZHM9 I RCG53372 (	1	2	-0.645951	-1.22511	-0.043574	0.0329125
tr D3ZW56 I Neurofascir	10	14	0.2394601	0.0523337	0.4191243	0.0333875

sp P13638	Sodium/pot	1	2	0.5945133	0.0305381	1.1761716	0.03395
sp Q9ROT3	DnaJ homol	1	2	-0.445784	-0.864915	-0.027333	0.0342
sp Q08420	Extracellula	4	12	0.2175654	0.0568717	0.3818144	0.03475
sp P13221	Aspartate a	17	46	0.1480257	0.0606276	0.23072	0.0348625
sp Q5U2R7	LDLR chape	2	3	-0.298696	-0.539045	-0.034286	0.0349125
sp Q64240	Protein AM	2	6	-0.36639	-0.697554	-0.048341	0.0351125
tr F1M0B2	Uncharacte	2	2	-0.637893	-1.325982	0.006413	0.035525
sp Q9HB97	Alpha-parvi	8	15	-0.183262	-0.314304	-0.057339	0.035775
sp Q9Z2Q1	Protein trar	10	14	-0.202533	-0.353014	-0.055692	0.03585
tr D3ZAF6	Uncharacte	2	5	0.2538816	0.0455945	0.4522972	0.0360625
tr F1MAA7	Uncharacte	40	77	0.2785602	0.0532391	0.5156343	0.0362375
sp P62890	60S riboson	4	5	-0.320422	-0.601572	-0.037462	0.0362375
tr D4A702	Uncharacte	4	5	-0.448014	-0.85361	-0.017204	0.0363
sp Q4KLZ6	Bifunctional	2	4	-0.256622	-0.463539	-0.051837	0.0363875
tr D4A2A6	Uncharacte	23	37	0.9180442	-0.037115	1.8536547	0.0366
tr D3ZSD1	Uncharacte	17	24	0.2276394	0.0511838	0.3971844	0.0366375
tr B5DEY8	Sorting nexi	2	3	-0.246197	-0.437818	-0.048068	0.036975
tr D4A276	Mitochondr	1	3	0.3727736	0.0242232	0.7186758	0.037
sp Q5XI07	Lipoma-pre	5	7	-0.299905	-0.539743	-0.045947	0.037125
tr D3ZTM3	Uncharacte	6	9	0.1950918	0.0577623	0.3333601	0.03725
tr E9PTI3	Uncharacte	37	67	-0.456176	-0.884771	-0.023398	0.037275
sp P83732	60S riboson	1	2	-0.268859	-0.49088	-0.044003	0.0373375
sp P07722	Isoform S-IV	10	21	0.4163307	0.0240258	0.8066762	0.037575
sp Q63377	Sodium/pot	9	20	0.2441377	0.0496334	0.4402119	0.037725
sp P13233	2',3'-cyclic-r	32	100	0.2621528	0.0470408	0.4776585	0.0381875
tr B2GV92	Ptges3 prot	1	4	-0.161359	-0.264091	-0.058182	0.0383875
sp P63055	Purkinje cel	2	7	0.2626887	0.0404156	0.4876501	0.0393125
sp Q66H98	Serum depr	13	21	-0.229737	-0.41614	-0.049705	0.0394625
sp P04639	Apolipoprot	19	38	0.3824669	0.0303715	0.7379279	0.03995
tr B2RZ09	Arginine-ric	1	3	-0.385841	-0.77508	0.008712	0.040225
tr B5DF65	Biliverdin re	5	13	-0.238265	-0.429215	-0.040335	0.0405875
sp Q9JHY2	Sideroflexin	8	15	0.296316	0.0361266	0.5573666	0.04095
sp Q63572	Dual specifi	2	6	0.4645031	0.0103268	0.9082825	0.041
tr D3ZF86	Uncharacte	2	9	0.298661	0.0406527	0.5574652	0.041225
tr F1LQS3	60S riboson	9	18	-0.215533	-0.378933	-0.046744	0.041275
sp O35331	Pyridoxal ki	4	5	-0.33457	-0.63401	-0.034443	0.0413375
tr O70188	Nuclear fact	2	3	-0.319786	-0.613717	-0.028061	0.041475
sp Q64119	Myosin ligh	8	17	-0.183739	-0.312126	-0.054738	0.041825
tr D4A6I2	Uncharacte	4	6	-0.319608	-0.610659	-0.036197	0.04205
tr F1M820	Uncharacte	17	28	-0.141442	-0.221039	-0.05845	0.0425125
tr F1LP60	Uncharacte	21	45	-0.140967	-0.223152	-0.059103	0.04285
sp P16391	RT1 class I f	3	4	-0.290334	-0.556397	-0.027299	0.04335
sp P12839	Neurofilam	36	100	0.4214048	0.0100573	0.8327303	0.04345
tr D3ZZC1	RCG43947 C	4	6	-0.253588	-0.475076	-0.0482	0.0435
tr F1M200	Ubiquitin ca	2	3	0.4071122	0.0064436	0.8327413	0.0436625
sp Q05764	Beta-adduc	4	7	0.2093691	0.0456751	0.3763574	0.0438
tr D3ZPF0	Four and a l	2	3	-0.396382	-0.773799	-0.008945	0.0442
tr F1LRS7	Uncharacte	2	3	-0.390334	-0.750795	-0.003052	0.044275
sp Q63269	Inositol 1,4,	15	24	0.332375	0.0090268	0.6335772	0.0442875
tr F1M1V0	Uncharacte	20	47	0.2719872	0.0328141	0.5105969	0.0443375

sp O35112	CD166 antigen	5	6	0.2736738	0.0317512	0.5136366	0.04435
sp P07323	Gamma-enkephalin	16	52	0.1782911	0.0492407	0.3025717	0.044775
tr O35370	Thrombospondin type 1	1	3	-0.303579	-0.580504	-0.024263	0.0447875
tr F1LX07	Uncharacterized protein	3	4	0.4544203	-0.010017	0.9501721	0.044825
sp Q6AYC4	Macrophage chitinase	12	39	0.3888785	0.0032178	0.7556175	0.0449875
tr Q569A0	LOC681849	4	8	0.2214421	0.035313	0.4189931	0.0454125
tr D3ZNZ1	Uncharacterized protein	2	4	0.2275995	0.0450299	0.4247079	0.0455375
tr D4AEH9	Amylo-1, 6-galactosaminidase	17	21	0.4201988	0.0026187	0.8378831	0.0457625
tr D3ZZU0	Actin related protein	5	7	-0.187375	-0.328384	-0.049945	0.0457625
tr D3ZC10	Uncharacterized protein	4	6	0.2397464	0.0338237	0.4616773	0.04585
sp P85125	Polymerase delta	15	32	-0.147983	-0.24178	-0.053947	0.04625
sp P62703	40S ribosomal protein	10	21	-0.178357	-0.309557	-0.050147	0.0463375
tr Q4QRB8	Asl protein	1	2	-0.272254	-0.5196	-0.029029	0.04635
sp Q9JIH7	Serine/threonine kinase	3	3	0.4796745	-0.023789	0.9697072	0.0469625
tr D3ZU77	Uncharacterized protein	4	15	0.29583	0.0269911	0.573738	0.04735
tr Q5XI38	Lymphocyte protein	12	26	-0.17989	-0.308452	-0.044275	0.0480375
sp P21531	60S ribosomal protein	9	20	-0.185875	-0.331248	-0.046906	0.0483125
sp Q9QX69	LanC-like protein	4	8	0.1600882	0.052622	0.2717751	0.048525
sp P32551	Cytochrome b5	10	23	0.2433148	0.0326111	0.4532842	0.0486375
tr D4ACN7	Uncharacterized protein	7	7	-0.322238	-0.620432	-0.016351	0.048925
sp P19234	NADH dehydrogenase	4	9	0.2319267	0.0318416	0.4367302	0.049025
tr D3ZN61	Leucine-rich repeat	4	6	0.2953021	0.0221173	0.5808406	0.049025
tr D3ZF13	Acyl carrier protein	2	2	0.4820778	-0.056828	1.1025523	0.0494125
sp P41498	Low molecular weight	4	8	0.2489958	0.0281799	0.4646275	0.0496
tr D3ZY11	Uncharacterized protein	6	11	0.1822504	0.045289	0.3181968	0.04965
sp P31399	ATP synthase	7	12	0.3140156	0.0215341	0.6172926	0.0496875
tr F1LNF0	Uncharacterized protein	37	60	0.2292033	0.0386082	0.4276281	0.0497125
tr Q6IMY8	Heterogeneous nuclear	11	19	-0.182401	-0.320957	-0.045317	0.0500375
sp P82471	Guanine nucleotide	6	13	0.214434	0.0386381	0.3986044	0.0500875
sp P19939	Apolipoprotein	2	3	-0.356721	-0.718908	0.0017145	0.050175
sp P05696	Protein kinase	13	16	0.2205749	0.037595	0.407152	0.0502625
sp Q8VIJ5	Bifunctional protein	5	9	0.1826928	0.046874	0.3202942	0.050275
tr Q6P9V7	Proteasome	12	19	-0.213436	-0.391084	-0.037333	0.0504875
tr D3ZE88	Uncharacterized protein	10	19	0.4450126	-0.021088	0.9000522	0.0505375
tr D4A3B0	Uncharacterized protein	31	55	-0.127746	-0.199101	-0.05615	0.05075
sp P97700	Mitochondrial	4	8	0.2916599	0.0204402	0.5684544	0.050975
sp P37377	Alpha-synuclein	8	14	0.2741083	0.0195423	0.5233477	0.051625
tr D3ZH41	Uncharacterized protein	5	6	-0.248339	-0.457638	-0.032583	0.05165
tr D4A4D5	Uncharacterized protein	5	11	-0.220873	-0.406806	-0.03512	0.05195
sp P31044	Phosphatidylcholine	9	24	0.1821057	0.0429218	0.3244822	0.05205
tr D3ZP91	Uncharacterized protein	2	2	-0.436683	-0.901927	0.0186517	0.052125
sp Q9EPF2	Cell surface protein	10	17	-0.158647	-0.273021	-0.048835	0.052325
tr D4ACR0	Uncharacterized protein	9	13	-0.224959	-0.420537	-0.038119	0.052375
tr F1LRL9	Uncharacterized protein	56	100	0.264359	0.0237412	0.5047546	0.0524
tr F1LLW3	Uncharacterized protein	2	2	-0.423205	-0.858915	0.0285867	0.05255
tr D3ZS41	Uncharacterized protein	2	3	-0.346431	-0.685357	-0.005415	0.052675
tr F1LUD3	Uncharacterized protein	9	12	0.2128158	0.0342469	0.3875287	0.0527625
sp P08932	T-kininogen	5	8	0.3107695	0.0021882	0.6248517	0.052825
sp Q6P734	Plasma protein	11	18	-0.260275	-0.489743	-0.01865	0.0528375
sp P19527	Neurofilament	32	100	0.4585544	-0.030989	0.9354324	0.05315

tr D3ZFQ8	Cytochrome	3	4	0.2747655	0.0220831	0.5295821	0.0536625
tr D4ACG7	Uncharacte	12	25	0.3282128	-0.000303	0.6483763	0.05405
tr D3ZWX0	Uncharacte	18	28	-0.212518	-0.389393	-0.028881	0.0543
tr F1M7V6	Uncharacte	11	34	0.2695485	0.0228138	0.5255521	0.0544125
sp P18163	Long-chain-	13	20	-0.639303	-1.359076	0.0808117	0.0545125
tr Q642E2	RCG22700,	3	5	-0.199656	-0.358039	-0.035213	0.054675
sp Q8K4D8	Aldehyde de	1	2	-0.425178	-0.888062	0.0191431	0.0552125
tr D3ZKL0	Uncharacte	4	4	0.3584891	-0.039367	0.7608752	0.0553875
tr D3ZR01	Uncharacte	3	5	-0.360158	-0.713875	0.0211709	0.0557625
sp P19945	60S acidic ri	9	19	-0.208844	-0.385756	-0.031734	0.0558125
tr F1MAC0	Uncharacte	4	4	-0.34022	-0.675858	0.0154432	0.0561125
tr B2RZ72	Actin relate	5	10	-0.157904	-0.268562	-0.046079	0.0565625
sp B0BNN3	Carbonic an	4	8	-0.374798	-0.767031	0.0123968	0.0565875
sp P62747	Rho-related	2	4	0.2098095	0.0295122	0.3924089	0.0566625
sp Q63198	Contactin-1	4	4	0.35287	-0.00374	0.7323911	0.0568625
tr D3ZU33	Uncharacte	5	9	-0.271267	-0.535281	-0.011867	0.0571125
tr D4A7U8	Similar to m	1	3	1.0878826	-0.209119	2.4085748	0.0571875
sp Q68FY0	Cytochrome	10	15	0.2280326	0.0192564	0.4261601	0.0572375
sp Q6V7V2	Rhotekin O	9	13	0.2504646	0.0166222	0.469536	0.0573125
sp Q5XIF6	Tubulin alfa	4	13	0.4265843	-0.03586	0.8862212	0.057675
sp P02688	Myelin basi	16	100	0.4450807	-0.041485	0.9333464	0.0576875
sp Q7M0E3	Destrin OS=	13	24	-0.217365	-0.400956	-0.029137	0.0577
sp Q5XIP9	Transmemb	5	6	-0.294625	-0.563757	0.0020025	0.05805
sp P23457	3-alpha-hyd	5	8	-0.407898	-0.844305	0.0351557	0.0585
tr Q52KS1	6-phosphof	24	42	0.3152585	-0.003968	0.6357272	0.058775
sp P22062	Protein-L-is	9	25	0.1542393	0.046838	0.2645987	0.0588625
tr D3ZRF5	RCG47744,	1	2	0.3480852	-0.008072	0.7081418	0.0589125
tr F1LM84	Uncharacte	29	68	0.246733	0.017282	0.4725272	0.058925
tr D4AAC4	Uncharacte	1	2	0.4184069	-0.03445	0.8937491	0.059225
sp P02091	Hemoglobir	3	29	-0.336808	-0.693743	0.0003745	0.0592375
sp P04466	Myosin regu	10	25	1.2649101	-0.337477	2.7634234	0.059275
sp P47728	Calretinin O	8	11	0.1947722	0.0305616	0.3640159	0.0594
sp P05982	NAD(P)H de	4	11	0.2364233	0.0220418	0.4501877	0.0597375
sp P02600	Myosin ligh	12	44	1.1978136	-0.268079	2.6410139	0.0598375
tr D4A4P4	Uncharacte	2	3	0.4409258	-0.034136	0.9506784	0.0599
tr D3ZZV4	Uncharacte	17	26	0.2030366	0.0307325	0.3754617	0.0599375
tr F1LN42	Uncharacte	17	19	-0.141571	-0.239226	-0.045528	0.060125
sp Q9ESN0	Protein Nib	2	11	-0.266741	-0.523526	-0.012378	0.0602625
sp P08461	Dihydrolipo	16	29	0.2214515	0.0222183	0.4139818	0.0603125
tr B5DEL9	RCG62292,	8	16	-0.216153	-0.404229	-0.026941	0.0604625
sp P23565	Alpha-inter	18	28	0.2842058	0.0069124	0.5665159	0.0605
sp P22791	Hydroxyme	2	2	0.6709269	-0.135546	1.4518886	0.0607375
tr A1A5L1	Bleomycin b	3	4	-0.180979	-0.327335	-0.031478	0.0612625
tr Q6AXW2	RCG25684,	8	11	-0.267001	-0.532484	-0.008266	0.0616375
sp Q3KRE0	ATPase fam	2	3	-0.252513	-0.490652	-0.013033	0.0617375
tr D4A8H3	Similar to R	3	6	0.2646573	0.0081198	0.5311573	0.0618125
tr F1LSX1	Uncharacte	2	2	0.2856063	-0.018791	0.5806456	0.0620375
sp P14604	Enoyl-CoA b	9	18	-0.152282	-0.266965	-0.042154	0.0628875
tr Q5PQK6	Nit1 proteir	3	6	-0.238728	-0.454082	-0.016839	0.063075
tr D3ZSY4	Eosinophil p	3	4	-0.553045	-1.228049	0.0761362	0.0638875



sp Q794E4  Heterogene	3	7	-0.215673	-0.413661	-0.021238	0.064025
sp P59649  FXYP domain	2	3	0.3904419	-0.041865	0.8248988	0.0642125
sp P01835  Ig kappa chain	8	32	-0.517881	-1.106718	0.0737703	0.064275
sp O08557  N(G),N(G)-dimethyl	16	40	0.2232241	0.0178167	0.4249185	0.0649125
tr F1LYV8 F Uncharacterized	2	3	-0.493451	-1.057416	0.0777551	0.0661
tr F1LRZ7 F Uncharacterized	33	100	0.3902631	-0.035294	0.8294382	0.066375
tr F1LQ76 F Uncharacterized	13	18	0.2928553	-0.007132	0.5977331	0.06645
sp P04762  Catalase OS	14	25	-0.239817	-0.474357	-0.011142	0.0672875
sp P62762  Visinin-like protein	8	17	0.2470013	-9.8E-05	0.4813365	0.06775
sp P01830  Thy-1 membrane	4	10	0.3151529	-0.020851	0.6499687	0.068025
sp P63100-2  Isoform 2 of	5	8	0.1886933	0.0289711	0.3459199	0.068175
tr B4F7B7 E Dual specificity	7	23	0.3142746	-0.017828	0.6508099	0.068425
tr F1LM41  Uncharacterized	7	18	-0.206053	-0.390859	-0.016467	0.068725
tr Q8R4I6 C Actinin alpha	25	41	0.9936179	-0.258547	2.2689	0.068775
tr F1M5J5 I Uncharacterized	6	11	1.3444315	-0.404384	3.0542999	0.0688125
tr F1LNF7 F Uncharacterized	11	14	0.1766121	0.0298277	0.3226644	0.0688625
sp P62138  Serine/threonine	1	3	-0.177777	-0.332523	-0.027709	0.0688875
tr D3ZD02 I 60S ribosomal	5	10	-0.228784	-0.444061	-0.006988	0.0697
sp Q4QQV8  Charged multimer	4	6	0.2628491	0.0035977	0.5222056	0.070525
sp Q9JMI1  Acetoacetyl	3	3	-0.387998	-0.860319	0.0880516	0.0706
sp P68136  Actin, alpha	3	6	0.8655725	-0.216005	1.9675938	0.071025
tr D4ACL2 I Similar to Fli	1	2	-0.35002	-0.740081	0.0332977	0.071275
tr F1LQH0 I Uncharacterized	18	31	0.1577615	0.0360933	0.2840337	0.0714625
tr D3ZAA1  Uncharacterized	1	2	-0.288206	-0.582992	0.0192537	0.071525
tr D3ZJH9 C Malic enzyme	5	7	-0.229404	-0.450619	-0.008451	0.071725
tr F1M7X5  Uncharacterized	8	13	-0.168749	-0.305999	-0.030912	0.0718
sp Q9EQX9  Ubiquitin-conjug	5	10	0.1761444	0.0336724	0.3215421	0.071925
sp P63259  Actin, cytoplasmic	8	81	-0.130432	-0.213393	-0.046599	0.0719625
sp Q9JHU0  Dihydropyrimidin	16	36	0.2026813	0.0149891	0.3850691	0.0723375
tr D3ZCG2  Uncharacterized	12	16	0.2315215	0.0056353	0.4516157	0.0725125
tr D3ZCR6 I Periostin, oste	18	31	-0.460748	-1.011647	0.0852862	0.0726375
sp Q2IBC5 I Caveolin-2 (c	2	5	-0.242794	-0.468777	-0.000857	0.0729875
tr F1MA59  Uncharacterized	4	4	0.4028683	-0.055846	0.8673787	0.0731625
tr D4A656 I Uncharacterized	1	2	0.3490086	-0.072379	0.7881977	0.0732125
tr F1LRP1 F Uncharacterized	4	6	0.7890121	-0.30605	1.9277318	0.0732375
sp P05942  Protein S100	7	18	0.2326336	0.0106266	0.4714832	0.0734
tr F1LUV9 F Uncharacterized	8	11	0.2317194	0.0028274	0.4637501	0.07345
tr B5DEZ8 I Plexin domain	2	2	0.3773021	-0.101803	0.8298142	0.073925
tr F1MAN8  Uncharacterized	6	6	0.3218764	-0.072972	0.7187355	0.0741
sp P08934  Kininogen-1	5	8	-0.32942	-0.695873	0.0464994	0.07445
tr F1LQS6 F Uncharacterized	1	3	-0.395868	-0.859432	0.0739871	0.0749625
sp P10719  ATP synthase	29	100	0.1885937	0.0163838	0.354291	0.0751875
tr D3ZCX0 I RCG55799, R	11	27	-0.138355	-0.237995	-0.04169	0.0754
tr D3ZG41  Uncharacterized	2	2	-0.336421	-0.751642	0.0924718	0.0754875
tr Q7TNZ9  CKLF-like motif	1	2	0.3982718	-0.07638	0.8640946	0.076075
tr C0KUC5 I LIM and serine	3	4	-0.187903	-0.353735	-0.018258	0.0761625
sp Q91Y81  Septin-2 OS	13	25	-0.125686	-0.204709	-0.048724	0.076675
tr D4ADL1  Uncharacterized	2	2	-0.49882	-1.161774	0.2041815	0.076725
sp P11730  Calcium/calmodulin	4	5	0.2232428	0.0091553	0.4365605	0.076975
sp Q62910-2  Isoform 4 of	23	38	0.1719591	0.0281152	0.3189228	0.0776625

sp P62815  V-type prot	14	26	0.1665475	0.0279618	0.3056109	0.077875
tr D3ZUL3 I Uncharacte	33	93	0.2185494	-0.001678	0.4313492	0.078325
tr Q5XIH1 C Asporin OS-	13	24	0.3055364	-0.042697	0.6414802	0.07855
sp Q9EPH2  MARCKS-re	3	8	0.2297744	-0.007508	0.4575695	0.0789125
sp P09117  Fructose-bi	12	27	0.1974705	0.0111281	0.3813949	0.0790375
tr F1LZ50 F Uncharacte	2	3	0.9191437	-0.312678	2.1791744	0.0794875
sp P12007  Isovaleryl-C	7	11	-0.184415	-0.347979	-0.017705	0.0795
sp P27867  Sorbitol def	11	23	0.1367253	0.0406725	0.2312162	0.0798375
tr D3ZI32 C Uncharacte	5	7	0.2123293	0.0031832	0.4178049	0.0799625
sp Q66H80  Coatomer s	8	10	-0.243181	-0.493481	0.0055372	0.0804
sp Q9Z0W5  Protein kin	7	8	0.20984	0.0041576	0.4074251	0.0805125
sp P11608  ATP syntha	2	4	0.2952881	-0.02599	0.6135332	0.081025
sp Q4KM35  Proteasome	2	2	-0.319635	-0.737178	0.0922985	0.0811
tr D4AAS8  Uncharacte	5	10	0.1913254	0.0157529	0.3713052	0.081475
tr D3ZIP8 C RCG31867 C	7	14	0.3494015	-0.064638	0.7536348	0.081725
tr D3ZSM1  Similar to p	27	66	0.1665805	0.0236299	0.3081677	0.0817875
sp Q920P6  Adenosine c	3	3	-0.467264	-1.145749	0.185475	0.081975
tr D3Z8T2 I Uncharacte	1	3	0.3080499	-0.051136	0.6630681	0.0822
tr B5DFC3 I SEC23A (S. c	5	7	-0.229631	-0.467771	0.0043677	0.0823375
tr Q5XIH3 C NADH dehy	6	10	0.1842281	0.0193156	0.3542656	0.0827
sp P04177  Tyrosine 3-r	6	10	0.23048	-0.001636	0.4767232	0.08285
sp P62856  40S ribosom	2	3	-0.209564	-0.416334	-0.00413	0.0835375
sp Q07969  Platelet gly	10	19	-0.401818	-0.902727	0.0922785	0.0839125
sp Q5XIE1 C UPF0670 pr	4	4	0.4665535	-0.127059	1.0639094	0.0841
tr D3ZVR9 I Uncharacte	4	5	-0.231297	-0.475955	0.0034145	0.0841375
tr F1M2K6  Uncharacte	1	2	0.3953026	-0.087364	0.8694135	0.084425
tr B5DF74 I Oxysterol-b	2	2	0.6343015	-0.230902	1.5316869	0.0852
sp P18445  60S ribosom	3	3	-0.278832	-0.593597	0.0400739	0.0855
sp Q9EPJ0  Nuclear ubi	2	3	-0.218742	-0.455331	0.0190012	0.0861
sp Q3B8Q2  Eukaryotic i	2	3	-0.367198	-0.866183	0.1304643	0.086275
sp Q6MG06  Guanine nu	2	3	-0.415918	-0.956457	0.0913632	0.0863625
tr Q66HM2  Adaptor-rel	16	29	-0.118871	-0.192	-0.048098	0.08665
tr D3ZCF8 I Uncharacte	5	9	0.3417643	-0.071408	0.7648068	0.0877375
sp P06866-2  Isoform 2 o	11	18	-0.454523	-1.037334	0.1194255	0.088025
tr D3ZPF3 I Capping pr	7	9	-0.17397	-0.336165	-0.010976	0.0881
sp P35434  ATP syntha	2	4	0.2080271	-0.011024	0.4136608	0.0884
sp Q68FR6  Elongation f	12	25	-0.141824	-0.248951	-0.0313	0.0884
sp P29975  Aquaporin-	2	4	-0.440195	-1.051024	0.196846	0.0886875
tr D4A2C6  LSM4 homoc	1	2	-0.281516	-0.617359	0.0347736	0.0889
sp Q4QQW  Putative ph	3	3	-0.278271	-0.58235	0.0469122	0.089
tr E9PSK7 E Uncharacte	2	2	0.4349956	-0.168812	1.0524519	0.0890125
sp B2GUZ5  F-actin-cap	1	2	-0.214347	-0.427612	0.0056978	0.0891875
sp O88794  Pyridoxine-	1	3	0.1971345	0.010264	0.3990265	0.090025
tr F1M396  Uncharacte	2	3	-0.368407	-0.908779	0.1422746	0.0912125
tr B2RZD6 I Ndufa4 pro	2	4	0.2498345	-0.030583	0.5273195	0.0915125
sp Q71UF4  Histone-bin	2	2	-0.331655	-0.787551	0.1144149	0.0920125
sp Q6PST4  Atlastin-1 O	3	3	0.3784124	-0.103312	0.8645298	0.092125
sp P68370  Tubulin alfa	10	60	0.3226649	-0.07037	0.7082876	0.0921875
tr Q6PCU0  ATP syntha	10	18	0.1799477	0.0101567	0.3504682	0.0927875
sp Q9Z1H9  Protein kin	8	13	-0.158624	-0.301584	-0.025668	0.093175

tr D4A9P7	RCG40058 (	1	2	0.3135396	-0.059989	0.661829	0.0933
sp Q2TA68	Dynamamin-lik	9	16	0.1541633	0.0278752	0.2833222	0.0936375
tr F1M1B3	Uncharacte	2	2	-0.350072	-0.793018	0.0762928	0.094525
sp P70470	Acyl-proteir	2	2	-0.282394	-0.652074	0.0786205	0.094725
sp Q9JMB5	Proteasoma	1	2	0.4087428	-0.186347	1.0724621	0.09515
sp P60868	40S riboson	4	4	-0.222434	-0.49507	0.0466404	0.095225
sp P13832	Myosin regu	2	4	-0.250787	-0.566103	0.0626534	0.0952875
sp Q5M9I5	Cytochrome	1	2	0.3581619	-0.111382	0.8059399	0.0954875
sp Q921A4	Cytoglobin (	3	4	-0.324586	-0.73403	0.0869216	0.0963625
tr D3ZNY5	Uncharacte	1	2	-0.254975	-0.575072	0.0601651	0.0966
tr D3ZJF2	Uncharacte	4	8	0.2814778	-0.042355	0.6119617	0.09665
sp P0C548	Patatin-like	1	3	-0.204984	-0.415371	0.0138407	0.0966625
sp Q10758	Keratin, typ	1	2	0.3334748	-0.078935	0.7497381	0.0970375
tr F1LNF1	Uncharacte	7	13	-0.161986	-0.308407	-0.017581	0.0970875
tr Q6P736	Polypyrimid	2	6	-0.262592	-0.572938	0.0367686	0.0975625
tr F1LMB8	Uncharacte	2	2	0.3558546	-0.108105	0.8155565	0.097675
tr F1LQ81	Uncharacte	27	50	0.1803547	0.004121	0.3539327	0.0979
sp Q66HA6	ADP-ribosyl	2	3	0.1947908	-0.001545	0.3990646	0.0979
tr E9PSZ3	Uncharacte	4	13	0.218772	-0.01369	0.4693554	0.0987375
sp Q6AYG5	Enoyl-CoA f	4	5	-0.282124	-0.624792	0.0781432	0.0989
sp P59215	Guanine nu	8	14	0.2354721	-0.032663	0.4985238	0.09895
tr F1M4T3	Uncharacte	2	2	-0.32495	-0.787197	0.0789655	0.0993125
sp P63322	Ras-related	9	15	0.2095109	-0.014975	0.4335382	0.0997
sp Q9ROT4	Cadherin-1	7	10	0.2241218	-0.02653	0.4654125	0.1000625
sp Q5M936	Torsin-3A O	2	2	-0.283447	-0.621337	0.0700946	0.1000625
sp P62755	40S riboson	6	10	-0.167992	-0.330313	-0.015976	0.1004375
sp P85971	6-phosphog	4	7	-0.178199	-0.341898	-0.000883	0.1006625
tr D4AB41	Uncharacte	1	3	-0.317184	-0.705816	0.0797835	0.1008125
sp P04638	Apolipoprot	4	6	-0.326823	-0.74912	0.0832705	0.1013
tr Q5U2U8	Bcl2-associ	7	10	0.1690324	0.0046564	0.327491	0.1021
tr D4A777	Uncharacte	2	4	-0.241064	-0.514107	0.0334932	0.1026
tr D3ZN64	Uncharacte	13	23	0.1910828	-0.00365	0.3849844	0.1028375
tr Q7TP58	Phosphogly	1	2	-0.367126	-0.858613	0.126081	0.1028625
sp Q6AYS8	Estradiol 17	8	9	0.2022464	-0.015431	0.4174129	0.1031875
sp P13264	Glutaminas	6	7	0.1968905	-0.013477	0.4026158	0.1031875
sp P48500	Triosephos	16	64	0.2233517	-0.034678	0.4718639	0.1034125
tr D4ABT8	Uncharacte	5	9	-0.247139	-0.537802	0.0429309	0.1043
tr Q7TP54	Ab2-162 OS	5	10	0.2030546	-0.016839	0.41397	0.10435
sp P05065	Fructose-bi	20	62	0.3170749	-0.089115	0.7204119	0.1047875
sp B2RZ78	Vacuolar pr	8	15	-0.127201	-0.218791	-0.036664	0.1049125
tr F1LMU0	Uncharacte	38	100	1.091932	-0.60117	2.7847982	0.105125
sp P47942	Dihydropyri	23	66	0.1569013	0.0178069	0.3014259	0.105275
sp P11497-	Isoform 2 o	6	6	-0.248033	-0.536023	0.0489461	0.1056125
tr Q6P9V1	Cd81 protei	5	17	0.3538278	-0.105202	0.8288441	0.1057125
sp P14668	Annexin A5	23	75	-0.123952	-0.214507	-0.036066	0.1058625
sp Q9Z1X1	Extended sy	15	24	-0.139822	-0.255573	-0.027474	0.105875
tr Q6QI48	LRRGT0016	7	13	-0.216802	-0.457484	0.0285296	0.106075
sp Q6P6V0	Glucose-6-p	21	46	0.179035	0.0019678	0.3634817	0.1062625
sp P12369	cAMP-depe	2	2	-0.66296	-1.840122	0.4745382	0.1064625
sp P02688-	Isoform 3 o	2	8	0.3828991	-0.148474	0.9097776	0.1066375

tr D4A929	Putative un	2	3	0.3044255	-0.076391	0.6898237	0.1073125
sp O09175	Aminopepti	5	7	-0.317917	-0.79081	0.132974	0.107525
sp Q9ER34	Aconitate h	27	47	0.1539843	0.0132987	0.2954842	0.1076125
sp P67779	Prohibitin C	9	13	0.1409262	0.0230385	0.2602499	0.1078
sp P13084	Nucleophos	3	4	-0.187268	-0.382392	0.009483	0.1080875
sp P19944	60S acidic ri	2	5	-0.246433	-0.568787	0.0705427	0.10815
tr F1LNH3 I	Uncharacte	23	51	0.2023601	-0.016512	0.4258296	0.1083625
tr F1M7Y0	Uncharacte	2	2	0.4924117	-0.277317	1.2704626	0.1086375
sp P48679	Prelamin-A/	7	17	-0.200297	-0.420684	0.0156977	0.10875
tr Q6AYI1 C	DEAD (Asp-)	5	7	-0.18109	-0.372777	0.0047783	0.109025
sp Q6PCU2	V-type prot	7	14	0.1386795	0.0272845	0.2540676	0.1094875
sp P09812	Glycogen pl	25	51	0.7166827	-0.370307	1.7927693	0.109725
tr F1LZF4 F	Uncharacte	21	38	0.2519704	-0.059178	0.5508166	0.109975
tr D4A6A3	Uncharacte	4	4	0.2756125	-0.063732	0.624994	0.1101125
tr F1M8F2	Uncharacte	7	13	0.2145489	-0.027311	0.462351	0.11045
sp P25886	60S ribosom	3	7	-0.203252	-0.427922	0.0224524	0.1109875
tr D3ZJJ2 D	Uncharacte	2	2	-0.388454	-0.974682	0.2117516	0.1110875
tr F1M3Q9	Uncharacte	2	2	-0.509569	-1.311818	0.2673308	0.111325
tr D4AE32 I	Uncharacte	2	6	-0.323207	-0.752196	0.1378311	0.1116125
tr F1LWW1	Uncharacte	2	4	-0.323911	-0.76927	0.1123685	0.111975
sp Q08290	Calponin-1	2	2	-0.924697	-2.677508	0.7860933	0.1120375
tr F1LP72 F	Uncharacte	6	9	-0.1225	-0.20877	-0.034289	0.1121875
tr F1LPV0 F	Uncharacte	12	18	0.1784866	-0.009694	0.3580571	0.1124875
tr D3Z955 I	RCG40012,	8	11	0.2470292	-0.056142	0.5492204	0.11255
tr B6DYP8 I	Glutathione	9	21	-0.174352	-0.351033	0.0063481	0.11295
tr D4ADA2	Uncharacte	4	12	-0.276836	-0.636141	0.072526	0.113325
tr D3Z982 I	Uncharacte	3	7	-0.170246	-0.33816	0.0048616	0.1137625
tr F1M7S9	Uncharacte	70	91	0.6939369	-0.372217	1.7515136	0.1139625
sp Q64578	Sarcoplasm	26	53	0.923883	-0.529662	2.4255292	0.114
tr B1H216 I	Hemoglobir	13	100	-0.252788	-0.563228	0.0605603	0.11425
sp P06907	Myelin prot	15	100	0.5270774	-0.3232	1.3768845	0.11475
tr D3ZAP5 I	Uncharacte	5	7	0.1972616	-0.021672	0.4147468	0.1148125
sp P11762	Galectin-1 C	10	69	0.1437489	0.016659	0.2695178	0.1148875
sp P10760	Adenosylho	14	39	-0.153762	-0.300421	-0.00926	0.1150125
tr D3ZH18 C	Uncharacte	4	4	0.2820513	-0.084686	0.6275882	0.115225
sp P36972	Adenine ph	9	18	-0.150211	-0.287703	-0.012478	0.1153875
tr F1LRG1 F	Uncharacte	5	6	-0.174022	-0.35552	0.0102269	0.11565
sp P50475	Alanyl-tRNA	22	29	0.1290089	0.0266674	0.2329347	0.117225
tr Q0R3X4 I	GIMAP4 OS	2	2	-0.509364	-1.406251	0.4226284	0.1175
sp Q920P0	L-xylulose ri	3	3	-0.184428	-0.387121	0.0122723	0.118525
sp B1H267	Sorting nexi	3	5	-0.20862	-0.455692	0.037799	0.1188625
tr D3ZYD7 I	Uncharacte	4	4	-0.196852	-0.410444	0.0185064	0.1191
tr D3ZK56 I	Uncharacte	2	4	0.2125226	-0.034445	0.4627422	0.11915
tr F1LNY0 F	Uncharacte	9	20	-0.165077	-0.328802	0.0057091	0.1194
sp P27139	Carbonic an	8	17	-0.195632	-0.415249	0.0273607	0.1205
sp P04692	Tropomyosi	8	19	0.8709296	-0.576541	2.2454089	0.1210375
sp P13471	40S ribosom	3	6	-0.187204	-0.403499	0.019912	0.1213125
sp Q6PEC4	S-phase kin	9	20	0.1521799	0.0073569	0.3018561	0.12165
sp Q80W57	ATP-binding	2	2	0.4143224	-0.249062	1.0660485	0.1217125
sp Q642A6	von Willebr	8	16	0.1862265	-0.021419	0.3962892	0.121725

sp P63012	Ras-related	2	2	0.3149949	-0.131488	0.7870023	0.1222875
sp P52303	AP-1 compl	8	9	-0.137464	-0.257252	-0.021572	0.122325
sp Q9WU06	Advillin OS=	16	23	0.1770921	-0.015543	0.3683995	0.1223875
sp O35760	Isopentenyl	2	5	-0.210754	-0.454554	0.0459164	0.1232125
tr D3ZDU5	Profilin OS=	6	10	0.1652986	-0.003959	0.3368243	0.123425
sp P23593	Apolipoprot	3	4	-0.296622	-0.703168	0.1098846	0.123775
sp P18420	Proteasome	7	18	-0.138357	-0.260713	-0.018126	0.123825
tr F1M883	Uncharacte	7	14	-0.242553	-0.548526	0.069518	0.1239
sp P32038	Complemer	2	7	-0.198488	-0.433179	0.0358679	0.1242625
tr D3ZHC4	Heme bindi	5	7	0.1667269	-0.005029	0.3359071	0.124375
sp P12001	60S ribosom	4	5	-0.203272	-0.434009	0.0413234	0.124375
tr D3ZG61	RCG61079,	3	8	0.3314501	-0.139869	0.7780794	0.1245625
tr D3ZZ21	NADH dehy	1	2	0.2728574	-0.11477	0.6575104	0.1247125
tr D4A6T3	Uncharacte	3	4	0.242011	-0.060014	0.5437261	0.124875
tr D4ADB1	Uncharacte	7	7	0.7742514	-0.550731	2.139792	0.1263
tr D3ZZR3	Uncharacte	1	2	-0.26666	-0.61126	0.098264	0.1263875
tr D3ZQ98	Uncharacte	5	9	0.1823706	-0.026986	0.3830181	0.1264
sp A2RRU1	Glycogen [s	3	4	0.2962361	-0.128558	0.7060793	0.127475
tr F1LT36	Uncharacte	2	4	-0.241028	-0.54827	0.0702049	0.1275
sp Q1WIM2	Cell adhesic	2	4	0.2715202	-0.103953	0.6222868	0.1279125
sp Q6AYT7	Monoacylgl	1	2	0.3846654	-0.193748	0.9661329	0.1279625
sp P60203	Myelin prot	10	19	0.3142321	-0.140598	0.7557417	0.1286125
tr D3ZQG6	Tripartite m	3	7	-0.293792	-0.602366	0.0912311	0.1291375
tr Q4QQS7	Uncharacte	4	4	-0.267273	-0.624566	0.1073923	0.13015
tr Q6PCT9	Proteasome	3	4	-0.181226	-0.383123	0.0202262	0.1307
sp Q5FVQ9	Tubulin-spe	2	2	-0.298134	-0.721804	0.1307279	0.1309875
sp Q6AY30	Probable sa	8	15	0.2479062	-0.086146	0.5769896	0.1319125
sp Q32Q06	AP-1 compl	2	3	-0.318697	-0.790393	0.14346	0.1319375
sp Q63228	Glia matura	6	7	-0.170757	-0.355443	0.0174551	0.1322625
sp Q3B7U9	Peptidyl-pr	3	3	-0.211048	-0.484217	0.0642197	0.1333625
sp Q63083	Nucleobind	3	5	-0.220842	-0.510137	0.0535113	0.1335375
tr D3ZXY2	PDZ domair	3	3	0.3802436	-0.243097	0.9939568	0.13355
sp P61751	ADP-ribosyl	3	4	-0.17251	-0.365779	0.0186694	0.13375
tr F1LSR9	Uncharacte	2	2	-0.41048	-1.042438	0.2369098	0.1339125
tr Q566E4	Heterogene	4	6	-0.23741	-0.554909	0.077581	0.134175
tr B2GV03	Phosphoryl	22	47	0.1689706	-0.016669	0.3560893	0.1342375
tr F1MAA0	Uncharacte	3	3	0.8047352	-0.664405	2.302826	0.1342625
tr Q5XIJ3	Isocitrate de	5	7	0.1766115	-0.026267	0.3825711	0.134275
tr Q5RK08	Glioblastom	3	3	0.1693148	-0.014577	0.3540264	0.1344
tr D3ZYF9	Uncharacte	2	2	-0.357077	-0.998353	0.2592346	0.1344625
sp Q3ZAV8	Enhancer of	3	3	0.2948005	-0.127661	0.6934834	0.13455
sp Q6P9T8	Tubulin bet	2	13	0.2649138	-0.111194	0.6409472	0.134775
tr D4AC20	Cytidine de	2	5	0.2715273	-0.101295	0.6466559	0.135
sp P97846	Contactin-a	5	6	0.2655496	-0.097966	0.6474974	0.13515
tr D3ZSH6	Uncharacte	7	11	-0.202013	-0.451015	0.0462857	0.13565
tr B5DES0	RCG54604 (	2	2	-0.214372	-0.531245	0.0954702	0.1357375
sp B0BNA7	Eukaryotic t	1	2	-0.204135	-0.462064	0.050825	0.136425
tr D3ZT75	Uncharacte	3	4	0.2592992	-0.110759	0.6171159	0.1378
tr F1M1E6	Uncharacte	8	14	0.1422959	0.0088799	0.287398	0.138425
sp P49242	40S ribosom	7	9	-0.171017	-0.368115	0.0199192	0.1386625

tr D4AE96 I Importin 7 (	4	6	-0.209732	-0.473365	0.0496438	0.1390125
tr D3ZR68 I Uncharacte	2	2	0.4200402	-0.234837	1.1222606	0.1393875
sp P09739-2 Isoform 2 of	6	14	0.8478975	-0.645263	2.3642595	0.139825
tr F1LM47 I Uncharacte	14	20	0.1241798	0.0167708	0.2257276	0.1406875
sp P62271 I 40S ribosom	6	9	-0.200919	-0.440556	0.0601276	0.141
tr D3ZBW0 I Uncharacte	11	17	0.1383501	0.0094137	0.2727625	0.1411
sp Q63151 I Long-chain-	2	4	0.2377451	-0.0834	0.5626663	0.142425
tr D3ZDL9 I Uncharacte	1	2	0.1955399	-0.056218	0.445431	0.143225
sp P62912 I 60S ribosom	3	5	-0.197946	-0.452703	0.0777878	0.1432875
tr D3ZKH2 I Uncharacte	2	3	0.1984928	-0.038638	0.4659224	0.1437
tr B5DEN4 I L-lactate de	22	65	0.2294567	-0.08592	0.5429169	0.143725
sp Q63425 I Periaxin OS-	7	18	0.6907822	-0.545203	1.912137	0.1451875
sp P18645 I UDP-glucosyl	2	2	-0.26518	-0.694901	0.1625747	0.1453625
tr B4F789 E Apolipoprote	1	2	0.9575467	-0.863942	2.7346664	0.1456875
tr Q6MGA6 I Proteasome	2	2	-0.358296	-1.016613	0.2777947	0.146125
tr Q66H09 I Tetraatricope	3	5	0.2223365	-0.082218	0.527746	0.14635
sp Q62952 I Dihydropyri	15	33	0.1629441	-0.024951	0.3422425	0.14655
sp Q5RK11 I Eukaryotic i	3	6	-0.140064	-0.280349	0.0002345	0.146775
sp Q5EB81 I NADH-cytochrome	2	4	0.2752047	-0.142662	0.6768062	0.14705
tr D4A7Q0 I Uncharacte	1	2	-0.251543	-0.611073	0.1076462	0.1475125
sp Q8VII6 C Choline tran	9	16	0.196572	-0.060875	0.4532583	0.1478125
tr Q5D023 I Dync1li2 prot	3	3	0.2189511	-0.127106	0.5864698	0.1478125
tr F1LQ82 F Uncharacte	5	10	-0.142274	-0.286938	0.0055966	0.1480875
sp P09650 I Mast cell pr	15	62	-0.23054	-0.548933	0.0885682	0.1482625
tr D3ZHU9 I Uncharacte	1	3	-0.208953	-0.498414	0.0653883	0.148725
sp Q5RKH0 I Putative oxi	1	2	-0.235196	-0.573218	0.0890795	0.148925
tr F1LVL4 F Uncharacte	2	5	-0.283991	-0.725615	0.151986	0.149025
tr D3ZSL2 C RCG57402,	2	2	-0.23904	-0.58023	0.1340293	0.1495875
tr A0JN30 A Canopy 2 h	4	4	-0.210784	-0.493571	0.0701779	0.1499
tr D4A9J5 C Uncharacte	3	3	-0.301028	-0.77185	0.16526	0.1499875
sp Q5PQN0 I Neurocalcin	2	3	0.1803763	-0.049916	0.3941044	0.150525
tr F1LW91 I Uncharacte	6	7	-0.160588	-0.339642	0.0182333	0.150625
tr F1LPH5 F Uncharacte	2	3	0.3517329	-0.184949	0.9227474	0.1507375
sp P62804 I Histone H4	13	52	-0.138694	-0.28313	-0.001677	0.1509375
tr F1M392 I Uncharacte	7	8	0.1436761	0.0026451	0.2881789	0.1512375
tr F1M775 I Uncharacte	4	7	-0.225057	-0.542411	0.0913688	0.1512625
tr E9PU73 I Uncharacte	8	22	-0.151794	-0.318094	0.0151346	0.151375
sp Q62862 I Dual specifi	1	3	-0.470469	-1.266613	0.3539675	0.1518875
sp Q01205 I Dihydrolipo	9	18	0.1485836	-0.01243	0.3056354	0.1520625
tr F1LZF2 F Uncharacte	3	3	0.337173	-0.251594	0.95869	0.1521125
sp Q9EPH8 I Polyadenyla	8	13	-0.128926	-0.248552	-0.012688	0.152275
sp P62268 I 40S ribosom	2	3	-0.19347	-0.446969	0.0441705	0.152475
tr F1MAA5 I Uncharacte	4	5	-0.226373	-0.543885	0.0894712	0.1529625
sp P20767 I Ig lambda-2	5	12	-0.24882	-0.607913	0.1209559	0.153175
sp Q8R4C0 I Calpain-5 O	1	2	0.3306904	-0.202876	0.8636169	0.153275
tr Q3KRE3 I Guanine nu	2	8	-0.154133	-0.320052	0.0140817	0.1533875
sp P35559 I Insulin-degr	1	2	-0.326043	-0.849509	0.1965951	0.1535125
tr F1LWG8 I Uncharacte	4	7	1.0866228	-1.001618	3.3691071	0.1538375
sp Q75Q39 I Mitochondr	2	2	0.2313113	-0.08913	0.5584046	0.1539125
tr D4A1J6 C Uncharacte	4	7	-0.189298	-0.43065	0.05203	0.1539875

sp Q4QRB4 Tubulin bet	7	17	0.2819048	-0.152023	0.7204056	0.1549625
tr D4A9U5 Uncharacte	1	2	0.3356405	-0.299689	0.9574127	0.1552625
tr D4A7I1 C Uncharacte	2	3	0.2631856	-0.116319	0.6801229	0.1557
tr Q4K771 Nucleolar p	2	3	0.3187719	-0.207798	0.8358007	0.1557875
sp P15791 Calcium/cal	4	7	0.1747072	-0.035202	0.3835523	0.15615
tr D3ZE63 I Uncharacte	1	9	-0.145052	-0.302256	0.0111425	0.1565375
sp P15800 Laminin suk	47	100	0.1606456	-0.022271	0.3491442	0.1570125
tr F1LU71 F Uncharacte	6	13	0.1446837	-0.008037	0.2980404	0.1571875
sp P62329 Thymosin b	4	9	-0.150509	-0.313795	0.0198509	0.157475
tr F1LPT1 F Uncharacte	4	5	-0.203905	-0.477436	0.0781483	0.1575125
tr D3Z8E0 I Uncharacte	3	5	-0.222917	-0.541185	0.0904391	0.157975
tr F1M8B4 Uncharacte	2	2	-0.471147	-1.506664	0.5278465	0.1585
sp P62919 60S ribosom	7	12	-0.140531	-0.292167	0.0048547	0.15895
sp Q64244 ADP-ribosyl	1	3	-0.26205	-0.672167	0.1464382	0.1590125
tr F1M780 Uncharacte	12	15	0.212474	-0.092861	0.5076398	0.1592125
tr Q6AY18 SAR1 gene l	3	4	-0.18645	-0.425366	0.0642277	0.1592375
tr B1WBQ5 Serine/thre	2	2	-0.247451	-0.661856	0.1583389	0.159575
tr F1M1B0 Uncharacte	2	2	0.2442709	-0.138096	0.639685	0.15965
tr F1LQ00 F Uncharacte	2	2	0.2443872	-0.113826	0.6545501	0.15975
tr F1LNK0 F Microtubul	2	2	0.3544911	-0.327399	1.056537	0.1598875
sp Q68FU1 Pleckstrin h	2	2	0.2386714	-0.177627	0.6205018	0.16015
tr Q7TP57 Ab2-131 OS	3	4	-0.191144	-0.441134	0.0692409	0.160475
sp P61980 Heterogene	12	28	-0.137073	-0.280035	0.0077947	0.1608875
tr Q642E5 I Mevalonate	2	3	-0.203793	-0.478302	0.0721578	0.1616875
tr Q6UPE0 Choline deh	2	3	0.2212922	-0.091834	0.5487523	0.1618
tr D4A6X4 Acylphosph	2	2	0.2672967	-0.150959	0.7023151	0.162075
sp Q6P742 Proteolipid	1	3	-0.241519	-0.597581	0.1376176	0.1622625
tr F2Z3S2 F Uncharacte	6	8	-0.15034	-0.318842	0.0225625	0.1628125
tr B2RYN1 Fructosamin	4	8	-0.140353	-0.289893	0.0027883	0.1630625
tr Q5XI39 C Crystallin, z	1	2	-0.243435	-0.646151	0.185339	0.163125
sp Q64548 Reticulon-1	5	6	0.1914802	-0.059573	0.4830626	0.1632125
sp P50123 Glutamyl ar	1	2	0.2864541	-0.213126	0.7376825	0.1636125
tr Q7TQ85 Ac1164 OS=	4	6	0.1650312	-0.034231	0.3682468	0.1639375
tr D3Z9F8 I Uncharacte	20	33	-0.120895	-0.229951	-0.011667	0.164125
tr D3ZGP9 Uncharacte	3	3	0.4739354	-0.409678	1.4514682	0.1641875
tr D3ZL10 I Uncharacte	30	60	0.1352472	-0.003394	0.2754254	0.1650125
sp Q641Y2 NADH dehy	6	9	0.1884352	-0.054982	0.4401416	0.1651375
tr O89035 I Mitochondr	4	6	-0.157728	-0.343879	0.0369338	0.165375
tr D3ZPD4 I Uncharacte	1	2	-0.294874	-0.778472	0.1832584	0.1656
tr F1LRV9 F Uncharacte	24	51	0.7748127	-0.795514	2.3428981	0.165625
tr B1WC26 N-acetylne	6	9	-0.149647	-0.315884	0.0220314	0.1658125
tr D4A892 I Uncharacte	12	33	-0.132864	-0.268774	0.0024119	0.166125
tr F1LSW0 Uncharacte	12	22	-0.181063	-0.418207	0.0681456	0.16665
sp P06765 Platelet fact	1	2	0.3012781	-0.213927	0.794476	0.166775
sp P40112 Proteasome	2	2	-0.214882	-0.548256	0.1107315	0.1674875
sp B3DMA2 Acyl-CoA de	2	3	-0.33308	-0.914351	0.2185425	0.16765
tr D3ZD10 I Uncharacte	3	5	0.1844165	-0.068973	0.4389306	0.1676875
tr D3ZGP8 Uncharacte	12	24	0.1523105	-0.031849	0.328406	0.16875
sp P61212 ADP-ribosyl	3	5	-0.24186	-0.620753	0.1370114	0.169025
sp P62193 26S proteas	8	13	-0.128837	-0.253035	-0.004298	0.1700875

tr F1MA36	Uncharacte	5	8	0.2306421	-0.132393	0.5918792	0.1706375
tr Q6AZ35	Dync1i2 prc	2	4	-0.170151	-0.386753	0.0581239	0.171
tr D4A133	RCG52629 C	20	47	0.1286446	-0.000257	0.2597139	0.171575
tr D4ADU3	Uncharacte	2	4	-0.205076	-0.50118	0.0881998	0.17165
sp P24329	Thiosulfate	2	2	-0.197064	-0.483578	0.0862425	0.1721125
tr D4ADL4	Tax1 (Huma	2	6	0.1242719	0.0038863	0.2413293	0.172775
tr D4AC14	Uncharacte	1	2	-0.272443	-0.730038	0.163853	0.172875
sp P14841	Cystatin-C C	3	6	0.1823596	-0.061907	0.4372924	0.1731875
tr D3ZC07	Uncharacte	4	9	-0.203454	-0.499524	0.094881	0.1732625
sp P60669	Pleckstrin h	6	9	0.1673694	-0.048111	0.3840717	0.1733625
tr D3ZAS7	Uncharacte	2	3	-0.551929	-1.864273	0.6793492	0.173925
sp P23764	Glutathione	8	22	-0.301305	-0.819275	0.2202973	0.1739875
sp Q63610	Tropomyosi	3	5	-0.138665	-0.290064	0.0133675	0.1743
sp Q62651	Delta(3,5)-E	3	7	0.2394159	-0.151038	0.6074501	0.1746125
sp P85108	Tubulin bet	2	3	0.4886948	-0.423758	1.4344693	0.1748375
sp Q80Z29	Nicotinamic	4	4	-0.294763	-0.903697	0.2954017	0.1750625
sp P10499	Potassium v	2	2	0.3132015	-0.24351	1.0015611	0.1751625
sp P43138	DNA-(apurin	2	2	-0.289703	-0.829421	0.2721806	0.1752
tr D4ADD3	Similar to H	2	3	0.2479325	-0.140274	0.6526713	0.1754875
sp Q8CF97	Deubiquitin	1	2	-0.331268	-0.921146	0.2568067	0.176675
tr D4A8U7	Uncharacte	18	29	0.1078803	0.0220339	0.195331	0.17715
sp Q03344	ATPase inhi	3	5	0.1484611	-0.03323	0.3353007	0.1775
tr F1LT06	Uncharacte	1	2	0.2938101	-0.228497	0.7942984	0.1775625
sp Q99PF5	Far upstre	5	9	-0.16271	-0.377153	0.0516616	0.1789875
tr D3ZSZ2	Uncharacte	2	2	-0.24861	-0.700352	0.2191535	0.1790625
sp Q63450	Calcium/cal	3	4	0.1738835	-0.089207	0.4507294	0.1795875
tr D3ZP00	Uncharacte	2	5	0.2205252	-0.132071	0.5658038	0.1797125
sp B0BN93	26S proteas	3	3	-0.168285	-0.396919	0.056825	0.180375
sp Q8CG45	Aflatoxin B1	6	8	-0.144906	-0.318108	0.0292351	0.181025
sp P32089	Tricarboxyl	10	18	0.2126986	-0.1262	0.5412861	0.1815125
tr B2RYR8	40S ribosom	5	6	-0.162877	-0.376794	0.03648	0.1816625
sp P19633	Calsequestr	3	4	0.7220909	-0.866092	2.2486184	0.1824875
tr D4A1R8	RCG37481,	3	5	-0.253423	-0.689854	0.1908392	0.1830875
tr F1LR17	Histone H2A	7	14	-0.145846	-0.322393	0.0272997	0.1838875
tr D4ADE5	RCG49977,	3	4	-0.150494	-0.338015	0.0360252	0.184025
sp B5DFC8	Eukaryotic t	4	6	-0.152756	-0.349745	0.0323075	0.1843
sp Q6P7B0	Tryptophan	22	33	0.1137215	0.0066827	0.2180286	0.1855375
tr F1M7H9	Uncharacte	2	4	-0.199392	-0.50874	0.105341	0.1860125
tr F1LUW5	Uncharacte	2	2	0.307973	-0.25361	0.8697661	0.1860375
sp P47860	6-phosphof	25	43	0.1461886	-0.033138	0.3299878	0.1866375
sp Q9R1J4	Myocilin OS	3	3	0.206445	-0.140238	0.5587897	0.186875
sp P20294	Ciliary neur	5	10	0.1247245	-0.00436	0.2510103	0.187675
sp P12749	60S ribosom	5	6	-0.140895	-0.310326	0.0326577	0.1878125
tr E9PU13	Uncharacte	1	2	-0.312313	-0.880976	0.2516489	0.1881875
tr A1A5S1	PRP6 pre-m	5	5	-0.161056	-0.369645	0.0535121	0.1883125
tr D3ZGP5	RCG31562,	4	8	-0.13071	-0.27605	0.0101873	0.18915
tr F1MA17	Uncharacte	7	9	0.1462737	-0.030822	0.3251194	0.189475
sp P35745	Acylphosph	3	4	0.1376173	-0.046495	0.3165502	0.18965
sp O08815	STE20-like s	5	5	-0.195264	-0.528809	0.1313416	0.18975
sp Q9ESH6	Glutaredoxi	4	5	0.1484367	-0.072034	0.3527634	0.1897625



sp Q5PPN5  Tubulin pol	10	16	0.1726619	-0.076135	0.4283376	0.190275
sp B0BNE5  S-formylglu	2	4	0.2319245	-0.150736	0.6426198	0.1905875
sp P40307  Proteasome	3	4	-0.147611	-0.333841	0.0359455	0.190725
sp P02625  Parvalbumin	8	16	0.5362977	-0.567026	1.632246	0.1914
sp Q62771  Signal trans	2	2	-0.278195	-0.791239	0.2333153	0.191475
tr Q5M912  Mannosida	2	2	-0.255513	-0.75229	0.2375086	0.1919125
sp P16617  Phosphogly	26	73	0.1725556	-0.07533	0.4182808	0.1933875
sp Q5U2X6  Coiled-coil c	2	5	-0.158629	-0.368164	0.0553169	0.1943125
tr D4A249  Similar to m	1	2	0.1895915	-0.1219	0.4901735	0.19455
tr D3ZCV0  RCG30552 (	5	7	0.5480171	-0.626534	1.7306557	0.194925
tr F1LRE2 F Uncharacte	2	2	-0.326414	-1.012758	0.4159622	0.19505
tr F1LP83 F Uncharacte	2	3	1.0591109	-1.683136	3.9960858	0.1951875
tr D3ZE72 I Methionine	1	2	-0.150327	-0.347959	0.051776	0.1958375
tr F1LM60  Uncharacte	4	4	-0.206639	-0.611894	0.1939424	0.1962125
tr D4ADE1  Uncharacte	5	6	0.1679596	-0.076907	0.3978889	0.1963
sp Q5BK18  Cytosolic Fe	2	2	-0.329901	-1.064764	0.3527598	0.1965
sp Q6AXM8  Serum para	4	4	0.2276782	-0.161708	0.6115753	0.1970375
tr F1LPT0 F Gap junctio	2	2	0.3072487	-0.287396	0.9099193	0.1970375
sp A0MZ67  Shootin-1 O	2	2	-0.268357	-0.761386	0.2384725	0.1978375
sp Q6RUV5  Ras-related	8	21	0.1428129	-0.031846	0.3286048	0.1984375
sp O89046  Coronin-1B	2	4	-0.104688	-0.188684	-0.020691	0.1988
sp Q5PPL3  Sterol-4-alp	1	2	0.211412	-0.142077	0.576307	0.2003
sp P62845  40S ribosom	2	4	-0.18263	-0.466336	0.1077316	0.2013125
tr D4A962  Heterogene	2	5	-0.14637	-0.332374	0.0430677	0.201825
tr D3ZVS9 I RCG54895,	4	4	0.2231952	-0.183899	0.6338359	0.201875
tr F1M3D3  Uncharacte	13	15	-0.151734	-0.355786	0.0444043	0.2019125
sp P41562  Isocitrate de	15	30	-0.122597	-0.257588	0.0105097	0.2022625
tr F1LU52 F Uncharacte	24	34	0.1412204	-0.03825	0.3263137	0.2023375
tr D3ZXH5  RCG32827,	3	3	-0.188817	-0.495359	0.1035288	0.2032
sp Q7TPB1  T-complex p	14	24	0.1047543	0.0111677	0.1953298	0.2033375
sp P61227  Ras-related	1	2	-0.213684	-0.570605	0.1583732	0.203825
sp P43278  Histone H1.	9	30	0.1237403	-0.014982	0.2607785	0.20405
tr D3ZKC6 I Uncharacte	2	2	0.2006149	-0.239819	0.5955972	0.2044125
tr D3ZR87 I Uncharacte	2	2	0.270919	-0.289837	0.8483679	0.2049125
sp P07483  Fatty acid-b	2	6	0.2914191	-0.275821	0.85409	0.2050625
tr F1M7T8  Uncharacte	7	9	0.6642223	-1.116603	2.4512075	0.2051
sp Q9JI85 N Nucleobind	3	3	-0.244855	-0.717507	0.2162885	0.205825
tr Q5M9H7  DnaJ (Hsp40	5	7	0.134151	-0.03003	0.2945602	0.206
tr F1M566  Uncharacte	10	23	0.1242227	-0.014523	0.2629091	0.20635
sp Q6AYN4  Phytanoyl-C	4	7	0.1378941	-0.032512	0.3102865	0.2064
tr Q6QI86 C LRRG00122	1	2	-0.257803	-0.749001	0.2304662	0.2066375
sp Q6UPE1  Electron tra	4	6	0.1716503	-0.08389	0.4297933	0.2067125
tr F1LRE5 F Oxysterol-b	2	2	-0.27765	-0.872122	0.3047166	0.207475
tr E9PSU8 I Uncharacte	4	6	-0.250087	-0.708279	0.2079726	0.2075375
tr Q6P9U0  Serine (Or c	5	9	0.1596397	-0.081546	0.4027652	0.2084
tr D3ZMX6  Uncharacte	1	2	-0.172596	-0.438131	0.085593	0.2089625
sp P29419  ATP synthas	2	3	0.1907577	-0.127892	0.5078064	0.2091125
sp Q9QXU8  Cytoplasmic	4	7	0.1334489	-0.022731	0.2934618	0.2092875
sp Q9R1T1  Barrier-to-a	4	10	0.120284	-0.00973	0.245746	0.20935
tr F1M789  Uncharacte	1	3	0.5021564	-0.948657	1.8773054	0.210325

tr F1M8A5	Uncharacte	2	2	-0.297943	-0.923657	0.3290077	0.2105625
tr Q56R20	Karyopherin	2	3	-0.178053	-0.469385	0.0946659	0.2106125
tr D3ZD31	Uncharacte	3	3	-0.222379	-0.698804	0.2388538	0.2108125
tr E9PTK8 E	Uncharacte	4	5	-0.185751	-0.481943	0.1061037	0.2109625
tr F1M0U5	Uncharacte	2	2	0.2271279	-0.232004	0.6914982	0.2115375
tr F1MAL3	Uncharacte	13	19	0.115577	-0.001435	0.2327758	0.2117125
tr B0BNG3	Lman2 prot	2	3	-0.157775	-0.398511	0.0737922	0.21205
sp O70351	3-hydroxyac	6	17	-0.120993	-0.251711	0.0097249	0.2126625
tr E9PTJ6 E	Glycylpeptid	1	2	-0.250311	-0.73101	0.2318884	0.212775
sp Q4KMC4	Glucosamin	3	4	-0.29327	-0.893262	0.3035866	0.214175
sp P01041	Cystatin-B C	3	6	-0.163008	-0.412407	0.0895611	0.2141875
tr D4A003	Uncharacte	7	9	0.1323483	-0.026462	0.2935287	0.2142
sp Q5RJR2	Twinfilin-1 (	2	2	-0.13686	-0.334376	0.0609048	0.2148625
sp Q6AXS3	Protein DEK	2	2	0.3078968	-0.307659	0.9483593	0.2160875
tr F2Z3S4 F	Uncharacte	4	5	-0.195142	-0.534588	0.1683265	0.2164625
tr F1M9X1	Uncharacte	2	2	-0.502493	-1.480548	0.4358633	0.21695
tr B0BN81	Ribosomal p	8	11	-0.126055	-0.274324	0.0224412	0.2170375
tr F2Z3S8 F	Uncharacte	6	16	1.0904492	-1.697504	3.8666349	0.217075
sp Q0ZCA7	C-type lectin	2	2	0.2407614	-0.231319	0.7722802	0.2173125
tr Q6QI88 C	LRRG00120	2	3	-0.172584	-0.451443	0.1221281	0.21735
tr D4A1A4	Uncharacte	2	2	-0.203679	-0.630891	0.2223173	0.217375
tr E9PT65 E	Uncharacte	2	3	-0.218693	-0.631039	0.1922119	0.217525
tr Q9JJ10 C	Neuronal C-	2	2	-0.175168	-0.485209	0.1210063	0.219825
sp O35263	Platelet-act	3	4	0.1621806	-0.094528	0.4125575	0.2205625
sp P62161	Calmodulin	7	19	0.1060529	0.0048143	0.2079068	0.2206375
sp P23680	Serum amyl	1	3	-0.2458	-0.735328	0.2361493	0.220725
tr D4A311	NADH dehy	2	2	0.2260836	-0.25595	0.7305321	0.2213
sp P62744	AP-2 compl	2	3	-0.145586	-0.350667	0.0634449	0.222325
sp P50408	V-type prot	3	3	0.2128312	-0.176986	0.611083	0.2223875
tr D4AB58	Uncharacte	2	2	0.2120685	-0.210396	0.6621836	0.2224
sp Q6P7A2	Ubiquitin cc	3	4	0.1716511	-0.102127	0.4452205	0.2231625
tr B5DEL8 E	NADH dehy	3	3	0.1688193	-0.096546	0.4511169	0.223275
tr D3ZL27 C	Uncharacte	1	2	-0.35359	-1.141834	0.4448882	0.223725
sp Q6P7P5	Basic leucin	3	6	0.1453703	-0.069903	0.3580876	0.22445
tr D4A0E8	Protein argi	2	3	0.2296944	-0.208364	0.6734501	0.2248375
sp Q63347	26S proteas	6	7	0.1496988	-0.110639	0.4071181	0.22495
tr D4A0Q9	Uncharacte	2	2	0.3232036	-0.508172	1.2081735	0.2249875
tr D3Z9R8 I	RCG63555 (	1	2	0.1785938	-0.131549	0.4750604	0.2253875
sp A2RUW1	Toll-interact	2	3	0.1756568	-0.115971	0.4694164	0.2256375
sp P97629	Leucyl-cysti	2	3	-0.27139	-0.871536	0.2824617	0.2257875
tr F1LMW7	Uncharacte	1	5	-0.118562	-0.260153	0.0174799	0.2261625
sp Q5U318	Astrocytic p	7	20	0.1279769	-0.031702	0.2922583	0.2263125
sp Q6EV70	GDP-fucose	1	3	-0.15333	-0.390053	0.0839435	0.2266625
tr B2RYU2	RCG45615,	6	7	-0.144132	-0.350575	0.068414	0.226725
sp P50398	Rab GDP dis	20	44	0.1054817	0.0038539	0.2040777	0.2272
tr F1LU88 F	Uncharacte	2	2	1.1321863	-2.366153	4.7860295	0.22765
tr D4A7C3	RCG50366 (	1	2	0.2544404	-0.259911	0.7757608	0.2284625
tr D3ZTC5 I	Myotilin (Pr	2	2	0.9648242	-1.9514	3.9176001	0.229225
sp Q5U2Q7	Eukaryotic p	3	4	-0.170503	-0.457486	0.1259848	0.229575
sp P17046	Lysosome-a	1	2	-0.194649	-0.551601	0.1600449	0.230225

sp P34901	Syndecan-4	2	4	0.2115524	-0.307793	0.6892886	0.2308125
tr D3ZPA9	RCG32401,	1	2	-0.16819	-0.516839	0.1789201	0.2310375
tr D4A0M2	Uncharacte	3	3	0.2061834	-0.159234	0.6345111	0.231675
tr F1LQ14	Uncharacte	2	2	-0.193114	-0.643265	0.2073473	0.2325375
sp P09006	Serine prote	2	2	0.3898625	-0.698307	1.4368441	0.2331875
tr D3ZPI8	Complemer	1	2	-0.340292	-1.151473	0.4615769	0.2332
sp O08838	Amphiphysi	6	9	0.1747437	-0.127739	0.4821538	0.23375
tr D4A1B8	RCG55152,	4	6	0.1318138	-0.040891	0.3094172	0.233775
tr F1LZH4	Uncharacte	1	2	0.2086478	-0.198726	0.6169705	0.233925
sp P51886	Lumican OS	15	93	-0.132467	-0.321766	0.0476321	0.2348875
sp P27274	CD59 glyco	3	6	0.1807577	-0.136664	0.4950367	0.2355
sp Q5I0G4	Glycyl-tRNA	13	23	0.1212199	-0.027459	0.2683719	0.2357125
tr F1LSC3	Uncharacte	2	3	-0.197912	-0.570148	0.1901878	0.235775
sp P70500	CDP-diacylg	1	2	0.2012185	-0.176272	0.5800725	0.235925
tr D4ADE8	Uncharacte	12	24	-0.10641	-0.21089	-0.006741	0.236125
tr F1LM59	Uncharacte	6	6	-0.182157	-0.525548	0.1725515	0.236475
sp P97546	Neuroplasti	2	3	0.142959	-0.062701	0.3584143	0.2366375
sp Q99068	Alpha-2-ma	3	4	-0.167717	-0.45337	0.1239519	0.2369
tr E9PSR5	Uncharacte	2	3	-0.235323	-0.757843	0.2876182	0.23805
sp Q64640	Adenosine l	6	9	-0.118813	-0.259389	0.023183	0.2390125
tr Q6P3V8	Eukaryotic t	4	8	-0.131548	-0.312459	0.0443954	0.2403125
tr F1LY21	Uncharacte	7	19	0.1397915	-0.06478	0.3516149	0.2405875
sp O08949	Transcriptic	1	2	0.2553342	-0.301724	0.8006504	0.2406125
tr E9PU09	Uncharacte	19	26	0.110408	-0.007174	0.2319059	0.24085
tr D3ZJI3	Seryl-aminc	5	8	0.1430325	-0.069009	0.3620752	0.24105
sp P62250	40S ribosom	6	8	-0.150658	-0.394795	0.0921254	0.2412625
sp P06686	Sodium/pot	10	19	0.1239592	-0.034283	0.2869822	0.241525
tr D4A830	Uncharacte	3	3	0.1604754	-0.142	0.4785651	0.24195
sp Q5U204	Ragulator c	1	2	-0.279219	-1.050025	0.4511227	0.242425
tr Q4KLI4	Peptidyl-pr	2	4	0.1455194	-0.081186	0.3683763	0.2425125
tr Q56R17	Karyopherin	1	3	-0.180855	-0.516617	0.1438641	0.2432
sp Q9ESW0	DNA damag	9	12	0.1343368	-0.046595	0.3204489	0.2436625
sp Q2Q0I9	Fibronectin	2	3	-0.317859	-1.245496	0.606419	0.2440125
tr D3ZIF3	Uncharacte	1	2	-0.244031	-0.827307	0.3389872	0.2443375
sp Q8K4V4	Sorting nexi	4	8	-0.159453	-0.419561	0.0974669	0.244675
tr D3ZPP2	Similar to A	3	5	0.1266462	-0.049265	0.2940572	0.2447
sp P04550	Parathyros	2	6	-0.155598	-0.420872	0.1011131	0.24485
tr F1LZM7	Uncharacte	2	3	0.1838387	-0.175098	0.5474848	0.245275
tr Q06C60	BolA-like 1	1	2	-0.173732	-0.485683	0.1444351	0.245775
tr F1LRE1	Uncharacte	6	11	-0.121711	-0.275826	0.0320571	0.246375
tr E9PTL9	Uncharacte	2	4	-0.198961	-0.586368	0.2010681	0.2465375
tr F1LS48	Uncharacte	9	19	-0.118463	-0.268712	0.0304964	0.247425
tr Q6IMX4	Phosphatidi	3	4	0.1550354	-0.113493	0.4141387	0.247575
tr Q3KRF2	High densit	11	17	-0.111885	-0.240312	0.0198151	0.2477
sp Q4KLL0	Transcriptic	4	5	-0.144266	-0.37053	0.0771172	0.2485375
tr D3ZZ38	Sorting nexi	6	7	-0.137749	-0.375748	0.1012988	0.2491125
sp A0JPJ7	Obg-like AT	7	9	0.1044005	0.0009804	0.2141926	0.24925
sp Q66H94	Peptidyl-pr	3	5	-0.146818	-0.382485	0.089246	0.250875
sp P37361	Metallothio	4	7	0.1473191	-0.105043	0.3989492	0.252775
sp P05369	Farnesyl pyr	6	10	-0.113933	-0.250943	0.0162347	0.2532

sp P10687	1-phosphat	5	10	0.1400296	-0.08132	0.3576298	0.2540875
sp P32851	Syntaxin-1A	2	2	0.3168968	-0.412565	1.0708745	0.2542375
tr D3ZE02 I	Uncharacte	1	2	0.2174147	-0.348482	0.7938259	0.25475
sp P04905	Glutathione	7	10	-0.130212	-0.324504	0.0614337	0.254775
sp P00564	Creatine kir	19	43	0.5861183	-1.037604	2.3038234	0.2551125
tr D3ZEL1 I	Uncharacte	1	2	-0.244172	-0.820792	0.3291107	0.256125
sp P09895	60S ribosom	4	5	-0.137702	-0.344971	0.0650638	0.2561375
tr B2GV01	Metastasis-	4	5	-0.138929	-0.361287	0.0829694	0.2563375
sp Q99MC0	Protein pho	1	2	-0.317249	-1.149257	0.5728108	0.256775
sp Q63584	Transmemb	5	8	-0.114407	-0.25214	0.0250641	0.2572125
tr D3ZF34 I	Uncharacte	5	7	-0.140355	-0.372232	0.0863314	0.25765
tr D3ZHI9 I	Protein pho	1	2	-0.184558	-0.556177	0.184185	0.25785
sp P08699	Galectin-3 C	8	16	-0.12239	-0.293158	0.0472192	0.2580375
tr E9PTD4 I	Uncharacte	2	2	-0.168486	-0.489238	0.1660717	0.2584375
sp Q6AXM7	HBS1-like pi	4	7	0.1404475	-0.092618	0.3687617	0.25955
sp Q78P75	Dynein light	2	3	0.1441031	-0.134939	0.4064005	0.2596375
sp Q09073	ADP/ATP tr	5	13	0.1375132	-0.08298	0.3681442	0.2601125
sp Q66H39	ATP-binding	2	2	0.2036282	-0.283779	0.6874382	0.2605375
tr B6DYQ2	Glutathione	7	15	-0.161162	-0.464031	0.1338113	0.2606875
tr B2GV74	Kinesin light	2	2	0.1815955	-0.210377	0.5735186	0.261725
tr Q3KRC3	Signal recog	2	2	-0.183264	-0.589754	0.2197463	0.2619125
sp P38718	Brain protei	1	2	0.2758794	-0.615238	1.1421001	0.2638625
sp A0FKI7 A	Acyl-CoA-bi	2	3	0.1853764	-0.193872	0.5637825	0.2641625
tr D4A5J1 I	Similar to m	2	2	-0.163521	-0.481606	0.153962	0.2655375
tr D4A9H2	Dermatopo	3	8	-0.140317	-0.377741	0.0928466	0.2656875
tr D4A917 I	Uncharacte	2	2	0.1826704	-0.216118	0.6074704	0.2658125
tr Q3MHS8	Sin3-associ	2	2	-0.203968	-0.71431	0.2997842	0.2658625
sp Q66HR0	Solute carri	2	2	-0.215662	-0.754941	0.3316326	0.265925
tr D3ZM97	Olfactory re	1	3	-0.160325	-0.459585	0.1432671	0.2659875
tr E9PTB6 I	DNA-direct	2	5	-0.128161	-0.326159	0.0659791	0.26605
sp B0K025	Oligosaccha	1	2	-0.156116	-0.440323	0.1364698	0.266275
tr D3ZZW2	RCG25234 C	1	2	0.1375551	-0.084112	0.3699674	0.26645
tr D3ZL02 I	Uncharacte	3	3	0.1716064	-0.172315	0.5201105	0.2671125
sp P00697	Lysozyme C	3	6	0.1196431	-0.048702	0.2916755	0.267275
sp Q9Z1E1	Flotillin-1 O	12	18	0.1142648	-0.036784	0.264918	0.2678125
sp P47820	Angiotensin	5	8	-0.158579	-0.463391	0.1619757	0.2681625
sp O88767	Protein DJ-1	10	33	0.1060508	-0.016715	0.2293214	0.26845
sp P63047	Sulfotransfe	2	3	0.1638889	-0.156742	0.4820918	0.26905
sp P25236	Selenoprote	2	2	-0.189261	-0.672621	0.2902397	0.269225
tr F1LMD9	Uncharacte	2	2	-0.195748	-0.682945	0.2978709	0.2695
sp P63219	Guanine nu	3	3	-0.139292	-0.378116	0.1057893	0.269675
sp Q62639	GTP-binding	4	5	0.1305911	-0.072194	0.3346733	0.2703125
tr Q6IMX3	Acetyl-Coer	4	4	0.1638951	-0.201923	0.5318747	0.2704
tr F1LP91 F	Uncharacte	2	3	0.2106856	-0.292179	0.7256647	0.2715125
tr F1M3H8	Uncharacte	2	2	-0.209839	-0.784345	0.3545097	0.2716625
tr D3ZZE3 I	RCG57700,	2	2	0.157519	-0.232431	0.5083034	0.271825
sp P60522	Gamma-am	1	2	0.242666	-0.396352	0.8652622	0.2722875
tr D3ZL50 I	Uncharacte	4	5	0.159523	-0.180463	0.4786621	0.2725875
sp Q80WE1	Fragile X me	2	3	0.173289	-0.200383	0.5586316	0.2738625
tr D3ZJS0 I	Uncharacte	1	2	0.1040612	-0.013634	0.2216931	0.2739125

sp Q5U1X1	Oligoribonu	2	2	-0.293711	-1.062881	0.4426159	0.2741625
tr Q62669	Zero beta-1	5	11	-0.182881	-0.588749	0.2083301	0.2742625
tr F1M1S6	Uncharacte	1	2	-0.169768	-0.512131	0.1802786	0.274775
sp O35244	Peroxiredox	14	33	-0.117829	-0.287712	0.0512902	0.27495
sp O08618	Phosphorib	4	6	-0.153093	-0.458822	0.1476738	0.2751375
tr F1LNY5 F	Uncharacte	2	4	0.1342031	-0.08983	0.3569445	0.275225
sp P16290	Phosphogly	7	10	0.429139	-0.875935	1.7100292	0.275275
sp A1A5P0	Cdc42 effec	1	2	0.1950297	-0.279224	0.691543	0.2765
tr B2GUU6	Vitamin K e	1	2	-0.139526	-0.39204	0.1092909	0.276825
sp Q6Q760	Sodium lea	1	2	0.1746803	-0.206025	0.5753561	0.2770875
tr F1LVE2 F	Uncharacte	2	2	-0.201879	-0.902029	0.5051759	0.2770875
sp P02466	Collagen al	11	38	0.1454048	-0.125237	0.4132982	0.2773
tr D4ABY2	Uncharacte	2	2	0.3029506	-0.727674	1.2716007	0.2775625
sp P31211	Corticosterc	6	10	-0.173173	-0.545635	0.2021418	0.2792375
tr F1M2F8	Uncharacte	3	3	0.1604069	-0.175291	0.4941253	0.2795625
sp Q5BJY6	Putative N-	1	2	0.3829972	-1.203455	1.8127944	0.28055
sp P11517	Hemoglobir	3	12	-0.166464	-0.526622	0.1910832	0.281175
tr D3ZJJ9 D	Uncharacte	3	3	-0.257699	-0.945823	0.3738991	0.2815625
sp Q68FT1	Ubiquinone	2	2	0.3584492	-0.890782	1.5882565	0.2823
tr F1MA55	Uncharacte	8	13	-0.122299	-0.310626	0.0680476	0.2826625
sp Q9QXU9	ProSAAS OS	3	3	0.1551468	-0.247625	0.5403008	0.284025
tr D4A7N1	Coiled-coil-I	1	2	0.2025556	-0.354898	0.7701241	0.2842
sp P81799	N-acetyl-D-	2	2	-0.170499	-0.549438	0.1998556	0.28455
sp P09606	Glutamine s	7	8	-0.158639	-0.496284	0.1690648	0.2847625
sp P28064	Proteasome	2	3	-0.156811	-0.485764	0.1788053	0.284925
tr B5DFD8	SH3-binding	7	11	-0.112585	-0.273028	0.0453934	0.2852125
tr D3ZXH0	Uncharacte	2	2	-0.166531	-0.557942	0.2496002	0.28525
sp P42123	L-lactate de	18	54	0.096305	-0.001327	0.1943552	0.285475
tr Q68FX8	Peptidase (I	1	3	0.1402234	-0.120417	0.3945825	0.2863875
sp P05708	Hexokinase	24	47	0.1024853	-0.020071	0.2233628	0.286525
tr F1LVX2 F	Uncharacte	3	3	0.1551031	-0.179302	0.5045792	0.286575
tr F1M0Z4	Uncharacte	2	2	0.1604314	-0.205731	0.543649	0.2866875
sp P0C089	Protein-tyrc	1	2	0.179119	-0.229131	0.5730209	0.2867
sp P17475	Alpha-1-ant	18	100	0.1483122	-0.150973	0.4347708	0.287025
tr D4A115	Uncharacte	16	29	0.1322204	-0.101189	0.3705037	0.2883
tr D3ZAP9	Uncharacte	5	6	-0.127319	-0.345459	0.0907116	0.2886625
tr Q499Q4	Phosphoglu	22	36	0.2260764	-0.37596	0.8237614	0.2887
sp Q99J82	Integrin-link	7	15	-0.115581	-0.291041	0.0546881	0.28955
tr B1WC49	Api5 protei	2	2	-0.352337	-1.712846	1.055054	0.290025
tr F1LRI2 F	Uncharacte	12	23	-0.092316	-0.17543	-0.013234	0.2900375
tr D3ZJF9 D	Galactosida	2	2	0.1561759	-0.187149	0.4881514	0.290125
sp Q62638	Golgi appar	4	5	-0.114344	-0.279328	0.0554648	0.290475
sp Q4V7A0	WD repeat-	3	5	-0.138249	-0.402196	0.1133044	0.2905875
tr E9PSV5 E	Phosphoser	9	10	-0.106112	-0.247422	0.0357208	0.2907625
tr F1M6T2	Uncharacte	2	2	0.2331004	-0.412337	0.919566	0.290925
sp P40615	H/ACA riboi	2	2	-0.277987	-1.173147	0.6198749	0.2911375
tr F1LQ02 F	Uncharacte	20	31	-0.104773	-0.240268	0.0343132	0.2913
tr D4A1Q9	Uncharacte	3	4	-0.140024	-0.413005	0.1318564	0.2913375
sp P83006	Platelet-act	2	2	-0.226504	-0.853756	0.3856853	0.2918875
sp Q6MGB5	Estradiol 17	2	2	-0.274711	-1.114607	0.5155802	0.2921875

tr Q80W83	Protein pho	2	2	-0.234211	-0.894131	0.4224844	0.2922125
sp Q5SGE0	Leucine-ric	4	6	-0.131827	-0.362999	0.097865	0.29225
sp Q04462	Valyl-tRNA :	4	4	-0.120439	-0.318307	0.0750667	0.292275
sp P50442	Glycine ami	2	2	0.4744713	-1.685491	2.4642009	0.2922875
sp P05370	Glucose-6-p	15	29	-0.089582	-0.162721	-0.015734	0.292325
tr Q5M885	LOC360919	2	2	-0.287936	-1.30813	0.7040445	0.2929375
tr D4A2Y2	Uncharacte	3	4	-0.124746	-0.329135	0.0892784	0.2930125
tr F1LRB7	Uncharacte	2	5	0.1208942	-0.063316	0.3166665	0.293375
sp P15429	Beta-enolas	12	29	0.4568689	-1.07015	1.9463986	0.2934625
tr F1LVF7	Uncharacte	1	3	0.2486394	-0.481157	0.9507929	0.2942875
tr F1LM93	Uncharacte	1	2	-0.154428	-0.481819	0.1639457	0.2952375
tr F1LMC6	Uncharacte	2	2	0.6156711	-1.917213	3.2592829	0.2960375
tr D4A301	Uncharacte	43	100	-0.118599	-0.312524	0.0766643	0.2963375
sp Q02293	Protein farn	2	2	0.1506527	-0.224116	0.4855086	0.2969875
tr F1M1J4	Uncharacte	2	2	0.2515684	-0.60665	1.1101663	0.297425
tr D3ZU08	RCG46917,	4	7	0.1157212	-0.064701	0.2927354	0.2974375
tr B0K034	Putative un	1	2	-0.173602	-0.584548	0.242896	0.2976
sp P32198	Carnitine O-	1	3	0.1366152	-0.122021	0.3957907	0.2979
sp Q9ERB4-	Isoform V3	6	13	0.1233281	-0.092448	0.3385525	0.2984125
sp Q5FVM4	Non-POU do	3	4	-0.144858	-0.476053	0.1578467	0.298475
tr Q5U2R9	Similar to Se	2	2	-0.188074	-0.678242	0.252664	0.2985375
sp Q66HC5	Nuclear por	2	2	-0.182825	-0.659949	0.2850892	0.2986375
sp Q63768	Adapter mo	5	8	-0.110972	-0.271252	0.0449725	0.2988875
tr F1M403	Uncharacte	7	12	0.1088981	-0.041253	0.2580492	0.299125
sp Q62902	Protein ERG	3	3	-0.152898	-0.470792	0.1653148	0.299825
sp D4A1J4	3-hydroxybi	1	2	-0.149375	-0.467658	0.157817	0.300375
sp P07895	Superoxide	7	12	0.1055347	-0.035816	0.2472099	0.30055
sp Q35264	Platelet-act	5	11	0.0940238	-0.002777	0.1914792	0.3007375
sp P04692-	Isoform 5 o	2	6	0.1226538	-0.078577	0.3326873	0.3010375
sp P97829-	Isoform 2 o	3	5	0.1161638	-0.06442	0.3060983	0.3011
tr F1LQL5	Uncharacte	3	4	-0.128529	-0.366018	0.1151378	0.30125
tr D4A0W9	Uncharacte	16	32	-0.092277	-0.18504	-0.001473	0.3027625
tr F1LQZ4	Uncharacte	1	2	-0.198049	-0.739791	0.3292295	0.3031375
sp P08081	Clathrin ligh	1	2	-0.124027	-0.34599	0.0916574	0.30365
tr Q6IRJ7	C Annexin A7	8	10	-0.100909	-0.223243	0.0202913	0.304725
sp Q32PX2	Aminoacyl t	1	2	-0.164057	-0.548578	0.214787	0.3051
sp P63329	Serine/thre	7	8	0.0991955	-0.013802	0.2148226	0.305375
sp P11884	Aldehyde de	16	42	-0.100549	-0.22868	0.0283392	0.3057625
sp Q00238	Intercellular	2	3	-0.293323	-1.378148	0.777532	0.3060375
tr D4A8Q6	Uncharacte	3	4	-0.141395	-0.435863	0.1588256	0.30655
tr D4A9Z8	RCG63680 C	3	5	0.1161065	-0.068834	0.3082311	0.3066375
tr D3ZWB1	LSM1 homoc	2	2	-0.185129	-0.768317	0.3866995	0.30665
sp P22985	Xanthine de	1	2	-0.239303	-0.926238	0.4306071	0.30715
tr D3ZFP2	Uncharacte	2	2	-0.307072	-1.576328	0.8208274	0.3072625
tr D4A8M5	Uncharacte	3	3	-0.223955	-1.004646	0.5446762	0.3074375
tr D3ZZW8	Uncharacte	2	2	-0.207984	-0.859996	0.5301914	0.307475
sp Q9JMJ4	Pre-mRNA-p	2	2	-0.137855	-0.495415	0.2103568	0.307725
tr D4A030	Uncharacte	2	2	0.2620515	-0.677693	1.2532791	0.30855
tr D3ZE30	Uncharacte	2	2	0.1542291	-0.211465	0.5088952	0.3088
sp P25286	V-type prot	2	3	0.1861389	-0.300799	0.686804	0.3094125

tr F1LSK5 F	Uncharacte	2	4	-0.122387	-0.376042	0.1390661	0.3103
sp P52925	High mobili	3	3	-0.148567	-0.492687	0.1857602	0.3116125
tr D4A0H4	Cullin 2 (Pre	1	2	0.1606956	-0.272122	0.5890665	0.311675
tr D4A8R6	Uncharacte	11	23	0.1136202	-0.073076	0.3071177	0.3118
tr D3ZEU9	Uncharacte	1	2	0.1886596	-0.327746	0.709643	0.3123
tr D4A8P9	Uncharacte	5	11	0.1049176	-0.048563	0.250518	0.31235
sp Q9WU82	Catenin bet	11	21	0.0951492	-0.011448	0.202614	0.314675
tr F1M1H0	Uncharacte	3	3	-0.161153	-0.572502	0.246446	0.3149
sp Q6P7R8	Estradiol 17	5	7	0.1410141	-0.152432	0.4537532	0.3152875
sp Q66HD3	Nuclear aut	2	4	0.1405807	-0.142549	0.4321193	0.3160625
sp P11507	Sarcoplasm	7	12	0.1291506	-0.130718	0.389922	0.3161125
sp Q0ZHH6	Atlastin-3 O	3	6	-0.142051	-0.459066	0.1838233	0.3162
tr D4AA77	Uncharacte	3	5	-0.121886	-0.34673	0.0969516	0.31685
sp P51635	Alcohol deh	11	28	0.0883133	0.0070345	0.1671891	0.317175
tr O54857	Phosphatas	1	2	-0.19068	-0.863623	0.4611211	0.317225
sp P51673	Cellular reti	4	6	-0.129942	-0.396419	0.1341636	0.3173375
tr D4A3V5	Similar to Kl	4	4	-0.154762	-0.516871	0.1940192	0.3177625
sp P11030	Acyl-CoA-bi	7	20	-0.092653	-0.193871	0.0057688	0.3179625
tr D4A8D5	Filamin, bet	58	100	0.1018774	-0.037718	0.244303	0.318
tr E9PTX9 E	Uncharacte	5	9	0.1133585	-0.080108	0.3016538	0.3184625
tr F1LTN6 F	Uncharacte	1	3	-0.187888	-0.73154	0.3458035	0.3201375
sp P50609	Fibromodul	12	26	-0.115595	-0.329768	0.0858648	0.320325
tr D3ZQ44	Uncharacte	3	3	0.181131	-0.332472	0.7024468	0.3203375
sp Q561R9	Beta-lactam	2	2	-0.164793	-0.654284	0.348276	0.3204375
sp P37285	Kinesin ligh	10	15	0.1033832	-0.051204	0.2585093	0.3206
sp P85834	Elongation f	8	14	0.0919793	-0.002812	0.1860082	0.3206875
sp Q68FP1	Gelsolin OS	30	87	0.1021136	-0.043307	0.2466072	0.3209
sp P16409	Myosin ligh	6	7	0.5968494	-2.337017	3.7122131	0.3209625
sp Q62824	Exocyst con	3	4	-0.126123	-0.391242	0.1360684	0.3213625
sp Q920A6	Retinoid-inc	3	5	-0.158907	-0.570814	0.2720763	0.321475
tr Q6MGC4	H2-K region	2	4	-0.126805	-0.362901	0.0999572	0.3218125
tr F1LMA7	Uncharacte	2	3	0.1886706	-0.366957	0.7283131	0.322075
tr D3ZD04	Uncharacte	5	6	0.1119305	-0.078749	0.3102306	0.3229125
tr Q5U330	Guanylate c	2	3	-0.139937	-0.454238	0.1719106	0.3230375
sp Q07647	Solute carri	1	2	0.1569769	-0.250799	0.5647271	0.3230625
tr B2GV08	Adaptor-rel	3	3	-0.137501	-0.451703	0.1686564	0.3231375
tr Q66HM7	Sjogren syn	4	5	-0.113479	-0.326053	0.1184173	0.32315
sp P11980-2	Isoform M2	3	8	-0.11347	-0.317353	0.0901314	0.3237625
sp O55004	Ribonucleas	3	3	0.1301013	-0.154766	0.4186753	0.3238125
tr F1LR89 F	Uncharacte	4	6	-0.111474	-0.328137	0.1260133	0.3241125
tr B2RYP4 E	Sorting nexi	5	8	-0.102036	-0.245729	0.0348536	0.324125
tr F1M8W5	Uncharacte	2	5	0.158303	-0.248499	0.5661919	0.3244125
tr D4A0A1	Uncharacte	2	2	0.1626911	-0.293007	0.6370501	0.325425
sp D4A8G9	Zinc finger f	2	2	0.1558094	-0.307999	0.6016467	0.3255125
tr F1LRL8 F	Uncharacte	3	5	-0.109773	-0.305656	0.0915099	0.3264125
sp P23514	Coatome s	4	5	-0.115065	-0.31762	0.0862947	0.32645
tr D4A3E2	Uncharacte	4	4	-0.147799	-0.529727	0.2403845	0.32655
tr F1MA38	Uncharacte	13	27	0.1080605	-0.072921	0.2920026	0.3268375
tr D3ZZH8	Glutamine f	4	4	0.1351239	-0.171245	0.4333247	0.3272625
sp Q03114	Cyclin-depe	5	10	0.1031948	-0.043524	0.2580734	0.3277875

sp Q09426	2-hydroxyac	4	6	0.1501085	-0.239377	0.5223539	0.3280625
sp Q8R491	EH domain-	4	5	0.1437844	-0.209575	0.4964981	0.3283
sp Q641X3	Beta-hexosi	1	2	-0.146125	-0.492176	0.2037977	0.3284375
tr F1LNN0	Uncharacte	5	8	0.1074246	-0.069983	0.2826822	0.3292875
tr D3ZZQ9	Uncharacte	7	12	0.0999809	-0.040588	0.2358358	0.3295125
sp P21708-2	Isoform 2 of	12	30	0.0964819	-0.032357	0.2231093	0.3296625
sp Q6AXT5	Ras-related	2	4	0.1323584	-0.158502	0.4456374	0.329875
sp Q6IMX7	Hsp70-bind	2	2	-0.138264	-0.483188	0.2130023	0.329875
tr F1LXV8	Uncharacte	6	9	0.1070392	-0.069757	0.2812914	0.3305375
sp P62332	ADP-ribosyl	2	3	-0.134524	-0.46575	0.2251894	0.3309875
sp Q63570	26S proteas	3	4	0.1388898	-0.182262	0.4646736	0.331325
tr F2Z3Q9	Uncharacte	8	12	0.1071636	-0.083034	0.2851062	0.3315375
tr D3ZXH6	Uncharacte	4	5	-0.118299	-0.341519	0.1037606	0.331925
tr B1H271	Slc25a42 pr	1	2	-0.137582	-0.537181	0.2628813	0.3319625
tr D3ZH40	RCG51753 (	2	2	0.2154845	-0.622191	1.058982	0.332575
tr F1M635	Uncharacte	1	2	0.1938743	-0.39998	0.8044715	0.333275
sp P70627	Glutamate c	2	3	0.1247535	-0.129915	0.3854342	0.3335625
tr F1M471	Uncharacte	3	5	0.1207624	-0.119892	0.352249	0.333625
tr F1LN19	Uncharacte	1	2	-0.179967	-0.725895	0.3787003	0.333625
tr D4A9L2	RCG34610,	6	9	-0.111351	-0.326312	0.1066106	0.334325
tr D4A323	Uncharacte	1	2	-0.146298	-0.527657	0.2281077	0.33455
tr D3ZQ23	Uncharacte	6	7	0.1210381	-0.187439	0.4183887	0.335325
tr D3ZR44	Uncharacte	2	2	-0.183988	-0.777122	0.3997367	0.3361375
sp Q6U6G5	Zinc finger C	2	2	-0.150193	-0.606948	0.298556	0.336825
sp O08651	D-3-phosph	10	20	-0.119489	-0.373507	0.1274086	0.3370125
tr F1LUX2	Uncharacte	1	2	0.6908173	-2.740512	4.2488874	0.3373
tr F1LN61	Uncharacte	11	43	0.2294981	-0.575516	1.043066	0.3378
tr D3ZWX4	Uncharacte	3	6	0.1145976	-0.106028	0.3287054	0.3379875
sp Q6AZ50	Ubiquitin-lil	2	2	0.1578169	-0.383146	0.6850641	0.3381875
tr F1LZG6	Uncharacte	3	3	-0.139084	-0.517629	0.2402203	0.3383125
tr D3ZNL3	Uncharacte	1	2	-0.192133	-0.808367	0.386487	0.33955
tr F1LS12	Uncharacte	3	3	0.113429	-0.122896	0.3406556	0.339675
tr D4A4U0	Uncharacte	3	4	-0.117623	-0.36053	0.1262973	0.3399625
tr F1M0Z1	Uncharacte	2	3	-0.137874	-0.52298	0.2394994	0.341025
sp Q9R0I8	Phosphatidi	3	3	0.1443512	-0.279552	0.5588254	0.3415125
sp P19804	Nucleoside	4	7	-0.092362	-0.200636	0.0165393	0.341775
tr Q5U329	Slc4a1 prot	4	5	-0.124193	-0.373169	0.1184675	0.3422375
sp P20717	Protein-argi	7	14	-0.098436	-0.251586	0.0573531	0.3425
sp P35738	2-oxoisoval	2	2	-0.153161	-0.675581	0.3380793	0.3425
tr Q5M9F6	5,10-methe	2	2	-0.174932	-0.737573	0.367176	0.34255
tr B4F772	Heat shock	16	20	0.1033576	-0.077541	0.2859368	0.3425625
tr F1M4K5	Uncharacte	2	7	-0.112745	-0.357357	0.1507467	0.3427125
tr D4ADD7	Glutaredoxi	3	5	0.1452703	-0.233431	0.5427953	0.342725
sp P15650	Long-chain	11	19	0.0915077	-0.018298	0.2069863	0.3437625
tr Q6P792	Four and a l	8	17	-0.162481	-0.653224	0.3302876	0.343925
tr D3ZQH5	Uncharacte	2	2	0.153233	-0.35226	0.6569724	0.3439875
tr D4A1G4	Uncharacte	5	15	0.1042647	-0.073244	0.2866921	0.3441375
sp Q641W2	UPF0160 pr	2	3	0.1212287	-0.148612	0.3938955	0.3441875
tr D3ZK51	Uncharacte	2	2	-0.133143	-0.502938	0.266283	0.34535
sp Q4KLN7	ADP-ribosyl	2	2	-0.14795	-0.593589	0.291253	0.346025



tr D3ZN39  Ubiquitin ca	3	4	0.1430396	-0.246927	0.5297987	0.3470125
tr F1M8C9  Uncharacte	2	2	-0.18737	-1.187928	0.8334648	0.34765
tr D4A4U3  Similar to m	2	4	0.1361553	-0.219184	0.4998939	0.347775
tr F1LRX5 F Uncharacte	60	100	0.0863028	-0.00407	0.1739124	0.3478875
tr D4AD39  RAD23a hor	2	2	-0.142982	-0.598274	0.3198318	0.347925
sp Q5M7A4  Ubiquitin-lil	3	3	0.1293726	-0.205651	0.4660299	0.3480125
sp P07861  Neprilysin C	4	4	0.1199172	-0.143097	0.3947137	0.3485875
tr Q5U1W8  High-mobili	3	3	-0.14184	-0.616806	0.3275823	0.3488875
sp Q8K4G6  MACRO dor	2	2	0.2711807	-1.011304	1.5714193	0.348975
sp P84586  Heterogene	4	7	-0.116331	-0.356181	0.1271538	0.348975
tr D3ZRZ1 I Uncharacte	1	3	-0.105686	-0.299401	0.0871083	0.3490125
tr D3ZBS6 I Uncharacte	2	3	0.1257224	-0.176709	0.4346249	0.349025
sp P97571  Calpain-1 ca	9	15	0.093604	-0.030062	0.2177136	0.34915
tr D3ZFK1 I Growth arre	3	3	0.150938	-0.358635	0.6475187	0.349775
sp Q8CGS4  Charged mu	2	2	-0.115822	-0.411096	0.1770818	0.3498
tr D4A4J0 I Suppressor	3	6	-0.089442	-0.197389	0.020214	0.3502875
sp P81795  Eukaryotic t	5	10	-0.097733	-0.267538	0.0853987	0.3503875
tr D4ACJ1 I 40S ribosom	2	2	-0.144143	-0.63878	0.4034472	0.3503875
tr Q5PQK2  Fusion, deri	4	4	-0.118401	-0.381203	0.1455186	0.35075
sp P08009  Glutathione	3	5	0.0947296	-0.047874	0.2315363	0.3509625
sp Q5XIE8 I Integral me	1	2	-0.133496	-0.476568	0.2241309	0.3510375
tr B0BMW0  RAB14, mer	3	8	0.1120948	-0.106533	0.3301228	0.351125
tr D3ZDK7  Similar to R	4	7	0.1022745	-0.068403	0.273556	0.351275
sp O88370  Phosphatidi	1	2	-0.117561	-0.371816	0.1454504	0.3515375
tr D4A351 I Uncharacte	2	2	-0.141456	-0.606493	0.3120318	0.3516375
tr D4A5L9 I Uncharacte	8	15	0.0986811	-0.068274	0.2584414	0.35175
sp Q64591  2,4-dienoyl-	2	3	-0.126973	-0.492734	0.2401296	0.351775
sp Q568Z6  IST1 homok	1	2	0.1299348	-0.222805	0.4711561	0.3519625
sp P13668  Stathmin O!	12	29	0.0987879	-0.060785	0.256143	0.352275
sp Q6P756  Adaptin ear	2	4	-0.105807	-0.294702	0.0903124	0.3523125
sp Q64361  Latexin OS=	2	5	0.100202	-0.077382	0.2719901	0.3524375
tr F1LPK1 F Uncharacte	2	2	0.1874096	-0.550067	0.9681123	0.3525
tr Q5XIJ7 C Calcium bin	1	3	0.1497133	-0.375569	0.6560471	0.3525625
tr F1LM42  Uncharacte	8	9	0.1012967	-0.065475	0.2692031	0.3533625
sp Q794F9  4F2 cell-sur	6	8	0.1139287	-0.135849	0.3648434	0.353375
sp Q5BK81  Prostagland	1	2	0.118239	-0.183956	0.4204072	0.3537
sp Q9JLJ3 A 4-trimethyl	12	21	-0.084703	-0.172041	0.0025645	0.3539625
sp Q6IN36  WAS/WASL	2	3	0.1307986	-0.216722	0.4684287	0.35455
sp P52631  Signal trans	6	10	0.0880668	-0.011246	0.1853808	0.354925
tr D3ZML0  Tripeptidyl	3	4	0.1015227	-0.07579	0.2749109	0.3552875
sp O70436  Mothers ag	2	3	-0.120988	-0.396146	0.1607857	0.3554375
tr D3ZHY1 I Threonyl-tR	2	3	-0.12066	-0.442301	0.1962206	0.3555
tr D3ZPR0 I Chromosom	8	12	-0.098717	-0.260381	0.0608508	0.3558875
sp P28075  Proteasome	2	3	-0.111537	-0.342328	0.1140407	0.356375
tr D3ZQC6  Uncharacte	2	2	0.1554153	-0.315888	0.6624826	0.3564
tr D3ZRD9  Similar to ic	3	8	-0.111028	-0.349121	0.1280698	0.3566375
tr D3ZJ32 C RCG21039,	6	10	-0.092517	-0.217686	0.0372481	0.3567
sp P50904  Ras GTPase-	2	2	0.2013464	-0.732099	1.1073347	0.357625
tr D3ZZC5 I TNFRSF1A-a	2	2	-0.285259	-1.815756	1.2640137	0.3576875
tr F2Z3T9 F Uncharacte	3	5	-0.11376	-0.346795	0.1165604	0.3577375

sp P42346	Serine/thre	2	2	0.1433408	-0.340772	0.6210478	0.3578875
tr F1LR42 F	Uncharacte	1	2	-0.13876	-0.574122	0.2674533	0.358125
sp Q6AXQ0	SUMO-activ	2	2	-0.156754	-0.742621	0.4392485	0.3583625
tr D4A9D8	Oxysterol-b	4	7	-0.104891	-0.305614	0.0967776	0.3591375
sp Q68FS2	COP9 signal	6	8	0.1014254	-0.084336	0.2794591	0.3593125
tr Q5U1Z9	Metaxin 2 C	2	2	0.1830639	-0.561726	0.935817	0.3600875
sp P19139	Casein kina	3	3	0.1329311	-0.249639	0.5208444	0.3603625
sp Q9WTT7	Basic leucin	2	4	0.1311863	-0.238364	0.4961165	0.3606125
tr D3ZFG5	RCG41300 C	14	100	0.1027988	-0.092338	0.2957971	0.3610875
sp B0BNA5	Coactosin-li	6	12	-0.086039	-0.182766	0.01292	0.36205
sp P50399	Rab GDP dis	22	37	-0.087154	-0.206984	0.0364973	0.3621625
tr D3ZLP4 I	Uncharacte	2	3	0.1101225	-0.147611	0.3583725	0.3629
sp Q5U2R3	FERM doma	2	2	0.1413533	-0.321422	0.6150179	0.363075
sp P62836	Ras-related	2	2	0.1378237	-0.253746	0.5485314	0.3642375
tr D4A8H8	Cytoplasmic	8	11	-0.091157	-0.216671	0.0315739	0.3643125
sp Q2PQA9	Kinesin-1 he	11	17	0.0914822	-0.067133	0.2418735	0.3644625
tr F1LUZ8 F	Glyceraldeh	2	2	0.2096452	-0.797704	1.1359112	0.3644875
sp P61972	Nuclear trar	3	7	-0.093417	-0.23059	0.038563	0.3646625
sp Q9QZM5	Abl interact	3	3	-0.107152	-0.382566	0.1915003	0.365225
sp B2RYG6	Ubiquitin th	5	11	0.0938098	-0.035834	0.2316009	0.365675
tr F1LPB1 F	Uncharacte	11	15	0.0867702	-0.030948	0.1992926	0.3657625
tr D4A111	Procollagen	9	18	0.104532	-0.105225	0.3095685	0.3658125
tr F1LXE1 F	Uncharacte	8	8	0.1185639	-0.159216	0.4075854	0.3660125
tr B2RYX0 I	Naca protei	1	2	-0.107738	-0.375052	0.1579589	0.366325
tr F1MA64	Uncharacte	1	2	-0.166537	-0.8949	0.5760743	0.36695
tr D4A927	Uncharacte	4	4	-0.124136	-0.443917	0.1937107	0.367
tr B5DEI0 B	Pcyox1l pro	1	3	-0.109881	-0.353396	0.1278506	0.3670125
tr F1LPC9 F	Uncharacte	3	5	-0.109799	-0.366191	0.1336385	0.367325
tr F1M668	Uncharacte	2	2	-0.210102	-1.170698	0.6551053	0.367575
sp P63255	Cysteine-ric	3	5	-0.120192	-0.444301	0.2089063	0.3678
sp O70437	Mothers ag	3	4	-0.13208	-0.520709	0.2493471	0.3678625
sp Q4V7F2	Cysteine-ric	1	2	0.1052639	-0.105132	0.3213192	0.3679875
tr F1LQP9 F	Uncharacte	4	8	-0.099683	-0.278398	0.084725	0.36815
tr D4ADF5	RCG53732,	3	5	0.094627	-0.09487	0.2754856	0.3687625
tr Q7TP88	Ab1-219 OS	3	6	0.1042431	-0.109512	0.3206707	0.3695375
sp P51647	Retinal deh	8	12	-0.097803	-0.27488	0.0850694	0.3697
tr D4ACC2	Uncharacte	9	14	-0.096568	-0.275732	0.0843048	0.3698875
tr F1LNI2 F	Uncharacte	6	8	-0.096232	-0.269925	0.0842718	0.370575
sp P61983	14-3-3 prot	13	27	0.0835844	-0.006849	0.1735231	0.3707125
sp Q9JJ54 I	Heterogene	4	8	-0.096883	-0.264741	0.0737644	0.370925
sp P02563	Myosin-6 O	1	3	0.5253733	-3.149905	4.0167096	0.3729
sp Q63616	Vacuolar pr	2	2	0.1701451	-0.590131	0.9376524	0.3729375
tr D3ZN52	Uncharacte	2	2	0.1471318	-0.45308	0.7450108	0.3731
tr D3ZWC6	Syntrophin,	14	20	0.0899326	-0.043335	0.219208	0.373175
sp Q6AYK8	Eukaryotic t	2	2	-0.101466	-0.307776	0.1080955	0.3732125
sp Q9R080	G-protein-si	2	3	0.1375253	-0.30306	0.558739	0.373425
tr B1WBY1	Cul1 proteir	3	3	0.1323521	-0.301776	0.585891	0.37345
sp Q641Y0	Dolichyl-dip	9	17	-0.08641	-0.19308	0.0191612	0.3743375
tr F1LRT5 F	Uncharacte	3	4	0.1133137	-0.166492	0.3974685	0.377125
tr D3ZU13	Uncharacte	7	10	-0.094086	-0.252025	0.0577259	0.3779875

tr D3ZRB2	RCG47968,	2	6	-0.100271	-0.298294	0.0954296	0.3780125
tr F1LRJ9	F Uncharacte	14	31	-0.096988	-0.28313	0.0847239	0.3784625
sp P55053	Fatty acid-b	4	8	0.0994362	-0.133192	0.3322122	0.379625
tr F1LQF8	F Uncharacte	6	14	0.0935007	-0.047097	0.2414233	0.3799625
tr D3ZNN0	Uncharacte	3	3	0.1358356	-0.313426	0.5821533	0.3800625
tr Q5U362	Annexin A4	18	44	0.0897682	-0.047632	0.2268144	0.380775
sp P22509	rRNA 2'-O-m	3	3	-0.123594	-0.541454	0.3150649	0.380975
tr Q5PPH9	Acidic (Leuc	7	10	-0.101611	-0.312327	0.1074841	0.3816625
sp P02764	Alpha-1-acid	9	20	0.1256449	-0.267081	0.5329287	0.381675
sp P70566	Tropomodu	10	18	0.0858174	-0.016786	0.1956903	0.3817625
tr D4A691	Uncharacte	1	2	-0.122993	-0.519087	0.2750036	0.38205
tr F1LSL1	F Uncharacte	4	6	-0.107529	-0.389226	0.1803741	0.3825625
sp Q32PX7	Far upstream	2	3	-0.126026	-0.546462	0.3155251	0.3833
tr F1M945	Uncharacte	2	2	0.1172661	-0.289125	0.5078816	0.3838375
sp A0JPQ4	Tripartite m	2	2	0.360549	-2.869479	3.2607334	0.3851625
tr D4A348	Uncharacte	2	2	-0.152247	-0.83222	0.5301098	0.38535
tr B2GVB1	S100 calciu	8	45	0.0887612	-0.044507	0.2255422	0.3855125
sp P69897	Tubulin bet	5	16	0.1216096	-0.238729	0.4738694	0.3856375
tr B2RYN9	RGD156223	3	5	0.1149139	-0.206812	0.4384231	0.38595
sp Q8K3X8	Heat shock	2	2	-0.134905	-0.635571	0.3640232	0.3864875
tr Q5BJZ3	C Nicotinam	6	12	0.1094245	-0.193171	0.4129726	0.3867125
sp P62909	40S ribosom	6	9	-0.088603	-0.219965	0.0429875	0.3871875
sp Q66HG6	Carbonic an	1	2	-0.162486	-0.833523	0.505351	0.387325
sp Q920G2	Na(+)/H(+) c	1	2	0.1319779	-0.314969	0.5944965	0.38795
sp Q6AYG3	Protein prui	8	11	0.0858848	-0.026988	0.2051791	0.3880375
sp Q5U2R0	Methionine	2	2	0.1495715	-0.71535	0.9446694	0.38805
tr F1LPG3	F Uncharacte	4	5	-0.121766	-0.524735	0.2656792	0.388175
tr D4A7D7	Hexose-6-ph	3	3	-0.124689	-0.522925	0.2861277	0.3892875
tr F1LQC0	F Uncharacte	3	3	0.1242245	-0.341742	0.5893582	0.3894875
sp P15865	Histone H1.	12	36	-0.103736	-0.358831	0.1447797	0.39
tr E9PTR4	F Uncharacte	2	3	-0.126946	-0.569956	0.3194428	0.3905375
tr D4A8B7	MMR_HSR1	1	21	-0.097154	-0.30304	0.1145589	0.3907625
tr F1LR64	F Uncharacte	3	3	0.1600457	-0.549758	0.8548439	0.3913125
tr F1LS55	F Uncharacte	5	6	0.091942	-0.075233	0.2567646	0.3915375
sp Q704E8	ATP-binding	1	2	0.1139086	-0.219033	0.4374391	0.391825
tr F1LNR0	F Uncharacte	6	7	0.1014042	-0.162847	0.3480842	0.392475
sp Q8K4M9	Oxysterol-b	1	2	0.1160709	-0.207465	0.4498238	0.3925875
tr Q6AYD5	G1 to S pha	4	4	-0.10979	-0.476349	0.2469357	0.3933875
sp D3Z8L7	Ras-related	2	5	-0.08698	-0.216757	0.0431452	0.394025
sp P41542	General ves	8	12	-0.085162	-0.192435	0.0262526	0.394375
sp P10824	Guanine nu	2	2	0.1236886	-0.381998	0.6503569	0.3945125
sp Q6Q0N1	Cytosolic nc	12	20	-0.083153	-0.191974	0.0223992	0.3946375
sp Q63716	Peroxiredox	14	36	-0.084086	-0.194036	0.0273865	0.3946625
tr D3ZJT2	C Uncharacte	1	4	-0.11791	-0.478712	0.2338447	0.394725
sp Q3B8Q0	Microtubule	3	5	0.1036122	-0.15611	0.3659736	0.3950375
tr D4AE00	Uncharacte	2	2	0.1244796	-0.310329	0.5801869	0.3956
tr B2GV15	Dihydrolipo	5	6	-0.099232	-0.324117	0.1203229	0.395675
sp P06238	Alpha-2-ma	14	30	-0.107127	-0.40231	0.1997965	0.3978625
tr D3ZH39	Ephrin rece	1	2	0.1211441	-0.371853	0.6154807	0.3979875
tr F1LNT6	F Uncharacte	4	7	0.1011631	-0.15408	0.3560546	0.3986125

sp P02564	Myosin-7 O	12	19	0.2817557	-1.460153	2.0182285	0.398925
sp Q6MG6C	N(G),N(G)-d	14	40	0.0836596	-0.028485	0.1965258	0.3991125
tr Q68FS8	RNA termin	6	10	0.0922994	-0.085912	0.2703803	0.3995375
tr F1LP76	F Uncharacte	2	3	-0.138125	-0.828238	0.5334607	0.3998125
sp Q8VH46	Actin filame	5	7	0.0937895	-0.11366	0.2925473	0.40005
sp B0BNF1	Septin-8 OS	6	9	-0.088509	-0.238966	0.0609211	0.4001
sp P97615	Thioredoxin	2	7	-0.107912	-0.394272	0.1803698	0.4008125
sp Q5XIT1	Microtubule	6	12	0.0837378	-0.024678	0.1945325	0.40085
tr D3ZEL2	Similar to al	2	2	-0.168956	-1.244348	0.8533442	0.4017625
sp Q92455	Lon proteas	5	7	-0.10065	-0.363943	0.1470097	0.4019
sp P35465	Serine/thre	4	6	0.1004301	-0.1546	0.3566523	0.4021375
sp P32738	Choline O-a	3	8	0.0903417	-0.074316	0.2552003	0.4025625
tr D3ZUM0	Uncharacte	4	7	-0.114641	-0.498177	0.2709292	0.40265
tr B4F797	E RGD131134	2	3	0.116073	-0.279802	0.5047309	0.4039125
tr F1LR19	F Uncharacte	5	7	-0.107987	-0.471936	0.2230137	0.4039375
sp Q9ES53	Ubiquitin fu	3	5	0.0970399	-0.121368	0.3164602	0.4041125
tr D3ZPU7	Uncharacte	2	2	-0.116579	-0.534772	0.3049148	0.404275
sp Q5FVI6	V-type prot	6	10	0.0879143	-0.066291	0.2378233	0.4052
sp Q66HR2	Microtubule	5	6	-0.099655	-0.32932	0.1200381	0.4052125
tr D3ZD29	RCG60860 C	2	3	-0.105549	-0.418987	0.2251799	0.405675
tr D3ZWH1	Uncharacte	2	2	0.1003291	-0.6443	0.7286432	0.4059125
tr Q5XIA5	C Coenzyme A	1	2	0.1075915	-0.228708	0.4390169	0.406
tr B2RYQ2	Protein pho	5	8	-0.089369	-0.264263	0.0873684	0.4060375
sp P63041	Complexin-	4	4	0.1094692	-0.214228	0.4413488	0.406225
tr D3ZD06	Uncharacte	2	2	0.1513175	-0.567849	0.8717549	0.4064375
sp Q6DGG0	Peptidyl-pro	8	14	-0.080785	-0.175922	0.0130611	0.4073
tr D3ZYI0	D Uncharacte	3	7	0.107104	-0.21684	0.4535142	0.4074875
tr Q05BA4	Myadm pro	2	2	-0.125306	-0.651758	0.4224083	0.4079375
sp O08678	Serine/thre	2	2	0.1204279	-0.491887	0.7277126	0.4081
tr Q68FT7	C Phenylalany	4	7	-0.085865	-0.221352	0.0518054	0.4082125
tr D3ZEX2	I Uncharacte	1	2	0.1218507	-0.361119	0.603462	0.4084625
tr F1M9V3	Enolase (Fra	1	2	0.1703996	-0.814677	1.1103069	0.4085
tr D3ZJN9	I Uncharacte	2	2	0.1312858	-0.506206	0.7445789	0.4088125
tr D4A080	Uncharacte	5	6	-0.103882	-0.384619	0.1741179	0.4096375
tr D3ZPL1	I Uncharacte	1	2	-0.106797	-0.503579	0.3086579	0.4105
tr D3ZZ88	I Uncharacte	2	2	-0.141352	-0.997726	0.7646709	0.4109
tr D3ZI16	D COP9 (Cons	4	5	0.0905317	-0.1004	0.2727662	0.411475
sp B2GUZ1	Ubiquitin ca	1	2	-0.107463	-0.474967	0.2542565	0.4134625
sp Q6AYP7	Cytosolic 5'	2	2	-0.129826	-0.818482	0.5829479	0.4134875
tr D3ZMY7	RCG57686 C	3	5	-0.094022	-0.347843	0.1633949	0.4135625
sp P11883	Aldehyde de	2	3	-0.115684	-0.731656	0.5039026	0.413875
sp Q02769	Squalene sy	2	4	0.1122942	-0.323759	0.5465468	0.4143
tr Q71SY3	C Translin OS	2	2	0.0948311	-0.215808	0.3801649	0.414675
sp P47727	Carbonyl re	10	21	0.0860624	-0.070433	0.2436821	0.41505
sp Q2KMM	Trafficking p	1	2	-0.115001	-0.559425	0.3371721	0.416275
tr D3ZUI1	I APAF1 inter	3	3	-0.097511	-0.51669	0.3417229	0.4166625
tr D4A857	I Uncharacte	2	2	-0.09899	-0.451611	0.2276333	0.417025
tr F1LQQ1	Malic enzym	7	12	-0.086456	-0.24693	0.0650007	0.41745
tr D4A6M1	Uncharacte	7	14	0.0877197	-0.078448	0.2581935	0.4179875
sp Q6XVN8	Microtubule	2	5	0.0845825	-0.069491	0.2436032	0.4181875

tr E9PU39 I Uncharacte	5	10	0.0932693	-0.126503	0.3310634	0.419125
sp P48508  Glutamate--	2	6	0.0937892	-0.130955	0.3259623	0.42
sp B5DF89  Cullin-3 OS=	7	16	0.0827111	-0.041599	0.2045906	0.420075
tr F1M1T3  Uncharacte	2	5	0.0839102	-0.055896	0.2287964	0.4202375
tr Q498C9  RCG33491,	1	2	-0.098472	-0.453562	0.2734861	0.4206875
sp P62749  Hippocalcin	2	3	0.0878002	-0.101263	0.2772704	0.420775
tr D4A994  Similar to Kl	3	5	-0.093281	-0.328865	0.1472192	0.4210625
tr F1LP57 F Uncharacte	2	2	0.112133	-0.379406	0.5839477	0.421125
tr F1LPV8 F Uncharacte	5	7	-0.083434	-0.266659	0.1098852	0.4211625
tr F1LPR6 F Uncharacte	2	4	0.2306185	-1.488611	1.9389234	0.4212375
tr D3ZRK9 I Uncharacte	10	14	-0.083583	-0.213679	0.0450615	0.42125
sp P18422  Proteasome	4	5	-0.090921	-0.291178	0.109191	0.4214125
tr F1LMW6  Uncharacte	3	3	0.092304	-0.174724	0.3545575	0.4219625
sp Q6AYT0  Quinone ox	1	2	-0.146753	-0.962398	0.6427292	0.42205
tr F1LP82 F Uncharacte	4	8	0.088737	-0.091047	0.2676366	0.4229375
tr E9PU22 I Uncharacte	2	2	0.0971631	-0.274307	0.4658468	0.423175
tr D4A3N6  Uncharacte	2	2	0.1037405	-0.360727	0.5505281	0.4233
tr D3ZXP3 I Histone H2A	3	4	-0.107687	-0.613987	0.4442705	0.4234875
tr F1M3D1  Uncharacte	3	3	0.1413681	-0.625696	0.9273981	0.4235875
sp P86182  Coiled-coil c	2	2	-0.110882	-0.56875	0.3416677	0.425175
tr Q32KK0  Arylsulfatas	2	5	-0.085891	-0.26623	0.0865073	0.4253875
sp B5DFC9  Nidogen-2 C	19	32	0.0833446	-0.058428	0.2302326	0.425475
sp Q9JLH7  CDK5 regulat	2	2	0.1312196	-0.634062	0.9542154	0.4255
tr B5DEP7  RCG56468,	2	3	0.1025403	-0.237686	0.4501253	0.4257125
sp P32577  Tyrosine-pro	2	2	-0.134306	-0.933518	0.6569978	0.425725
tr B0BMS8  Myl9 protei	1	3	-0.150233	-1.157004	0.8806019	0.425825
tr E9PTV2 I Uncharacte	2	2	-0.108456	-0.714773	0.5095305	0.4258875
tr F1LPX3 F Uncharacte	1	2	0.090031	-0.132152	0.3207704	0.4262375
tr F1LNX5 F Uncharacte	2	3	-0.119793	-0.71791	0.5012557	0.42625
tr D3ZC84 I Ubiquitin ca	5	11	-0.088999	-0.276569	0.0878942	0.4265
tr F1LMA1  Uncharacte	13	19	0.081289	-0.041384	0.2076121	0.426575
tr D3ZME8  Uncharacte	5	13	0.0902849	-0.128867	0.3122038	0.4270375
tr D3Z9Y8 I Uncharacte	2	3	0.0971536	-0.197367	0.3936939	0.42825
tr D4A781  Uncharacte	9	13	-0.085162	-0.263613	0.093579	0.4283125
sp P15684  Amino-pepti	6	9	-0.089296	-0.294041	0.10994	0.4284875
sp P63086  Mitogen-ac	7	9	0.0820111	-0.046181	0.2183892	0.428575
sp Q35095  Neurochond	8	11	0.0835934	-0.104317	0.2561957	0.42875
tr F1LVF2 F Uncharacte	2	2	0.1115629	-0.527447	0.7453642	0.4287625
tr B0BMX3  S100 calciu	1	2	0.1065763	-0.331142	0.5333132	0.4289625
sp Q5XHZ0  Heat shock	5	9	0.0893835	-0.117962	0.2968827	0.4293375
sp Q62665  Galectin-8 C	1	2	-0.106185	-0.53252	0.3006275	0.42975
tr D3ZZR5 I Uncharacte	1	3	-0.098713	-0.507387	0.3377029	0.429825
tr F1LTN3 F Uncharacte	2	4	-0.125398	-0.684533	0.4281893	0.4306625
tr D3ZGS5 I Uncharacte	3	3	-0.113404	-0.656095	0.4235528	0.4308625
sp P47853  Biglycan OS	13	43	0.0889115	-0.143557	0.3163215	0.430925
tr D3ZC89 I Uncharacte	1	2	-0.105646	-0.52561	0.3132297	0.432275
tr F1LRV6 F GMP reduct	1	2	0.1048067	-0.399153	0.5987359	0.4335
tr B2GUZ3  Mthfd1l prc	2	2	0.0898447	-0.367984	0.4952212	0.43365
tr Q5RKJ4 C Farnesyltra	2	4	0.0934735	-0.193289	0.3896152	0.4337125
sp B5DEH2  Erlin-2 OS=f	1	2	-0.094082	-0.380559	0.1857005	0.4342125

sp P70615	Lamin-B1 O	11	22	-0.086279	-0.283703	0.1186185	0.4345875
tr Q5I0E7 C	Transmemb	2	2	-0.100052	-0.552269	0.3287978	0.4346625
sp Q63525	Nuclear mig	3	3	-0.090909	-0.327949	0.1359875	0.435275
sp Q63635	Syntaxin-6 C	1	2	-0.106627	-0.625553	0.4069357	0.435575
sp Q91XR8	Phospholipi	3	4	-0.092489	-0.526209	0.3611064	0.4364
tr B0BNB1	Commd1 pr	2	2	-0.109085	-0.676249	0.4693441	0.436475
sp P54311	Guanine nu	5	8	0.0864185	-0.133984	0.3002362	0.4370625
sp B0BN18	Prefoldin su	4	5	0.0820777	-0.066715	0.2281148	0.4376375
tr D3ZQM0	Splicing fact	2	2	-0.134596	-1.188379	0.8767369	0.4376375
tr D3ZNJ5 I	Similar to in	1	2	-0.099112	-0.443901	0.2189163	0.438475
sp Q5HZE4	Methylthior	7	8	0.0811949	-0.065403	0.2311918	0.4385375
tr D4AAM0	Uncharacte	2	3	-0.089323	-0.360355	0.1891821	0.4385375
tr D3ZAW4	Abhydrolase	1	2	-0.089357	-0.38065	0.2007599	0.4396875
sp Q3T1J1	Eukaryotic t	8	20	-0.08009	-0.21277	0.0533394	0.4398125
sp Q9Z2G8	Nucleosome	2	5	-0.08639	-0.284909	0.1175764	0.440025
tr Q7TSU1	Brefeldin A-	4	5	0.0911148	-0.201567	0.3926155	0.440775
sp P20651	Serine/thre	2	2	0.1122435	-0.351726	0.6101637	0.4408625
tr F1LNU7 I	Uncharacte	2	2	0.1153583	-0.592262	0.7924351	0.4433625
sp P47196	RAC-alpha s	1	2	0.0897554	-0.213373	0.3936143	0.443425
tr Q9QX80	CAR-G-bindir	4	8	-0.090407	-0.401559	0.2070835	0.4436375
tr D3ZFX4 I	Phosphoglu	4	5	0.0911036	-0.16595	0.3486829	0.4441625
sp Q9WVK7	Hydroxyacy	11	18	-0.079312	-0.213843	0.0561659	0.4444125
tr F1M4R4	Uncharacte	3	3	-0.09649	-0.513559	0.3396656	0.4444125
tr B5DFA2 I	Pik3r4 prote	2	2	-0.119187	-1.027654	0.8217407	0.4448625
sp P05371	Clusterin O	8	17	0.0800431	-0.0725	0.2310224	0.4455875
tr D4A304 I	RCG29222 C	1	2	0.099327	-0.382079	0.5538606	0.44625
tr B5DER3 I	Hypertroph	3	4	-0.079147	-0.301705	0.1415178	0.4463625
tr D3ZK15 I	Uncharacte	3	3	0.0991848	-0.379114	0.5855761	0.446375
tr F1M6G8	Peptidyl-pro	2	3	0.0896337	-0.179525	0.3753629	0.4465375
sp P62198	26S proteas	4	6	-0.083495	-0.269769	0.1014646	0.4467875
sp Q6AXS5	Plasminoge	2	3	-0.108577	-0.612278	0.3620562	0.44715
sp Q6AYT3	tRNA-splicir	6	10	-0.079088	-0.223692	0.0717268	0.4472875
tr D4ADF4	Uncharacte	2	2	0.0997243	-0.311347	0.5409958	0.447525
sp Q64057	Alpha-amin	9	17	-0.077272	-0.184118	0.0315073	0.447975
tr F1LNB0 F	Uncharacte	1	2	0.0897142	-0.221635	0.4116465	0.4483875
sp P68101	Eukaryotic t	4	5	-0.085647	-0.330929	0.1650368	0.449425
tr D3ZW08	Adenylosuc	3	4	0.088149	-0.157987	0.3387641	0.4496875
sp P46413	Glutathione	8	10	0.0784102	-0.082975	0.2348013	0.4517875
tr F1M9H8	Uncharacte	2	2	0.0969762	-0.784322	0.9188223	0.4519
sp P61023	Calcium-bin	2	2	0.0796514	-0.420993	0.5606114	0.4520625
sp P07687	Epoxide hyc	4	5	-0.082933	-0.33216	0.1753891	0.4522
tr Q7TPI8 C	Ac2-256 OS	2	3	-0.155993	-1.064097	0.6953628	0.4524
tr E9PSW5	Uncharacte	2	2	0.1318784	-0.830239	1.1392231	0.452475
sp P29147	D-beta-hydr	2	2	-0.103129	-0.770637	0.5643594	0.4526125
tr B2GV75	D2hgdh pro	3	3	-0.109335	-0.5999	0.361044	0.452775
sp Q5BJP3	Ubiquitin-fc	3	6	-0.084969	-0.316121	0.1304754	0.45295
tr Q45QN0	Guanine nu	7	11	0.0789097	-0.06084	0.225183	0.453075
sp P17220	Proteasome	3	6	-0.082457	-0.298151	0.1346583	0.4531
sp Q4V8E4	Coiled-coil c	3	4	-0.079175	-0.353295	0.2298221	0.4531625
sp Q7TT49	Serine/thre	2	2	-0.096485	-0.606397	0.4049697	0.45325

sp P04182	Ornithine al	3	7	0.0861013	-0.192057	0.3471601	0.453525
tr D4A1D3	Uncharacte	2	2	0.1740746	-1.597109	1.9787152	0.4547375
tr D3ZGX7	Uncharacte	2	3	-0.083957	-0.377382	0.2102774	0.454775
tr F1LUM6	Uncharacte	3	4	-0.089339	-0.492178	0.3198749	0.4558125
tr Q6P685	Eukaryotic t	3	3	0.0907716	-0.316447	0.5075834	0.456925
tr D4A492	Uncharacte	3	7	0.0798913	-0.085502	0.2482052	0.457
tr F1LXL7	F Uncharacte	1	3	-0.088904	-0.485071	0.3023606	0.45735
sp Q6P9U8	Eukaryotic t	3	3	-0.085982	-0.379659	0.2047687	0.4575625
sp Q3T1I4	Protein PRR	2	3	-0.086879	-0.419337	0.2610475	0.457825
sp Q3KRD8	Eukaryotic t	1	2	-0.086175	-0.372773	0.2036194	0.4580875
sp Q499N5	Acyl-CoA sy	3	3	-0.082157	-0.305057	0.1431086	0.4589375
tr D3ZFF9	I Uncharacte	1	2	0.1055401	-0.443684	0.6771941	0.4589625
tr D3ZS68	I Uncharacte	6	12	-0.077576	-0.206905	0.0488119	0.459025
sp Q5PQN7	Protein LZIC	4	4	0.0862636	-0.225705	0.4015238	0.4592375
tr F2Z3S1	F Uncharacte	1	2	0.1021637	-0.827103	1.0617506	0.4595
tr D3ZGK8	Uncharacte	2	2	-0.093771	-0.669889	0.4797747	0.460825
tr D3ZX68	I Uncharacte	2	3	0.0855629	-0.233141	0.4023739	0.46095
sp Q4KM62	Palmdelphiu	2	3	-0.077697	-0.278124	0.1391393	0.4619875
tr D4A818	C Polymerase	2	10	-0.075524	-0.219921	0.0700539	0.46225
tr D4AB17	Uncharacte	4	5	-0.083157	-0.395148	0.2327676	0.4626375
sp Q6AXX6	UPF0765 pr	3	7	0.0784335	-0.11737	0.276432	0.4627625
tr Q5XIN4	C Myotubular	3	3	-0.082086	-0.395441	0.2206411	0.46285
tr D3ZUM6	Uncharacte	2	3	-0.082479	-0.323754	0.1621528	0.4633375
tr B2GUZ9	Fam49b prc	3	3	0.094841	-0.284493	0.4829457	0.4646875
sp P84817	Mitochondr	2	6	0.0792426	-0.129554	0.2924725	0.464825
sp Q562C6	Leucine zip	1	2	0.1009906	-0.292384	0.5259608	0.46495
sp Q9Z269	Vesicle-assc	2	3	0.0784808	-0.135345	0.2938397	0.465175
sp Q923V4	F-box only p	2	2	-0.088898	-0.546932	0.3753589	0.4652
tr Q5M7T6	ATPase, H+	2	3	-0.078493	-0.265694	0.1133839	0.4658375
sp Q5U2N3	Membrane-	2	2	0.1113855	-0.756379	1.0270884	0.4658625
sp Q9Z339	Glutathione	4	8	-0.079808	-0.351552	0.1823053	0.466825
tr D3ZNQ6	Ubiquitin ca	7	7	0.0775332	-0.18811	0.3375218	0.466975
tr D4AA81	Uncharacte	2	3	0.0920605	-0.678925	0.8555215	0.467875
tr Q7TQ75	Uncharacte	1	2	0.0788198	-0.115289	0.2749412	0.4683875
tr D4A640	Proteasome	3	5	-0.076233	-0.33077	0.1873024	0.46875
tr D3ZVT2	I Uncharacte	2	2	0.1178057	-0.557453	0.8619112	0.468825
sp P12368	cAMP-depe	2	4	0.0786124	-0.22562	0.3790298	0.4691
tr F1LXS3	F Uncharacte	3	5	0.0783943	-0.167554	0.3244232	0.469125
tr Q6TXH8	LRRGT0002	1	5	-0.078512	-0.305846	0.1384756	0.46925
sp O88994	MOSC domi	2	4	-0.080687	-0.316878	0.1546643	0.4707125
sp O35964	Endophilin-	4	4	0.0780149	-0.235291	0.3731718	0.4709375
sp Q9QZ86	Nucleolar p	3	3	-0.080786	-0.4903	0.3297613	0.4715625
tr F1M7S4	Uncharacte	13	23	-0.07823	-0.308322	0.1623619	0.4721
sp Q6P686	Osteoclast-	7	10	0.0747211	-0.133455	0.2754556	0.4735375
tr D4AEC0	Histone H2A	2	9	0.0822292	-0.168643	0.3417646	0.4736875
sp P48199	C-reactive p	3	5	-0.082752	-0.451202	0.3049747	0.4737375
tr D3ZNL2	I Thymopoiet	3	3	-0.082837	-0.506943	0.3395706	0.47385
tr D3ZUP5	RCG56448,	2	2	-0.074698	-0.441836	0.3203269	0.4741125
tr D3ZEA8	I Uncharacte	2	2	0.0869179	-0.449749	0.6265655	0.4745
tr D3ZAE5	I ATPase, Ca+	5	8	0.0752668	-0.102994	0.2569086	0.47465

sp P49744	Thrombosp	4	6	0.0799075	-0.299755	0.4403258	0.4753125
tr Q3B8R6	Alpha-2-gly	1	2	-0.080954	-0.667712	0.5307128	0.4754625
tr F1M0Y9	Uncharacte	1	2	0.0803568	-0.337128	0.5035188	0.4755
sp P20762	Ig gamma-2	4	7	-0.08806	-0.714522	0.4957743	0.4756625
tr D3ZWL6	Adenosylho	2	3	0.0805665	-0.244091	0.4047594	0.4757625
tr Q505I9 C	Epsin 2 OS=	4	5	0.0731848	-0.134993	0.2790194	0.47585
sp Q00657	Chondroitin	13	16	0.0742423	-0.091803	0.2430387	0.4766625
tr F1LS57 F	Uncharacte	3	3	0.0775169	-0.283922	0.4334769	0.477325
sp Q920Q0	Paralemmir	10	18	0.0787006	-0.215122	0.3650358	0.4773875
tr F1LMJ9 F	Uncharacte	12	15	-0.07638	-0.237866	0.0736653	0.4777125
tr D3ZJ01 C	Similar to R	2	2	0.0775361	-0.407443	0.5513053	0.478
tr Q5XI19 C	Fermitin far	9	13	-0.07279	-0.16128	0.0138174	0.4783875
sp Q923S8	Pantothena	2	4	0.0811727	-0.196745	0.3675623	0.478625
tr F1LQJ7 F	Uncharacte	8	9	-0.074076	-0.201765	0.0593258	0.47865
tr F1LQ84 F	Uncharacte	6	11	-0.075087	-0.256402	0.1007964	0.478925
tr Q499P2	Leukotriene	11	19	-0.073073	-0.216573	0.0717791	0.4789625
tr E2RUH2	Ribonucleas	16	32	-0.072219	-0.146734	0.0037707	0.47925
sp Q5FVC2	Rho guanin	3	3	-0.080565	-0.500511	0.3325754	0.4794625
tr D3ZRE3 I	Uncharacte	2	2	-0.095725	-0.642356	0.404706	0.4803
tr B5DFH2	BPY2 intera	2	5	0.0731483	-0.275376	0.4143745	0.4806375
sp Q91V33	KH domain-	3	3	-0.077596	-0.348273	0.190285	0.481
tr D3ZD73	RCG58047 C	2	4	-0.073605	-0.479665	0.3351113	0.4813
tr D3ZGN7	Uncharacte	2	2	0.0750928	-0.633267	0.7553952	0.481325
sp P63004	Platelet-act	8	16	0.0717315	-0.064958	0.2078887	0.4814375
sp P56558	UDP-N-acet	3	3	0.0706585	-0.206738	0.3367645	0.48165
tr F1M5R5	Uncharacte	3	3	0.0774187	-0.198642	0.355002	0.4819
sp Q3MQ06	Autophagy	1	3	-0.080594	-0.594788	0.4380525	0.482
tr Q66HL0	5' nucleotid	3	9	-0.075404	-0.292329	0.1290996	0.4825125
tr Q68G11	Casein kina	2	3	0.1069158	-0.678629	1.0012321	0.4831125
tr E9PU28 I	Inosine-5'-n	4	5	-0.07565	-0.334021	0.1869505	0.483675
sp Q66H59	N-acetylne	2	3	-0.076186	-0.373385	0.2130132	0.4839875
tr B2RZB6 I	LSM8 homoc	1	2	-0.075372	-0.402373	0.2426184	0.48435
tr D3ZCF2 I	Uncharacte	1	2	-0.064092	-0.781478	0.7320484	0.484525
sp Q5XII9 F	Protein FAM	3	3	0.0739414	-0.170864	0.3183961	0.4847875
sp Q641X8	Eukaryotic t	5	5	-0.074808	-0.33306	0.1771609	0.4851
tr Q1KQ07	STAT6 OS=F	2	2	-0.077257	-0.326824	0.1545747	0.485425
sp P10959	Liver carbox	13	36	0.0746831	-0.192945	0.3410031	0.48575
tr F1LVL2 F	Uncharacte	2	4	0.0732719	-0.144127	0.2893987	0.4860625
tr D3ZC00 I	Uncharacte	2	2	-0.078055	-0.637162	0.47116	0.48635
tr D3ZNM9	Uncharacte	4	8	0.0748836	-0.108761	0.257705	0.486925
tr Q5RKH2	Galactokina	2	3	-0.07436	-0.297281	0.1582474	0.4869625
sp Q5FVK6	Coiled-coil	3	5	-0.071909	-0.333099	0.1910985	0.48745
tr F1LQ99 F	Uncharacte	2	5	-0.072046	-0.523436	0.3907214	0.488225
tr B3SVE9 I	Neuroprote	4	6	0.0850606	-0.204833	0.3893134	0.488375
tr F1LP08 F	Uncharacte	2	2	0.0771829	-0.151192	0.3159726	0.4885
sp Q63537	Synapsin-2	3	4	0.0749792	-0.221083	0.3558196	0.48893
sp Q5XIF4	Small ubiqu	1	2	-0.07326	-0.268044	0.1172152	0.48955
tr Q6P725	Desmin OS=	11	17	-0.077772	-0.591795	0.4436821	0.4895625
tr D3Z964 I	RCG61762,	5	5	-0.075216	-0.539711	0.3683572	0.48965
sp Q5EGY4	Synaptobre	4	6	0.0720772	-0.121119	0.2693963	0.4898875



sp P60901	Proteasome	5	7	-0.071474	-0.277682	0.128598	0.490225
sp P20759	Ig gamma-1	2	3	-0.059585	-0.717934	0.6387217	0.4902375
tr D3ZII8 D	Uncharacte	1	2	0.071456	-0.219705	0.3556495	0.4911625
tr Q88565 I	RAB5A, mer	2	3	0.0734986	-0.214686	0.3622208	0.4924
sp P19357	Solute carri	2	2	-0.071422	-0.459607	0.3054197	0.4926125
sp Q63524	Transmemb	1	3	-0.071731	-0.34326	0.1997644	0.4928
tr Q66H18	Synaptophy	2	3	0.0814101	-0.429625	0.6172135	0.4929
sp Q99ML5	Prenylcyste	2	3	-0.071955	-0.447362	0.3041803	0.4936375
tr D4A9K3	D-tyrosyl-tR	2	2	-0.082424	-0.497214	0.313535	0.494025
tr Q1RP74 I	RCG53953,	6	11	0.0708846	-0.066607	0.2137967	0.4941
sp Q99P74	Ras-related	1	2	-0.077347	-0.697062	0.515761	0.4942
sp Q5QJC9	BAG family	2	3	-0.076977	-0.381837	0.2095343	0.494475
tr D4AEI5 C	Uncharacte	2	3	0.0718466	-0.209064	0.3645834	0.4957875
sp P62959	Histidine tri	2	5	0.0721539	-0.040349	0.1877971	0.4961
sp Q6P0K8	Junction pla	4	7	-0.071803	-0.33301	0.1908794	0.496375
sp P97576	GrpE protei	2	3	0.0707396	-0.125914	0.2610143	0.496425
tr F1MA49	Uncharacte	2	2	-0.073765	-0.474812	0.3423971	0.496525
tr B1WC34	Protein kin	5	8	-0.070841	-0.199403	0.0605022	0.4968
tr Q6IMX8	Acyl-CoA th	6	8	0.0698537	-0.086975	0.2253007	0.496925
sp P06214	Delta-amin	2	2	-0.071349	-0.43455	0.2906467	0.4969375
tr Q4KM69	COP9 (Cons	3	5	0.0721889	-0.134037	0.2915789	0.498225
tr F1LUA1 I	Uncharacte	4	4	0.0763978	-0.114072	0.2826571	0.49825
sp Q9R1T5	Aspartoacyl	10	20	-0.069629	-0.218094	0.0767545	0.4983375
tr F1LRK0 F	Uncharacte	5	6	0.0710124	-0.151531	0.3038045	0.498625
tr D3ZWM5	Histone H2f	13	74	-0.070894	-0.248127	0.1143817	0.498775
tr B0BMY8	Histone H3	2	2	-0.067984	-0.544665	0.4329538	0.49965
tr D3ZDC1	Uncharacte	2	2	0.0700308	-0.548163	0.6484727	0.500675
tr F1LPH1 F	Uncharacte	6	6	-0.070837	-0.209874	0.0645731	0.5018
sp Q6DGG1	Abhydrolas	3	4	-0.070441	-0.221393	0.0762733	0.501925
tr D4ACM1	Uncharacte	2	2	-0.066541	-0.695666	0.5815545	0.5022625
tr F1LNG7 I	Uncharacte	2	3	0.0712466	-0.235676	0.3686871	0.5025375
tr D3ZRN3	Similar to c	1	7	-0.067889	-0.364533	0.2314042	0.502575
tr Q6AY58	B-cell recep	2	5	0.0661221	-0.10396	0.2320271	0.5027
sp Q6P7S1	Acid cerami	8	12	0.070825	-0.119477	0.2673084	0.502825
tr D4A4J7 C	Uncharacte	2	2	-0.07405	-0.428413	0.2598486	0.5029625
tr B0K010 I	Thioredoxin	2	6	-0.070025	-0.349222	0.1986028	0.502975
tr F1LYU4 F	Uncharacte	1	2	-0.061706	-0.894956	0.8163758	0.5031
tr Q6XDA1	Erythroid sp	2	2	0.0544997	-0.612037	0.6854558	0.5035625
sp Q792I0 I	Protein lin-	3	3	0.0697435	-0.224435	0.3697255	0.5037625
sp Q5EB77	Ras-related	3	3	0.0706058	-0.171972	0.3180619	0.5039875
tr Q5I0F0 C	Developme	4	5	-0.070548	-0.333387	0.1934721	0.5040625
sp P63170	Dynein light	2	10	0.0700001	-0.059447	0.1932547	0.504125
sp Q4G061	Eukaryotic t	2	2	0.0673309	-0.238549	0.3574027	0.504125
tr Q6MG85	1-acylglycer	1	2	0.0664937	-0.401356	0.5409358	0.504225
tr D3ZJF4 C	Uncharacte	7	12	-0.070156	-0.24004	0.0914128	0.5049125
tr D4A8A0	Uncharacte	5	5	-0.068387	-0.317413	0.1819185	0.505
sp Q08163	Adenylyl cy	13	34	-0.070841	-0.1321	-0.007284	0.5053625
tr D3ZSA9 I	Similar to pl	2	2	0.0706032	-0.627095	0.7796993	0.5055375
tr D4ABT3	RCG25673,	2	2	0.0692008	-0.334235	0.4547461	0.5063125
tr D3ZMS6	DNA-direct	3	4	0.0637216	-0.291476	0.425087	0.506375

tr D3Z8Y0 I Uncharacte	5	5	-0.066954	-0.377966	0.2329854	0.5067375
sp P97834  COP9 signal	4	4	-0.066943	-0.479634	0.3604005	0.5068875
sp O35274  Neurabin-2	2	2	-0.059545	-0.566447	0.4543971	0.5072375
sp Q6P6R2  Dihydrolipo	12	26	0.0700022	-0.039118	0.1813843	0.507475
sp B0BNM9 Glycolipid tr	2	2	-0.062527	-0.568982	0.4459206	0.507675
tr D3ZVI9 C Parkinson d	1	3	-0.066898	-0.256992	0.1279856	0.5077375
sp Q9QYJ4  ATP-binding	3	4	-0.072144	-0.426998	0.2796141	0.5083875
sp Q9ES40  PRA1 family	2	3	0.0664572	-0.436394	0.5813057	0.508525
tr D3ZN29  Histone H2E	2	2	0.0663776	-0.452767	0.5774819	0.5085875
tr F1LWH6  Uncharacte	4	4	-0.069288	-0.314627	0.1704287	0.5087125
sp Q9VWH8 Fibulin-5 OS	7	18	0.0674471	-0.264189	0.399625	0.5090875
sp P40329  Arginyl-tRN	12	18	-0.0691	-0.189259	0.0500935	0.5093
sp Q9ES54  Nuclear pro	1	2	-0.065093	-0.201359	0.0810927	0.51065
tr Q99MI5  Spermidine	2	4	-0.0671	-0.322223	0.1808215	0.511175
sp P02454  Collagen al	13	34	0.0697581	-0.189284	0.3368916	0.5113375
tr F1LV42 F Uncharacte	7	10	0.0671879	-0.179898	0.3064722	0.51165
tr D3ZVT5 I Uncharacte	6	8	0.0661039	-0.171309	0.3111642	0.511975
sp P18886  Carnitine O-	2	3	0.0687832	-0.174119	0.3157382	0.51205
tr B2RYJ7 B ARP1 actin-	2	8	-0.071118	-0.224406	0.0780707	0.51265
tr D3ZRE7 I SWAP comp	4	8	-0.06834	-0.21453	0.0788137	0.5131375
sp P16446  Phosphatidyl	6	9	-0.081659	-0.320395	0.1145968	0.513925
tr D4A8E3 I Uncharacte	2	3	0.061785	-0.266854	0.3896327	0.5139375
tr D3ZXF1 I Uncharacte	3	3	0.0670232	-0.181096	0.3140099	0.5149375
tr F1LPD0 F Uncharacte	13	48	-0.067511	-0.240086	0.0957479	0.5152875
sp P08733  Myosin regu	2	3	0.0207342	-1.987001	2.0759097	0.5167125
sp P14882  Propionyl-C	4	5	-0.064106	-0.297513	0.1710006	0.516875
tr D4A978 I Uncharacte	3	4	0.058918	-0.258314	0.3842626	0.5172
tr F1LS02 F Uncharacte	2	3	-0.071587	-0.413217	0.2442483	0.51765
tr F1LZX9 F Uncharacte	2	3	-0.058011	-0.437759	0.3209031	0.5180875
sp P08426  Cationic try	1	5	0.0666185	-0.199663	0.3414591	0.518875
sp Q5XHY7  Signal trans	3	3	0.0586689	-0.431372	0.5345085	0.519225
sp Q5I0D5  Phospholys	2	2	-0.05141	-1.091884	0.9348541	0.5192625
tr D4AC36  Uncharacte	2	3	-0.067738	-0.401351	0.2648001	0.5193
sp Q5FWT1 Protein FAM	1	2	0.0542607	-0.665908	0.7552641	0.5197
tr Q7TQN4  RELA OS=R	2	2	-0.063249	-0.375672	0.2416335	0.520525
tr F1M971  Uncharacte	2	3	0.0610269	-0.402044	0.5115373	0.5206
tr D3ZX42 I G protein-c	2	2	0.0572741	-0.326123	0.430284	0.5209875
sp P16970  ATP-binding	2	2	-0.044689	-0.471546	0.4206968	0.5215
tr Q6PDW1 40S ribosom	4	5	-0.065451	-0.300438	0.1702807	0.5215375
tr D3ZY46 I Engulfment	2	4	0.0676458	-0.140193	0.2844895	0.5216625
tr F1LQM9  Uncharacte	3	4	-0.061416	-0.373895	0.2602236	0.5216625
sp Q5XI72 I Eukaryotic t	6	13	0.0678783	-0.030207	0.1634779	0.522125
sp Q9Z1M9 Structural n	3	3	0.0632515	-0.203937	0.3318593	0.522275
tr B2RYJ3 B RGD156385	3	4	0.0611024	-0.29131	0.4075258	0.5223
tr Q68FT8 C RCG33981,	2	3	-0.057294	-0.476548	0.3672677	0.5223375
tr F1M260  Uncharacte	2	3	0.0566888	-0.360382	0.4754655	0.5224625
sp P61589  Transformir	8	25	0.0676388	-0.034059	0.165413	0.5225
sp Q6NX65  Programme	2	2	0.0603644	-0.271163	0.3907255	0.5225125
sp Q63644  Rho-associa	2	2	0.0655698	-0.299007	0.4395907	0.522525
tr O08769  Cyclin depe	2	2	0.0571735	-0.331151	0.4125844	0.5235125

tr D3ZTJ0 C Uncharacte	2	2	-0.042209	-0.703672	0.6559038	0.52375
sp Q9QZ76  Myoglobin (	6	14	-0.031506	-1.556129	1.4627013	0.52405
tr D4A3Q7  Uncharacte	13	22	-0.066592	-0.178443	0.0469186	0.524225
tr D3ZE32 I Uncharacte	11	36	0.0651486	-0.131008	0.266934	0.5248
tr D3ZRB0 I Uncharacte	1	2	0.0272309	-1.066747	1.10956	0.5252625
sp Q4V8C3  Echinoderm	2	5	0.0656747	-0.115574	0.2477951	0.5254
tr D3Z926 I Scavenger r	2	2	-0.060268	-0.373438	0.257578	0.5254375
tr D3ZBN0  RCG23067 (	8	13	-0.063961	-0.281905	0.1507857	0.5256
sp Q5U2Q3 Ester hydro	3	4	-0.054584	-0.488294	0.3691584	0.526475
sp P54921  Alpha-solub	5	9	0.0655119	-0.125012	0.2616342	0.526975
sp Q32PZ3  Protein unc	3	5	-0.060699	-0.31219	0.1952521	0.5270375
sp P01256  Calcitonin g	1	2	0.0559817	-0.380674	0.4901698	0.5277625
tr D3ZGX8  Uncharacte	1	2	-0.054334	-0.547311	0.4376911	0.528175
tr F1LN59 F Uncharacte	4	6	0.0653446	-0.14159	0.2747805	0.52935
tr F1M790  Uncharacte	3	3	-0.034803	-0.485986	0.4681292	0.5305625
sp Q08851  Syntaxin-5 (	1	2	0.0550937	-0.393514	0.5081988	0.5311
tr E9PT22 E Uncharacte	9	11	-0.061095	-0.273564	0.1561425	0.5313875
tr F1LQB5 F Microtubule	1	2	0.0565229	-0.254652	0.3557249	0.5315625
sp P09951  Synapsin-1 (	2	3	-0.052003	-0.435315	0.3531901	0.5317625
tr B5DFI3 B Adaptor pro	2	3	-0.043126	-0.605998	0.5234554	0.5329875
tr D3ZLM5  NHL repeat	1	2	-0.0551	-0.610776	0.4808577	0.5330875
tr Q32KJ5 C Glucosamin	1	2	0.0492851	-0.430246	0.533121	0.53345
sp P85515  Alpha-centr	5	11	0.0633347	-0.099227	0.2237933	0.533775
tr F1M7F8  Uncharacte	3	4	-0.055644	-0.406868	0.2997195	0.5339375
tr D4ACG2  IlvB (Bacteri	6	12	-0.054095	-0.395687	0.3039577	0.534125
tr F1LSZ0 F Uncharacte	3	5	-0.064197	-0.206097	0.0848549	0.5345125
sp P56574  Isocitrate de	15	34	-0.057423	-0.369835	0.2623479	0.53495
tr F1LRB8 F S-adenosylr	4	4	-0.060973	-0.283198	0.1606274	0.535325
sp Q9Z254  PDZ domain	2	3	0.0603723	-0.250347	0.384325	0.5353875
sp P07153  Dolichyl-dip	12	21	-0.066587	-0.173672	0.0394521	0.536025
sp Q08603  Geranylgera	1	2	0.0551885	-0.275807	0.3835661	0.53605
tr B4F7A3 F Hspc159 pro	1	2	0.0180695	-1.080348	1.1074718	0.5361125
tr B6DYQ9  Glutathione	4	6	0.0634239	-0.216643	0.366528	0.536375
tr D3ZDS8 I Uncharacte	1	2	-0.009192	-1.410057	1.278744	0.5363875
sp P20650  Protein pho	3	4	-0.061446	-0.316419	0.2045871	0.536475
tr Q6GMM8 Solute carri	8	15	0.0648407	-0.096718	0.23382	0.536575
tr D4ABA5  RCG35999,	3	4	-0.059476	-0.418663	0.2922877	0.5367625
tr F1M7R8  Uncharacte	3	4	-0.061405	-0.269792	0.1451658	0.5373125
sp O08839  Myc box-de	4	5	0.0582121	-0.199035	0.3117152	0.5377125
tr D3ZZ63 I Uncharacte	4	4	0.058123	-0.360826	0.4981524	0.5378375
sp Q9EQP5 Prolargin O'	22	100	0.0634508	-0.095259	0.2245617	0.537875
sp O08697  ADP-ribosyl	1	2	-0.057746	-0.300669	0.1911015	0.5385
tr F1M7P5  Uncharacte	2	2	-0.052054	-0.438465	0.3443484	0.538925
tr F1LWZ5  Uncharacte	2	3	0.0595339	-0.177608	0.3030587	0.5398125
tr Q5M9F7  ARP10 actin	5	6	-0.057786	-0.264926	0.1547895	0.5402875
sp Q6AYQ4 Transmemb	2	4	-0.053073	-0.338652	0.2503789	0.5403875
sp Q64654  Lanosterol :	2	2	0.0389253	-0.804263	0.9309415	0.540575
sp Q63610- Isoform 2 o'	2	3	0.0649341	-0.42431	0.5819472	0.5407
sp O08836  Immunoglo	2	2	0.0388865	-0.675291	0.7349593	0.5412125
tr F1MA65  Uncharacte	3	3	-0.057713	-0.303441	0.1821133	0.54165

sp Q64268	Heparin cof	5	7	-0.060366	-0.432974	0.2900043	0.5417375
tr D3ZDA1	Uncharacte	2	2	0.049921	-0.405888	0.4979673	0.54185
tr F1LTF8 F	Uncharacte	33	67	0.0626089	-0.09114	0.2151775	0.5432
tr F1M8H6	Uncharacte	2	2	0.0949152	-0.517233	0.9083297	0.5436875
tr D3ZVQ9	Uncharacte	1	2	0.0583564	-0.198469	0.3125389	0.5437125
tr F1LWL1 I	Uncharacte	2	2	-0.052149	-0.48368	0.3696194	0.5438125
sp P97608	5-oxoprolin	2	2	0.0227891	-0.912946	0.9957214	0.5443
tr D4AEG7	Uncharacte	3	4	0.057498	-0.179395	0.2968056	0.544575
tr E9PTJ4 E	Uncharacte	2	3	0.0465426	-0.442273	0.5277375	0.5449875
tr D3ZF26 I	Uncharacte	2	2	-0.043941	-0.465021	0.3961707	0.5451
sp Q6BBI8	Ubiquitin-fc	2	5	0.0574535	-0.126572	0.2390453	0.54575
tr F1M5Z4	Uncharacte	8	13	-0.062433	-0.207066	0.0808569	0.5458625
sp O88339	Epsin-1 OS=	2	5	-0.052786	-0.366421	0.2623492	0.5459375
tr F1LMB9	Uncharacte	3	3	0.0500537	-0.402631	0.5341226	0.5465375
tr F1LW74	Uncharacte	12	18	0.0627103	-0.061848	0.188249	0.546975
sp Q8VHK7	Hepatoma-c	4	5	-0.050786	-0.394467	0.3035463	0.547225
sp Q62894	Extracellula	11	16	-0.061383	-0.245926	0.1204768	0.5480125
sp Q8K1P9	Fatty acid d	1	2	0.0896341	-0.695422	1.0316747	0.5481375
sp A2VCX1	TIP41-like p	2	2	0.0368183	-0.66666	0.7552685	0.5484
tr Q3ZB97 I	Adaptor-rel	14	21	-0.063669	-0.159279	0.0363895	0.5488875
tr F1M7G3	Ubiquitin ca	2	5	-0.056708	-0.249371	0.1471559	0.549275
sp Q6MG55	Abhydrolas	3	6	0.0202205	-0.510145	0.5050119	0.549675
sp Q9JI92 S	Syntenin-1 (	2	2	0.0465695	-0.426203	0.5353714	0.5503375
tr D3ZDQ6	Uncharacte	2	2	0.0523932	-0.273101	0.379777	0.550475
sp Q641Y8	ATP-depend	9	13	-0.062545	-0.1806	0.0552839	0.5506625
tr D3ZI03 D	Uncharacte	1	3	-0.046764	-0.400912	0.3160542	0.5508125
sp Q35796	Complemer	6	14	0.0628669	-0.096383	0.2281903	0.551
sp Q08850	Syntaxin-4 (	2	2	0.047493	-0.314537	0.4095767	0.551275
sp Q9Z1Z9	PDZ and LIM	5	8	0.0276899	-0.674081	0.7532144	0.5513
tr Q6P503 I	ATPase, H+	2	3	-0.005863	-0.712182	0.7830977	0.5516125
tr B5DEX4 I	Uncharacte	2	2	-0.056653	-0.311607	0.2049808	0.5522
tr F1LRC0 F	Uncharacte	2	2	0.0377562	-0.553554	0.645826	0.55225
sp Q5I0D7	Xaa-Pro dip	7	9	-0.059344	-0.242933	0.127453	0.552725
tr D4A2D3	Uncharacte	2	2	0.0400675	-0.70839	0.8620317	0.55315
tr F1M8Z9	Uncharacte	1	2	0.0532973	-0.233207	0.3361647	0.5537
tr D3ZW55	Inosine triph	5	11	-0.06157	-0.179915	0.0636235	0.5548625
tr D3ZPM8	Uncharacte	1	2	-0.050331	-0.460037	0.3605676	0.555275
sp P08430	UDP-glucur	2	5	0.0238532	-0.540622	0.6000031	0.5579
sp A1L108	Actin-relate	3	6	0.0497025	-0.199662	0.2940998	0.5580375
sp Q9EQR2	Alkylidihydr	3	3	-0.042022	-0.473374	0.3742623	0.55825
sp P63029	Translation	7	14	0.0604116	-0.081905	0.203164	0.5587875
tr D4ADF9	Uncharacte	2	5	-0.044777	-0.378304	0.2944172	0.5592
sp Q5FWY5	AH receptor	3	5	-0.058497	-0.227272	0.1107126	0.5595
sp B1WC97	BTB/POZ dc	1	2	-0.041799	-0.496136	0.3780563	0.5595875
tr D4A3E8 I	Mitochondr	1	2	0.0414825	-0.323828	0.402518	0.5597875
sp O54924	Exocyst con	6	8	-0.05736	-0.217559	0.1069366	0.5598375
tr F1LMZ8 I	Uncharacte	4	7	0.0565434	-0.121576	0.2303551	0.560275
tr D3ZTR3 I	Uncharacte	2	7	0.0464927	-0.286505	0.3787898	0.560875
tr B0BMW7	O-sialoglycc	2	2	0.0143093	-0.921438	0.9645748	0.5610125
tr B2GV79	Pdxp protei	3	4	0.0570292	-0.131065	0.2499425	0.5614875

sp Q6AYH5	Dynactin su	16	27	0.0636533	-0.023408	0.1515994	0.561575
tr D3ZQ57	Plexin B2 O!	4	5	0.0532424	-0.288063	0.3929785	0.562275
tr D4AC12	Ankyrin rep	6	7	-0.044513	-0.407753	0.3161137	0.56245
tr D3ZCJ2 C	Uncharacte	1	3	0.0529392	-0.151193	0.2541495	0.5628625
tr F1LYK7 F	Uncharacte	6	12	0.0614708	-0.055929	0.1798295	0.5630125
sp Q5XIN6	LETM1 and	4	5	0.0586489	-0.142952	0.2738205	0.5635875
tr F1LP21 F	Uncharacte	1	2	0.0315485	-0.489411	0.5595762	0.5638875
tr D3ZSQ9	Uncharacte	5	6	-0.051351	-0.298657	0.1890536	0.5639125
tr F1LPS8 F	Uncharacte	7	10	-0.061722	-0.207321	0.0714405	0.5640875
sp P35572	Insulin-like	1	4	0.0563404	-0.139922	0.2631754	0.564625
sp Q9ERH3	WD repeat-	4	4	0.0367536	-0.332284	0.3923818	0.5652875
tr F1M651	Uncharacte	4	6	0.0499796	-0.205558	0.3000988	0.5654625
sp P0C0A1	Vacuolar pr	3	5	-0.047988	-0.296985	0.1989273	0.565775
sp Q5M827	Pirin OS=Ra	2	2	0.0241517	-0.690511	0.7477949	0.5659375
sp Q99MI7	NEDD8-acti	3	5	0.0578468	-0.083822	0.1980825	0.5664125
sp Q99PD4	Actin-relate	5	6	0.0600258	-0.059846	0.1814718	0.5665
tr F1LM66	Uncharacte	3	4	-0.040924	-0.439045	0.3501023	0.5665875
tr Q3B8N7	RCG21437,	2	3	0.0522452	-0.155795	0.2593213	0.5685875
sp O08629	Transcriptic	2	5	-0.039024	-0.309607	0.2592925	0.5686625
tr Q0ZFS8 C	RCG61099,	2	4	0.0466155	-0.241251	0.3336047	0.5689625
tr F1LTS7 F	Uncharacte	1	2	-0.029292	-0.456354	0.4074036	0.570075
tr D4AAK8	Uncharacte	1	2	-0.014639	-0.722911	0.6695202	0.5701625
tr B5DFK6 I	Adaptor-rel	6	10	0.0539583	-0.119515	0.230797	0.5705625
tr D3ZGY2 I	OTU domain	2	3	-0.047174	-0.335781	0.2422774	0.5707625
sp P04631	Protein S10	6	34	0.0513461	-0.173983	0.2855581	0.5721375
tr B1WC67	RCG29001 C	5	9	-0.04931	-0.292311	0.1997608	0.5728
sp Q63769	Sushi repea	4	9	-0.042354	-0.365517	0.2904082	0.5728125
tr D3ZBM3	Ferrochelate	2	3	-0.056251	-0.28541	0.1584133	0.5729625
tr D3ZJB1 C	Microfibrill	2	4	-0.04856	-0.33182	0.2241164	0.572975
tr F1LYY0 F	Uncharacte	2	3	-0.022323	-0.495751	0.4601309	0.5733875
tr F1LMA4	Uncharacte	1	2	-0.046157	-0.328753	0.2342246	0.574125
tr F1LRS2 F	Uncharacte	3	3	-0.042398	-0.37593	0.3030243	0.574425
tr Q566E2 C	Dnajc7 prot	3	4	0.0501757	-0.157376	0.2617937	0.574475
tr F1M7X3	Uncharacte	4	9	-0.047571	-0.329255	0.2370614	0.57525
sp Q9EPX0	Heat shock	3	3	0.0385997	-0.281024	0.3380799	0.57545
sp Q6AYA6	Uncharacte	1	2	-0.02241	-0.615482	0.5529076	0.576375
tr D3ZZU3 I	Uncharacte	2	2	0.0442792	-0.274508	0.3687617	0.5768
tr D3ZC40 I	Uncharacte	3	3	-0.042909	-0.37805	0.2962953	0.577
tr D4ACH3	Uncharacte	2	6	-0.048746	-0.279531	0.175572	0.5770125
tr Q4KLJ0 C	High mobili	3	7	0.045789	-0.20053	0.2863723	0.5792
tr D4A7D8	Uncharacte	3	3	0.024063	-0.43623	0.5120768	0.5798125
tr D4A1P3 I	RCG61051,	2	4	-0.060057	-0.180885	0.0590454	0.58
sp O35795	Ectonucleos	7	13	-0.057418	-0.194962	0.0764121	0.58055
tr D3ZCD4	Uncharacte	2	2	-0.031543	-0.503154	0.4381097	0.5808625
sp O08700	Vacuolar pr	1	2	-0.031406	-0.46845	0.3974519	0.5809125
sp Q566C7	Diphosphoi	1	2	-0.048733	-0.250025	0.1592718	0.5812125
tr D4AD70	Uncharacte	2	2	0.0035418	-0.786386	0.7564646	0.581425
tr D3ZD19 I	Extracellula	3	4	-0.039702	-0.374804	0.2770627	0.581475
tr F1LRZ4 F	Uncharacte	4	5	0.0443322	-0.22001	0.3040015	0.58165
tr D4A206 I	Uncharacte	2	3	0.0280272	-0.442143	0.5233275	0.5817875

sp Q5PPH0	Enolase-ph	4	9	-0.050859	-0.250252	0.1404523	0.5821
tr Q6QI16 C	LRRGT0019	3	5	0.0525792	-0.125013	0.2291359	0.5823875
tr D3ZYX5 I	Uncharacte	6	7	0.0444516	-0.204071	0.2817382	0.58265
tr D4A5T8 I	Periplakin (I	3	7	-0.053899	-0.215744	0.113869	0.582675
tr F1LM09	Ubiquitin ca	2	3	0.0316535	-0.361928	0.4036874	0.5827
sp P61794	Lysophosph	1	2	0.0454222	-0.212974	0.3016945	0.58345
sp P30835	6-phosphof	5	9	-0.050363	-0.249548	0.1498139	0.5843
sp Q68FW9	COP9 signal	3	4	-0.041328	-0.33198	0.2455836	0.584325
tr Q5RKI5 C	Flightless I f	2	2	0.0233919	-0.505508	0.5700479	0.5845375
sp P28073	Proteasome	1	3	0.0525818	-0.119652	0.2301841	0.58455
tr Q6AYR1	RCG52996,	2	5	0.0502579	-0.166305	0.2695685	0.5846125
tr B1H248 I	Uncharacte	2	2	0.0166473	-0.582127	0.639016	0.5850125
tr F1M0G3	Uncharacte	2	2	0.0221621	-0.462451	0.4886162	0.5852
sp Q80ZG1	Synembryon	3	4	0.0401064	-0.30033	0.3966692	0.5852375
tr F1LU97 F	Uncharacte	2	3	0.0211103	-0.511495	0.5614164	0.58525
sp P14173	Aromatic-L-	2	2	0.0477834	-0.23558	0.356256	0.5854125
tr F1LSX8 F	Uncharacte	3	3	0.0382986	-0.249831	0.3386487	0.58545
tr D4A9A3	Uncharacte	3	6	0.0389292	-0.31256	0.4014763	0.5854875
tr D4AD82	Uncharacte	3	3	-0.036629	-0.428153	0.3418332	0.5857375
tr D3Z9E1 I	Elastin micr	3	3	-0.006503	-0.7284	0.7098556	0.58595
tr E9PTI6 E	Uncharacte	4	4	-0.04579	-0.278741	0.1922611	0.5859625
sp Q66H15	Regulator o	2	2	-0.026258	-0.688967	0.6052491	0.586125
tr Q99PV2	Syntaxin bir	4	4	0.0417782	-0.27582	0.3597311	0.5863
sp P26342	Transformir	3	3	-0.041671	-0.305388	0.2266922	0.5866875
sp B2RZ37	Receptor ex	5	12	-0.054456	-0.205254	0.0973461	0.5878
tr F1MAB9	Uncharacte	3	4	-0.043741	-0.317704	0.2165761	0.5886625
tr D4A1H2	Similar to R	2	2	0.0330767	-0.370609	0.4076386	0.588725
tr Q5RJK5 C	Chromobox	1	2	-0.030417	-0.413437	0.3496616	0.5889125
tr D3ZBP4 I	Microtubul	4	4	0.0440778	-0.191979	0.2791808	0.5891375
sp Q80U96	Exportin-1 C	8	12	-0.054118	-0.207618	0.1027556	0.5893
tr D3ZYW2	Uncharacte	2	4	0.0438703	-0.195917	0.263652	0.5894375
sp P54313	Guanine nu	4	9	0.0574355	-0.061517	0.1734922	0.5902875
tr Q63910 I	Alpha globin	3	5	-0.007456	-0.618579	0.5741642	0.5903125
tr Q66H91	G protein-c	2	2	-0.008843	-0.627315	0.642934	0.590475
sp Q6MG49	Large prolin	2	2	0.0384766	-0.390783	0.5209646	0.590775
sp Q9ERU2	Zinc finger	1	3	0.032897	-0.340605	0.3798059	0.5907875
tr D4A2X4	Uncharacte	3	5	-0.041133	-0.296096	0.2148629	0.590875
tr D3ZA69 I	Uncharacte	2	3	0.0402113	-0.239778	0.3063977	0.591175
tr D3ZJ08 C	Histone H3	1	2	-0.007917	-0.699055	0.6546478	0.591675
sp Q923W4	Hepatoma-c	2	2	-0.020565	-0.562851	0.5541941	0.5922
tr F1LWF9	Uncharacte	21	37	0.0481559	-0.153626	0.2567509	0.59265
tr D4A2D7	Uncharacte	4	8	0.0478452	-0.156005	0.2627174	0.5931625
sp Q6AY63	ADP-sugar	3	3	-0.030549	-0.46341	0.4009108	0.593175
tr D3ZSW9	Uncharacte	2	2	0.0247398	-0.391608	0.4391068	0.5931875
sp O88506	STE20/SPS1	6	11	-0.045056	-0.269309	0.1887486	0.5938125
tr D4A0J1 C	Uncharacte	5	14	0.0532188	-0.107309	0.2087421	0.59425
tr D3ZW98	Uncharacte	7	12	0.0593987	-0.042712	0.159204	0.594875
tr Q6IRI3 Q	Protein kin	4	4	0.0373668	-0.262398	0.3276449	0.595
sp Q62881	Nucleolar p	2	3	0.0393491	-0.233491	0.3200169	0.5963625
tr Q4KLL7 C	Uncharacte	3	4	-0.007262	-0.471611	0.478029	0.5975625

tr F1M542	Uncharacte	1	2	-0.028448	-0.362667	0.3154573	0.5976
sp A0JPP1	Dr1-associa	2	3	-0.028756	-0.456385	0.4017399	0.5979625
sp P38062	Methionine	4	5	-0.04454	-0.274282	0.1795841	0.59875
tr B5DFG6	Car13 prote	1	3	0.0440823	-0.172965	0.2476169	0.5993125
tr D4AEK9	Uncharacte	3	4	-0.030638	-0.37758	0.3026132	0.599375
sp P39052	Dynammin-2	3	4	-0.035198	-0.312226	0.2562963	0.5996875
sp P50339	Chymase O!	10	24	-0.048199	-0.233924	0.1403563	0.60085
tr Q56R18	Karyopherin	2	4	-0.04189	-0.259153	0.1818752	0.600925
tr Q6AYS2	RCG24191 (	1	2	-0.037354	-0.312499	0.2407671	0.6013625
sp Q505J8	Phenylalany	2	2	0.0106175	-0.525185	0.5101187	0.6015875
tr D3ZZU1	Uncharacte	6	9	0.0504862	-0.10205	0.2052	0.603975
sp Q5XIU5	Proteasome	4	10	0.051015	-0.099166	0.2062631	0.604225
sp Q99N37	Rho GTPase	2	2	-0.0113	-0.567324	0.5289083	0.6044
tr F1LSP5	Uncharacte	2	2	-0.016287	-0.472824	0.4270443	0.6050125
sp P11348	Dihydropter	9	19	0.0615005	-0.009005	0.1293036	0.6052125
sp P35213	14-3-3 prot	5	5	0.0523486	-0.088761	0.187719	0.6061
sp Q5HZV9	Protein pho	8	14	-0.056885	-0.160168	0.0506267	0.6065625
tr D3ZUE2	Uncharacte	5	8	-0.044804	-0.252447	0.1591492	0.60685
sp P36365	Dimethylan	2	2	-0.001921	-0.625128	0.6371295	0.6069
sp P53987	Monocarbo	2	3	-0.042324	-0.261129	0.1819505	0.6080875
tr D3ZFY0	Selenophos	5	6	-0.049593	-0.2543	0.1389872	0.608775
tr Q498N3	Dctn4 prote	3	6	0.0356957	-0.231188	0.3047945	0.6087875
sp Q505J9	ATPase fam	1	2	0.0294611	-0.272252	0.3364245	0.6089625
sp P0C1X8	AP2-associa	9	13	0.0442267	-0.143944	0.2213595	0.6090625
sp Q497B0	Omega-ami	5	7	-0.038227	-0.301827	0.2208119	0.609075
sp P02651	Apolipoprot	19	32	0.0128717	-0.425272	0.4648378	0.6091125
tr D3ZWF5	RCG59696,	1	2	-0.035883	-0.288317	0.2158643	0.609275
sp Q63942	GTP-binding	3	4	0.0336382	-0.22297	0.2980017	0.6094625
sp Q27W01	RNA-binding	2	2	0.016658	-0.387856	0.3942128	0.6095
sp P41499	Tyrosine-pr	5	6	0.0483521	-0.150866	0.2532161	0.610125
sp P70483	Striatin OS=	4	4	-0.04666	-0.241263	0.1478626	0.6105875
sp Q64303	Serine/thre	7	10	0.054335	-0.065477	0.1726974	0.611
tr D4A5X8	S-adenosylt	1	2	-0.04279	-0.25401	0.1654921	0.611325
sp P37397	Calponin-3	12	20	-0.046945	-0.205627	0.1198513	0.6113625
sp Q60587	Trifunctiona	13	27	0.0503215	-0.105401	0.1979292	0.6125625
tr D3ZD98	Uncharacte	4	6	0.0451246	-0.134616	0.2285069	0.612575
tr D3ZER6	Uncharacte	2	3	0.0255154	-0.298526	0.3416699	0.6126125
tr D4A870	Uncharacte	2	2	-0.000157	-0.528294	0.5350514	0.613
sp Q02589	[Protein AD	3	4	-0.030537	-0.348874	0.296206	0.6130375
sp Q66H71	Calcineurin-	2	2	-0.016729	-0.494262	0.444015	0.6133
sp Q3KRD5	Mitochondr	3	5	0.0287699	-0.300869	0.3598985	0.613475
tr F1M164	Uncharacte	4	4	0.0094523	-0.494993	0.5373623	0.61395
tr D3ZWW7	Uncharacte	2	4	0.0271405	-0.268879	0.3136261	0.615
tr F1M095	Uncharacte	4	6	-0.041384	-0.242468	0.1631735	0.6158375
tr F1M6Z5	Uncharacte	5	7	-0.053559	-0.166025	0.0592274	0.6163
sp P70584	Short/branc	3	3	-0.029718	-0.427695	0.3633163	0.6164
sp Q99ND9	RWD domai	2	3	0.0385159	-0.197941	0.2730603	0.6165375
tr D3Z9J5	Uncharacte	2	2	-0.017333	-0.43947	0.3972844	0.6165875
tr Q6IN39	Hsd17b4 pr	8	11	-0.050832	-0.192418	0.0837353	0.6171625
sp Q03555-	Isoform 2 o	2	2	-0.033148	-0.35504	0.2721713	0.6179375

tr D3ZMI4 I	Uncharacte	5	11	0.0420199	-0.157933	0.2444718	0.6191375
tr D3ZP47 I	Phosphohis	2	3	-0.022069	-0.435126	0.3888361	0.6201
tr D4A899 I	Uncharacte	3	3	-0.02249	-0.324997	0.2985223	0.6201375
sp O55156	CAP-Gly doi	1	2	-0.012128	-0.392311	0.3569899	0.62165
sp Q66HA8	Heat shock	16	28	0.0476367	-0.111625	0.2063768	0.6218125
sp Q5XII0 E	Mammalian	2	3	-0.013676	-0.417515	0.3744775	0.6222875
sp Q8R424	STAM-bindi	3	3	-0.032337	-0.317452	0.2302377	0.6229125
sp Q5RK09	Eukaryotic t	2	3	-0.023156	-0.322779	0.2855239	0.623025
tr D4A4T0 I	STIP1 homo	4	5	0.0475525	-0.104515	0.1966463	0.623175
tr F1LTJ5 F	Uncharacte	14	35	0.0451263	-0.13063	0.2251082	0.6232625
sp O35889	Afadin OS=	5	5	0.0291566	-0.241243	0.3135796	0.6233625
sp Q9JHW0	Proteasome	2	2	-0.017974	-0.367612	0.3495082	0.6243125
sp Q9QVC8	Peptidyl-pro	4	4	-0.040967	-0.271845	0.1740188	0.6243375
tr Q68FQ9	LanC lantibi	2	3	0.0175407	-0.345618	0.3947147	0.6244
tr D3ZFD0 I	Uncharacte	6	8	0.032062	-0.213275	0.2852203	0.624625
sp Q02356	AMP deami	3	3	-0.001227	-0.377373	0.4437105	0.62495
sp P26453	Basigin OS=	3	5	0.0400131	-0.167126	0.2443687	0.6249875
sp P17764	Acetyl-CoA	9	23	0.0425612	-0.149581	0.2343603	0.6254375
sp Q63413	Spliceosom	4	6	-0.042318	-0.22358	0.1402223	0.62585
sp Q498E0	Thioredoxin	3	6	0.0441031	-0.128659	0.21925	0.6282625
tr D3ZZA2 I	Uncharacte	7	9	0.038342	-0.161823	0.2378112	0.628725
tr A9CMB7	Aspartyl-tR	4	6	-0.023883	-0.27392	0.2549944	0.629725
sp Q9Z1N4	3'(2'),5'-bis	4	6	-0.035115	-0.252574	0.1835757	0.6305375
sp P69682	Adaptin ear	3	4	0.0257453	-0.253443	0.2994677	0.6307125
tr F1LT49 F	Uncharacte	6	8	0.0394115	-0.145864	0.2240393	0.631425
sp Q5HZA6	Prolyl endo	1	2	0.0281098	-0.243179	0.3100471	0.6322875
tr D3Z8X1 I	Uncharacte	2	3	-0.025024	-0.279266	0.2464029	0.63265
tr D3ZQ25	Fibulin 1 (Pr	6	9	0.0460883	-0.110916	0.2062496	0.633475
sp Q4KM74	Vesicle-trafi	3	4	-0.034101	-0.265597	0.1935893	0.635475
tr D3ZJ46 C	Tumor prot	4	4	-0.02805	-0.422059	0.3052212	0.636375
tr D4A739 I	Catenin (Ca	7	11	-0.028868	-0.291563	0.2327548	0.6369
tr F1M7U1	Uncharacte	5	6	0.038263	-0.148676	0.2359804	0.6371875
sp P00388	NADPH--cyt	7	12	-0.043707	-0.191858	0.1077231	0.6372
sp P84083	ADP-ribosyl	2	3	-0.036212	-0.24126	0.1667183	0.6372625
tr A9UMW1	Glutathione	8	19	0.0441079	-0.11911	0.2042371	0.6381875
tr F1LN70 F	Uncharacte	1	2	0.0361446	-0.176251	0.2543323	0.6382375
sp P63331	Serine/thre	7	9	-0.051946	-0.156179	0.0551064	0.6383375
sp Q5U1Z2	Trafficking p	1	3	-0.039477	-0.221762	0.1401826	0.63945
tr D3ZIP3 C	Uncharacte	1	2	-0.017933	-0.341652	0.284929	0.639975
sp Q5XIT9 I	Methylcroto	3	4	0.0105114	-0.350449	0.3755813	0.6401625
sp Q4KMA2	UV excision	7	13	0.0517368	-0.049853	0.1508376	0.640375
tr D3ZM53	Uncharacte	9	17	-0.051086	-0.187224	0.075474	0.640575
sp Q9ER24	Ataxin-10 O	6	11	0.0434141	-0.107431	0.2010554	0.6407875
sp P43244	Matrin-3 OS	5	8	-0.034243	-0.234396	0.1674294	0.64125
tr D3ZBE5 I	NIMA (Nev	2	3	0.0387157	-0.140403	0.2126752	0.6417875
tr D3ZD97 I	DEAH (Asp	4	6	-0.035409	-0.243539	0.165322	0.6429375
tr D3ZQM5	Uncharacte	51	100	-0.028698	-0.260256	0.2097966	0.6446625
tr O88321 I	Antisecret	2	2	0.0097616	-0.375777	0.3951805	0.6465375
sp Q08602	Geranylger	3	3	0.0085505	-0.340808	0.355734	0.646625
tr D3ZKG1	RCG43751 C	4	4	0.0264028	-0.243482	0.3033974	0.647175



sp Q6AYK6	Calcyclin-bi	2	2	0.0241165	-0.233276	0.2725332	0.64785
tr D4AEH3	Proteasome	3	4	-0.019871	-0.384281	0.3251546	0.6478625
tr F1M9B2	Uncharacte	4	6	0.0278185	-0.212543	0.2599668	0.6482375
sp P00762	Anionic try	1	2	-0.030234	-0.260203	0.1983125	0.6491125
sp Q5U2N0	CTP synthas	3	4	-0.014012	-0.355614	0.3144755	0.6501375
tr D4ACX1	Uncharacte	2	3	-0.037777	-0.232666	0.1475873	0.6503375
sp B0BN85	Suppressor	4	5	-0.03237	-0.230109	0.1653261	0.6506625
tr B3Y9H3	S100 calciu	4	11	0.0539817	-0.034372	0.1445697	0.6518
tr F1LW12	Uncharacte	7	9	-0.030201	-0.239045	0.1789514	0.651875
sp Q68FX1	Mannose-6-	2	3	-0.019501	-0.279401	0.2463418	0.6520125
sp O35821	Myb-bindin	4	5	-0.01427	-0.315617	0.2948156	0.652425
tr F1LYE8 F	Uncharacte	10	19	-0.053793	-0.140062	0.0351047	0.6525125
sp Q80W92	Protein VAC	1	2	-0.009215	-0.341022	0.3247653	0.6529625
tr D4ABR8	Lysyl-tRNA :	4	7	-0.033097	-0.228368	0.1556345	0.653625
sp P61459	Pterin-4-alp	3	4	0.0332041	-0.20731	0.2775054	0.6549125
sp Q63135	Complemer	2	2	-0.005529	-0.388528	0.3973311	0.6550875
sp P63095	Guanine nu	6	10	0.0406922	-0.115055	0.2023481	0.6552375
tr F1M380	Uncharacte	2	3	0.0008928	-0.360514	0.3816301	0.6552625
sp P17955	Nuclear por	1	3	0.0050136	-0.395345	0.4269562	0.65535
sp P14659	Heat shock-	17	36	0.0371606	-0.1427	0.2110178	0.6553625
sp O88453	Scaffold att	2	4	-0.019028	-0.296565	0.2457017	0.6560625
sp P19468	Glutamate--	2	3	0.0197996	-0.242442	0.2698347	0.6579625
sp Q5PQT7	Pleckstrin h	3	3	0.0106394	-0.295243	0.3202267	0.658425
tr D3Z943 I	Uncharacte	3	5	-0.031467	-0.24423	0.1787623	0.6585
tr D4A493 I	Uncharacte	7	12	0.0388331	-0.112968	0.1967073	0.6611
tr D4A4L8 I	Similar to R	2	3	-0.022098	-0.262429	0.2293066	0.6612125
tr D3ZQL7 I	Similar to 2!	3	5	-0.023741	-0.279649	0.2302123	0.6617375
tr F1M6X5	Uncharacte	2	4	0.0307482	-0.180152	0.2567131	0.6621125
tr D4A4L4 I	Uncharacte	3	3	0.0107547	-0.320005	0.3556244	0.66275
tr D3ZVM5	Uncharacte	4	4	0.0149838	-0.25056	0.2759191	0.6635125
tr F1LW44	Uncharacte	3	4	-0.01541	-0.313205	0.2660704	0.663775
tr B4F7E8 E	Family with	7	11	-0.046137	-0.163171	0.0737751	0.66405
tr D3ZEU2	Uncharacte	3	4	0.0287188	-0.182019	0.2448967	0.6649875
sp Q6P4Z9	COP9 signal	2	2	-0.01322	-0.33316	0.316664	0.6662375
tr D3ZGP4	RCG39700,	5	10	0.0304505	-0.173128	0.22979	0.6668125
tr Q4G079	Small induc	4	9	-0.028238	-0.250485	0.1958553	0.6668625
sp P50554	4-aminobut	8	12	-0.019069	-0.264477	0.235477	0.6673875
sp P37805	Transgelin-3	4	5	0.032334	-0.149707	0.2204758	0.6676625
tr D3ZF54 I	Uncharacte	3	5	-0.009459	-0.319185	0.3112439	0.668175
sp Q9QX79	Fetuin-B OS	14	49	-0.005513	-0.319849	0.3143525	0.6681875
tr Q8CHN5	Epididymal	2	4	-0.021585	-0.249402	0.2076439	0.671175
tr Q6IN22 C	Cathepsin B	4	5	0.0287484	-0.171631	0.2405751	0.671575
sp P54645	5'-AMP-acti	2	3	0.0065007	-0.282879	0.292279	0.6742375
sp P42930	Heat shock	7	11	0.0409718	-0.096354	0.1817125	0.676275
sp Q5U2U2	Crk-like pro	4	4	-0.018345	-0.25146	0.220425	0.6763
sp Q562C9	1,2-dihydro	1	2	-0.009091	-0.304262	0.276462	0.67675
sp Q99PS8	Histidine-ric	14	36	0.0173188	-0.231771	0.2651107	0.6775875
sp P07632	Superoxide	7	37	-0.042869	-0.16979	0.0868106	0.6778625
sp P23928	Alpha-cryst	10	28	-0.027303	-0.223505	0.1739405	0.6783
sp Q4V7C6	GMP syntha	4	10	-0.031613	-0.207179	0.143807	0.6784125

tr D3ZLN0 I	Uncharacte	2	3	-0.004486	-0.313263	0.2994297	0.67845
tr D3Z995 I	Uncharacte	2	3	-0.007436	-0.287813	0.2702457	0.6811375
sp A2RUV9	Adipocyte e	5	7	0.0201902	-0.207373	0.2544162	0.6813
sp P36876	Serine/thre	5	6	0.0371898	-0.128772	0.2134259	0.68155
tr D4A7R0	Uncharacte	2	2	0.0084781	-0.277149	0.2742137	0.6823625
tr B0BNJ4 E	Ethylmaloni	3	5	-0.017784	-0.260997	0.2130073	0.683625
sp P17256	Mevalonate	2	3	-0.011587	-0.277691	0.2577006	0.684025
tr F1M949	Uncharacte	7	10	0.0282924	-0.151963	0.2018519	0.6849875
tr F2Z3T7 F	Uncharacte	3	4	0.0018332	-0.293894	0.2891619	0.685175
tr Q5XIL4 C	Sorbin and	5	8	0.0353092	-0.124621	0.1964043	0.6853125
tr F1MAP9	Uncharacte	8	10	0.034637	-0.127477	0.2115522	0.685325
tr F1LM67	Uncharacte	3	3	0.0011657	-0.356072	0.3657675	0.685325
sp P21913	Succinate d	3	7	0.0205826	-0.193602	0.2358304	0.686225
sp O35094	Mitochondr	4	7	0.0033775	-0.286019	0.2922572	0.6871875
sp Q8CFN2	Cell division	1	5	-0.019004	-0.229842	0.2021902	0.687325
tr Q5U2S7	Proteasome	5	7	0.0277786	-0.15844	0.2208595	0.68825
sp P62828	GTP-binding	5	7	-0.036311	-0.177069	0.105818	0.6887
tr F1LR50 F	Uncharacte	1	4	0.0073839	-0.261898	0.2845131	0.6892
tr D3ZHX7	Microtubul	2	3	-0.019919	-0.233446	0.1960686	0.6904
sp Q3B8Q1	Nucleolar R	3	6	-0.006347	-0.265616	0.2598808	0.6911875
sp O88637	Ethanolami	1	2	-0.001581	-0.27761	0.2899843	0.691275
tr D3ZD89 I	Uncharacte	4	6	0.0077362	-0.249213	0.270028	0.69175
sp P35467	Protein S10	2	3	0.011295	-0.233491	0.2513203	0.6919
tr Q5U3Z7	Serine hydr	4	6	0.0047641	-0.266717	0.276484	0.69205
sp P09495	Tropomyosi	4	12	-0.046898	-0.143676	0.0520009	0.6922875
sp Q63429	Polyubiquiti	7	28	0.0470041	-0.055946	0.1460049	0.6923625
tr F1LSQ6 F	Proteasome	9	19	-0.050497	-0.134589	0.0343322	0.692825
sp P08503	Medium-ch	2	2	0.0104451	-0.264493	0.2798582	0.6933625
sp P60123	RuvB-like 1	3	3	-0.014726	-0.241039	0.2111899	0.694
sp Q9JHL4~	Isoform 4 o	7	9	-0.0162	-0.247996	0.2128917	0.69405
sp Q9JJ50 F	Hepatocyte	4	5	0.0198207	-0.22264	0.2649775	0.6941125
sp Q9Z270	Vesicle-assc	5	6	-0.017856	-0.226195	0.1950689	0.69435
sp Q62636	Ras-related	4	4	-0.011872	-0.313145	0.2569839	0.69615
sp P18614	Integrin alp	4	4	-0.010176	-0.279424	0.2520514	0.697
tr F1LPF5 F	Uncharacte	9	19	0.0347042	-0.117039	0.1789797	0.6976125
tr D3ZK62 I	Uncharacte	4	6	-0.022586	-0.213704	0.1746182	0.6976625
tr B2RYP5 E	Protein pho	4	6	-0.020242	-0.209771	0.1796772	0.6986875
sp P11915	Non-specifi	3	5	-0.008873	-0.251551	0.2434218	0.6993375
sp P97532	3-mercapto	4	5	-0.034771	-0.173939	0.1018403	0.7027625
tr Q4QR73	DnaJ (Hsp4	4	6	-0.018343	-0.225085	0.1748215	0.7035
sp Q4KM73	UMP-CMP k	6	11	0.0424665	-0.072032	0.1551538	0.7041125
sp P17988	Sulfotransfe	5	15	0.0187135	-0.190067	0.2271164	0.7044375
tr D3ZKG7	Inositol poly	1	2	-0.031275	-0.219714	0.154184	0.7051625
sp P61149	Heparin-bin	4	5	0.0233728	-0.161617	0.2092604	0.7060625
tr D3ZU44	Uncharacte	2	2	0.0270205	-0.144077	0.1960824	0.7077875
tr D4A746 I	GDP-mann	2	3	-0.003885	-0.258126	0.241507	0.7079
sp P26376	Interferon-i	1	2	0.0003914	-0.265052	0.2677034	0.70955
tr Q499R7 I	Ppa1 protei	3	4	-0.01787	-0.236016	0.1887537	0.7109125
tr D3ZT90 I	Glutaryl-Co	4	7	0.0205419	-0.168262	0.2123704	0.7112
sp Q62733	Lamina-assc	2	6	0.0309815	-0.114667	0.1801815	0.712

sp O35854	Branched-cl	4	6	-0.040056	-0.153965	0.0758348	0.712425
tr F1M1G5	Uncharacte	2	5	-0.029534	-0.193242	0.1253943	0.713625
tr Q5M949	Nipsnap ho	3	6	0.008735	-0.221745	0.2471846	0.713675
tr D4AEP0	Adenylosuc	6	10	0.0302908	-0.114395	0.1762564	0.7137625
tr Q4V8H5	Aspartyl am	10	16	-0.039365	-0.155582	0.0751421	0.7141875
tr D4A820	Cytochrome	12	18	0.0160887	-0.18242	0.2263162	0.715575
sp Q5FVQ4	Malectin O	5	6	0.0042381	-0.249052	0.2555971	0.7156125
sp Q66HG4	Aldose 1-ep	2	3	0.006376	-0.237831	0.2359614	0.716025
tr Q5M9H2	Acyl-Coenzy	9	17	0.0134263	-0.196438	0.2290396	0.717
sp Q9WV63	Kinesin-like	7	11	0.0219521	-0.159668	0.1994996	0.7175875
tr A1L1J8 A	RAB5B, mer	5	9	0.0297125	-0.115598	0.1768235	0.7181125
tr D3ZWS0	Similar to Pl	7	10	0.0214609	-0.157455	0.1999311	0.7181375
sp P53042	Serine/thre	4	5	0.0155849	-0.193553	0.2375385	0.719025
sp P51583	Multifunctio	5	6	0.0247705	-0.13417	0.184374	0.7196875
sp Q6AY84	Secernin-1 (	14	33	0.0053553	-0.230505	0.246617	0.72025
sp P55161	Nck-associa	5	7	0.0292254	-0.120315	0.1746374	0.7205125
tr Q5M963	Cytidine mc	3	8	-0.021602	-0.183945	0.1525043	0.72075
tr F1LQS4 F	Uncharacte	45	86	0.0272322	-0.12977	0.184176	0.7208375
tr D3ZE45 I	Uncharacte	10	12	-0.034206	-0.163948	0.0995586	0.7212125
sp P37996	ADP-ribosyl	5	10	-0.024037	-0.188336	0.1369715	0.7213
sp P24155	Thimet oligo	8	14	-0.034598	-0.156979	0.0950318	0.7213625
tr D3ZBS2 I	Uncharacte	12	35	-0.00345	-0.24385	0.2414903	0.72155
sp Q6P747	Heterochro	13	23	0.0366272	-0.089159	0.1676462	0.722175
sp Q9JJ19 I	Na(+)/H(+)	4	5	0.0207892	-0.151446	0.1954029	0.72245
sp Q4FZT9	26S proteas	11	15	-0.019	-0.202048	0.1712355	0.72255
sp Q9Z0V6	Thioredoxin	3	6	0.0253564	-0.137621	0.1957809	0.7228125
tr D4AB01	Histidine tri	4	9	-0.012052	-0.21401	0.1832162	0.7257875
sp Q5XI73 I	Rho GDP-di	11	33	0.0442288	-0.049039	0.1369159	0.727675
tr E9PU16 I	Uncharacte	5	9	-0.028897	-0.168933	0.1167356	0.729025
tr D4A137 I	Aldehyde de	3	6	-0.022632	-0.19169	0.1402309	0.7292375
tr Q5M964	Fumarate h	10	13	0.0374355	-0.081056	0.1506202	0.7297
tr D4ABS5 I	Uncharacte	2	4	-0.003415	-0.241234	0.2270393	0.72985
sp O54975	Xaa-Pro am	8	14	0.0326487	-0.100528	0.1624272	0.7302625
tr D4ACB0	Synuclein, g	10	45	-0.033916	-0.161165	0.0924351	0.7305625
tr Q5PQZ9	NADH dehy	2	3	-0.002927	-0.262234	0.2439266	0.7315875
sp B2RYW9	Fumarylac	2	3	0.0073696	-0.209316	0.2197487	0.73165
sp P68511	14-3-3 prot	6	10	0.0372341	-0.075225	0.1514803	0.7327125
sp Q4V8B0	Oxidation re	8	8	0.0182186	-0.155384	0.1923296	0.73275
sp P54319	Phospholip	3	6	0.0227621	-0.136647	0.1825801	0.7330625
tr F1LRT9 F	Uncharacte	3	5	-0.023307	-0.178151	0.135224	0.735025
tr F1M8L2	Uncharacte	5	10	-0.020456	-0.195951	0.1487311	0.7353
sp Q6PEC0	Bis(5'-nucle	3	5	0.0057922	-0.20214	0.2213516	0.7355875
sp P29266	3-hydroxyis	7	14	-0.034186	-0.152533	0.0855409	0.7355875
sp P09456	cAMP-depe	4	7	-0.007125	-0.215142	0.2037951	0.7369125
tr Q5U328	Nucleolin O	23	35	-0.031785	-0.165146	0.097758	0.737275
tr D3ZCA0 I	Proline synt	3	4	-0.017445	-0.189871	0.1509817	0.7376375
sp Q99JE6	1-phosphat	8	14	0.0167416	-0.153552	0.1899444	0.7394625
tr E9PTQ6 I	Uncharacte	3	3	-0.003924	-0.250879	0.2236298	0.7401875
sp Q6P7Q4	Lactoylgluta	8	21	0.0370788	-0.073315	0.1515389	0.7428125
sp P21775	3-ketoacyl-(	7	11	0.0138199	-0.165886	0.1989533	0.7429625

tr B5DFN4	Prefoldin 5	6	10	-0.013856	-0.198771	0.1728637	0.7440375
sp O55096	Dipeptidyl p	9	13	-0.029059	-0.159089	0.103752	0.744425
sp P62628	Dynein light	2	6	-0.023121	-0.170451	0.1305693	0.744475
tr F1M9V7	Uncharacte	10	16	0.0464956	-0.029195	0.1206281	0.744875
tr D3ZUB0	Reticulocal	3	4	0.0065566	-0.199925	0.2039743	0.744875
sp P38650	Cytoplasmic	30	51	0.0364741	-0.072289	0.1460157	0.7464125
sp P63018	Heat shock	24	74	0.0467755	-0.02878	0.1219015	0.7465875
tr E9PTS1 E	Uncharacte	10	14	-0.032109	-0.149717	0.0817034	0.7475375
sp P46844	Biliverdin re	10	18	0.0295775	-0.099715	0.1585139	0.7479375
sp P21670	Proteasome	3	7	-0.007718	-0.20079	0.1900983	0.7479875
sp Q63258	Integrin alp	9	17	0.0149399	-0.15897	0.1921591	0.748625
sp Q9ES21	Phosphatid	7	11	0.0205013	-0.136006	0.1818996	0.748675
sp Q68FU3	Electron tra	12	17	0.032292	-0.092635	0.1637281	0.75
tr F1MA29	Uncharacte	10	15	-0.003744	-0.211422	0.2027573	0.7504625
sp Q9WTV5	26S proteas	5	8	0.0264716	-0.111184	0.1678613	0.75095
tr D3Z9Q9	Uncharacte	4	6	-0.00027	-0.206225	0.2144414	0.751175
sp P13803	Electron tra	10	16	0.0236523	-0.131289	0.1808921	0.7516375
tr Q6P6U2	Proteasome	12	20	0.0303919	-0.093982	0.1627195	0.752025
tr Q5U302	Catenin (Ca	9	15	0.0287486	-0.094647	0.1550992	0.7533375
sp P23965	Enoyl-CoA c	9	16	0.0167871	-0.146754	0.1796584	0.7542125
sp P35704	Peroxi-redox	6	13	0.0397625	-0.055265	0.1358611	0.7544375
tr F1M167	Uncharacte	2	3	0.0058614	-0.186555	0.2019215	0.7546375
sp Q5XIE6 I	3-hydroxyis	3	6	-0.006541	-0.20105	0.1814975	0.759225
tr D4ADA8	Uncharacte	3	5	-0.001453	-0.207763	0.2067297	0.759275
sp P08082	Clathrin ligh	3	4	-0.034481	-0.159477	0.0773279	0.759275
tr E9PTA6 E	Uncharacte	5	7	-0.014523	-0.174511	0.1502326	0.7598125
sp O88761	26S proteas	9	11	-0.004624	-0.204991	0.1966912	0.7602625
sp P62775	Myotrophin	2	6	-0.013418	-0.177326	0.1588779	0.761675
tr B0BNM1	Apoa1bp pr	5	12	0.0214677	-0.126702	0.179025	0.7618375
tr F1LQ11 F	Uncharacte	7	11	0.0242155	-0.10895	0.1587578	0.7621625
sp B2GV06	Succinyl-Co	6	7	0.0055499	-0.187871	0.2051105	0.762225
tr E9PTL2 E	Uncharacte	7	10	0.0352491	-0.067826	0.13711	0.7628875
tr F1LYY6 F	Uncharacte	7	13	0.0150873	-0.145499	0.1783671	0.7629375
tr F1LV54 F	Uncharacte	7	8	-0.010632	-0.17842	0.1630661	0.76395
tr D3ZLA3 I	Copine III (F	8	11	0.0252917	-0.102477	0.1520949	0.76515
tr Q3MIE4	Uncharacte	19	55	0.0418469	-0.04004	0.1272577	0.76995
tr Q6AZ73 I	Pleckstrin h	2	7	-0.006675	-0.190913	0.1754394	0.7711875
tr Q5U2N2	Ubiquitin ca	8	10	-0.006585	-0.186245	0.1721146	0.7713125
tr D3ZVQ0	Ubiquitin ca	18	37	0.0327856	-0.076706	0.1377298	0.7718
sp Q02253	Methylmalc	15	32	0.0378233	-0.055076	0.1294616	0.7720375
tr D3ZFA6 I	Uncharacte	12	19	-0.015467	-0.170296	0.142198	0.773275
tr F1LRI5 F	Uncharacte	7	10	-0.007297	-0.179412	0.1674413	0.7752125
tr F1LMH5	Uncharacte	3	4	0.0091411	-0.157772	0.1842607	0.776275
sp Q63028	Alpha-addu	10	19	0.0371319	-0.056163	0.1288813	0.7770125
tr D3ZD23 I	ATP-binding	5	7	-0.020468	-0.154758	0.1160864	0.7785375
tr D4A6A7	RCG36779 (	3	7	5.495E-06	-0.18429	0.1947694	0.7787
tr B0BNK1	RCG32615,	7	12	0.018216	-0.122838	0.1643232	0.7808625
sp P13676	Acylamino- <i>o</i>	4	5	0.0027173	-0.181634	0.1857551	0.781575
sp P09527	Ras-related	8	13	0.0337337	-0.06463	0.1365169	0.7833875
sp Q920L2	Succinate de	11	14	0.0211845	-0.113118	0.1545849	0.7848125

tr F1M1Z5	Uncharacte	5	10	-0.031132	-0.131315	0.069443	0.7887625
tr D3ZWE4	Uncharacte	14	30	0.0206129	-0.110641	0.1509583	0.7895
sp Q62785	28 kDa heat	4	4	-0.010673	-0.170259	0.1419306	0.7897
sp P63036	DnaJ homol	4	7	0.0211688	-0.102823	0.1457814	0.7907
tr D3ZLC1	Uncharacte	11	13	0.0027514	-0.17581	0.1873828	0.7911625
sp Q5XIG8	Serine-threo	4	6	0.0043174	-0.157547	0.1730435	0.7946125
sp Q01986	Dual specifi	11	18	0.0336204	-0.054736	0.1252295	0.7978375
tr Q5U344	Txnrd1 prot	13	22	0.0357363	-0.048893	0.1195456	0.79875
sp P61206	ADP-ribosyl	5	13	-0.022844	-0.137843	0.0948822	0.800425
sp P62260	14-3-3 prot	17	42	-0.037686	-0.120469	0.0449216	0.8007
sp Q6PEC1	Tubulin-spe	6	12	-0.027582	-0.128127	0.0772632	0.8016375
sp Q4KM49	Tyrosyl-tRN	14	24	0.0401236	-0.031321	0.1146315	0.8016625
tr F2W8B0	Catechol-O-	7	11	-0.023556	-0.142789	0.0928111	0.8019
sp P13086	Succinyl-Co	9	14	0.0103398	-0.141332	0.1590222	0.802275
sp Q9JLZ1	Glutaredoxi	7	15	0.0107539	-0.138948	0.1554195	0.8040125
sp Q9QZA2	Programme	18	27	0.0473908	-0.006599	0.1016829	0.8045
tr E9PTY6	Uncharacte	1	3	-0.006489	-0.164012	0.1502572	0.805125
tr F1M0R2	Uncharacte	15	29	0.0145337	-0.120844	0.154015	0.805925
sp Q07266	Drebrin OS=	6	9	0.0110915	-0.132864	0.1533401	0.807425
sp O88989	Malate dehy	17	50	-0.026551	-0.135173	0.0783874	0.810075
sp P63039	60 kDa heat	29	66	0.0354654	-0.048118	0.1204167	0.811
tr Q5RJK6	Inositol poly	7	12	-0.009863	-0.15106	0.1298053	0.813575
tr Q6P9V6	Proteasome	3	7	0.0081398	-0.133309	0.1511225	0.813625
sp P10860	Glutamate c	18	32	-0.027131	-0.129994	0.0763582	0.8150375
tr Q8R3Z7	EH-domain	13	22	-0.020397	-0.138719	0.0996471	0.81585
tr D4A996	Uncharacte	15	19	-0.001309	-0.159511	0.1598704	0.818175
tr D3ZUY8	Adaptor prc	9	12	-0.006056	-0.152787	0.1387937	0.8182875
sp Q6JE36	Protein NDF	8	26	-0.001882	-0.155843	0.1585467	0.8184375
tr D3ZVB7	Osteoglycin	18	83	0.0043812	-0.146871	0.1565134	0.8194875
sp Q9R063	Peroxiredox	12	30	0.0349942	-0.049047	0.1167496	0.81955
sp P50137	Transketola	31	70	-0.042722	-0.106803	0.0220028	0.82075
sp P10111	Peptidyl-pro	11	49	0.037117	-0.040833	0.1133224	0.8215
sp Q5RK30	Ribosome n	6	7	-0.011484	-0.144524	0.1198467	0.8225625
sp P07335	Creatine kir	20	80	-0.027656	-0.12495	0.0677139	0.8229625
sp P11232	Thioredoxin	8	22	-0.005624	-0.152118	0.1391782	0.82435
sp Q9Z1B2	Glutathione	9	15	-0.017418	-0.131385	0.1030263	0.8244375
tr F1LMY2	Uncharacte	10	15	-0.031706	-0.120217	0.0559439	0.8248125
sp Q05982	Nucleoside	4	8	0.001632	-0.149007	0.157807	0.8255375
sp A0JPM9	Eukaryotic t	5	7	-0.007884	-0.141304	0.1304078	0.827175
tr F1M978	Uncharacte	7	13	-0.033986	-0.11296	0.0441185	0.8274375
sp P31000	Vimentin O'	31	100	0.0052029	-0.143914	0.1483461	0.828575
sp P21263	Nestin OS=F	36	58	-0.004297	-0.149798	0.1425756	0.8290875
sp P62076	Mitochondr	2	4	0.0085015	-0.126213	0.1424455	0.8300625
sp P07943	Aldose redu	23	72	0.0145285	-0.111231	0.1382069	0.8304375
sp Q6AY12	NADH-cyto	5	10	-0.002057	-0.153559	0.1438545	0.8311
tr Q6P2A5	Adenylate k	8	13	-0.01777	-0.133501	0.0996249	0.8313375
sp P84092	AP-2 compl	7	11	-0.02546	-0.117751	0.0738222	0.83145
sp Q07205	Eukaryotic t	7	12	0.0077924	-0.122046	0.1427698	0.8329
sp Q8VHF5	Citrate synt	12	27	0.0131662	-0.11271	0.1364664	0.8347375
tr F1M4A0	Uncharacte	8	14	-0.018293	-0.126773	0.0918545	0.8379875

sp O70196	Prolyl endo	9	18	-0.011293	-0.137806	0.113922	0.839375
tr F1M510	Uncharacte	10	21	0.0133519	-0.105537	0.1343239	0.8401
tr F1LSJ2 F:	Uncharacte	4	10	-0.003692	-0.147154	0.1396645	0.841225
sp Q7M767	Ubiquitin-cc	1	2	0.0212268	-0.08171	0.1291104	0.8422875
tr D4AC23	RCG55994,	14	25	0.0341435	-0.04025	0.1113727	0.8428375
sp P85845	Fascin OS=F	12	27	0.0120846	-0.110052	0.1336266	0.8436625
tr Q5XI34 C	Protein pho	14	28	0.0134569	-0.104905	0.1344818	0.84645
tr D4A4T2 I	Uncharacte	5	6	-0.000632	-0.136862	0.141485	0.8484375
tr D4A8G5	Uncharacte	23	56	0.0279267	-0.0588	0.1130745	0.8490875
sp O35987	NSFL1 cofac	7	12	0.0007388	-0.13311	0.1360208	0.850125
sp P63102	14-3-3 prot	12	29	0.0307048	-0.048381	0.1120563	0.8507625
tr B2RZA9 I	Ubiquitin c	6	11	-0.01239	-0.128573	0.1015195	0.8542375
tr D3ZTB5 I	Uncharacte	2	5	-0.003231	-0.132986	0.1319328	0.8548125
sp Q5M7U6	Actin-relate	7	10	0.0016297	-0.132721	0.1374952	0.8558
tr B2RZ27 F	SH3 domain	6	14	-0.012841	-0.128253	0.0977319	0.856675
sp P82995	Heat shock	22	50	-0.003722	-0.136529	0.1289014	0.8567625
sp P56571	ES1 protein	5	9	0.012193	-0.104079	0.1256955	0.8597375
tr Q6AYD3	Proliferatio	7	10	-0.017854	-0.119897	0.0797325	0.8613375
tr F1M779	Uncharacte	53	100	-0.001736	-0.133192	0.1300031	0.8621125
sp P50503	Hsc70-inter	14	26	-0.020364	-0.115609	0.0746201	0.864325
tr Q32PX6 I	Ras homolo	3	5	-0.001779	-0.123522	0.1303149	0.8653625
sp P20070	NADH-cytor	7	12	0.0082958	-0.102115	0.1244817	0.8720375
tr Q5XI77 C	Annexin A1	13	29	0.0298779	-0.041295	0.1022927	0.8750375
sp Q9ESS6	Basal cell ac	9	18	-0.024095	-0.102746	0.0558096	0.87995
sp P97536	Cullin-assoc	16	30	-0.007656	-0.118166	0.1049068	0.8799625
tr D4ACB8	Chaperonin	15	22	0.021376	-0.06361	0.1040078	0.8818375
tr F1M953	Uncharacte	20	34	0.0340034	-0.02693	0.0965	0.8831875
tr D3ZN29	Uncharacte	22	50	-0.022453	-0.104627	0.0624122	0.883975
tr Q6PDW4	Proteasome	5	10	-3.97E-05	-0.122358	0.1181937	0.8840625
sp P62994	Growth fact	7	11	-0.010001	-0.112833	0.0937313	0.8866625
sp O35567	Bifunctional	20	38	-0.02576	-0.101293	0.0500055	0.888375
tr Q6P7A4	Prosaposin	10	21	0.0017809	-0.115239	0.1180656	0.8886875
sp Q68FQ0	T-complex p	15	30	0.0284063	-0.043097	0.099254	0.8910875
tr F1LPR1 F	Uncharacte	5	10	0.0049622	-0.101552	0.1143923	0.8926875
sp P49134	Integrin bet	11	23	-0.024034	-0.099001	0.0492671	0.89475
sp Q07009	Calpain-2 c	15	33	0.0176928	-0.070309	0.1073471	0.8961375
tr D3ZUC9	Oxidative-st	7	16	0.0136227	-0.07525	0.1082611	0.8962
tr Q6IMZ3	Anxa6 prote	39	100	-0.03603	-0.091582	0.0212925	0.8995375
sp P25113	Phosphogly	6	21	-0.003684	-0.114219	0.1059526	0.9008625
sp O35814	Stress-induc	20	32	0.0245815	-0.04872	0.0976126	0.9055625
sp Q5I0D1	Glyoxalase (	17	37	0.0084638	-0.089944	0.1069602	0.9061125
tr Q5BJ93 C	Enolase OS-	18	55	-0.009402	-0.101759	0.0875427	0.907475
tr F1LRF0 F	Uncharacte	5	14	-0.003771	-0.107982	0.1008711	0.9075
sp Q6P502	T-complex p	22	48	0.0230046	-0.051181	0.0958568	0.909925
tr E9PTV3 F	Uncharacte	67	100	0.0320877	-0.024565	0.0909132	0.9127875
tr Q2IBC6 C	Caveolin OS	10	24	-0.007592	-0.099001	0.0792059	0.9256625
sp P28480	T-complex p	16	27	0.0147492	-0.063797	0.0891668	0.9272875
sp Q9EQS0	Transaldola	10	26	0.0027253	-0.08641	0.09705	0.9311125
sp Q07936	Annexin A2	27	100	-0.005787	-0.090217	0.0817437	0.9380625
tr Q5RKG9	Eukaryotic t	6	10	-0.00576	-0.089498	0.0755694	0.9411

sp Q5XIM9  T-complex r	22	42	-0.023478	-0.083977	0.0363464	0.9423
sp P26772  10 kDa heat	9	20	0.0083886	-0.066797	0.0844025	0.9521125
tr F2Z3Q8 I Uncharacte	16	24	0.0033861	-0.073707	0.0810471	0.9559625
tr Q3MHS9 Chaperonin	16	28	-0.011693	-0.076275	0.055584	0.96135
sp Q5U300  Ubiquitin-lil	24	52	-0.008365	-0.078282	0.0636602	0.9619875
sp P46462  Transitional	37	98	0.0185731	-0.038685	0.0763744	0.9644125
tr F1LRV4 F Uncharacte	24	46	0.0051284	-0.06557	0.0761574	0.964675

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Accession	Name	Peptides	Spectra	Mean Log <sub>2</sub> F	l-95% CI	u-95% CI	IFDR	gFDR
sp P14046	Alpha-1-inh	6	21	-1.829666	-2.303982	-1.363989	0	0
sp P04639	Apolipoprot	19	79	1.0935994	0.7078843	1.4909045	3.75E-05	1.875E-05
sp P02651	Apolipoprot	13	28	0.6212528	0.3183673	0.9272876	0.0010875	0.000375
sp P01048	T-kininogen	4	15	0.9572221	0.441356	1.4611147	0.001425	0.0006375
sp P10959	Liver carbo	13	45	0.5119437	0.2248347	0.8162295	0.00375	0.00126
sp P17475	Alpha-1-ant	22	100	0.4571214	0.1803036	0.744139	0.00565	0.0019917
sp P04276	Vitamin D-b	13	41	-0.400567	-0.655865	-0.156142	0.0070625	0.0027161
sp Q63416	Inter-alpha-	17	60	0.4608736	0.1546549	0.7671139	0.008225	0.0034047
sp Q6P0K8	Junction pla	2	4	0.6413457	0.1966689	1.0792338	0.008425	0.0039625
sp P23680	Serum amyl	1	4	0.5977992	0.1598969	1.0460213	0.009575	0.0045238
sp Q6IFW6	Keratin, typ	4	8	-0.647781	-1.1185	-0.188774	0.010325	0.0050511
sp Q8VIJ5	Bifunctiona	9	14	0.2707431	0.1040743	0.4350431	0.010425	0.005499
sp Q5BK48	Tetratricope	1	2	0.4019861	0.1319213	0.6861588	0.011125	0.0059317
sp P31232	Transgelin C	10	36	-0.372658	-0.618675	-0.122332	0.011175	0.0063063
sp P20759	Ig gamma-1	3	9	0.5092703	0.1307857	0.8781815	0.0124625	0.0067167
sp P19132	Ferritin hea	5	5	0.4196795	0.0895587	0.7599041	0.0152625	0.0072508
sp P22791	Hydroxyme	14	42	0.2412572	0.0884355	0.3903463	0.0155625	0.0077397
sp P02793	Ferritin ligh	2	4	0.4240837	0.092068	0.7412051	0.018	0.0083097
sp P02650	Apolipoprot	14	42	-0.221046	-0.359026	-0.080935	0.018625	0.0088526
sp P29457	Serpin H1 O	15	45	-0.183489	-0.29201	-0.070793	0.0228625	0.0095531
sp Q6P7A9	Lysosomal a	3	13	0.2507064	0.0712094	0.4262449	0.0232	0.010203
sp B0BNI5	Olfactomed	2	6	0.3337728	0.0749847	0.5970327	0.024075	0.0108335
sp Q64663	P2X purinoc	1	2	-0.511354	-0.959548	-0.073201	0.024275	0.0114179
sp P59649	FXD doma	2	8	0.2305232	0.0709286	0.391258	0.0248125	0.011976
sp P29411	GTP:AMP pl	10	31	0.1514029	0.069646	0.2308748	0.0257	0.012525
sp P12785	Fatty acid s	43	100	-0.162461	-0.255896	-0.071027	0.0258125	0.0130361
sp Q05175	Brain acid s	4	11	0.2290408	0.0723463	0.3933049	0.0261	0.0135199
sp P20760	Ig gamma-2	10	39	0.7361038	0.0478226	1.4208765	0.0273375	0.0140134
sp P48199	C-reactive p	3	12	0.5326985	0.049493	1.0202385	0.0275375	0.0144797
sp P18445	60S ribosom	7	18	-0.13897	-0.210961	-0.068347	0.0300625	0.0149992
sp Q1WIM3	Cell adhesic	10	35	0.2002995	0.0604837	0.3415325	0.0315875	0.0155343
sp P15651	Short-chain	6	10	-0.285946	-0.508325	-0.058561	0.0324375	0.0160625
sp P09895	60S ribosom	16	57	-0.125114	-0.182426	-0.067492	0.0327375	0.0165678
sp Q6AYK6	Calcyclin-bi	7	14	-0.167134	-0.271739	-0.063089	0.032775	0.0170445
sp P02764	Alpha-1-acid	4	8	0.3958068	0.03422	0.7538101	0.033025	0.0175011
sp Q03626	Murinoglob	10	17	-0.389139	-0.734908	-0.043599	0.0334125	0.0179431
sp Q66HD0	Endoplasmic	27	100	-0.129532	-0.195219	-0.063521	0.036225	0.0184372
sp Q9QX79	Fetuin-B OS	11	58	0.3934744	0.0328623	0.7505556	0.0367125	0.0189181
sp Q8VIF7	Selenium-bi	11	25	0.1997132	0.051742	0.3482625	0.038175	0.0194119
sp Q5XIS7	Ubiquitin-as	1	2	-0.569331	-1.171082	0.0213094	0.0397625	0.0199206
sp P04182	Ornithine a	7	23	0.2456269	0.0458217	0.4513139	0.04	0.0204104
sp P14669	Annexin A3	8	18	-0.265703	-0.487142	-0.037336	0.0414	0.0209101
sp P50442	Glycine ami	4	8	0.3799181	0.021084	0.7397815	0.0420125	0.0214009
sp O08984	Lamin-B rec	1	2	0.5775034	-0.043239	1.1799149	0.04705	0.0219838
sp Q5M7V8	Thyroid hor	3	5	-0.335588	-0.656868	-0.014553	0.049275	0.0225903



sp P97685	Neurofascin	4	8	0.3120471	0.0098755	0.628459	0.0512375	0.023213
sp P26051	CD44 antigen	3	5	-0.223558	-0.41111	-0.036984	0.0524625	0.0238354
sp P53534	Glycogen phosphorylase	27	100	0.1344837	0.0537532	0.2146928	0.0536	0.0244555
sp P02600	Myosin light chain 2	3	6	-1.194917	-2.798818	0.3861224	0.056475	0.0251089
sp P08932	T-kininogen	2	2	0.5112984	-0.066523	1.1061145	0.059	0.0257868
sp Q6AYC4	Macrophage scavenger receptor	14	57	0.3896452	-0.03983	0.8072281	0.0632625	0.0265216
sp Q68FQ7	RNA polymerase II	2	2	0.3587285	-0.033215	0.7609872	0.06885	0.0273356
sp P29266	3-hydroxyisovaleryl-CoA dehydrogenase	9	22	0.154214	0.0424031	0.2684553	0.0696625	0.0281342
sp Q9ESN0	Protein Nibbler	11	30	-0.15959	-0.286145	-0.034854	0.07225	0.0289512
sp P11167	Solute carrier family 12 member 1	4	19	-0.201318	-0.3874	-0.022345	0.073975	0.0297698
sp Q05820	Putative lysosomal alpha-mannosidase	3	12	0.27278	-0.012465	0.5633877	0.074775	0.0305734
sp B4F795	Choline transporter	8	22	0.1890318	0.021276	0.3586554	0.074925	0.0313515
sp Q9ESB5	N-terminal acetyltransferase	4	4	0.4457867	-0.107485	0.9934663	0.07665	0.0321325
sp Q6AYQ8	Fumarylacetoacetyl-CoA lyase	1	3	-0.266285	-0.569858	0.0287331	0.076975	0.0328926
sp P18418	Calreticulin	22	100	-0.127496	-0.209355	-0.045453	0.0771375	0.03363
sp P49186	Mitogen-activated protein kinase	1	3	0.4691822	-0.129728	1.0896963	0.078175	0.0343602
sp P07722	Myelin-associated glycoprotein	9	40	0.1633128	0.0288577	0.2995483	0.07905	0.035081
sp P07340	Sodium/potassium-ATPase	12	53	0.1401076	0.0375689	0.2405698	0.079975	0.0357937
sp P17425	Hydroxymethylglutaryl-CoA lyase	15	39	-0.130324	-0.216723	-0.044774	0.0816625	0.0365104
sp O88884	A-kinase anchoring protein	2	6	0.2303298	-0.008622	0.4683745	0.083475	0.0372329
sp P56536	Kinesin head	1	2	0.3478551	-0.067455	0.7543285	0.0852375	0.0379602
sp Q812D3	Peptidyl-prolyl isomerase	2	3	0.414849	-0.115502	0.9316602	0.0852625	0.0386662
sp A2RRU1	Glycogen synthase	8	19	0.1633954	0.0237209	0.3032865	0.085775	0.039359
sp P02770	Serum albumin	27	100	-0.231194	-0.475446	0.0066481	0.086425	0.0400411
sp Q6MG6C	N(G),N(G)-dimethylsphingosine	14	60	0.1016411	0.0559532	0.1487542	0.08655	0.0407055
sp Q8CHN6	Sphingosine	2	2	-0.405599	-0.949716	0.1374362	0.0865625	0.0413514
sp P36372	Antigen peptide	1	2	0.3296833	-0.0758	0.7228817	0.0883	0.0420035
sp P42346	Serine/threonine kinase	2	2	-0.547853	-1.325054	0.2012034	0.089375	0.0426524
sp Q3KRE0	ATPase family 1 member 1	2	2	-0.276765	-0.672893	0.089394	0.09025	0.0432956
sp Q9JJP9	Ubiquilin-1	5	14	0.341876	-0.068244	0.7607275	0.09035	0.043923
sp Q63797	Proteasome activator	8	24	-0.139574	-0.247888	-0.032479	0.0911	0.0445438
sp P30009	Myristoylated protein	4	15	-0.173899	-0.332429	-0.016381	0.0921	0.0451614
sp P09034	Argininosuccinate lyase	4	9	0.2609093	-0.03458	0.5692734	0.0925125	0.0457684
sp P02696	Retinol-binding protein	2	4	-0.241309	-0.503555	0.026573	0.09365	0.0463745
sp P62630	Elongation factor	13	73	-0.124632	-0.209004	-0.037332	0.0938875	0.0469684
sp P04462	Myosin-8 (F)	1	2	-1.093555	-2.996845	0.7708127	0.0943125	0.0475529
sp Q63198	Contactin-1	5	13	0.1900051	0.0031457	0.3765545	0.0955	0.0481377
sp Q3B8Q2	Eukaryotic initiation factor	2	5	-0.229579	-0.473299	0.0249118	0.0959	0.0487131
sp P62282	40S ribosomal protein	13	45	-0.128913	-0.221127	-0.034681	0.0963375	0.0492801
sp Q6AXR4	Beta-hexosaminidase	2	2	-0.289989	-0.621591	0.049069	0.097975	0.0498529
sp P05544	Serine protease	11	30	-0.450107	-1.067899	0.1504108	0.0981125	0.0504141
sp P25286	V-type proton ATPase	6	10	-0.197028	-0.397864	0.0060372	0.0990625	0.0509733
sp P18422	Proteasome activator	4	10	-0.199145	-0.406192	0.0032206	0.10275	0.0515616
sp Q9QUR2	Dynactin subunit	4	6	0.2772518	-0.055916	0.6045191	0.10365	0.0521469
sp Q91XR8	Phospholipase	2	6	0.3165456	-0.081076	0.7161532	0.1046125	0.0527299
sp Q9QYU1	Peroxisomal protein	2	8	-0.218652	-0.511226	0.0506145	0.1062625	0.0533181
sp Q68FQ2	Junctional adhesion molecule	2	6	0.222831	-0.02387	0.482096	0.107525	0.0539073

sp P20761	Ig gamma-2	6	20	-0.485933	-1.173021	0.2246113	0.1078	0.0544868
sp Q6MG06	Guanine nu	4	9	-0.198726	-0.409168	0.0188606	0.109175	0.0550686
sp P51647	Retinal deh	8	20	-0.232424	-0.503462	0.0477506	0.1097	0.0556437
sp Q05764	Beta-adduc	9	24	0.1360389	0.0252241	0.244039	0.1098375	0.0562082
sp Q6VV72	Eukaryotic t	2	5	-0.165622	-0.324712	-0.002331	0.111475	0.056778
sp Q64240	Protein AM	3	11	0.237882	-0.041597	0.5305335	0.111525	0.0573366
sp P20280	60S ribosom	7	39	-0.127518	-0.224618	-0.028239	0.11225	0.0578913
sp Q62764	DNA-bindin	1	3	-0.251551	-0.568632	0.0686342	0.11365	0.0584489
sp P40241	CD9 antiger	10	98	0.1399326	0.0187017	0.26171	0.1141125	0.059
sp Q5RKI1	Eukaryotic i	19	51	-0.112048	-0.184127	-0.0389	0.1142625	0.0595418
sp Q64122	Myosin regu	2	4	-0.40272	-0.946032	0.1671685	0.117025	0.0600999
sp P0C2X9	Delta-1-pyr	4	7	0.1967728	-0.027458	0.416968	0.11875	0.0606638
sp Q498E0	Thioredoxin	2	4	-0.200472	-0.42428	0.0224968	0.12115	0.0612399
sp P62747	Rho-related	2	5	0.1700563	-0.005427	0.3432581	0.1248125	0.0618396
sp Q71TY3	40S ribosom	4	12	-0.146478	-0.291697	-0.007069	0.125625	0.0624357
sp Q99MZ8	LIM and SH	8	13	-0.132646	-0.240617	-0.020461	0.1268875	0.0630325
sp O08730	Glycogenin-	5	8	0.1874478	-0.02615	0.3983013	0.126975	0.0636192
sp Q99MI7	NEDD8-acti	5	14	0.1663099	-0.015425	0.3363656	0.1312625	0.0642341
sp Q04931	FACT compl	2	2	-0.325886	-0.808282	0.1553216	0.13175	0.0648423
sp O08697	ADP-ribosyl	2	5	-0.220965	-0.510733	0.0613398	0.132375	0.0654453
sp Q9JJ22	Endoplasmic	2	2	0.2214801	-0.066373	0.5287536	0.1326375	0.0660399
sp P21807	Peripherin (	27	100	0.1385178	0.0109494	0.2650679	0.1331875	0.0666289
sp Q9WTT7	Basic leucin	2	2	-0.3226	-0.838472	0.1651689	0.133925	0.0672141
sp Q8VII6	Choline tran	7	30	0.1696084	-0.013084	0.3619073	0.1347	0.0677959
sp O08839	Myc box-de	8	15	-0.146817	-0.28812	-0.007966	0.1362375	0.0683809
sp P38659	Protein disu	19	46	-0.149087	-0.301017	0.0013884	0.1365875	0.0689589
sp P14604	Enoyl-CoA h	10	32	-0.112752	-0.189002	-0.033835	0.1367	0.0695282
sp P01257	Calcitonin C	1	4	-0.196582	-0.45842	0.0632893	0.13725	0.0700925
sp P13638	Sodium/pot	2	10	-0.169341	-0.353097	0.0210089	0.1379125	0.070653
sp P20762	Ig gamma-2	2	5	0.3779909	-0.188525	1.0136262	0.1383875	0.0712082
sp Q8VI04	L-asparagin	9	36	-0.131569	-0.250255	-0.012059	0.1396125	0.0717643
sp P20059	Hemopexin	19	73	-0.199716	-0.458805	0.0438366	0.1404125	0.0723179
sp Q6IFV4	Keratin, typ	5	9	-0.944695	-2.638223	0.777471	0.1405625	0.0728639
sp P01830	Thy-1 mem	3	12	0.1306354	0.0110943	0.247876	0.14135	0.0734074
sp O35550	Rab GTPase	2	4	0.3062216	-0.124455	0.7518752	0.142	0.0739475
sp P0C0A9	Small VCP/p	4	9	0.1843193	-0.042343	0.4082965	0.1431875	0.0744885
sp P50339	Chymase O'	3	10	0.3056216	-0.167411	0.7807984	0.1445875	0.0750319
sp P63095	Guanine nu	9	23	0.1566223	-0.017239	0.3273396	0.1464125	0.075581
sp P47819	Glial fibrillar	3	7	-0.258501	-0.634026	0.1163337	0.147825	0.0761324
sp P05545	Serine prote	10	31	-0.286254	-0.718482	0.1535208	0.148175	0.0766782
sp Q920D2	Dihydrofolate	1	2	-0.232761	-0.583758	0.1097411	0.149975	0.0772293
sp P62076	Mitochondr	3	8	-0.137008	-0.266821	-0.001053	0.1509875	0.0777798
sp Q5U1Z0	Rab3 GTPase	3	4	0.2938621	-0.166822	0.7411266	0.1510875	0.0783228
sp Q6MG49	Large prolin	1	2	0.2603467	-0.112447	0.6350623	0.151275	0.0788592
sp Q4G009	Malignant T	2	4	-0.162357	-0.347744	0.0295679	0.1521625	0.0793943
sp Q5BJP3	Ubiquitin-fc	3	9	-0.146121	-0.296927	0.00269	0.1532375	0.0799293
sp Q9EPA0	Dystrophin-	17	47	0.1250011	0.0088053	0.2439699	0.1600125	0.0805055

sp P15684  Aminopepti	2	5	-0.28152	-0.724852	0.1668224	0.160325	0.0810756
sp Q63425  Periaxin OS	30	100	0.1302093	-0.000165	0.2577055	0.1619125	0.0816489
sp P04646  60S ribosom	7	18	-0.11519	-0.208581	-0.021796	0.162225	0.0822164
sp P16884  Neurofilam	26	100	0.1569606	-0.022618	0.3433948	0.1622375	0.082776
sp Q62868  Rho-associa	2	2	0.337566	-0.234282	0.9689702	0.1640625	0.0833405
sp Q9Z0V6  Thioredoxin	5	20	-0.1242	-0.235492	-0.007959	0.1646125	0.0839009
sp A1A5P0  Cdc42 effec	2	2	0.3564138	-0.315729	1.0510821	0.1648125	0.0844551
sp Q62920  PDZ and LIM	3	6	-0.178923	-0.408961	0.053606	0.16495	0.0850027
sp Q8R4A1  ERO1-like p	4	10	-0.163965	-0.367928	0.0344179	0.1667875	0.0855553
sp P29418  ATP synthas	3	7	-0.119346	-0.223931	-0.013613	0.1688875	0.0861146
sp P56558  UDP-N-acet	2	2	-0.367957	-1.086959	0.4055029	0.17205	0.0866875
sp Q64244  ADP-ribosyl	1	3	-0.30388	-0.852999	0.2449586	0.1724375	0.0872554
sp P34058  Heat shock	26	100	-0.099365	-0.165512	-0.035643	0.1755125	0.087836
sp P07150  Annexin A1	12	38	-0.197099	-0.496666	0.0939444	0.1762	0.0884136
sp Q5M9G3  Caprin-1 OS	10	22	-0.1182	-0.224499	-0.010179	0.1764375	0.0889851
sp P62850  40S ribosom	8	24	-0.111383	-0.203045	-0.019149	0.177775	0.089558
sp P11517  Hemoglobir	3	24	0.3035635	-0.234488	0.8387367	0.178325	0.090127
sp Q66HR2  Microtubule	4	11	-0.150244	-0.338016	0.0328864	0.179325	0.0906951
sp O54975  Xaa-Pro am	10	19	0.1305809	-0.005156	0.2612221	0.1807375	0.091265
sp Q4VSI4  Ubiquitin ca	4	8	0.1889368	-0.08199	0.450839	0.1813875	0.0918318
sp P62864  40S ribosom	2	3	-0.594896	-1.825823	0.6348561	0.18195	0.0923951
sp Q62760  Mitochondr	2	3	0.1987344	-0.109488	0.4911028	0.18285	0.0929569
sp Q4V7E8  Leucine-rich	2	4	0.259095	-0.249013	0.7808769	0.184975	0.0935249
sp Q9JMB5  Proteasoma	4	5	0.2845271	-0.246781	0.7657769	0.1866	0.0940959
sp Q03344  ATPase inhi	3	7	0.1555316	-0.31529	0.4878983	0.1869125	0.0946619
sp P82808  Glucosamin	2	2	0.1859311	-0.138691	0.5098896	0.1869375	0.0952211
sp P47728  Calretinin O	9	18	0.1672455	-0.067021	0.3987823	0.188825	0.095785
sp P62738  Actin, aortic	7	18	-0.323327	-0.934738	0.2758175	0.190175	0.0963502
sp Q9Z0W7  Chloride int	6	18	-0.114015	-0.215947	-0.009444	0.1938125	0.0969304
sp P02625  Parvalbumin	5	13	0.2369886	-0.174242	0.6353407	0.1938375	0.0975038
sp Q5XHY5  Threonyl-tR	8	23	-0.119671	-0.240329	0.0012215	0.194825	0.0980763
sp A1A5P9  Melanoma-	1	3	0.3399893	-0.454987	1.1290025	0.1949625	0.0986428
sp P81795  Eukaryotic t	11	17	-0.116366	-0.225136	-0.007086	0.198225	0.0992218
sp Q4G075  Leukocyte e	4	7	-0.204534	-0.570619	0.0970254	0.1987375	0.099797
sp P01026  Complemer	38	100	-0.183753	-0.465877	0.1003563	0.2015375	0.1003818
sp Q03346  Mitochondr	2	3	-0.211362	-0.568509	0.1327765	0.2016875	0.1009606
sp P62853  40S ribosom	7	20	-0.114376	-0.228467	-0.003466	0.2026625	0.1015385
sp Q9QZA6  CD151 antiq	7	26	0.133633	-0.020674	0.3052247	0.2039625	0.1021172
sp Q0ZHH6  Atlastin-3 O	4	8	-0.158774	-0.377642	0.0586398	0.2041125	0.1026902
sp P20767  Ig lambda-2	3	12	0.2818814	-0.269584	0.8210293	0.2055375	0.1032647
sp P12369  cAMP-depe	4	9	-0.156071	-0.370115	0.0616575	0.2063	0.1038372
sp O55012  Phosphatidyl	3	5	-0.137827	-0.312169	0.0314863	0.206475	0.1044042
sp Q63862  Myosin-11 (	15	24	-0.272554	-0.792303	0.2644311	0.207925	0.104973
sp Q00566  Methyl-CpG	4	6	0.169568	-0.089917	0.430186	0.20935	0.1055434
sp P49088  Asparagine	6	10	-0.150603	-0.353004	0.0605908	0.209725	0.1061096
sp P16391  RT1 class I b	3	4	-0.25799	-0.852214	0.3457931	0.2105375	0.1066741
sp Q9Z1A5  NEDD8-acti	1	3	1.3741835	-2.797456	5.3310554	0.2107	0.1072333

sp Q9Z1N4	3'(2'),5'-bisphosphate	6	8	-0.128478	-0.28349	0.0254179	0.212275	0.1077951
sp Q64632	Integrin beta-1	37	100	0.0998489	0.0211571	0.1774181	0.21245	0.1083517
sp P30427	Plectin OS=	50	100	0.0961193	0.0270893	0.1665005	0.2143375	0.1089125
sp Q64268	Heparin cofactor II	1	3	0.2442926	-0.230722	0.7237044	0.2155125	0.1094736
sp Q6P6T4	Echinoderm cadherin-1	4	5	-0.154618	-0.378691	0.0784795	0.2160375	0.1100315
sp Q63622	Disks large homolog 1	3	4	0.3173299	-0.346919	1.0026025	0.2166	0.1105865
sp P31211	Corticosteroid 11-beta dehydrogenase	3	4	0.2530159	-0.381303	0.8554925	0.2172375	0.1111391
sp Q920G2	Na(+)/H(+) cotransporter 1	2	6	-0.174105	-0.443816	0.099185	0.217475	0.1116872
sp P24049	60S ribosomal protein L24	10	47	-0.108719	-0.216178	-0.00423	0.2174875	0.1122298
sp Q4KLP0	Probable 26S ribosomal protein L24	3	3	0.1875697	-0.153328	0.5394444	0.2189	0.112774
sp P35427	60S ribosomal protein L24	10	42	-0.114219	-0.234904	0.0059761	0.2195	0.1133158
sp O35179	Endophilin-1	8	20	0.1314813	-0.048551	0.2963126	0.221175	0.1138605
sp Q6AY72	UPF0449 protein family	1	2	-0.264398	-0.88898	0.3171704	0.22255	0.1144067
sp Q561R9	Beta-lactamase	2	4	-0.184594	-0.497215	0.130579	0.2235375	0.1149524
sp Q5XI31	GPI transmembrane protein	3	3	-0.225495	-0.719017	0.2389018	0.2242125	0.115496
sp Q9QXQ0	Alpha-actinin-1	20	53	-0.104695	-0.198763	-0.005739	0.225575	0.1160409
sp P09117	Fructose-bisphosphate aldolase B	15	65	0.0998012	0.0146394	0.1831443	0.226325	0.1165842
sp Q4V7A0	WD repeat domain	3	7	0.1528004	-0.075433	0.3808182	0.22635	0.1171222
sp Q9Z1P2	Alpha-actinin-1	10	15	-0.141097	-0.343034	0.0653088	0.2264125	0.1176554
sp Q641Z6	EH domain-containing protein	4	5	-0.143308	-0.347766	0.0536454	0.2271375	0.1181868
sp Q63364	E3 ubiquitin ligase	1	2	0.2976196	-0.478859	1.0875925	0.2287	0.1187207
sp P54921	Alpha-soluble	7	21	-0.108765	-0.215215	-0.004359	0.2292	0.1192519
sp P21588	5'-nucleotidyl transferase	2	2	0.3253827	-0.418673	1.1404199	0.2313375	0.1197882
sp Q6V7V2	Rhotekin OS=	9	11	0.1365655	-0.038885	0.3235298	0.2326125	0.1203254
sp Q5S6T3	2-C-methylcholine	1	4	-0.179972	-0.504273	0.1536174	0.2355	0.1208713
sp Q4KLL0	Transcription factor	2	6	-0.171077	-0.458813	0.1229134	0.235775	0.1214133
sp Q66HA8	Heat shock protein 70	22	68	-0.099463	-0.184766	-0.010056	0.23615	0.1219519
sp P26453	Basigin OS=	5	14	-0.110263	-0.225674	0.00847	0.2375625	0.1224922
sp Q5U312	Ankyrin repeat domain	2	3	0.2708711	-0.353364	0.8909215	0.2377875	0.1230284
sp P55051	Fatty acid-binding protein	4	14	0.1487753	-0.089853	0.3837319	0.2383875	0.1235625
sp Q62667	Major vault protein	14	33	-0.121063	-0.278238	0.0346267	0.2416	0.1241065
sp Q5PQL7	Integral membrane protein	1	2	0.4805324	-1.022157	1.9685314	0.241625	0.1246455
sp P43278	Histone H1.1	12	58	0.1140006	-0.022192	0.2472335	0.24285	0.1251853
sp Q9JI92	Syntenin-1	3	3	-0.168463	-0.462785	0.126936	0.2439625	0.1257252
sp Q5FVH2	Phospholipase	3	4	-0.152529	-0.41528	0.1072959	0.245675	0.1262679
sp Q6P734	Plasma protein	2	9	-0.196205	-0.596133	0.1791197	0.245975	0.1268072
sp Q5MPA9	Serine/threonine kinase	4	5	0.1833008	-0.164521	0.519598	0.246175	0.1273424
sp P86182	Coiled-coil domain	2	2	-0.327452	-1.259584	0.6009732	0.246375	0.1278738
sp P63055	Purkinje cell protein	5	23	0.1350821	-0.071072	0.3349656	0.247575	0.1284058
sp P70584	Short/branched chain	2	2	0.2651841	-0.354935	0.8795014	0.2484125	0.1289368
sp P63039	60 kDa heat shock	28	100	-0.093544	-0.166698	-0.020685	0.249575	0.1294683
sp O88339	Epsin-1 OS=	2	4	-0.195494	-0.614177	0.2282565	0.2499125	0.1299965
sp Q6P7S1	Acid ceramidase	10	32	0.1063888	-0.00434	0.2225696	0.2529875	0.1305336
sp Q6AYZ1	Tubulin alpha chain	1	2	0.1610045	-0.128689	0.4478001	0.2533875	0.1310678
sp Q5XIM4	ATP synthase	1	3	-0.149533	-0.402423	0.0977037	0.2555	0.1316064
sp Q5FVN1	Starch-binding domain	4	10	-0.135004	-0.343186	0.0611795	0.256425	0.1321445
sp P42930	Heat shock protein	12	53	-0.091845	-0.160914	-0.023587	0.2565875	0.1326785

sp Q6MG84  Epidermal g	3	5	-0.179882	-0.540994	0.1777243	0.2572375	0.1332108
sp P37397  Calponin-3	11	46	-0.105996	-0.222564	0.016651	0.2573375	0.133739
sp B0BNM9  Glycolipid tr	2	3	-0.157445	-0.43834	0.1300891	0.259075	0.1342701
sp Q5XI97 , Alanyl-tRNA	1	2	-0.174381	-0.554151	0.2381148	0.261475	0.1348069
sp Q64591  2,4-dienoyl-	3	4	0.1834321	-0.199845	0.5655967	0.261875	0.1353408
sp A1L108  Actin-relate	5	5	-0.15325	-0.43123	0.1081598	0.2628	0.1358741
sp Q9QYU4  Mu-crystalli	2	3	-0.200049	-0.732727	0.3219783	0.2628125	0.136403
sp Q6YAT4  Epsilon-sarc	1	3	0.2170571	-0.257622	0.6873646	0.2628375	0.1369276
sp P56574  Isocitrate de	14	43	-0.098086	-0.195761	-0.001639	0.263575	0.1374509
sp Q63041  Alpha-1-ma	18	42	-0.134419	-0.350115	0.0833641	0.2640625	0.137972
sp Q5FVC7  Arf-GAP wit	2	2	0.1976548	-0.318484	0.704775	0.2644375	0.1384903
sp Q80Z30  Protein pho	2	2	-0.171143	-0.560719	0.2112621	0.2647875	0.1390058
sp P14141  Carbonic an	6	16	0.3418121	-0.589345	1.2573817	0.2652	0.1395188
sp B0BNE2  DNA-directe	2	2	0.1421032	-0.122833	0.3977803	0.2671375	0.1400354
sp Q923V8  15 kDa sele	2	8	-0.16567	-0.497498	0.1802981	0.26825	0.1405524
sp Q5XIK7  Katanin p6C	2	2	0.2634059	-0.415653	0.9395772	0.2687125	0.1410671
sp P18645  UDP-glucos	2	3	-0.188911	-0.587508	0.2146443	0.2687625	0.1415779
sp Q923W4  Hepatoma-c	2	5	0.1118995	-0.032955	0.2504641	0.2694625	0.1420874
sp Q80WE1  Fragile X me	5	9	0.1444749	-0.107085	0.3930269	0.270425	0.1425967
sp B2GV54  Neutral cho	5	12	0.1537461	-0.125544	0.4480002	0.270875	0.1431037
sp P58775  Tropomyosi	4	9	-0.223635	-0.755123	0.318398	0.2709625	0.1436071
sp P97675  Ectonucleot	2	4	-0.149978	-0.417221	0.1213724	0.271175	0.1441074
sp Q02293  Protein farr	1	2	-0.203045	-0.673704	0.2567986	0.2713125	0.1446042
sp P01835  Ig kappa ch	6	32	0.2379721	-0.348687	0.8225328	0.2738875	0.1451073
sp P11980  Pyruvate kir	25	100	0.0960428	0.0053552	0.1864136	0.2739625	0.1456067
sp Q4G064  Ubiquinone	2	2	-0.168243	-0.505533	0.1833788	0.274825	0.1461056
sp Q5XIN6  LETM1 and	11	25	-0.104334	-0.223438	0.0167528	0.2751375	0.1466019
sp P04785  Protein disu	26	99	-0.092645	-0.171593	-0.010994	0.277075	0.1471018
sp Q562C6  Leucine zip	2	4	0.209393	-0.273833	0.7096166	0.277375	0.147599
sp Q63635  Syntaxin-6 C	1	2	0.1896491	-0.269313	0.6570549	0.2784375	0.1480965
sp Q62658  Peptidyl-pro	3	14	0.1110189	-0.037457	0.2616127	0.2790875	0.1485927
sp P52555  Endoplasmic	12	37	-0.095133	-0.179918	-0.009519	0.2793125	0.149086
sp P83732  60S ribosom	7	36	-0.10568	-0.233359	0.0272409	0.28105	0.1495821
sp Q9Z1K9  Disintegrin	3	4	-0.174853	-0.562745	0.2247956	0.28175	0.1500771
sp Q5M7A7  CB1 cannab	3	5	0.1463755	-0.129642	0.4210045	0.2860375	0.1505844
sp Q63396  Activated R	4	10	-0.117338	-0.291387	0.0568382	0.2871	0.1510919
sp Q9EPC6  Profilin-2 O	4	14	0.1335269	-0.110283	0.3751935	0.287725	0.151598
sp P51635  Alcohol deh	12	43	0.0944878	0.0018603	0.1861424	0.2887	0.1521039
sp Q9WUH4  Four and a l	5	8	-0.140892	-0.436374	0.1834004	0.2887	0.1526061
sp P05982  NAD(P)H de	6	15	0.1115076	-0.050232	0.266899	0.2903375	0.1531106
sp Q9Z1M9  Structural n	7	10	0.15043	-0.160434	0.441369	0.290525	0.1536121
sp Q58FK9  Kynurenine	4	4	0.2092006	-0.309042	0.7439492	0.290775	0.1541109
sp P62909  40S ribosom	19	76	-0.092987	-0.179684	-0.004544	0.291575	0.1546089
sp Q6AXS5  Plasminoge	13	23	-0.093777	-0.181272	-0.002548	0.292	0.1551049
sp Q99M63  WD40 repe	1	2	-0.14266	-0.411902	0.1209054	0.2936625	0.1556033
sp Q6IMF3  Keratin, typ	1	2	-0.169057	-0.604037	0.2850116	0.2945625	0.1561014
sp Q62825  Exocyst con	1	2	0.148412	-0.185597	0.496697	0.2954125	0.1565989

sp Q62651	Delta(3,5)-E	7	12	0.1263978	-0.096037	0.3626543	0.2956875	0.1570939
sp P42676	Neurolysin,	3	6	0.1554859	-0.179442	0.49691	0.2957125	0.1575855
sp P09650	Mast cell pr	9	27	0.1890368	-0.296002	0.6621091	0.2962625	0.1580755
sp P32089	Tricarboxyla	9	35	-0.090439	-0.169768	-0.009863	0.297	0.1585647
sp Q62881	Nucleolar p	2	4	0.1437812	-0.136856	0.431543	0.2998125	0.1590603
sp Q9WUW	Complemer	2	2	0.1863079	-0.331007	0.7203714	0.30045	0.1595546
sp O35331	Pyridoxal ki	3	6	-0.153118	-0.489925	0.1742415	0.3011	0.1600478
sp Q0VGK0	Gamma-am	2	6	0.1468129	-0.155577	0.4615973	0.3014625	0.1605388
sp Q66H12	Alpha-N-acc	2	8	0.1231495	-0.083195	0.3313839	0.302725	0.1610308
sp Q5M7A4	Ubiquitin-lil	1	3	-0.169846	-0.593088	0.2535824	0.3028125	0.1615197
sp Q4QQV3	Protein FAM	3	7	-0.118217	-0.321844	0.0836346	0.3029375	0.1620057
sp Q62696	Disks large l	2	3	0.1672721	-0.304964	0.6394468	0.3045625	0.1624939
sp B0BNN3	Carbonic an	4	10	0.1734355	-0.250725	0.6117928	0.3048125	0.1629797
sp P62755	40S ribosom	13	43	-0.09494	-0.200975	0.0084885	0.30535	0.1634639
sp P12711	Alcohol deh	4	6	0.1282538	-0.15976	0.3945921	0.305625	0.1639458
sp Q9R0J8	Legumain C	1	5	-0.130578	-0.376638	0.1231129	0.306225	0.1644265
sp P36953	Afamin OS=	10	22	-0.156469	-0.529187	0.1996936	0.306625	0.1649053
sp Q6PDV7	60S ribosom	14	75	-0.096416	-0.207671	0.0131535	0.3069125	0.1653818
sp Q9Z0W5	Protein kin	10	30	0.0919835	0.0039473	0.1820504	0.30725	0.1658563
sp Q64361	Latexin OS=	3	8	0.0985152	-0.015704	0.2172612	0.3073	0.1663278
sp P63090	Pleiotrophir	5	12	-0.106929	-0.269739	0.0556624	0.3074625	0.1667966
sp Q5XI07	Lipoma-pre	2	5	-0.152408	-0.501255	0.1964939	0.310625	0.1672729
sp P04218	OX-2 memb	3	6	-0.124987	-0.351603	0.1049221	0.310675	0.1677462
sp Q6LED0	Histone H3.	2	14	-0.168307	-0.595951	0.2654407	0.310825	0.1682168
sp Q5PPL3	Sterol-4-alp	3	5	0.1656348	-0.201773	0.5674194	0.3121	0.1686886
sp Q924N5	Long-chain-	7	8	-0.1105	-0.274836	0.0580749	0.3121375	0.1691574
sp P32738	Choline O-a	3	3	0.1684349	-0.256568	0.6054414	0.3124	0.1696239
sp P83883	60S ribosom	5	12	-0.089565	-0.174458	-0.002136	0.3126125	0.1700882
sp P97829	Leukocyte s	2	7	0.1195828	-0.093508	0.3362461	0.31315	0.1705512
sp Q924K2	FAS-associa	2	2	0.2313429	-0.553997	1.0292442	0.3132	0.1710113
sp P05426	60S ribosom	12	44	-0.089763	-0.17531	-0.005812	0.313475	0.1714694
sp P40112	Proteasome	4	4	-0.161834	-0.567025	0.2377715	0.315325	0.1719305
sp Q3ZB98	Breast carci	12	43	0.1162782	-0.094287	0.3164422	0.3156125	0.1723895
sp Q6AYU3	DnaJ homol	3	4	-0.119151	-0.348506	0.1033042	0.3160625	0.1728471
sp Q9JID2	Guanine nu	1	2	0.1759851	-0.344133	0.7174641	0.3161625	0.1733021
sp Q99376	Transferrin	2	2	-0.285584	-1.381515	0.8500696	0.3177375	0.1737591
sp Q63615	Vacuolar pr	1	5	0.1478063	-0.213362	0.493418	0.317875	0.1742138
sp Q03348	Receptor-ty	2	2	-0.177395	-0.73634	0.3858071	0.3182625	0.1746667
sp Q10728	Protein pho	2	2	-0.188786	-0.727892	0.3506355	0.3190625	0.1751194
sp Q4KM65	Cleavage ar	2	3	-0.161721	-0.585373	0.2752688	0.3192375	0.1755698
sp Q63448	Peroxisoma	5	6	-0.129317	-0.388886	0.1227815	0.3199875	0.1760197
sp P53670	LIM domain	2	2	-0.208943	-0.822606	0.3410609	0.3209125	0.1764696
sp O09032	ELAV-like pr	1	3	0.1198673	-0.116494	0.3421433	0.32195	0.17692
sp Q05695	Neural cell	10	25	0.1017015	-0.047482	0.2510368	0.322075	0.1773681
sp P62703	40S ribosom	19	80	-0.096067	-0.21606	0.0244662	0.3222	0.1778137
sp P27274	CD59 glyco	3	11	0.1183647	-0.101187	0.3442639	0.3222625	0.1782568
sp O54924	Exocyst con	4	7	0.1101657	-0.062915	0.2945438	0.3224875	0.1786979

sp Q9WTV0  Prolactin re	4	5	-0.14322	-0.474702	0.1885566	0.3228875	0.1791375
sp P21396  Amine oxid	17	48	0.0906206	-0.001358	0.1848663	0.3246375	0.1795797
sp Q641X8  Eukaryotic t	4	6	-0.135252	-0.438728	0.1725544	0.32465	0.1800193
sp P62246  40S ribosom	5	34	-0.097136	-0.224607	0.0300709	0.32495	0.1804572
sp P12839  Neurofilam	29	100	0.1068891	-0.061316	0.2760065	0.32515	0.180893
sp P62718  60S ribosom	10	39	-0.091804	-0.196442	0.0116147	0.3262875	0.1813296
sp P62845  40S ribosom	4	13	-0.101909	-0.244409	0.0375507	0.3266875	0.1817648
sp P31977  Ezrin OS=Ra	6	12	-0.099528	-0.235184	0.0313405	0.327025	0.1821984
sp P50878  60S ribosom	18	80	-0.088907	-0.178825	-0.000935	0.3273	0.1826303
sp P19945  60S acidic ri	14	68	-0.092784	-0.201812	0.0172989	0.3304875	0.183069
sp Q8VIL3  ZW10 inter	4	11	-0.102977	-0.261652	0.0513153	0.33115	0.1835071
sp P24368  Peptidyl-pro	14	58	-0.089068	-0.185102	0.0007339	0.3315375	0.1839438
sp P63174  60S ribosom	5	22	-0.094372	-0.210888	0.0198673	0.3321875	0.1843798
sp Q9JM53  Apoptosis-in	5	5	-0.116837	-0.344523	0.107465	0.332375	0.1848138
sp Q5FVI4  Cell cycle ex	7	17	0.092708	-0.011951	0.1984714	0.33325	0.1852478
sp P28073  Proteasome	2	8	-0.103902	-0.275107	0.0609627	0.3338	0.1856809
sp Q9JID1  Programme	3	5	0.10088	-0.058828	0.2646804	0.333825	0.1861116
sp Q91XU1  Protein qua	5	8	0.1160986	-0.098219	0.3311338	0.3342	0.1865408
sp Q9JKB8  Pre-mRNA-s	2	2	-0.167839	-0.682495	0.4060681	0.3351	0.1869702
sp O08619  Coagulation	3	4	-0.147558	-0.522373	0.2065674	0.3360875	0.1873999
sp P23565  Alpha-inter	22	57	0.115947	-0.123672	0.3437624	0.3381375	0.1878331
sp Q5EB77  Ras-related	5	13	0.104546	-0.06312	0.2729062	0.339175	0.1882667
sp P47853  Biglycan OS	13	62	-0.154195	-0.588569	0.2790788	0.33935	0.1886984
sp P11598  Protein disu	25	100	-0.081364	-0.137723	-0.024003	0.3394375	0.1891278
sp P63245  Guanine nu	18	72	-0.09231	-0.206047	0.0222555	0.340075	0.1895567
sp Q9ERE6  Myosin pho	7	11	0.1080219	-0.077116	0.2928158	0.341075	0.1899859
sp Q99N37  Rho GTPase	3	3	0.1548392	-0.272942	0.5876932	0.3421125	0.1904156
sp Q62950  Dihydropyri	7	15	0.1050764	-0.063669	0.2795148	0.342275	0.1908434
sp B0BNG0  Tetratricope	2	2	0.1555453	-0.394866	0.6851135	0.3425125	0.1912695
sp P46844  Biliverdin re	7	10	0.1039126	-0.071564	0.2794689	0.3426625	0.1916935
sp P06238  Alpha-2-ma	6	7	-0.159463	-0.639655	0.3278508	0.342725	0.1921154
sp P26772  10 kDa heat	11	48	-0.084517	-0.160847	-0.008908	0.3432125	0.1925363
sp Q9JHW5  Vesicle-assc	2	4	-0.143402	-0.535317	0.2545969	0.343825	0.1929565
sp Q66X93  Staphylococ	21	51	-0.086259	-0.170855	-0.003969	0.34385	0.1933745
sp P49432  Pyruvate de	12	59	-0.087371	-0.176612	0.0065218	0.3440875	0.1937908
sp P41565  Isocitrate de	11	25	-0.085099	-0.158935	-0.011378	0.3441	0.1942049
sp P05696  Protein kin	19	36	0.0889393	-0.008797	0.1853753	0.3445375	0.1946179
sp P08011  Microsomal	2	2	-0.153456	-0.697286	0.375146	0.3445625	0.1950287
sp B2GV24  E3 UFM1-pr	4	7	-0.129984	-0.43723	0.1785452	0.3462375	0.1954419
sp P19527  Neurofilam	21	100	0.1039941	-0.075172	0.2839132	0.3466625	0.1958539
sp Q3T1I4  Protein PRR	2	2	0.1840846	-0.495043	0.8597653	0.3476375	0.1962664
sp Q6AYG3  Protein prui	6	13	0.1018929	-0.060137	0.2637557	0.3486375	0.1966793
sp Q5XI55  Peptide-N(4	1	3	0.2273386	-0.711746	1.1365777	0.34865	0.19709
sp P07895  Superoxide	7	23	-0.087123	-0.180234	0.0087012	0.349	0.1974995
sp P37377  Alpha-synuc	6	27	0.1109673	-0.110093	0.3401178	0.3493875	0.1979078
sp A0MZ67  Shootin-1 O	2	3	-0.152479	-0.709764	0.3900604	0.3508625	0.1983179
sp B5DF41  Syntaphilin	1	2	-0.377245	-2.454723	1.8715699	0.3509125	0.1987259

sp P13635  Ceruloplasn	22	69	0.0973511	-0.050324	0.2482046	0.3509625	0.1991318
sp Q4V8K2  Beta-cateni	3	4	-0.147703	-0.700019	0.4218024	0.35105	0.1995359
sp O35217  Multiple inc	2	4	0.1288473	-0.18573	0.4467884	0.351475	0.1999389
sp P62836  Ras-related	2	3	-0.133216	-0.477729	0.2169482	0.35165	0.2003402
sp Q6AXQ5 2',5'-phosph	2	4	-0.113994	-0.369744	0.1429983	0.3526375	0.2007421
sp Q1WIM1 Cell adhesic	11	49	0.0916603	-0.031371	0.2179899	0.3538125	0.2011449
sp P04177  Tyrosine 3-r	1	3	-0.128364	-0.482228	0.2019455	0.35385	0.2015457
sp P35952  Low-density	2	6	-0.115815	-0.373914	0.1516883	0.35605	0.2019502
sp P97576  GrpE protei	2	7	0.1189872	-0.165998	0.3975397	0.3564625	0.2023536
sp P07483  Fatty acid-b	1	2	-0.129285	-0.505619	0.2491641	0.3566125	0.2027553
sp Q6Q0N1 Cytosolic nc	10	26	-0.093729	-0.221542	0.0391254	0.3567375	0.2031553
sp Q9QXU8 Cytoplasmic	13	33	-0.086308	-0.181971	0.016489	0.357025	0.2035539
sp Q09073  ADP/ATP tr	9	39	-0.082054	-0.1484	-0.016009	0.357175	0.2039508
sp Q02769  Squalene sy	4	6	-0.11976	-0.449813	0.1827154	0.357875	0.2043476
sp P09006  Serine prote	5	13	-0.214545	-1.059462	0.6273361	0.3581	0.2047428
sp Q9EQT5  Tubulointer	3	5	-0.15233	-0.769136	0.4631089	0.3584375	0.2051369
sp P18265  Glycogen sy	3	3	-0.138975	-0.56978	0.2761927	0.35885	0.20553
sp Q6AXX6  UPF0765 pr	8	30	-0.088166	-0.187479	0.0145771	0.35915	0.2059219
sp Q5PQP1 RNA-bindin	1	3	-0.108539	-0.327166	0.1185474	0.3599875	0.2063139
sp Q9EPX0  Heat shock	2	6	0.1233843	-0.179754	0.4321647	0.36005	0.2067041
sp Q99J82  Integrin-link	10	23	-0.089096	-0.194412	0.0161208	0.360275	0.2070929
sp Q9JIL8  R DNA repair	4	4	0.1009627	-0.14598	0.3309487	0.3621375	0.2074844
sp Q66H20  Polypyrimid	2	2	-0.145435	-0.620908	0.3263731	0.362375	0.2078746
sp Q71UF4  Histone-bin	4	12	-0.091383	-0.215381	0.0301172	0.362475	0.208263
sp P21961  Mast cell ca	2	4	0.1288459	-0.244351	0.502988	0.3625	0.2086496
sp Q5FWY5 AH receptor	6	14	0.0912066	-0.032946	0.2115579	0.3635625	0.2090369
sp Q505J6  Mitochondr	3	9	0.0930802	-0.050803	0.2329926	0.3640625	0.2094235
sp Q62813  Limbic syste	1	2	-0.116963	-0.396856	0.1621026	0.3646125	0.2098095
sp P02454  Collagen al	12	74	-0.18022	-0.853402	0.4903997	0.365275	0.2101953
sp Q63190  Emerin OS=	1	2	-0.136701	-0.529087	0.2555728	0.366175	0.2105814
sp P18395  Cold shock	13	29	-0.085575	-0.176007	0.0036169	0.366625	0.2109667
sp Q9WUL0 DNA topois	2	4	0.1233687	-0.179756	0.4367047	0.3667625	0.2113504
sp P80385  5'-AMP-acti	2	3	-0.134884	-0.52605	0.2403349	0.36755	0.2117342
sp Q6P7R8  Estradiol 17	8	21	-0.094063	-0.2463	0.0552822	0.3679375	0.212117
sp Q62714  Neutrophil	2	2	0.1415629	-0.429344	0.6709955	0.36885	0.2125002
sp O35821  Myb-bindin	6	10	-0.131387	-0.538384	0.2919243	0.3698	0.2128839
sp Q6QLM7 Kinesin hea	7	17	0.0908469	-0.043791	0.2264237	0.3706625	0.2132678
sp O08618  Phosphorib	4	8	0.1377911	-0.286237	0.5479361	0.3706625	0.2136498
sp Q08469  Orphan sod	2	2	-0.150594	-0.70029	0.4017149	0.370875	0.2140305
sp P17078  60S ribosom	8	28	-0.086611	-0.185692	0.013263	0.3731	0.2144147
sp P19332  Microtubule	16	50	0.0843422	-0.01445	0.1799263	0.374275	0.2147999
sp P40190  Interleukin-	1	2	-0.132643	-0.645693	0.3623016	0.374925	0.2151849
sp Q53UA7 Serine/thre	1	2	-0.105936	-0.392106	0.1925769	0.3749875	0.2155681
sp Q9JHB5  Translin-ass	2	2	0.1580039	-0.463824	0.7709761	0.3750625	0.2159496
sp P29066  Beta-arresti	3	4	-0.112919	-0.386673	0.1633466	0.37575	0.216331
sp Q07803  Elongation f	4	6	-0.099083	-0.329412	0.1657559	0.3759125	0.216711
sp Q78P75  Dynein light	1	9	-0.102851	-0.311398	0.0976192	0.3764	0.2170903



sp Q9ES40	PRA1 family	4	12	0.0928412	-0.058767	0.239513	0.37655	0.2174682
sp P24268	Cathepsin D	18	89	0.0835741	-0.00669	0.1753965	0.3782375	0.2178482
sp P05371	Clusterin OS	6	19	0.093068	-0.050217	0.2369509	0.378575	0.2182273
sp Q5RK30	Ribosome n	3	5	0.1021338	-0.118393	0.3248268	0.379175	0.218606
sp Q5XI68	Protein Dr1	1	2	0.1234318	-0.225078	0.4746061	0.379675	0.2189841
sp Q5XIE6	3-hydroxyis	5	8	0.1004432	-0.125474	0.3228157	0.3802875	0.2193619
sp P13941	Collagen alp	7	16	-0.098707	-0.313819	0.1341244	0.380775	0.219739
sp P60892	Ribose-phos	2	2	-0.108181	-0.395172	0.1788239	0.3815875	0.2201163
sp P62243	40S ribosom	12	42	-0.082235	-0.165828	0.0051745	0.381725	0.2204921
sp Q6AY19	Uncharacte	2	2	0.1544432	-0.681922	0.9644731	0.3822375	0.2208674
sp P47196	RAC-alpha s	3	5	0.1002448	-0.110704	0.3107044	0.3822875	0.221241
sp Q9ES67	Rho guanini	2	3	-0.141293	-0.698125	0.4288045	0.3827125	0.2216139
sp P63326	40S ribosom	8	27	-0.088852	-0.220858	0.0421088	0.3838875	0.2219878
sp Q9R080	G-protein-si	2	6	0.1919549	-0.787564	1.1650997	0.3839375	0.2223601
sp B2GV06	Succinyl-Co	12	28	0.0833132	-0.012032	0.17531	0.3843875	0.2227318
sp Q641Z8	Peflin OS=R	3	4	-0.135767	-0.668426	0.3987774	0.385425	0.2231041
sp P55260	Annexin A4	14	38	0.0847451	-0.024607	0.195464	0.3859125	0.2234758
sp Q9QZR6	Septin-9 OS	9	25	-0.082808	-0.171907	0.0053415	0.3875125	0.2238494
sp P23562	Band 3 anio	9	14	0.1564101	-0.50328	0.7933373	0.388875	0.2242245
sp P10499	Potassium v	2	4	0.1071528	-0.184243	0.4048071	0.38945	0.2245991
sp Q63151	Long-chain-	2	4	-0.106091	-0.385811	0.1810351	0.3897125	0.2249727
sp P80299	Epoxide hyc	1	2	0.2392054	-1.445317	1.9709658	0.390125	0.2253455
sp O88382	Membrane-	2	2	0.1225804	-0.330807	0.5802251	0.390375	0.2257172
sp P35435	ATP synthas	15	40	-0.078997	-0.138812	-0.015361	0.3904875	0.2260875
sp P81128	Glucocortic	4	4	-0.121068	-0.495552	0.2543167	0.390575	0.2264563
sp P0C219	Sarcolemm	2	5	0.1013236	-0.180772	0.3715853	0.3929125	0.2268287
sp Q5U2R0	Methionine	2	2	0.1375083	-0.320513	0.668671	0.3934125	0.2272005
sp P23593	Apolipoprot	2	11	-0.114505	-0.472899	0.2536893	0.3935125	0.2275709
sp Q7TQ16	Cytochrome	3	8	-0.100678	-0.338473	0.139172	0.393625	0.2279399
sp Q91ZN1	Coronin-1A	4	5	-0.108917	-0.412811	0.1922283	0.395375	0.2283112
sp O08815	STE20-like s	6	9	-0.088087	-0.245004	0.0692028	0.3955125	0.2286811
sp P21531	60S ribosom	17	100	-0.08379	-0.195301	0.0264766	0.39585	0.2290501
sp P08289	Alkaline pho	11	14	-0.093581	-0.281058	0.1018917	0.3959625	0.2294178
sp Q5U2Y1	General tra	4	5	-0.124019	-0.577404	0.3243663	0.3969	0.2297859
sp Q8R1R5	CD99 antige	1	4	0.1408891	-0.560719	0.8602673	0.3970625	0.2301527
sp O35274	Neurabin-2	2	5	0.0861643	-0.058902	0.2305179	0.3971375	0.2305181
sp P35465	Serine/thre	3	9	0.0960451	-0.099466	0.2928686	0.3974	0.2308825
sp Q6U6G5	Zinc finger C	4	6	-0.126057	-0.588111	0.3397486	0.3985	0.2312476
sp P83868	Prostagland	6	17	-0.08375	-0.197804	0.0329002	0.3986375	0.2316115
sp B3GNI6	Septin-11 O	7	18	-0.085833	-0.202789	0.0318509	0.3987375	0.2319741
sp Q63100	Cytoplasmic	4	6	-0.099955	-0.359628	0.1552024	0.3992875	0.2323362
sp P06214	Delta-amino	3	7	0.1054085	-0.181914	0.4008803	0.3996125	0.2326975
sp P00564	Creatine kir	7	14	0.1932267	-0.836228	1.2021329	0.399625	0.2330572
sp Q62871	Cytoplasmic	9	14	-0.084874	-0.205682	0.0425061	0.4001375	0.2334166
sp D3ZZL9	GRIP and cc	3	3	-0.107216	-0.419177	0.1860476	0.4015625	0.2337774
sp O88664	Serine/thre	1	5	-0.10303	-0.368013	0.1669838	0.401875	0.2341373
sp Q64611	Cysteine sul	3	8	0.1022832	-0.167098	0.3662518	0.40195	0.2344959

sp O08590	Membrane	10	21	-0.090289	-0.269296	0.0990364	0.402275	0.2348537
sp O88794	Pyridoxine-	3	3	0.1055612	-0.187902	0.4006938	0.4023375	0.23521
sp Q568Z6	IST1 homolo	2	2	-0.125255	-0.602527	0.349475	0.402725	0.2355657
sp Q6AYS7	Aminoacyla	12	39	-0.090811	-0.271784	0.0929637	0.402775	0.2359199
sp Q63617	Hypoxia up-	28	84	-0.080818	-0.169506	0.007084	0.40295	0.236273
sp O08629	Transcriptic	5	7	0.0953911	-0.121621	0.3039503	0.4033625	0.2366256
sp Q8K581	Thioredoxin	1	2	-0.131353	-0.644068	0.361532	0.4034875	0.2369768
sp Q62717	Calcium-dep	11	17	-0.083602	-0.206125	0.0431055	0.4037	0.2373271
sp Q8R511	Formin-binc	3	6	-0.110679	-0.466408	0.2505091	0.4061	0.2376809
sp Q4V8C2	Centromere	1	2	0.0961687	-0.16224	0.353143	0.4061625	0.2380334
sp Q9JJ19	↑ Na(+)/H(+)	11	29	-0.081256	-0.185892	0.019033	0.406375	0.2383848
sp Q9EQV6	Tripeptidyl-	1	6	-0.095428	-0.314469	0.1155749	0.4064125	0.2387349
sp P06761	78 kDa gluc	26	100	-0.078559	-0.153814	-0.006948	0.4065125	0.2390837
sp Q498R3	DnaJ homolo	5	10	-0.096307	-0.349179	0.1615045	0.406775	0.2394316
sp P14659	Heat shock-	19	59	-0.092693	-0.299296	0.1205463	0.4077375	0.2397801
sp P19643	Amine oxid	17	41	0.0828032	-0.022432	0.1917316	0.4078875	0.2401274
sp Q5RJY4	Dehydroger	2	2	-0.112292	-0.498733	0.2647665	0.4079375	0.2404734
sp P16975	SPARC OS=f	7	16	-0.092122	-0.288011	0.1005835	0.4081125	0.2408183
sp B1H267	Sorting nexi	6	10	-0.09095	-0.265935	0.0898737	0.4083125	0.2411623
sp P23514	Coatome s	13	31	-0.081426	-0.187295	0.0249579	0.4089125	0.241506
sp Q5XIC0	Peroxisoma	4	11	0.0851798	-0.047152	0.2177107	0.4092375	0.241849
sp P62856	40S ribosom	2	6	-0.083435	-0.213987	0.0563076	0.4101875	0.2421926
sp O70513	Galectin-3-k	2	2	0.1593784	-0.76417	1.1162642	0.4104625	0.2425353
sp P97874	Cyclin-G-ass	3	3	-0.114291	-0.539117	0.315665	0.4117	0.2428791
sp P62271	40S ribosom	9	53	-0.080874	-0.186407	0.0235048	0.4122875	0.2432227
sp Q5XIP9	Transmemb	2	3	-0.139315	-0.935562	0.7096753	0.4124125	0.2435652
sp O89046	Coronin-1B	3	4	0.0966889	-0.10615	0.310669	0.4125125	0.2439065
sp Q5XI22	Acetyl-CoA	11	32	-0.080375	-0.177252	0.0143816	0.412525	0.2442465
sp Q6P7A2	Ubiquitin cc	7	9	0.0890887	-0.092017	0.2738754	0.41295	0.2445859
sp P62832	60S ribosom	12	57	-0.082286	-0.198752	0.0386137	0.4132875	0.2449247
sp O08678	Serine/thre	2	3	-0.117216	-0.651112	0.4048344	0.413525	0.2452626
sp Q5XIE1	UPF0670 pr	8	20	-0.080167	-0.178246	0.0197945	0.4139375	0.2455999
sp O55096	Dipeptidyl p	10	17	-0.081822	-0.185095	0.0288476	0.414775	0.2459376
sp P18614	Integrin alp	2	2	0.0982028	-0.316504	0.493512	0.4164625	0.2462773
sp P60123	RuvB-like 1	6	10	-0.088765	-0.269674	0.0899699	0.416925	0.2466166
sp A2RUV9	Adipocyte e	2	3	0.1014615	-0.235269	0.4333978	0.41705	0.2469547
sp P27768	Troponin I,	3	8	0.2282632	-1.338898	1.8631675	0.4184875	0.2472944
sp P20611	Lysosomal a	1	2	-0.118027	-0.671614	0.454557	0.4187	0.2476331
sp Q3KRD5	Mitochondr	5	9	0.091124	-0.086481	0.2808586	0.418975	0.2479711
sp O08557	N(G),N(G)-d	17	66	0.0981446	-0.195287	0.3983941	0.4198375	0.2483094
sp Q5GFD9	Protein IMP	3	3	0.1084029	-0.29668	0.5043741	0.4199	0.2486465
sp P62425	60S ribosom	14	57	-0.079027	-0.171218	0.0076423	0.4202375	0.248983
sp Q63184	Interferon-i	2	2	-0.118926	-0.675038	0.4357915	0.4212	0.24932
sp Q63663	Interferon-i	3	3	-0.137698	-0.87727	0.6369003	0.422725	0.2496587
sp P62275	40S ribosom	4	15	-0.086334	-0.306087	0.1459967	0.4228375	0.2499962
sp P23358	60S ribosom	9	35	-0.080491	-0.191891	0.0296614	0.424025	0.2503348
sp P11030	Acyl-CoA-bi	8	59	-0.083902	-0.237994	0.0686022	0.4243375	0.2506727

sp Q8R5M4  Optineurin	3	4	0.0849431	-0.21661	0.3537386	0.4247875	0.2510101
sp P02091  Hemoglobin	4	55	0.1194651	-0.448887	0.6896238	0.424825	0.2513463
sp Q8VHK2  Caskin-1 OS	5	7	-0.089126	-0.317366	0.1384436	0.425225	0.251682
sp P04937  Fibronectin	15	39	-0.09705	-0.411034	0.216141	0.42535	0.2520166
sp P62250  40S ribosom	11	44	-0.077305	-0.161244	0.0108183	0.426425	0.252352
sp O35964  Endophilin-	2	4	0.1044468	-0.266046	0.4808768	0.4264625	0.2526862
sp Q64194  Lysosomal a	2	2	0.1223913	-0.430627	0.6804176	0.4269	0.2530199
sp Q62902  Protein ERC	6	10	-0.083877	-0.244455	0.0821158	0.4274	0.2533534
sp B0BNE5  S-formylglu	3	16	-0.081982	-0.217439	0.0493244	0.42745	0.2536856
sp Q5XIK2  Thioredoxin	5	11	-0.082128	-0.216097	0.0486677	0.4277125	0.2540171
sp P13596  Neural cell	14	50	-0.077897	-0.164143	0.0072421	0.4280375	0.2543479
sp P17136  Small nucle	1	2	-0.132931	-1.103279	0.8092716	0.428675	0.2546787
sp Q80W92  Protein VAC	1	2	-0.122564	-0.880012	0.6074485	0.4291625	0.2550092
sp P26644  Beta-2-glyco	7	19	-0.085978	-0.284687	0.1110413	0.4293875	0.2553388
sp P02680  Fibrinogen g	4	7	-0.133679	-1.055739	0.792704	0.4299625	0.2556683
sp P63025  Vesicle-assc	2	5	0.0943404	-0.17816	0.3576514	0.4308625	0.2559982
sp P08503  Medium-ch	8	11	0.0848367	-0.098246	0.270065	0.431325	0.2563278
sp P15429  Beta-enolas	3	8	0.1581899	-0.937705	1.2280454	0.43145	0.2566564
sp P54287  Voltage-dep	2	3	0.1200835	-0.689045	0.8791953	0.43145	0.2569837
sp P52631  Signal trans	6	13	0.0827156	-0.065897	0.2366741	0.432025	0.2573109
sp Q7TP36  Protein Shro	5	5	-0.087594	-0.287788	0.1097481	0.432025	0.2576368
sp Q6AXQ0  SUMO-activ	4	10	0.0943426	-0.177932	0.3636901	0.432125	0.2579618
sp P62193  26S proteas	10	28	-0.077656	-0.170642	0.0148238	0.4328125	0.2582868
sp P17046  Lysosome-a	2	3	0.1140846	-0.418724	0.6782407	0.4329875	0.2586109
sp Q6B345  Protein S10	4	10	-0.081358	-0.225591	0.0581775	0.4348125	0.2589372
sp P15178  Aspartyl-tRI	18	57	-0.081191	-0.222457	0.0597596	0.4353125	0.2592632
sp P16086  Spectrin alp	43	100	0.078096	-0.026663	0.182262	0.4365375	0.2595903
sp Q8CG45  Aflatoxin B1	5	16	-0.082985	-0.235828	0.0650919	0.436675	0.2599164
sp Q9Z0U4  Gamma-am	2	2	0.1136495	-0.48917	0.7259673	0.437175	0.2602422
sp P0C1X8  AP2-associa	6	8	0.095929	-0.176085	0.3905535	0.4372125	0.2605669
sp Q5PQM2  Kinesin light	2	3	0.1086798	-0.48782	0.7150902	0.437725	0.2608914
sp Q4KM74  Vesicle-traff	8	19	-0.078113	-0.177771	0.0220504	0.4388	0.2612167
sp P17988  Sulfotransfe	3	7	0.0955287	-0.249037	0.4399655	0.438825	0.2615408
sp P45479  Palmitoyl-p	5	19	0.0801858	-0.059051	0.21841	0.4388625	0.2618638
sp Q8R500  Mitofusin-2	4	4	0.0954923	-0.250723	0.4400451	0.439325	0.2621864
sp P63331  Serine/thre	1	2	0.0902599	-0.255519	0.4306997	0.4407125	0.2625104
sp P19468  Glutamate--	1	5	0.0876702	-0.166845	0.3425251	0.441625	0.2628349
sp P10252  CD48 antige	5	20	0.0814484	-0.07956	0.2441103	0.442275	0.2631594
sp O88350  Putative hy	1	2	0.1066798	-0.364804	0.5823873	0.4422875	0.2634827
sp Q5XI78  2-oxoglutar	24	69	-0.074861	-0.148566	0.0002128	0.44325	0.2638066
sp Q63754  Beta-synucl	2	7	-0.08145	-0.26104	0.0905183	0.44395	0.2641306
sp Q5U316  Ras-related	2	5	0.0851895	-0.179465	0.3369233	0.4440625	0.2644537
sp Q6MG55  Abhydrolas	6	18	0.0814378	-0.087755	0.2470522	0.44445	0.2647762
sp Q9JLA3  UDP-glucos	20	34	-0.08014	-0.204999	0.0424582	0.44455	0.2650978
sp P00787  Cathepsin B	9	45	0.0762038	-0.031	0.1819897	0.44585	0.2654206
sp B0BNA7  Eukaryotic t	3	3	-0.085581	-0.358747	0.2061294	0.4466125	0.2657436
sp P40615  H/ACA riboi	2	3	-0.092637	-0.492654	0.3200217	0.446775	0.2660657

sp O55043	Rho guanini	1	3	-0.089379	-0.396512	0.2212009	0.4468125	0.2663867
sp Q64232	Trans-2,3-el	8	22	-0.077872	-0.196828	0.0465203	0.4478	0.2667084
sp Q63468	Phosphoribi	2	2	0.1032356	-0.477826	0.7307241	0.4478625	0.267029
sp P10760	Adenosylho	14	71	-0.075988	-0.166221	0.0140222	0.4482875	0.2673493
sp P36201	Cysteine-ric	7	33	-0.075653	-0.166938	0.0207765	0.44865	0.267669
sp Q02356	AMP deami	1	2	-0.101608	-0.692287	0.5235539	0.449425	0.267989
sp P15943	Amyloid-like	1	2	-0.106339	-0.731639	0.545595	0.4505875	0.2683099
sp P69735	Rab3 GTPas	2	4	0.0904199	-0.260963	0.4270224	0.45075	0.26863
sp P37996	ADP-ribosyl	6	11	-0.083099	-0.326978	0.168118	0.4508	0.268949
sp Q6AY20	Cation-depe	5	12	-0.079093	-0.221297	0.0569846	0.4511	0.2692675
sp Q497B0	Omega-ami	1	3	0.0870308	-0.179843	0.358717	0.4513375	0.2695852
sp P02466	Collagen alp	11	76	-0.10635	-0.723918	0.5319788	0.4514125	0.269902
sp Q6PEB9	Coiled-coil c	3	4	0.0913096	-0.313335	0.5066742	0.451925	0.2702186
sp Q5XIU9	Membrane-	3	4	-0.08687	-0.377606	0.1975106	0.4519625	0.2705341
sp P09811	Glycogen pl	4	8	0.0839987	-0.187216	0.3523669	0.4526375	0.2708497
sp P61265	Syntaxin-1B	2	6	0.0812512	-0.09579	0.2556436	0.453475	0.2711657
sp P51111	Huntingtin (	2	5	0.0832028	-0.23191	0.372762	0.45355	0.2714807
sp P07633	Propionyl-C	3	4	-0.094757	-0.631462	0.4659969	0.4554125	0.2717978
sp P63031	Brain protei	3	4	0.0836789	-0.166776	0.3352024	0.456225	0.2721152
sp P61314	60S ribosom	8	25	-0.074431	-0.146027	-0.001293	0.4564875	0.272432
sp Q5EGY4	Synaptobre	4	9	0.0762577	-0.047013	0.1994907	0.45715	0.2727488
sp Q64578	Sarcoplasm	2	3	0.1536358	-2.089508	2.3750675	0.457375	0.273065
sp Q6AYA1	H/ACA riboi	3	4	-0.08434	-0.337763	0.1711077	0.4574	0.2733801
sp P08934	Kininogen-1	1	2	0.0845442	-0.40052	0.5450896	0.4576	0.2736945
sp Q6AYG5	Enoyl-CoA h	3	4	0.098509	-0.440149	0.647299	0.4578625	0.2740082
sp P62912	60S ribosom	7	40	-0.075248	-0.194431	0.043676	0.4583625	0.2743217
sp Q6IRK9	Plasma glut	9	32	-0.076193	-0.189951	0.0327723	0.458825	0.274635
sp P70619	Glutathione	4	10	0.0806019	-0.147126	0.3024098	0.458925	0.2749473
sp Q4TU93	C-type man	2	3	0.0910444	-0.357079	0.5470746	0.45995	0.2752604
sp Q3T1K5	F-actin-cap	2	6	-0.079642	-0.518941	0.3898964	0.460225	0.2755728
sp P31044	Phosphatidi	12	78	0.0786699	-0.09731	0.2592244	0.46085	0.2758852
sp P06866	Haptoglobir	10	26	0.1016196	-0.547779	0.7938595	0.4610125	0.2761969
sp Q6AYI5	Leucine-rich	5	9	0.0813107	-0.151652	0.314844	0.4610875	0.2765076
sp Q06486	Casein kina	4	4	-0.090546	-0.585872	0.3947038	0.4614625	0.276818
sp Q9Z2Z8	7-dehydroc	1	2	-0.159918	-2.77159	2.4063628	0.4615125	0.2771273
sp P61621	Protein trar	3	4	-0.091761	-0.453573	0.2553321	0.462075	0.2774366
sp Q6JAM9	Transmemb	2	6	-0.078115	-0.279624	0.1280549	0.462525	0.2777456
sp O88637	Ethanolami	2	3	0.08879	-0.427918	0.6116492	0.4628375	0.2783616
sp Q9QZ76	Myoglobin (	3	6	-0.109801	-1.235572	1.0463177	0.4628375	0.2780541
sp P20070	NADH-cyto	9	22	0.0745846	-0.014396	0.1653837	0.4634125	0.278669
sp Q4FZT0	Stomatin-lik	4	6	0.0849394	-0.186787	0.3661339	0.46355	0.2789756
sp Q63678	Zinc-alpha-2	2	2	0.1017302	-0.915604	1.0832964	0.4637	0.2792814
sp Q5U2R7	LDLR chape	6	28	-0.074251	-0.164825	0.0181945	0.464175	0.279587
sp Q6PDU1	Serine/argir	3	4	0.0757269	-0.063604	0.2158711	0.46425	0.2798917
sp P12346	Serotransfe	28	100	-0.082161	-0.354923	0.1906149	0.4642625	0.2801955
sp Q62736	Non-muscle	12	22	-0.076298	-0.210542	0.0577605	0.4653375	0.2805
sp Q32PX2	Aminoacyl t	8	24	-0.078073	-0.223762	0.0664536	0.4656	0.2808039

sp Q63421  Calcium/cal	2	2	0.0924377	-0.510298	0.6918223	0.4656625	0.281107
sp Q63228  Glia matura	4	14	-0.07749	-0.22569	0.067743	0.4658125	0.2814093
sp P62749  Hippocalcin	3	8	0.0745837	-0.031762	0.1770612	0.465875	0.2817107
sp Q9QVC8  Peptidyl-pro	10	27	-0.073994	-0.178563	0.0364178	0.466725	0.2820125
sp P48500  Triosephosp	16	100	0.0758559	-0.07764	0.2272481	0.4679625	0.2823154
sp P06686  Sodium/pot	17	59	-0.074332	-0.172946	0.0211406	0.46805	0.2826174
sp B5DEN9  Vacuolar pr	1	2	0.0802899	-0.245991	0.3930456	0.4683125	0.2829188
sp Q9JI66  Electrogenic	3	6	0.0812573	-0.243535	0.4130536	0.4684	0.2832194
sp Q9WV25  Poly(U)-bind	3	3	-0.084339	-0.486193	0.3191797	0.468575	0.2835194
sp P19356  Porphobilin	2	3	0.0887804	-0.370496	0.5473724	0.4688375	0.2838187
sp P08010  Glutathione	10	32	0.0761013	-0.080714	0.2385293	0.4692125	0.2841178
sp Q9WVB1  Ras-related	7	14	-0.074451	-0.177946	0.0256963	0.4693	0.284416
sp P19234  NADH dehy	5	14	0.0766714	-0.092303	0.2483617	0.4696625	0.2847138
sp Q62812  Myosin-9 O	37	100	-0.074877	-0.20253	0.0561821	0.47115	0.285013
sp P50123  Glutamyl ar	1	2	-0.109254	-1.48309	1.29397	0.4713125	0.2853116
sp Q5U2U2  Crk-like pro	2	3	-0.075127	-0.282206	0.129017	0.4715	0.2856095
sp Q6P7B0  Tryptophan	19	59	0.0732779	-0.038497	0.1848392	0.472	0.2859072
sp P01946  Hemoglobin	12	100	0.0903094	-0.549979	0.7163218	0.4723125	0.2862045
sp B1WBW  Armadillo re	2	3	-0.08702	-0.606839	0.4205602	0.473	0.286502
sp P31399  ATP synthas	11	49	-0.072398	-0.132387	-0.013911	0.4734	0.2867991
sp O88941  Mannosyl-o	4	8	-0.077178	-0.293975	0.1397111	0.473425	0.2870954
sp Q68FX1  Mannose-6-	3	3	0.0837547	-0.290846	0.4728193	0.4736	0.2873909
sp Q0VGK4  Glycerophos	1	2	0.0996951	-0.723797	0.906481	0.474575	0.2876871
sp O35760  Isopentenyl	4	8	0.0779353	-0.152748	0.3055292	0.4745875	0.2879824
sp Q6P6Q2  Keratin, typ	2	6	-0.087409	-0.523482	0.3253907	0.4751875	0.2882776
sp Q6AYK1  RNA-binding	3	6	0.0798935	-0.205698	0.3713378	0.4754875	0.2885725
sp P23928  Alpha-crysta	9	44	-0.078997	-0.384615	0.2270268	0.4756375	0.2888666
sp Q1WIM2  Cell adhesic	1	2	-0.078018	-0.432882	0.2828584	0.475725	0.2891599
sp P49242  40S ribosom	14	61	-0.072666	-0.175118	0.030626	0.475825	0.2894525
sp P17764  Acetyl-CoA	14	54	-0.074245	-0.214299	0.0659266	0.4766125	0.2897454
sp P23711  Heme oxygen	4	9	-0.072191	-0.239167	0.1004224	0.4766375	0.2900374
sp Q794E4  Heterogene	3	8	0.0749177	-0.085838	0.2372411	0.4767875	0.2903288
sp P27139  Carbonic an	5	14	0.0843916	-0.361515	0.5562172	0.47825	0.2906215
sp Q6AY86  Vacuolar pr	2	4	-0.072287	-0.524225	0.4102934	0.4791	0.2909146
sp Q2TL32  E3 ubiquitin	6	7	0.0778355	-0.206755	0.3675346	0.479125	0.2912069
sp P17702  60S ribosom	5	12	-0.072188	-0.179524	0.0396467	0.4796125	0.291499
sp Q7TPJ0  Translocon-	2	5	0.076558	-0.191462	0.3595315	0.4799375	0.2917907
sp Q9R064  Golgi reasse	3	3	-0.078531	-0.334438	0.1799065	0.4801	0.2920817
sp P17077  60S ribosom	11	33	-0.073637	-0.180857	0.0373565	0.4802	0.292372
sp Q5U2X6  Coiled-coil c	6	18	-0.075037	-0.235272	0.0843524	0.4803	0.2926616
sp P53676  AP-3 compl	1	2	0.0784813	-0.377831	0.5440184	0.48055	0.2929506
sp P62268  40S ribosom	7	31	-0.072527	-0.178736	0.0295514	0.480775	0.2932392
sp Q80X08  WASH comp	6	6	-0.075754	-0.380881	0.2362695	0.480875	0.2935269
sp O88761  26S proteas	11	26	0.0756518	-0.058708	0.2212429	0.4827	0.2938166
sp P07872  Peroxisoma	5	5	-0.075083	-0.263187	0.1034376	0.483175	0.2941062
sp Q9Z1Z3  Epsin-2 OS=	2	3	-0.082947	-0.581222	0.4089833	0.4832625	0.294395
sp Q6DGG1  Abhydrolase	1	3	0.0831157	-0.440133	0.6185959	0.48355	0.2946833

sp P08699	Galectin-3 C	3	10	-0.073491	-0.266259	0.1228056	0.48405	0.2949715
sp P16970	ATP-binding	8	21	-0.071671	-0.170673	0.0258915	0.4840625	0.2952589
sp Q62703	Reticulocalt	4	14	-0.073382	-0.221149	0.0801145	0.48415	0.2955455
sp P06399	Fibrinogen i	17	37	-0.078974	-0.563432	0.4035179	0.4842875	0.2958315
sp P47727	Carbonyl re	10	30	0.0743943	-0.117691	0.2717255	0.484475	0.2961169
sp P35171	Cytochrome	1	2	-0.073343	-0.35521	0.2229795	0.4847	0.2964018
sp P36365	Dimethylan	1	2	-0.082736	-0.706483	0.5293231	0.48515	0.2966865
sp Q91V33	KH domain-	9	22	-0.071528	-0.183459	0.0465153	0.4852875	0.2969705
sp Q9R0T4	Cadherin-1	6	16	0.0750113	-0.099609	0.2599685	0.4862125	0.2972551
sp P34064	Proteasome	7	14	-0.072029	-0.204097	0.0636799	0.48655	0.2975393
sp Q5U1X1	Oligoribonu	2	6	0.0722385	-0.173304	0.3229469	0.4871875	0.2978236
sp P61805	Dolichyl-dip	3	3	-0.071556	-0.303062	0.1684123	0.487225	0.2981072
sp P12001	60S ribosom	11	54	-0.071761	-0.155614	0.0133937	0.4872625	0.2983899
sp Q64566	Calcium-tra	1	2	0.0762837	-0.181893	0.3308196	0.487425	0.2986721
sp P62914	60S ribosom	4	12	-0.072201	-0.161925	0.0157422	0.489125	0.2989559
sp P09216	Protein kin	5	8	0.07698	-0.142134	0.3032398	0.490225	0.2992405
sp Q99JE6	1-phosphat	7	15	-0.074174	-0.255671	0.1050434	0.49025	0.2995243
sp Q641Y8	ATP-depend	14	32	-0.072184	-0.179558	0.0292653	0.4902625	0.2998073
sp Q5PQN0	Neurocalcin	3	7	0.0724364	-0.113334	0.2496612	0.490425	0.3000897
sp Q5HZV9	Protein pho	5	9	-0.073236	-0.258375	0.1073218	0.490875	0.3003719
sp P70541	Translation	1	4	-0.06955	-0.387951	0.2607009	0.4919625	0.3006549
sp P08009	Glutathione	6	17	0.0717459	-0.094857	0.2384007	0.492475	0.3009379
sp P60901	Proteasome	7	17	-0.073054	-0.224033	0.0713144	0.4927125	0.3012203
sp Q62780	Probable A1	2	2	-0.072129	-0.34286	0.2064476	0.493225	0.3015027
sp O08651	D-3-phosph	13	53	-0.071802	-0.267872	0.1193998	0.494125	0.3017855
sp P61149	Heparin-bin	5	15	0.0712401	-0.123777	0.2720836	0.494225	0.3020677
sp Q62930	Complemer	7	15	-0.073598	-0.289935	0.1300305	0.4943125	0.3023492
sp Q923V4	F-box only p	3	5	0.0711393	-0.159218	0.2967504	0.4943875	0.3026299
sp P14480	Fibrinogen I	10	26	-0.072423	-0.589925	0.4406822	0.4948125	0.3029105
sp P85970	Actin-relate	9	21	-0.071266	-0.176356	0.0371261	0.495625	0.3031914
sp Q6IMX7	Hsp70-bind	2	3	-0.071724	-0.482421	0.3612989	0.49565	0.3034715
sp P49744	Thrombosp	2	3	0.074318	-0.288121	0.4371624	0.495875	0.3037512
sp P37361	Metallothio	3	7	0.0717534	-0.128302	0.2808004	0.4962625	0.3040306
sp Q4V8B7	Inactive hyc	3	3	-0.073102	-0.425598	0.2845105	0.4967625	0.3043099
sp Q921A4	Cytoglobin (	2	5	-0.072388	-0.47101	0.3246564	0.4972	0.3045891
sp Q62638	Golgi appar	19	44	-0.07119	-0.18493	0.0453941	0.4974125	0.3048677
sp P62744	AP-2 compl	2	4	-0.070897	-0.432244	0.2769963	0.497425	0.3051456
sp Q8R491	EH domain-	8	19	0.0709683	-0.059643	0.201921	0.49755	0.3054228
sp Q6I7R3	Isochorisma	4	8	0.0706559	-0.13383	0.2822162	0.497875	0.3056997
sp P51146	Ras-related	3	6	-0.068816	-0.325847	0.190293	0.4979	0.3059759
sp P11275	Calcium/cal	2	3	-0.065194	-0.477468	0.3790707	0.498575	0.3062522
sp P53042	Serine/thre	5	10	-0.070498	-0.252793	0.1218897	0.499175	0.3065286
sp O35094	Mitochondr	5	14	-0.069929	-0.215016	0.0784766	0.4992	0.3068042
sp Q80W98	Small glutar	2	2	0.0707594	-0.603598	0.7166414	0.499675	0.3070798
sp P07323	Gamma-enc	15	83	0.0706736	-0.070153	0.2067662	0.5000875	0.3073551
sp D4ABP9	F-box only p	1	2	0.0697044	-0.362187	0.5001921	0.501625	0.3076318
sp Q9JI03 C	Collagen alp	4	14	-0.071134	-0.6279	0.4892655	0.501825	0.3079081

sp O88267  Acyl-coenzy	3	5	0.0695373	-0.133945	0.2780524	0.502175	0.308184
sp P04906  Glutathione	10	58	0.0699986	-0.066327	0.2057402	0.50265	0.3084599
sp Q711G3  Isoamyl ace	3	10	-0.069195	-0.236112	0.0942487	0.503375	0.3087359
sp Q29RW1  Myosin-4 O	21	48	0.0654831	-1.697381	1.8566173	0.50365	0.3090116
sp Q566C7  Diphosphoi	4	4	0.0728573	-0.154429	0.3104025	0.503925	0.3092869
sp Q8K3X8  Heat shock	3	8	-0.063301	-0.485286	0.3963392	0.5041625	0.3095618
sp P11240  Cytochrome	9	54	0.069959	-0.003484	0.1429597	0.5046125	0.3098365
sp P19139  Casein kina	3	8	0.0693269	-0.118598	0.2575736	0.5051375	0.3101112
sp Q66HC5  Nuclear por	2	2	-0.068515	-0.68545	0.563541	0.5051375	0.3103851
sp Q66H80  Coatomer s	8	16	-0.069033	-0.201007	0.065558	0.505525	0.3106588
sp P0C644  Inositol hex	2	2	-0.027289	-1.526015	1.2046315	0.5056125	0.3109318
sp Q64119  Myosin ligh	8	40	-0.069061	-0.214327	0.0710499	0.5068375	0.3112058
sp Q5PPJ9  Endophilin-	7	18	0.0701358	-0.054676	0.1966128	0.5071625	0.3114795
sp Q4FZX7  Signal recog	3	4	-0.066212	-0.351417	0.2285349	0.5075125	0.3117529
sp Q5PQL2  Cell differer	1	2	-0.069405	-0.517639	0.3619246	0.5076875	0.3120258
sp P70473  Alpha-meth	1	2	0.061544	-0.974845	1.1192541	0.508	0.3122984
sp Q925N3  PEX5-relate	2	2	-0.066873	-0.471049	0.3267637	0.5090125	0.3125716
sp P02688  Myelin basi	11	100	0.0649734	-0.318661	0.4582625	0.5092875	0.3128444
sp P54275  DNA misma	1	2	0.0620822	-0.470059	0.604357	0.5096	0.3131169
sp Q4FZY0  EF-hand doi	3	7	-0.062804	-0.412196	0.2810698	0.509625	0.3133887
sp P62902  60S ribosom	6	23	-0.069103	-0.156695	0.0152669	0.510325	0.3136608
sp Q9JHL4  Drebrin-like	6	19	-0.068268	-0.198231	0.0590357	0.5116875	0.3139339
sp Q7TT49  Serine/thre	1	2	0.0657646	-0.472472	0.6011272	0.5119125	0.3142066
sp Q5U1Z2  Trafficking p	3	4	0.0670933	-0.258924	0.405005	0.51225	0.314479
sp P85972  Vinculin OS	41	100	-0.068955	-0.159999	0.0201958	0.5123875	0.3147509
sp Q9ERE4  Golgi phosp	4	6	-0.063697	-0.377181	0.253875	0.512425	0.315022
sp P97687  Ectonucleos	1	4	-0.064163	-0.401997	0.2712729	0.512475	0.3152925
sp Q7M0E3  Destrin OS=	12	50	-0.068817	-0.185853	0.0455295	0.51265	0.3155625
sp P30713  Glutathione	5	15	0.067884	-0.087787	0.2254152	0.513575	0.315833
sp P43138  DNA-(apurin	4	9	-0.068547	-0.272501	0.1425448	0.5141375	0.3161035
sp Q8K3P6  Calcium-bin	2	4	-0.066667	-0.35604	0.2165091	0.5156375	0.3163754
sp B2GUZ5  F-actin-capp	2	5	-0.067872	-0.34304	0.2138636	0.5158875	0.3166468
sp Q68FW9  COP9 signal	5	5	0.0642654	-0.143938	0.269824	0.5172875	0.3169194
sp B5DFC9  Nidogen-2 (	18	79	0.06584	-0.147095	0.2899963	0.5179	0.3171921
sp P20650  Protein pho	3	8	0.0656313	-0.132112	0.2570143	0.5183125	0.3174647
sp P04916  Retinol-binc	1	3	0.0544666	-0.770988	0.859336	0.5184875	0.3177367
sp P85973  Purine nucl	9	26	-0.066838	-0.22518	0.0887722	0.5189	0.3180085
sp P11507  Sarcoplasm	14	36	-0.068726	-0.153	0.0141557	0.5195875	0.3182805
sp O55166  Vacuolar pr	2	2	-0.053914	-0.679442	0.6100262	0.520425	0.318553
sp P82995  Heat shock	22	100	-0.069031	-0.130773	-0.009603	0.52155	0.3188262
sp P63324  40S ribosom	5	21	-0.065214	-0.202528	0.0803288	0.521775	0.319099
sp P41777  Nucleolar ai	3	6	-0.062691	-0.347066	0.2138104	0.5228	0.3193724
sp Q924C3  Ectonucleot	2	5	0.0640142	-0.219005	0.3522721	0.5229375	0.3196453
sp Q6IUR5  Neudesin O	2	3	0.0621952	-0.227545	0.3688728	0.523575	0.3199183
sp P21670  Proteasome	5	11	-0.067834	-0.300516	0.1529078	0.5249375	0.3201924
sp O08816  Neural Wisk	2	4	0.0591095	-0.23657	0.3360861	0.5250125	0.3204658
sp Q6XUX2  Dual serine,	2	2	0.0614212	-0.207274	0.3190375	0.5260375	0.3207399

sp Q5FWT1 Protein FAM	2	3	-0.061039	-0.312086	0.1831747	0.5260625	0.3210133
sp P80067 Dipeptidyl p	3	3	0.0585145	-0.371245	0.4732127	0.526275	0.3212863
sp Q99M64 Phosphatidyl	2	6	0.0707713	-0.383729	0.5611081	0.5263	0.3215585
sp P35745 Acylphosph	4	8	0.066089	-0.070996	0.2046769	0.5265625	0.3218304
sp P18886 Carnitine O-	3	4	0.0664985	-0.238928	0.3937437	0.5267375	0.3221018
sp O09175 Aminopepti	1	2	-0.04831	-0.842592	0.7702351	0.5269375	0.3223728
sp P0CC09 Histone H2A	4	15	-0.066517	-0.328813	0.1911367	0.5275	0.3226437
sp P27653 C-1-tetrahy	4	9	0.061598	-0.194867	0.3111063	0.528625	0.3229155
sp Q5U301 A-kinase an	2	4	0.0638231	-0.182899	0.3176838	0.5295375	0.3231877
sp P11497 Acetyl-CoA	4	8	-0.061848	-0.276308	0.1490113	0.5296125	0.3234593
sp O35889 Afadin OS=f	3	4	-0.051517	-0.353834	0.2707615	0.529875	0.3237306
sp P63074 Eukaryotic t	4	9	0.0621867	-0.156702	0.2756341	0.5300125	0.3240013
sp A0JPQ9 Chitinase de	6	19	-0.065683	-0.197211	0.0658872	0.5301125	0.3242714
sp Q60587 Trifunctiona	17	65	-0.068297	-0.124012	-0.013468	0.530325	0.3245411
sp Q5M9F8 N-terminal	2	2	-0.034699	-0.959638	0.9109024	0.5310125	0.324811
sp Q9ESS6 Basal cell ac	8	13	-0.063806	-0.218763	0.0971261	0.531125	0.3250804
sp P49797 Regulator o	5	5	-0.057553	-0.375423	0.2692973	0.5312125	0.3253491
sp B2GUZ1 Ubiquitin ca	2	5	-0.059836	-0.349568	0.2220453	0.5318875	0.325618
sp P14942 Glutathione	8	28	-0.064696	-0.221183	0.0919971	0.532675	0.3258873
sp Q01129 Decorin OS=	15	100	-0.057633	-0.388899	0.2965779	0.5326875	0.3261559
sp P09812 Glycogen ph	5	10	-0.051734	-0.600638	0.479967	0.5331875	0.3264244
sp Q66HG3 Beta-Ala-Hi	1	2	0.0580067	-0.273578	0.3818457	0.5333375	0.3266924
sp Q63524 Transmemb	4	19	-0.063879	-0.225799	0.0885764	0.5333875	0.3269598
sp Q5XI83 UPF0505 pr	3	4	0.0600199	-0.261059	0.3748199	0.5334375	0.3272266
sp P53987 Monocarbo	2	3	0.0622721	-0.147336	0.2753837	0.5336375	0.3274929
sp O35763 Moesin OS=	21	69	-0.066688	-0.159665	0.0274188	0.5338	0.3277588
sp Q63358 Myosin-IXb	4	5	-0.061793	-0.347021	0.2232446	0.5338	0.3280239
sp Q5FVQ8 NLR family	2	3	-0.061105	-0.29126	0.1685346	0.5338	0.3282884
sp P46413 Glutathione	5	6	0.0630512	-0.168808	0.3083992	0.5338875	0.3285524
sp P35572 Insulin-like	1	2	0.0491878	-0.607269	0.7054486	0.534325	0.3288162
sp P97544 Lipid phosp	2	5	0.0562388	-0.262633	0.380461	0.535275	0.3290805
sp Q5FWT7 Ubiquitin-lil	4	11	0.0643125	-0.095483	0.2226546	0.535575	0.329608
sp P04466 Myosin regu	7	16	-0.001542	-1.488715	1.5113883	0.535575	0.3293446
sp Q5U2N3 Membrane-	1	2	-0.0494	-0.950452	0.8121197	0.536	0.3298712
sp Q63009 Protein argi	2	2	-0.024841	-1.190678	1.1354369	0.536575	0.3301345
sp Q5U2U7 mRNA cap g	1	2	-0.050209	-0.465695	0.3647966	0.536825	0.3303975
sp Q62799 Receptor ty	2	6	0.0556524	-0.287874	0.4018996	0.537425	0.3306606
sp Q80W57 ATP-binding	1	2	-0.052683	-0.414806	0.3187313	0.537625	0.3309232
sp Q64649 Phosphoryli	1	2	-0.057096	-0.38314	0.272511	0.53835	0.3311861
sp P05964 Protein S10	9	70	0.0625826	-0.116021	0.2412582	0.53855	0.3314486
sp Q03555 Gephyrin O	3	3	0.0728156	-0.138243	0.3240545	0.538725	0.3317106
sp P11762 Galectin-1 C	9	97	0.0626283	-0.088846	0.2178564	0.539875	0.3319735
sp Q63945 Protein SET	6	23	-0.064316	-0.175752	0.0504785	0.540075	0.3322359
sp Q5I0D1 Glyoxalase	14	48	0.0603617	-0.147636	0.2702252	0.5409125	0.3324987
sp P22062 Protein-L-is	9	31	0.0639763	-0.064378	0.1887434	0.5409375	0.3327609
sp Q91XU8 Phosphatidyl	4	9	-0.058795	-0.274526	0.1579539	0.5409875	0.3330225
sp P07943 Aldose redu	23	100	0.0587978	-0.176921	0.2880038	0.5417375	0.3332844



sp Q62632  Follistatin-r	4	10	-0.063821	-0.221954	0.0893176	0.5425375	0.3335466
sp P54290  Voltage-dep	2	2	0.067382	-0.266095	0.4427196	0.542825	0.3338085
sp Q8R424  STAM-bindi	1	2	0.0449519	-0.49938	0.5845504	0.54395	0.3340712
sp P62752  60S ribosom	13	42	-0.064023	-0.186569	0.0593169	0.5442	0.3343335
sp P15650  Long-chain	12	36	-0.065696	-0.134754	0.0065882	0.5442	0.3345952
sp P70567  Tropomodu	4	7	0.0553494	-0.194291	0.3110195	0.5454	0.3348577
sp P63142  Potassium v	2	2	0.0489701	-0.393274	0.4805578	0.5454875	0.3351197
sp P10536  Ras-related	3	12	-0.063838	-0.17701	0.0526982	0.5458625	0.3353815
sp P27952  40S ribosom	21	77	-0.064571	-0.172702	0.0434952	0.5460375	0.3356429
sp P97526  Neurofibror	1	2	0.0611267	-0.116356	0.2301019	0.54605	0.3359036
sp Q6AXS3  Protein DEK	2	2	-0.045092	-0.550826	0.4573824	0.5462	0.3361638
sp P21818  Stathmin-2	3	4	-0.057011	-0.302272	0.19254	0.5469625	0.3366837
sp P0C0A1  Vacuolar pr	1	2	0.0465165	-0.466499	0.5614184	0.5475125	0.3369436
sp P62074  Mitochondr	1	2	-0.042241	-0.583867	0.5128143	0.5479875	0.3372036
sp Q8R4C0  Calpain-5 O	3	4	0.052633	-0.25082	0.3605057	0.54815	0.337463
sp P37199  Nuclear por	2	2	-0.030116	-0.518835	0.4960614	0.5483125	0.3377221
sp Q9ESV1  Leucine zip	3	3	-0.044869	-0.543497	0.4619477	0.549175	0.3379815
sp P27615  Lysosome n	3	3	-0.05713	-0.309394	0.1920609	0.5493125	0.3382405
sp P11506  Plasma mer	3	3	-0.045863	-0.433481	0.3411849	0.549725	0.3384993
sp P05942  Protein S10	8	26	0.0627717	-0.078556	0.202305	0.549925	0.3387578
sp Q5HZY2  GTP-binding	3	8	-0.059764	-0.236312	0.1134379	0.5514125	0.3390175
sp P08033  Gap junctio	2	2	0.0361644	-0.590426	0.690006	0.5519375	0.3392771
sp Q924S1  1-acyl-sn-gl	2	2	-0.040737	-0.582017	0.5083836	0.552125	0.3395364
sp P17164  Tissue alpha	2	7	0.0457061	-0.364268	0.4674763	0.552875	0.3397959
sp P04797  Glyceraldeh	20	100	0.0623936	-0.06362	0.1886801	0.5531375	0.3400551
sp Q66H15  Regulator o	2	3	0.0439433	-0.482814	0.5793864	0.5534375	0.3403141
sp P22509  rRNA 2'-O-m	2	3	-0.054936	-0.37281	0.2579735	0.553575	0.3405726
sp P84850  D-2-hydroxy	2	2	-0.03735	-0.620982	0.5208791	0.5540375	0.340831
sp P05369  Farnesyl py	12	32	-0.065061	-0.142393	0.0139369	0.5564	0.3410917
sp Q6UPR8  Endoplasmic	3	3	-0.053863	-0.319767	0.2147239	0.5564875	0.3413518
sp Q3ZU82  Golgin subfi	4	6	-0.043818	-0.35658	0.2797727	0.556825	0.3416117
sp Q925S8  ATP-depend	2	2	0.0118332	-0.739469	0.7195921	0.55695	0.3418712
sp Q63450  Calcium/cal	2	4	0.0378083	-0.359582	0.4060792	0.5578125	0.342131
sp O55165  Kinesin-like	3	5	-0.052475	-0.343286	0.2261414	0.55825	0.3423908
sp Q99NA5  Isocitrate de	11	44	-0.064268	-0.150508	0.0239872	0.5589375	0.3426508
sp Q8K4V4  Sorting nexi	1	2	-0.046646	-0.400084	0.3222816	0.558975	0.3429101
sp Q8CF97  Deubiquitin	2	3	-0.040621	-0.49443	0.4286543	0.559875	0.34317
sp Q9WTV5  26S proteas	3	17	0.0593357	-0.090771	0.2048215	0.5603375	0.3434298
sp Q64654  Lanosterol	3	4	-0.045617	-0.367381	0.281902	0.5609	0.3436896
sp P48450  Lanosterol s	2	2	0.036463	-0.918827	1.0693757	0.5612625	0.3439492
sp P50430  Arylsulfatas	3	3	-0.048763	-0.297546	0.2239574	0.56235	0.3442095
sp Q9R1T1  Barrier-to-a	6	27	0.0611726	-0.064804	0.1792215	0.5626875	0.3444696
sp P30904  Macrophag	3	25	-0.054291	-0.250931	0.1475582	0.56285	0.3447293
sp P35815  Protein pho	2	2	-0.011682	-0.862832	0.907246	0.5631125	0.3449886
sp Q5PQJ7  Tubulin-spe	2	3	0.0343119	-0.437013	0.502635	0.5637875	0.3452482
sp P61515  60S ribosom	3	4	-0.057292	-0.252639	0.1346065	0.563925	0.3455073
sp Q6P4Z9  COP9 signal	3	4	0.0388532	-0.352818	0.4305906	0.563975	0.3457658

sp P23764	Glutathione	5	20	-0.045979	-0.359271	0.278781	0.5645125	0.3460244
sp Q8K1P7	Transcriptic	5	6	0.0531776	-0.188908	0.3001254	0.564725	0.3462826
sp P0C0R5	Phosphoino	2	4	-0.016275	-0.986144	0.8581995	0.5648625	0.3465404
sp Q5HZA6	Prolyl endo	10	27	0.0615604	-0.053518	0.1788155	0.5649	0.3467976
sp Q63692	Hsp90 co-cl	6	20	0.0629799	-0.070709	0.2080533	0.5652	0.3470545
sp D4A4T9	Cysteine an	2	4	0.0482125	-0.212283	0.2988292	0.5654	0.3473111
sp P35559	Insulin-degr	1	2	-0.04567	-0.422068	0.3175591	0.565575	0.3475673
sp Q4QQV8	Charged mu	4	8	0.0532006	-0.174545	0.2780181	0.5659625	0.3478233
sp P43245	Multidrug r	3	5	0.0473424	-0.344443	0.4615819	0.566275	0.3483341
sp Q04462	Valyl-tRNA :	30	100	-0.063565	-0.154039	0.0266763	0.5665375	0.348589
sp Q63356	Myosin-le C	4	5	-0.035125	-0.409324	0.3499538	0.566825	0.3488437
sp Q9Z142	Transmemb	2	8	-0.046133	-0.358653	0.2622328	0.5669375	0.3490978
sp Q9EQP5	Prolargin O	20	100	-0.052337	-0.289347	0.1715322	0.567125	0.3493517
sp Q6TEK3	Vitamin K e	1	2	-0.018986	-0.854825	0.7995096	0.5677	0.3496056
sp P04644	40S ribosom	6	22	-0.062751	-0.156984	0.0313261	0.5679875	0.3498592
sp P20717	Protein-argi	8	13	-0.055817	-0.227686	0.1131614	0.5681875	0.3501125
sp Q5BK81	Prostagland	3	7	-0.051374	-0.283842	0.1786707	0.5684	0.3503654
sp P97846	Contactin-a	5	15	0.0520011	-0.206284	0.3199177	0.5695	0.350619
sp P62994	Growth fact	6	18	0.0607001	-0.051589	0.1711237	0.5699875	0.3508726
sp P60522	Gamma-am	3	8	-0.012361	-0.736799	0.7392106	0.570075	0.3511258
sp P61023	Calcium-bin	3	6	0.0471191	-0.229678	0.3192	0.5701	0.3513783
sp Q5RJR2	Twinfilin-1 (	2	3	0.0423686	-0.434166	0.5300827	0.570625	0.3516309
sp Q4V8C3	Echinoderm	5	18	0.057231	-0.093191	0.2024206	0.57125	0.3518836
sp Q63060	Glycerol kin	4	5	0.0384578	-0.335497	0.3996569	0.5714	0.352136
sp P15800	Laminin sub	35	100	0.0425253	-0.284433	0.3712998	0.572025	0.3523884
sp Q9JMJ4	Pre-mRNA-sp	3	4	0.0503443	-0.180031	0.2809161	0.5724375	0.3526408
sp Q9JHZ4	GRIP1-associ	5	7	-0.048894	-0.290475	0.179143	0.5738	0.3528941
sp P47971	Neuronal pe	2	4	0.0360372	-0.333683	0.405446	0.574375	0.3531475
sp Q9WVH8	Fibulin-5 OS	10	36	0.0473886	-0.23076	0.313885	0.57445	0.3534004
sp Q9Z1B2	Glutathione	6	16	-0.05853	-0.185151	0.0682929	0.5746375	0.353653
sp Q5XIA9	Kelch doma	2	2	0.0017241	-0.932209	0.9872591	0.5747875	0.3539051
sp P05943	Protein S10	4	42	0.0554927	-0.113809	0.2226062	0.5750125	0.354157
sp Q5XIA8	Growth hor	2	4	-0.054924	-0.212949	0.1108047	0.5760375	0.3544094
sp Q62915	Peripheral p	4	7	0.0455103	-0.207687	0.3148558	0.576875	0.3549144
sp Q63584	Transmemb	6	28	-0.056213	-0.211426	0.0961678	0.577675	0.355167
sp Q8K4T4	Filamin-A-ir	4	6	0.0417652	-0.281867	0.3665385	0.577875	0.3554192
sp P05539	Collagen alp	4	9	-0.052283	-0.29252	0.2024503	0.5782125	0.3556712
sp P97839	Disks large-	2	3	0.0153543	-0.555484	0.6165448	0.5782375	0.3559227
sp Q8VBU2	Protein NDF	8	18	-0.056159	-0.210362	0.104497	0.578425	0.3561738
sp Q5XIM5	Protein CDV	6	8	-0.049939	-0.258425	0.1583425	0.578425	0.3564244
sp Q7TSA0	Mitochondr	2	7	-0.044514	-0.316841	0.2325686	0.5789125	0.3566749
sp P35738	2-oxoisoval	1	3	-0.057281	-0.19164	0.0786552	0.579075	0.3569251
sp P84060	Dystrobrevi	3	6	0.0469685	-0.20461	0.3012598	0.5798	0.3571755
sp P50408	V-type prot	4	9	-0.051469	-0.24438	0.1449568	0.5798375	0.3574254
sp Q5XIT9	Methylcroto	2	3	0.0349608	-0.355712	0.4158928	0.5806875	0.3576757
sp P61751	ADP-ribosyl	5	11	0.0582459	-0.070802	0.191403	0.5812125	0.3581755
sp O08875	Serine/thre	2	2	0.007829	-0.698011	0.7684506	0.58155	0.3584251

sp Q5XIA1  Nicalin OS=	5	11	-0.049651	-0.252757	0.1521883	0.5817	0.3586743
sp Q4KLH4  Paraspeckle	4	7	0.0458938	-0.175729	0.2675105	0.5819625	0.3589232
sp P48675  Desmin OS=	2	3	-0.018954	-0.566946	0.5253219	0.58205	0.3591717
sp P51792  H(+)/Cl(-) ex	3	3	-0.036938	-0.390003	0.3185777	0.5824875	0.3594201
sp O08836  Immunoglo	1	2	-0.003906	-0.613598	0.6253361	0.5827625	0.3596682
sp Q6AY09  Heterogene	4	12	-0.054486	-0.219643	0.1141792	0.583475	0.3599166
sp Q5PPN5  Tubulin poly	13	55	-0.060915	-0.159031	0.0329896	0.5836375	0.3601646
sp P18163  Long-chain-	3	4	-0.037675	-0.451276	0.3605907	0.5837	0.3604122
sp P47820  Angiotensin	1	2	0.0407152	-0.293773	0.3660631	0.5838125	0.3606593
sp Q9ES21  Phosphatidyl	7	20	-0.057912	-0.191483	0.0707983	0.5838375	0.3609059
sp Q6AXM8  Serum para	3	5	0.0388938	-0.385105	0.4990306	0.5840875	0.3611523
sp Q6P747  Heterochro	9	27	0.0611588	-0.030543	0.1510281	0.584175	0.3613982
sp O55148  Growth arre	2	3	-0.029848	-0.507706	0.4433152	0.5856625	0.3616451
sp P18292  Prothrombi	5	7	0.045349	-0.204197	0.2837084	0.5858625	0.3618918
sp Q9QYL8  Acyl-proteir	2	2	-0.009826	-0.705835	0.6823592	0.5860375	0.3623838
sp Q6AZ50  Ubiquitin-lil	2	3	-0.039516	-0.334461	0.2622636	0.586475	0.3626295
sp P97690  Structural n	2	3	-0.012727	-0.602657	0.6386767	0.58665	0.3628749
sp P13437  3-ketoacyl-(	16	77	-0.056479	-0.187819	0.0741102	0.586825	0.3631199
sp P62762  Visinin-like	10	37	0.0598182	-0.045045	0.1664682	0.587	0.3633646
sp Q63347  26S proteas	14	39	0.0611949	-0.020147	0.1450547	0.5871875	0.3636089
sp P52944  PDZ and LIM	2	2	-0.035543	-0.411953	0.3438003	0.58745	0.363853
sp Q63016  Large neutr	2	5	0.0455941	-0.182355	0.2816861	0.5876125	0.3640968
sp P83888  Tubulin gan	1	3	0.0364818	-0.276547	0.3732964	0.587675	0.3643401
sp P40307  Proteasome	5	13	-0.060601	-0.154688	0.030621	0.587875	0.364583
sp Q66HG9  Mitochondr	1	2	-0.008325	-0.789851	0.7932629	0.5880375	0.3648257
sp Q4V8H8  EH domain-	19	69	-0.057927	-0.177948	0.0631966	0.5885375	0.3650683
sp P97849  Long-chain	8	30	0.0596292	-0.039893	0.1566184	0.589525	0.3655534
sp P47987  Plasmolipin	2	5	0.0407078	-0.259348	0.3424786	0.589775	0.3657958
sp Q8K1Q0  Glycylpeptic	8	15	-0.051756	-0.211391	0.1140254	0.5898375	0.3660377
sp Q63186  Translation	2	2	-0.013711	-0.585633	0.570681	0.5898625	0.3662792
sp P84100  60S ribosom	9	46	-0.062307	-0.138492	0.0125934	0.589975	0.3665202
sp P97700  Mitochondr	12	27	-0.060486	-0.146817	0.0288416	0.5901375	0.3667609
sp P63312  Thymosin b	1	3	-0.050009	-0.270139	0.1701849	0.5902625	0.3670013
sp P11608  ATP synthas	2	3	-0.048069	-0.320641	0.2313819	0.5902875	0.3672411
sp P68101  Eukaryotic t	7	10	-0.045728	-0.256376	0.1573787	0.590675	0.3677197
sp Q505J9  ATPase fam	2	4	-0.034176	-0.319103	0.2631812	0.5908375	0.3679586
sp Q5XID7  Armadillo re	2	2	0.0095961	-0.684259	0.6913716	0.5911	0.3681973
sp Q9WU68  Pleckstrin h	4	10	0.0432492	-0.221528	0.3074307	0.5912875	0.3684356
sp Q91Z79  Liprin-alpha	3	5	0.0347407	-0.302032	0.3792367	0.591425	0.3686736
sp Q80Z29  Nicotinamic	2	3	-0.036383	-0.392716	0.3083621	0.5927875	0.3691503
sp P20651  Serine/thre	1	2	0.0135293	-0.481232	0.5244792	0.593275	0.3693888
sp P14740  Dipeptidyl p	2	2	-0.025348	-0.367308	0.3454988	0.5934875	0.3696269
sp P18484  AP-2 compl	24	60	-0.06214	-0.133449	0.0097075	0.5938375	0.3698649
sp Q9EST6  Acidic leucil	2	5	-0.046117	-0.278662	0.1861237	0.593925	0.3701025
sp B2GV38  Ubiquitin-lil	2	5	0.0393763	-0.226044	0.2999768	0.5945125	0.3703403
sp Q5I0M2  Nicotinate-i	3	3	-0.040532	-0.34213	0.2611915	0.5945625	0.3705775
sp P70627  Glutamate c	5	8	-0.046344	-0.26245	0.170021	0.595025	0.3708148

sp Q6AYB5	Signal recog	2	3	-0.031702	-0.357442	0.2982357	0.5950375	0.3710516
sp P62907	60S ribosom	11	40	-0.060589	-0.152786	0.0317704	0.5957	0.3712885
sp A2RUW1	Toll-interac	6	13	0.0548733	-0.078186	0.1902484	0.5957125	0.371525
sp Q6P4Z6	Leucine carl	1	2	-0.024972	-0.503372	0.4279268	0.5960125	0.3717613
sp P85108	Tubulin bet	1	6	0.0447057	-0.180983	0.2707329	0.5963875	0.3719975
sp Q6NX65	Programme	1	2	0.0303848	-0.366332	0.4186399	0.5964125	0.3724685
sp P55053	Fatty acid-b	8	37	-0.043122	-0.29258	0.2008916	0.5964125	0.3722333
sp P61227	Ras-related	1	2	0.00058	-0.670691	0.6687064	0.5964625	0.3727033
sp Q63537	Synapsin-2	4	5	-0.039346	-0.291783	0.2115784	0.5971125	0.3729383
sp P85125	Polymerase	19	75	0.0533446	-0.093965	0.1962685	0.5973625	0.373173
sp O54783	Choline/eth	2	2	-0.011279	-0.584653	0.5912486	0.5976375	0.3734076
sp B0BNF1	Septin-8 OS	8	15	-0.054849	-0.192581	0.0807953	0.598325	0.3741093
sp P27791	cAMP-depe	2	3	-0.035594	-0.365315	0.2925234	0.5985625	0.3743429
sp P70623	Fatty acid-b	1	4	0.028987	-0.348083	0.3933672	0.5995625	0.374577
sp P11250	60S ribosom	3	5	-0.057243	-0.277324	0.133274	0.5996125	0.3748107
sp Q8K4F7	Scavenger r	5	7	-0.045919	-0.234292	0.1491982	0.5999625	0.3750442
sp Q6AY12	NADH-cyto	7	15	0.0439658	-0.182765	0.2796038	0.6007875	0.3752782
sp P84586	Heterogene	10	19	-0.055113	-0.187539	0.0780629	0.6015125	0.3755124
sp Q02589	[Protein AD	3	4	-0.046094	-0.240645	0.1519525	0.601925	0.3757465
sp B0BNA5	Coactosin-li	8	18	-0.056665	-0.173481	0.0577368	0.6019625	0.3759802
sp P62890	60S ribosom	5	16	-0.052656	-0.195796	0.0954369	0.6029625	0.3762144
sp Q62967	Diphosphor	2	4	0.0245162	-0.345752	0.3954465	0.603325	0.3764486
sp Q63531	Ribosomal p	2	5	-0.02658	-0.371117	0.3257826	0.603425	0.3766823
sp P04692	Tropomyosi	6	23	-0.030077	-0.36096	0.2999871	0.60395	0.3769161
sp Q4KLG2	GTPase IMA	2	6	-0.037902	-0.274647	0.2072034	0.604075	0.3771496
sp P63012	Ras-related	5	15	-0.052649	-0.190522	0.0883431	0.6044125	0.3773829
sp Q6DGG0	Peptidyl-pro	6	17	0.0520267	-0.086426	0.1901614	0.6052875	0.3776167
sp Q7TNY6	Golgi reside	3	6	-0.047304	-0.222248	0.1231217	0.6056875	0.3778504
sp P13668	Stathmin O'	11	45	0.0470966	-0.135745	0.2367507	0.605775	0.3783164
sp B1WBUE	UPF0639 pr	2	3	-0.002884	-0.626421	0.6266782	0.6067875	0.3785498
sp Q9ESR9	ATP-binding	3	7	-0.042281	-0.238802	0.1567119	0.609075	0.3790186
sp Q66H98	Serum depr	6	27	-0.045448	-0.243092	0.1514899	0.609175	0.3792529
sp P06687	Sodium/pot	14	43	0.053646	-0.07568	0.185076	0.6093875	0.379487
sp P69682	Adaptin ear	2	4	0.0323277	-0.293837	0.3571839	0.610125	0.3797214
sp Q9Z1I6	Rho guanin	1	2	-0.017992	-0.514099	0.4451957	0.610225	0.3799554
sp Q4AEF8	Coatome s	14	30	0.0544041	-0.063607	0.1693984	0.6104125	0.3801892
sp P62963	Profilin-1 O'	9	41	-0.058842	-0.14956	0.0314482	0.6108125	0.3806558
sp P06907	Myelin prot	8	100	0.0397752	-0.190814	0.2790483	0.6109875	0.3808887
sp O35568	EGF-contair	1	3	0.0077361	-0.46785	0.4469229	0.6109875	0.3811211
sp Q04631	Protein farr	3	5	-0.03155	-0.317144	0.2433584	0.61105	0.3813532
sp O08838	Amphiphysi	9	23	0.0530172	-0.070727	0.1848858	0.6111375	0.3815848
sp P54311	Guanine nu	6	21	0.0532852	-0.067979	0.1741804	0.611425	0.3820472
sp P04904	Glutathione	14	48	0.0527432	-0.079039	0.1880754	0.6115375	0.3822779
sp Q5NDF0	Uncharacte	3	4	-0.01321	-0.507835	0.4805162	0.611975	0.3825085
sp B2RYW9	Fumarylac	5	7	-0.042421	-0.260772	0.1674272	0.6120875	0.3827387
sp Q499N5	Acyl-CoA sy	5	14	-0.046801	-0.218241	0.1246949	0.612725	0.3829692
sp Q641X3	Beta-hexosi	3	6	0.0371729	-0.203691	0.2747928	0.6129	0.3831993

sp P52632	Signal trans	2	3	-0.044335	-0.234303	0.146296	0.6133875	0.3834295
sp B0BN56	28S ribosom	1	2	-0.012794	-0.517008	0.4735414	0.6139625	0.384347
sp Q4FZT6	Histone H2A	1	2	-0.024418	-0.426414	0.4061106	0.6141	0.3845757
sp P51871	Cytochrome	1	2	0.0438113	-0.154498	0.2541042	0.6141375	0.3848039
sp Q5I0D5	Phospholysi	4	7	0.0385303	-0.201424	0.2896231	0.6141625	0.3850316
sp Q5U2R3	FERM doma	3	7	0.0034607	-0.495913	0.5223032	0.614375	0.3852591
sp P31000	Vimentin O	22	100	-0.055131	-0.170655	0.0562845	0.6144	0.3854862
sp Q4V8E4	Coiled-coil c	2	3	0.0129766	-0.441179	0.4744431	0.6145	0.385713
sp Q5U211	Sorting nexi	7	16	-0.055871	-0.164741	0.0561206	0.614575	0.3859394
sp Q9EQN5	DNA-bindin	6	8	0.0383063	-0.192285	0.2623169	0.6147625	0.3861655
sp P12007	Isovaleryl-C	7	13	-0.053381	-0.182194	0.071027	0.615475	0.3863918
sp P38656	Lupus La pr	9	16	-0.045028	-0.230619	0.1358971	0.615925	0.3866182
sp P39069	Adenylate k	9	34	0.0398759	-0.180905	0.2591317	0.616125	0.3868443
sp P13852	Major prion	2	2	-0.014608	-0.494974	0.4411887	0.6165875	0.3872957
sp Q9WV97	Mitochondr	2	3	-0.039159	-0.254035	0.1800817	0.6191875	0.3879762
sp Q9JHW0	Proteasome	4	13	-0.052196	-0.177421	0.0737215	0.6194	0.3882029
sp Q641Y2	NADH dehy	9	16	0.0476047	-0.103915	0.1954882	0.619625	0.3884293
sp Q9Z254	PDZ domair	3	6	0.032784	-0.224372	0.2773334	0.6202375	0.3886559
sp P11505	Plasma mer	5	10	-0.0473	-0.219696	0.1296294	0.620275	0.3888821
sp Q07266	Drebrin OS=	11	29	0.0564961	-0.040188	0.1586526	0.6205375	0.3891081
sp P25304	Agrin OS=R	6	7	0.0185353	-0.329573	0.3698894	0.6210625	0.3893342
sp Q4V8C7	Interferon-i	5	13	0.0355609	-0.19281	0.2651398	0.6214	0.3895601
sp P13233	2',3'-cyclic-r	25	100	0.0538341	-0.060581	0.1703062	0.6217375	0.389786
sp P41498	Low molecu	6	13	0.0485247	-0.102263	0.1938726	0.6219625	0.3900116
sp Q08420	Extracellula	2	4	-0.00604	-0.469562	0.4644407	0.623275	0.3904638
sp P14841	Cystatin-C C	4	11	0.0405007	-0.163863	0.2523732	0.62335	0.3906895
sp Q0ZCA7	C-type lecti	4	13	0.0498047	-0.09234	0.1912215	0.623825	0.3911404
sp Q5FVK6	Coiled-coil a	4	5	-0.033467	-0.30926	0.2436169	0.6246375	0.391366
sp Q68FR6	Elongation f	23	100	-0.051904	-0.177048	0.0739619	0.6246625	0.3915912
sp Q9WVS2	Probable O-	2	2	0.0021511	-0.46349	0.4845331	0.6252375	0.3920411
sp B2GUV7	Eukaryotic t	2	2	-0.027973	-0.31958	0.2701481	0.62705	0.3922673
sp Q5PPH0	Enolase-pho	5	18	-0.040059	-0.254386	0.1648623	0.6273375	0.3924934
sp P30835	6-phosphof	4	7	0.0356885	-0.181395	0.2556944	0.6275375	0.3927191
sp Q9Z339	Glutathione	3	4	0.0362423	-0.204442	0.2894659	0.6275625	0.3929445
sp Q62824	Exocyst con	4	5	0.0256784	-0.296916	0.3632177	0.6279	0.3933945
sp P0C0S7	Histone H2A	3	25	-0.04048	-0.239137	0.1565531	0.6279125	0.3936189
sp P43244	Matrin-3 OS	10	32	-0.042626	-0.225487	0.1361434	0.628075	0.3938431
sp Q64428	Trifunctiona	24	85	-0.061876	-0.120637	-0.001894	0.6281625	0.3940669
sp P84245	Histone H3.	4	24	0.0301056	-0.227419	0.2967846	0.6282625	0.3942904
sp P32577	Tyrosine-pr	3	4	-0.015999	-0.405668	0.3742974	0.628475	0.3945136
sp P85971	6-phosphog	3	8	0.0408023	-0.149226	0.2286868	0.6290625	0.3951818
sp P30349	Leukotriene	10	18	-0.050097	-0.185702	0.0795044	0.6293625	0.3954042
sp O35142	Coatomer s	15	34	-0.04969	-0.182986	0.0818945	0.63025	0.395627
sp Q5XIF6	Tubulin alpl	4	25	0.0493768	-0.101924	0.1985755	0.6304875	0.3958496
sp P70483	Striatin OS=	2	3	-0.008741	-0.400822	0.3679265	0.6305	0.3960718
sp P39052	Dynamin-2	4	7	0.0217986	-0.305662	0.3558214	0.6308625	0.396294
sp Q9Z1E1	Flotillin-1 O	17	38	0.0537527	-0.052814	0.1579025	0.631125	0.3965159

sp Q5BJT2  Ubiquitin-lil	2	4	0.0109494	-0.381224	0.3914866	0.6321875	0.397403
sp Q9JMI1  Acetoacetyl	2	3	0.006249	-0.387107	0.4166464	0.6322625	0.3976239
sp P28075  Proteasome	3	5	0.0351984	-0.178327	0.2552789	0.63245	0.3978446
sp Q68FR9  Elongation f	11	51	-0.055817	-0.146908	0.0395467	0.632575	0.398065
sp P24050  40S ribosom	8	31	-0.059207	-0.130268	0.0087736	0.6328375	0.3982853
sp Q561S0  NADH dehy	8	17	-0.048597	-0.180724	0.0825606	0.6329375	0.3985052
sp P0C5W1  Microtubule	4	6	0.0312673	-0.210465	0.2680389	0.6335125	0.3989448
sp O35828  Coronin-7 (l	4	8	0.0366519	-0.167087	0.2423275	0.633675	0.3991642
sp Q64559  Cytosolic ac	13	42	-0.057934	-0.137902	0.0180509	0.6336875	0.3993832
sp P97629  Leucyl-cysti	5	15	0.0249676	-0.258412	0.2996808	0.6337	0.3996017
sp Q6AY84  Secernin-1 (	14	44	0.027201	-0.238356	0.309074	0.6337375	0.3998199
sp Q99PF5  Far upstre	6	16	-0.050394	-0.172321	0.0693372	0.6342625	0.4000382
sp P63322  Ras-related	8	27	0.0570669	-0.027423	0.1408247	0.6347	0.4002565
sp P17955  Nuclear por	1	3	0.0158988	-0.314164	0.3555692	0.6351875	0.4004749
sp Q9QXU9  ProSAAS OS	2	4	-0.006926	-0.379621	0.3443655	0.6362125	0.4006937
sp Q9R1T5  Aspartoacyl	12	35	0.033134	-0.200027	0.2698015	0.6363375	0.4009123
sp Q9JIH7  Serine/thre	2	3	0.0088435	-0.39676	0.4204176	0.6367625	0.401349
sp Q00657  Chondroitin	4	10	-0.041143	-0.215751	0.129155	0.636975	0.401567
sp P62959  Histidine tri	4	11	-0.019728	-0.323539	0.2940359	0.63735	0.4017849
sp P62944  AP-2 compl	13	32	-0.057243	-0.1325	0.0179755	0.63805	0.4022204
sp P63041  Complexin-	4	14	0.0455042	-0.105273	0.1925445	0.63835	0.402438
sp Q5I0P2  Glycine clea	3	9	-0.03986	-0.222912	0.1471919	0.6388875	0.4026557
sp P84903  Stromal inte	2	5	-0.024671	-0.298753	0.236997	0.63985	0.4030916
sp Q8R478  WW domain	5	19	0.0413661	-0.142824	0.2239767	0.64055	0.4033096
sp P54690  Branched-cl	13	44	0.0504605	-0.072107	0.1725019	0.6405625	0.4035273
sp Q99MS0  SEC14-like p	2	3	-0.015901	-0.320157	0.2833289	0.6406875	0.4037446
sp Q02874  Core histon	8	44	-0.049564	-0.172507	0.0739696	0.6409375	0.4039619
sp Q6AYR6  Haloacid de	3	5	-0.020416	-0.296665	0.2679396	0.6409875	0.4041787
sp P09215  Protein kina	2	2	-0.021192	-0.309829	0.2672737	0.641025	0.4043952
sp P12749  60S ribosom	10	22	-0.055255	-0.144778	0.0359993	0.6416625	0.4046119
sp Q920A6  Retinoid-inc	7	16	-0.044334	-0.192184	0.109961	0.6422125	0.4050449
sp Q64303  Serine/thre	5	9	-0.030559	-0.266505	0.1997018	0.6426875	0.4052614
sp O08700  Vacuolar pr	2	4	-0.022937	-0.305465	0.2541311	0.64405	0.4054786
sp Q5XID1  Anamorsin	4	5	0.0008596	-0.385331	0.398315	0.6443625	0.4056958
sp Q4V8B0  Oxidation re	7	12	-0.043202	-0.194571	0.1059269	0.6452	0.4059133
sp O35112  CD166 antig	7	20	-0.044879	-0.19109	0.0983932	0.64535	0.4061306
sp P29975  Aquaporin-	2	3	0.0098744	-0.397952	0.4185443	0.646	0.4063481
sp P29314  40S ribosom	17	61	-0.053603	-0.152368	0.0432002	0.6464	0.4065655
sp P82471  Guanine nu	7	15	0.0398488	-0.127261	0.2012031	0.6467375	0.4067829
sp Q6PEC0  Bis(5'-nucle	5	8	-0.016974	-0.308828	0.2752711	0.646775	0.4069999
sp P21533  60S ribosom	17	76	-0.054992	-0.143017	0.0317462	0.64755	0.4072172
sp Q924S5  Lon proteas	8	20	-0.045615	-0.180755	0.094943	0.647775	0.4074343
sp Q9Z2L9  Protein NDF	3	4	0.0142675	-0.326431	0.3503261	0.6482	0.4076514
sp Q9R1Z0  Voltage-dep	8	20	-0.048852	-0.170515	0.0726591	0.648275	0.4078681
sp P13084  Nucleophos	9	23	-0.052703	-0.156252	0.0522105	0.648775	0.408085
sp Q5XHY7  Signal trans	2	5	-0.011997	-0.335689	0.3209321	0.6488875	0.4083015
sp P62278  40S ribosom	12	68	-0.04969	-0.164131	0.0670396	0.6490375	0.4085178

sp P04631	Protein S10	7	55	-0.032458	-0.24597	0.1862159	0.6492375	0.4087339
sp P26817	Beta-adren	1	3	0.0045898	-0.338444	0.3416825	0.650125	0.4089504
sp Q62733	Lamina-ass	8	13	0.0455662	-0.085862	0.1770439	0.650375	0.4091667
sp P56571	ES1 protein	12	50	-0.05724	-0.128957	0.0149912	0.650825	0.4093831
sp Q5FVM6	Myotubular	2	2	0.0178691	-0.298407	0.3267598	0.6519125	0.4096
sp Q811U3	ELKS/Rab6-	3	4	-0.004393	-0.364814	0.3614523	0.6534375	0.4098179
sp P50554	4-aminobut	15	41	-0.047771	-0.170004	0.073432	0.65585	0.4109075
sp P06685	Sodium/pot	21	100	0.0505224	-0.056179	0.1584508	0.656	0.4111253
sp Q6PST4	Atlastin-1 O	11	20	-0.040352	-0.200423	0.1196994	0.6574125	0.4115618
sp Q6MG61	Chloride int	3	6	0.0263995	-0.201848	0.2546464	0.6579375	0.4117802
sp P29410	Adenylate k	4	12	-0.032796	-0.22871	0.1552071	0.6591625	0.4119993
sp P38718	Brain protei	3	7	-0.02622	-0.255837	0.2036453	0.659175	0.412218
sp P51673	Cellular reti	2	7	-0.029227	-0.242488	0.1810005	0.65935	0.4124365
sp P85845	Fascin OS=F	11	32	-0.035886	-0.212608	0.1458045	0.6594625	0.4126548
sp P16446	Phosphatid	8	19	-0.039048	-0.20744	0.1231801	0.6602125	0.4128733
sp O35244	Peroxiredox	14	47	-0.043976	-0.183478	0.0927147	0.66055	0.4133094
sp P97532	3-mercapto	5	8	0.0301841	-0.164193	0.2286538	0.661425	0.4135278
sp Q63965	Sideroflexin	3	7	-0.028616	-0.233256	0.1763531	0.6621125	0.4139642
sp P09456	cAMP-depe	6	11	0.0305169	-0.16886	0.2312015	0.66285	0.4141828
sp P61959	Small ubiqu	1	4	0.0358406	-0.143151	0.2125781	0.6635625	0.4144015
sp Q5M9I5	Cytochrome	1	3	0.0266104	-0.24412	0.3044642	0.6638	0.4146201
sp Q704S8	Carnitine O-	6	8	0.0292394	-0.171063	0.2313401	0.6648125	0.4148392
sp Q9JJ50	Hepatocyte	4	10	-0.002588	-0.433027	0.4032849	0.6650625	0.4150581
sp B0BN18	Prefoldin su	4	9	-0.041788	-0.183091	0.0943762	0.6659	0.4152774
sp P09414	Nuclear fac	1	3	0.0298185	-0.165615	0.230735	0.666075	0.4154964
sp Q91Y81	Septin-2 OS	13	46	-0.051228	-0.149804	0.0459091	0.6666625	0.4159341
sp Q642A6	von Willebr	11	44	0.0349166	-0.141913	0.2117071	0.66705	0.4163709
sp P35467	Protein S10	1	4	-0.029226	-0.236435	0.1750932	0.6674125	0.4165892
sp O88658	Kinesin-like	4	6	0.0105444	-0.27192	0.3076478	0.6678375	0.4170252
sp P38062	Methionine	7	10	0.0423122	-0.091697	0.1733671	0.6684	0.4172432
sp P50398	Rab GDP dis	19	80	0.0563568	-0.016039	0.1276994	0.66875	0.4176785
sp P97534	Peptidyl-pro	2	7	0.0399509	-0.102942	0.1856453	0.668875	0.4178958
sp Q5M7U6	Actin-relate	6	15	-0.034971	-0.205434	0.1360014	0.669225	0.418113
sp P48508	Glutamate--	3	8	-0.035137	-0.190404	0.1268396	0.66925	0.4183298
sp Q6MG08	ATP-binding	7	13	-0.029343	-0.213512	0.1560062	0.670325	0.4194116
sp P61972	Nuclear tra	5	15	-0.028099	-0.228261	0.178954	0.6712	0.4196279
sp P24473	Glutathione	6	8	-0.030784	-0.212327	0.1497074	0.67125	0.4198439
sp P32198	Carnitine O-	6	15	0.0233141	-0.219773	0.274706	0.6719	0.4200601
sp Q5HZE4	Methylthior	3	5	0.0146832	-0.244712	0.2764575	0.6719	0.4202759
sp P35571	Glycerol-3-p	9	17	0.0290705	-0.162639	0.2240098	0.67215	0.4204915
sp P22734	Catechol O-	7	17	-0.031122	-0.216317	0.1599895	0.672325	0.420707
sp Q68FS2	COP9 signal	7	19	-0.046477	-0.152684	0.0613325	0.6727625	0.4211374
sp Q8VHK7	Hepatoma-c	3	8	-0.044602	-0.15993	0.0708888	0.67285	0.4213522
sp P23965	3,2-trans-er	9	34	-0.044473	-0.16998	0.0792121	0.67355	0.4219954
sp P35213	14-3-3 prot	4	7	-0.026023	-0.23794	0.1940412	0.6737125	0.4222095
sp Q5FVL2	Neighbor of	3	6	-0.011011	-0.277524	0.2647224	0.6740375	0.4224234
sp Q62835	Rab GTPase	2	5	0.0053009	-0.306701	0.3039993	0.6748125	0.4228513

sp P08649	Complemer	9	14	-0.025372	-0.232316	0.1774956	0.675325	0.4232787
sp P24329	Thiosulfate	11	26	0.04869	-0.048573	0.1425197	0.6758125	0.4234924
sp P19944	60S acidic ri	2	11	0.0170399	-0.232748	0.2751857	0.6761375	0.4237059
sp P97615	Thioredoxin	2	5	-0.023361	-0.242117	0.197856	0.676575	0.4239195
sp Q5U2Q3	Ester hydro	4	5	0.0157002	-0.238782	0.2759203	0.6765875	0.4241327
sp P42123	L-lactate de	20	100	0.0442959	-0.074902	0.1703209	0.676625	0.4243456
sp P55161	Nck-associa	6	9	0.0227056	-0.186589	0.229327	0.6779875	0.4245593
sp B0BN85	Suppressor	5	11	0.0325646	-0.134638	0.2099736	0.6782125	0.4247728
sp Q9ES53	Ubiquitin fu	3	6	-0.010309	-0.281692	0.2625362	0.6792625	0.426049
sp O08837	Cell division	5	6	-0.014281	-0.268979	0.2425006	0.68	0.4262615
sp Q63798	Proteasome	6	9	-0.02712	-0.225392	0.1676664	0.6804625	0.426686
sp Q9Z2Q1	Protein trar	17	41	-0.051444	-0.135341	0.0303546	0.6813125	0.4268985
sp Q63569	26S proteas	13	44	-0.05041	-0.135862	0.0379349	0.681625	0.427111
sp P41499	Tyrosine-pr	7	8	-0.016186	-0.267708	0.2348216	0.6823875	0.427959
sp Q27W01	RNA-bindin	2	6	0.0371085	-0.107921	0.1767747	0.6825125	0.4281704
sp P12368	cAMP-depe	7	12	0.0355483	-0.121336	0.1921368	0.683425	0.4283822
sp Q63258	Integrin alp	15	35	0.053148	-0.024552	0.1294594	0.6837375	0.428594
sp P54319	Phospholipa	6	11	0.0350608	-0.119177	0.1842193	0.6840375	0.4288056
sp P24090	Alpha-2-HS-	14	82	0.0099838	-0.257773	0.2781764	0.68525	0.4292296
sp P47875	Cysteine an	13	37	-0.045893	-0.156148	0.0617565	0.685425	0.4294414
sp Q9ESH6	Glutaredoxi	4	13	-0.026203	-0.216809	0.1641408	0.6857625	0.429653
sp Q00438	Polypyrimid	4	7	-0.033288	-0.193678	0.129226	0.6862875	0.4298648
sp P34067	Proteasome	4	17	-0.041439	-0.16696	0.0812451	0.6875	0.4304994
sp P04764	Alpha-enola	18	91	0.053723	-0.02015	0.1254327	0.68785	0.4307111
sp Q8R431	Monoglycer	12	41	-0.031791	-0.195827	0.1348502	0.6895	0.431556
sp Q62645	Glutamate	2	6	0.0326576	-0.125499	0.1895223	0.6899625	0.4317676
sp P04897	Guanine nu	7	30	0.0400547	-0.08181	0.1688979	0.69	0.4319789
sp P04256	Heterogene	8	30	-0.0501	-0.133136	0.03393	0.6909625	0.4324015
sp O88989	Malate deh	21	80	0.0509089	-0.033842	0.1334882	0.6910375	0.4326126
sp Q8CH84	ELAV-like pr	2	5	-0.016827	-0.2451	0.2069975	0.6911875	0.4328235
sp P51886	Lumican OS	13	100	-0.014275	-0.259723	0.2130243	0.6924625	0.4332454
sp O35095	Neurochonc	16	33	-0.047466	-0.140251	0.0462145	0.6924625	0.4334563
sp Q5U2V8	Transmemb	3	4	0.0120165	-0.238253	0.2670051	0.692575	0.433667
sp P08460	Nidogen-1 (	7	40	0.0069928	-0.258098	0.2739261	0.6931625	0.4338778
sp Q5FVI6	V-type prot	9	19	-0.043372	-0.147662	0.0638834	0.6934375	0.4340885
sp Q923S8	Pantothena	2	4	0.0266769	-0.205781	0.2906929	0.69395	0.4342992
sp P62332	ADP-ribosyl	2	8	0.0145515	-0.227512	0.2585964	0.6941375	0.4345098
sp P01041	Cystatin-B C	4	10	-0.029742	-0.196689	0.1378633	0.6952625	0.434721
sp P39032	60S ribosom	5	18	-0.048454	-0.144146	0.0495298	0.6952875	0.4349318
sp Q63413	Spliceosom	15	26	-0.049617	-0.136486	0.034444	0.6955625	0.4351425
sp P35565	Calnexin OS	22	85	-0.050937	-0.132247	0.031273	0.6956	0.4353528
sp P97521	Mitochondr	3	5	0.0189261	-0.187654	0.2279718	0.696675	0.4357741
sp Q794F9	4F2 cell-sur	8	24	0.0421886	-0.075447	0.1617739	0.6967	0.4359844
sp P21263	Nestin OS=f	40	98	-0.014814	-0.247488	0.2147174	0.6975875	0.436195
sp Q5U2Z3	Nucleosom	8	20	0.0350747	-0.108313	0.1752958	0.6979125	0.4366157
sp Q4QQT4	Serine/thre	5	18	0.0386905	-0.088713	0.1653147	0.698125	0.4368257
sp Q4V7D2	Protein rogi	2	2	-0.014662	-0.246482	0.2270832	0.69875	0.4372457



sp P14882  Propionyl-C	6	18	-0.036549	-0.170413	0.0967876	0.699425	0.437665
sp P11348  Dihydropter	7	24	-0.046216	-0.148936	0.0521366	0.6995125	0.4378745
sp P97834  COP9 signal	5	8	-0.026614	-0.202247	0.1485418	0.6996125	0.4380837
sp Q66HF9  Leucine-rich	1	2	-0.000778	-0.335392	0.3442653	0.7002	0.4382931
sp Q63081  Protein disu	14	58	-0.052795	-0.126253	0.0211666	0.7003875	0.4385022
sp P07151  Beta-2-micr	3	8	0.0262854	-0.149905	0.1974612	0.7006	0.4389199
sp Q5XII0 E Mammalian	10	30	-0.030525	-0.191589	0.1283687	0.7006	0.4387112
sp P54645  5'-AMP-acti	6	7	0.0167791	-0.189695	0.2312225	0.7015375	0.439129
sp Q68FT9  Selenocyste	3	5	-0.008394	-0.251431	0.2351265	0.7018125	0.439338
sp Q99JD4  CLIP-associa	9	16	-0.034284	-0.16997	0.1031079	0.7018625	0.4395467
sp Q6P686  Osteoclast-s	9	29	0.0443738	-0.055483	0.1496841	0.7022875	0.4401716
sp Q9EPB1  Dipeptidyl p	3	9	0.0062647	-0.249873	0.2613104	0.7036125	0.4405884
sp P13221  Aspartate a	20	81	0.0365797	-0.096447	0.1696607	0.7048	0.4414204
sp P02564  Myosin-7 O	2	3	0.0009668	-0.26623	0.2938336	0.7058625	0.442252
sp Q7TP47  Heterogene	14	41	-0.043988	-0.147523	0.0610757	0.7066125	0.4426668
sp Q5RKH0  Putative oxi	2	5	0.0107232	-0.214981	0.2399595	0.7085	0.4430823
sp P10688  1-phosphat	5	11	0.0192739	-0.17331	0.2061083	0.708975	0.4437063
sp Q5U318  Astrocytic p	10	41	0.0137358	-0.205847	0.2314932	0.7090625	0.4439138
sp Q00981  Ubiquitin ca	17	100	0.0375822	-0.090405	0.1663115	0.709075	0.4441209
sp P07335  Creatine kir	19	100	-0.041789	-0.154201	0.0717942	0.709425	0.444328
sp Q99ML5  Prenylcyste	6	18	-0.036644	-0.161844	0.0884888	0.7101875	0.4449486
sp Q4V7C7  Actin-relate	15	50	-0.052815	-0.121865	0.0161484	0.7104875	0.4451552
sp Q9EQR2  Alkyldihydro	4	8	-0.00391	-0.240967	0.2505224	0.7105125	0.4453616
sp Q62991  Sec1 family	7	11	-0.018613	-0.209745	0.1720692	0.7107375	0.4455678
sp Q62625  Microtubule	2	9	0.0196275	-0.172194	0.2152548	0.7114875	0.4459798
sp P21775  3-ketoacyl-C	10	33	-0.018762	-0.215801	0.1823609	0.7127375	0.4461866
sp Q9QX69  LanC-like pr	8	14	0.039544	-0.07461	0.1586834	0.7128875	0.4463932
sp Q91Y78  Ubiquitin ca	3	8	0.0202563	-0.171772	0.210979	0.7134875	0.4468061
sp Q5XIE0  Acidic leuci	2	5	-0.001603	-0.287264	0.3103601	0.7136375	0.4472181
sp P41123  60S ribosom	8	32	-0.043147	-0.149939	0.0588772	0.7137125	0.4474238
sp P48679  Prelamin-A	28	100	-0.038291	-0.156635	0.0855732	0.713825	0.4476292
sp P52590  Nuclear por	4	5	0.0113618	-0.219811	0.2233096	0.713925	0.4478343
sp P86252  Transcriptic	9	56	-0.052363	-0.117277	0.0140026	0.715175	0.4480401
sp P85969  Beta-soluble	7	14	-0.019327	-0.20424	0.1647319	0.7152	0.4482456
sp Q9JLZ1  Glutaredoxi	12	33	-0.042951	-0.141134	0.0559562	0.715575	0.4486561
sp P97697  Inositol moi	8	22	-0.039579	-0.149033	0.0745248	0.715925	0.4488612
sp Q6P9T8  Tubulin bet	2	19	-0.025215	-0.191692	0.1447837	0.716575	0.4490665
sp P62260  14-3-3 prot	16	63	-0.055142	-0.109071	0.0014595	0.7168125	0.4492717
sp Q5BJS0  Putative AT	4	5	0.009862	-0.21307	0.2446898	0.7175375	0.4496816
sp Q6JE36  Protein NDF	14	61	-0.026808	-0.193718	0.1326407	0.71835	0.4500915
sp Q62818  Translation	3	9	0.0090723	-0.206616	0.2309203	0.71855	0.4502965
sp Q9EPF2  Cell surface	9	26	0.0340963	-0.100099	0.1744273	0.7192625	0.4505016
sp Q05096  Myosin-Ib C	11	24	0.0318578	-0.101646	0.1748266	0.720075	0.4509122
sp Q6AXM7  HBS1-like pr	3	7	-0.016021	-0.208472	0.1722853	0.7206375	0.4513223
sp A1L1J9  Lipase matu	2	5	-0.020836	-0.303489	0.2275161	0.7208625	0.4515271
sp B5DEH2  Erlin-2 OS=f	8	14	0.0301256	-0.109861	0.166753	0.72135	0.451732
sp Q4QQW  Putative ph	7	20	0.02361	-0.144928	0.1904105	0.7226625	0.4523466

sp O35952	Hydroxyacy	5	10	-0.03032	-0.168107	0.1090207	0.7238	0.4529619
sp P62329	Thymosin b	2	9	-0.020164	-0.201293	0.1561628	0.7242375	0.4531667
sp Q63768	Adapter mc	6	16	-0.030203	-0.168444	0.1078646	0.7242875	0.4535756
sp P84817	Mitochondr	4	7	0.0103015	-0.213096	0.2337157	0.72455	0.4541871
sp P16036	Phosphate c	12	39	-0.04904	-0.127936	0.0290923	0.72465	0.4545935
sp P29419	ATP synthas	5	23	-0.041405	-0.138963	0.0566234	0.72475	0.4547963
sp Q5XI81	Fragile X me	9	22	-0.032184	-0.158538	0.0962953	0.7261625	0.4554051
sp O35795	Ectonucleos	7	15	-0.009454	-0.232163	0.2080445	0.726475	0.455608
sp Q63270	Cytoplasmic	9	13	-0.012246	-0.211275	0.1906744	0.7267875	0.4558108
sp P15865	Histone H1.	15	100	0.0186228	-0.163367	0.2048547	0.727025	0.4560135
sp P27867	Sorbitol def	4	13	0.0357594	-0.088227	0.1554444	0.728575	0.4572288
sp P13676	Acylamino- $\alpha$	4	10	-0.000158	-0.2338	0.2341698	0.7288625	0.4576323
sp P20294	Ciliary neur	6	13	0.0058487	-0.222753	0.2421544	0.7293625	0.457834
sp Q4KLF8	Actin-relate	2	8	-0.001778	-0.272272	0.240795	0.729375	0.4580355
sp Q63610	Tropomyosi	8	36	0.0303895	-0.108037	0.170777	0.7303625	0.4588396
sp P41350	Caveolin-1 (	9	32	0.0218798	-0.147676	0.1885657	0.7304125	0.4592407
sp Q3SWU3	Heterogene	5	16	-0.026733	-0.172961	0.1162299	0.7319375	0.4604416
sp Q68FT1	Ubiquinone	3	5	-0.010865	-0.207928	0.1949306	0.73215	0.4608405
sp P30839	Fatty aldehy	6	21	0.0318688	-0.096089	0.1636366	0.7342875	0.4622356
sp Q9WV63	Kinesin-like	2	7	-0.013199	-0.204218	0.1797687	0.734775	0.4624345
sp P63036	DnaI homol	7	18	-0.03633	-0.15143	0.0811227	0.735	0.4630299
sp Q9Z270	Vesicle-assc	8	30	-0.051372	-0.11484	0.0118447	0.7359	0.463624
sp O35783	Calumenin (	6	18	-0.031534	-0.168063	0.0992779	0.737025	0.4642177
sp Q63525	Nuclear mig	8	16	0.0303362	-0.111603	0.1797707	0.7373625	0.4646131
sp Q9JI85	Nucleobind	5	8	0.0031486	-0.208129	0.2199642	0.7381625	0.465402
sp Q9WVR7	Protein pho	5	13	0.0020229	-0.215993	0.231554	0.7381875	0.4655988
sp P62919	60S ribosom	17	76	-0.045864	-0.131997	0.03612	0.7382	0.4657953
sp P13697	NADP-depe	8	22	-0.038994	-0.141143	0.0619886	0.73825	0.4661876
sp P04041	Glutathione	6	21	0.0165401	-0.160355	0.1932668	0.7388875	0.4663838
sp P08644	GTPase KRa	5	8	-0.015791	-0.198679	0.1696362	0.7393375	0.4667759
sp Q66HG5	Transmemb	4	9	0.0139535	-0.165833	0.1921383	0.740325	0.4669723
sp Q3B8Q0	Microtubule	6	16	-0.027014	-0.167545	0.1135893	0.7412125	0.4673651
sp P84092	AP-2 compl	10	25	0.0436993	-0.042089	0.1301511	0.741625	0.4677577
sp P62138	Serine/thre	3	4	-0.001929	-0.241049	0.2313614	0.7418875	0.4679537
sp P61078	Ubiquitin-co	2	9	-0.036532	-0.144317	0.0714967	0.742125	0.4681497
sp O35796	Complemer	6	19	-0.02961	-0.16233	0.104425	0.74245	0.4685412
sp Q62745	CD81 antigen	4	21	0.0019374	-0.221404	0.2290551	0.742825	0.4687368
sp O35303	Dynamin-1-	21	56	-0.04377	-0.127461	0.0436421	0.742975	0.4689323
sp P51583	Multifuncti	5	6	-8.25E-05	-0.219398	0.2246716	0.7442125	0.4695193
sp P14562	Lysosome-a	2	5	0.0100594	-0.183464	0.1979144	0.74425	0.4699096
sp Q5PQN7	Protein LZIC	3	10	-0.011394	-0.19786	0.1704442	0.7443125	0.4701043
sp P67874	Casein kina	3	12	0.0164054	-0.152129	0.1960495	0.7454125	0.470883
sp P27605	Hypoxanthi	9	31	0.0264575	-0.116585	0.1658489	0.74765	0.4716624
sp P11232	Thioredoxin	10	66	0.0096932	-0.175971	0.2037746	0.7486125	0.4720521
sp P49911	Acidic leuci	5	15	-0.016093	-0.178152	0.1461644	0.7492875	0.4722473
sp Q9Z1H9	Protein kina	6	17	0.0248359	-0.115957	0.1645705	0.749375	0.4724423
sp Q01177	Plasminoge	10	25	0.0133677	-0.164632	0.1917047	0.7503625	0.4728325

sp Q9WVK7  Hydroxyacy	11	38	-0.048794	-0.11658	0.0175184	0.750775	0.4730277
sp P70500  CDP-diacylg	3	8	-0.008872	-0.19437	0.1918389	0.751075	0.4734175
sp P70645  Bleomycin b	2	9	0.0105883	-0.172247	0.1999017	0.7512	0.4736121
sp Q6IRE4  Tumor suscep	5	14	0.0175796	-0.140134	0.1768416	0.7522	0.474196
sp P60881  Synaptosomal	4	9	0.0172003	-0.149471	0.1734994	0.7529125	0.474973
sp P50503  Hsc70-inter	14	65	-0.043428	-0.127265	0.0397364	0.7529125	0.4747791
sp Q75WE7  von Willebr	10	23	0.0299777	-0.092861	0.1518244	0.753125	0.4753604
sp P24155  Thimet oligom	11	16	-0.024105	-0.164698	0.1100653	0.75325	0.4755537
sp P62775  Myotrophin	2	13	-0.01612	-0.186805	0.1545541	0.754025	0.4757474
sp Q5FVJ0  Protein RUF	22	66	0.0320746	-0.085353	0.1543157	0.7547375	0.4763276
sp Q80U96  Exportin-1 C	10	21	-0.026367	-0.160083	0.1000171	0.7583125	0.4774921
sp Q9QXJ0  Tubulin--tyr	2	8	-0.007643	-0.189327	0.1766199	0.7585125	0.4776861
sp P05197  Elongation f	29	100	-0.051844	-0.107492	0.0053069	0.7586875	0.4778801
sp Q62698  Cytoplasmic	8	11	0.0205663	-0.125668	0.1693254	0.759475	0.4788475
sp Q5XFX0  Transgelin-2	12	45	-0.033859	-0.145628	0.0770972	0.7597375	0.4794256
sp Q05140  Clathrin coa	5	13	-0.005842	-0.189405	0.18681	0.7601625	0.4798103
sp P62898  Cytochrome	10	55	-0.040107	-0.135061	0.0517142	0.760475	0.4800026
sp P52303  AP-1 compl	9	16	-0.024537	-0.154261	0.1063573	0.7605375	0.4801946
sp P17074  40S ribosom	13	57	-0.042775	-0.126699	0.0389458	0.7617375	0.4809623
sp Q6AXV4  Sorting and	7	20	-0.022418	-0.165869	0.1208008	0.7618125	0.4811539
sp Q6URK4  Heterogene	11	31	-0.038652	-0.133438	0.0572639	0.76215	0.4819182
sp Q641Y0  Dolichyl-dip	13	45	-0.03745	-0.137415	0.0606212	0.7625	0.482109
sp Q68FP1  Gelsolin OS	28	100	0.0331124	-0.076761	0.1438217	0.7631	0.4826804
sp Q6PCU2  V-type prot	8	24	0.0414061	-0.040098	0.1275898	0.763775	0.483061
sp Q9WTP0  Band 4.1-lik	7	18	-0.021702	-0.161476	0.1197167	0.7638125	0.483251
sp Q03114  Cyclin-depe	5	10	0.0012067	-0.200234	0.2019695	0.76405	0.483441
sp Q9R063  Peroxiredox	12	63	0.045626	-0.028706	0.1187445	0.7644375	0.483631
sp P25886  60S ribosom	6	37	-0.027179	-0.155609	0.0975563	0.764525	0.4838208
sp Q64640  Adenosine l	6	21	-0.03455	-0.134629	0.065433	0.7648625	0.4840106
sp P21913  Succinate d	8	21	0.0358661	-0.061205	0.1322145	0.76535	0.4845789
sp P40329  Arginyl-tRN	32	96	-0.03239	-0.14218	0.0777214	0.766475	0.4849576
sp Q5XIU5  Proteasome	3	10	0.0099747	-0.159396	0.1879284	0.7698	0.486098
sp P50399  Rab GDP dis	20	70	-0.048502	-0.109382	0.012467	0.7702375	0.4864782
sp Q5M7W  Microtubule	34	100	0.0206089	-0.117453	0.1687176	0.770575	0.4866682
sp Q66H76  Paxillin OS=	2	4	-0.002165	-0.195164	0.1879342	0.7706	0.486858
sp Q80Z70  Protein sel-	6	10	0.0014827	-0.198444	0.1955559	0.7707	0.4870476
sp Q64380  Sarcosine d	3	7	-0.003798	-0.184961	0.1836637	0.7709	0.4876151
sp P04550  Parathymos	2	13	0.0257398	-0.098995	0.1504496	0.7717375	0.4881819
sp Q62636  Ras-related	6	10	-0.02811	-0.150947	0.0932623	0.771875	0.4885588
sp Q08877  Dynamin-3	11	26	0.0204141	-0.122502	0.1646548	0.772	0.488747
sp P10111  Peptidyl-pro	13	95	0.0378024	-0.055568	0.1308387	0.772025	0.488935
sp Q7M767  Ubiquitin-co	6	18	-0.015497	-0.170764	0.1403326	0.77215	0.4891228
sp Q9JHY2  Sideroflexin	9	21	0.0360746	-0.056894	0.1323074	0.772675	0.4896852
sp Q32Q06  AP-1 compl	5	9	0.0161437	-0.131652	0.1649372	0.7730875	0.4904331
sp Q642G4  Peroxisoma	4	8	0.0090016	-0.161263	0.1758769	0.7742125	0.4909928
sp P69897  Tubulin bet	4	36	0.031334	-0.079621	0.1396252	0.774375	0.4919228
sp P0C5H9  Mesenceph	7	14	-0.019579	-0.153994	0.1163033	0.774375	0.4921082

sp Q5QD51	A-kinase an	28	69	0.020917	-0.118765	0.1605864	0.774575	0.492663
sp O55171	Acyl-coenzy	6	16	0.0152655	-0.131817	0.1644696	0.7753875	0.4930328
sp P00388	NADPH--cyt	11	21	0.0220538	-0.109393	0.1503559	0.775575	0.4934019
sp Q6AYT7	Monoacylgl	11	43	-0.033375	-0.13629	0.0739806	0.7756875	0.4935861
sp P47198	60S riboson	2	9	0.0181152	-0.127467	0.1633814	0.776	0.4937703
sp Q5FVI3	Leucine-rich	3	3	0.0006164	-0.210452	0.2118543	0.776075	0.4939544
sp Q5I0D7	Xaa-Pro dip	8	15	-0.02032	-0.154164	0.1132172	0.7763875	0.4943219
sp O35263	Platelet-act	3	7	0.0094313	-0.155271	0.1779675	0.776975	0.4950554
sp P60203	Myelin prot	10	46	0.018441	-0.125614	0.1672275	0.7776875	0.4952388
sp O35814	Stress-induc	26	78	-0.044449	-0.117264	0.0282758	0.7786375	0.4959714
sp Q4V7F2	Cysteine-rich	6	16	-0.010721	-0.176139	0.1562403	0.7792625	0.4963376
sp Q32PX7	Far upstre	3	5	0.0049681	-0.168657	0.1820807	0.779525	0.4967032
sp P62628	Dynein light	5	20	-0.022538	-0.147357	0.1067886	0.779525	0.4965205
sp Q63544	Gamma-syn	10	68	0.0234521	-0.10323	0.1516109	0.7795875	0.4968857
sp Q4KMA2	UV excision	11	27	0.0381699	-0.046456	0.1237351	0.779725	0.4970681
sp Q6AYT3	UPF0027 pr	10	35	-0.03738	-0.128495	0.0521217	0.781	0.4981596
sp Q9Z1X1	Extended sy	28	81	-0.041777	-0.115892	0.0369249	0.7818375	0.4990665
sp P07687	Epoxide hyc	5	9	-0.024285	-0.144519	0.0964247	0.7820625	0.4992476
sp P62198	26S proteas	7	23	-0.02367	-0.146733	0.0986753	0.7820875	0.4994284
sp P20069	Mitochondr	4	13	-0.014304	-0.161273	0.1315487	0.78355	0.5001519
sp Q99MZ4	Gamma-glu	6	14	-0.007291	-0.172847	0.1575166	0.7835625	0.5003325
sp P69060	N-acylneur	5	16	-0.031752	-0.135536	0.0701834	0.7841875	0.5005133
sp P33124	Long-chain-	11	33	-0.007519	-0.18495	0.1671179	0.7847875	0.5008748
sp Q7TQ94	Nitrilase ho	1	4	-0.002539	-0.179972	0.1756731	0.7856625	0.5012364
sp P60825	Cold-inducil	3	12	0.0023345	-0.177064	0.1783878	0.785975	0.5015976
sp P27321	Calpastatin	9	15	-0.023333	-0.144422	0.0969396	0.7864	0.5017782
sp Q62785	28 kDa heat	5	10	-0.016851	-0.154515	0.1302176	0.7864625	0.5019587
sp Q5RK09	Eukaryotic t	2	8	0.0014093	-0.176072	0.1845116	0.7873	0.5021394
sp Q99N27	Sorting nexi	7	11	-0.013581	-0.157602	0.1322842	0.787375	0.5023199
sp P45592	Cofilin-1 OS	20	91	-0.011001	-0.170052	0.1445937	0.7874375	0.5025002
sp P20788	Cytochrome	10	50	-0.042698	-0.114075	0.0325696	0.7875	0.5026804
sp Q9JJW3	Up-regulate	2	6	0.0235707	-0.099461	0.1452816	0.78785	0.5030404
sp O35854	Branched-cl	6	9	-0.00846	-0.165082	0.156931	0.7878625	0.5032201
sp Q3B7U9	Peptidyl-pro	5	14	0.0209207	-0.107332	0.1556974	0.787975	0.5033997
sp Q9ER24	Ataxin-10 O	14	27	-0.030474	-0.132294	0.0670927	0.7890625	0.5039383
sp P04905	Glutathione	11	32	-0.008442	-0.173095	0.1575654	0.789475	0.5044761
sp Q99068	Alpha-2-ma	8	13	0.0032098	-0.167532	0.1714411	0.7894875	0.504655
sp P62859	40S riboson	3	14	0.009935	-0.143365	0.1670456	0.7897	0.5048338
sp P60868	40S riboson	4	18	-0.029271	-0.13784	0.0778202	0.7901625	0.5050127
sp Q00715	Histone H2E	12	95	-0.018361	-0.15486	0.1176288	0.790575	0.5051917
sp P45953	Very long-cl	12	30	-0.031946	-0.128683	0.0625717	0.7907875	0.5053705
sp Q9QUL6	Vesicle-fusi	30	100	0.0328543	-0.065571	0.1291846	0.7917875	0.5057281
sp Q05962	ADP/ATP tra	8	54	-0.043202	-0.116862	0.0286244	0.7918	0.5059069
sp P00406	Cytochrome	4	27	0.0304234	-0.071962	0.1342042	0.7919875	0.5060856
sp O35509	Ras-related	2	7	0.0101944	-0.135382	0.1690147	0.7921375	0.5064424
sp O88767	Protein DJ-1	13	50	0.0145655	-0.12797	0.1614286	0.7922	0.5066206
sp P61107	Ras-related	5	15	0.0197209	-0.107696	0.1542722	0.792475	0.5067987

sp Q63362	NADH dehy	3	5	-0.001416	-0.176355	0.1729993	0.7925	0.5069766
sp Q9JLT0	Myosin-10 (	36	79	-0.036865	-0.125362	0.0503255	0.792925	0.5073321
sp P02401	60S acidic ri	6	27	-0.014424	-0.154011	0.1284366	0.794025	0.5076879
sp P70615	Lamin-B1 O	15	47	0.0085589	-0.151288	0.1705508	0.7943375	0.5078659
sp Q71UE8	NEDD8 OS=	4	17	-0.01643	-0.149207	0.1208407	0.7946375	0.5080438
sp Q6AY30	Probable sa	12	42	-0.040959	-0.117925	0.0340811	0.7947625	0.508399
sp P63029	Translation;	9	36	0.0219823	-0.104043	0.1446153	0.7955375	0.5085768
sp P61980	Heterogene	20	81	-0.043786	-0.113833	0.0230762	0.796525	0.5089324
sp Q01205	Dihydrolipo	10	41	-0.042377	-0.11166	0.0271001	0.7971625	0.5092882
sp Q9EQZ1	TSC22 domi	2	6	-0.006072	-0.163255	0.1514058	0.797175	0.5096434
sp Q9Z1A6	Vigilin OS=R	14	37	0.0290968	-0.073765	0.1304284	0.7977375	0.5101751
sp Q6P7P5	Basic leucin	4	11	-0.000337	-0.176636	0.1685866	0.798625	0.510706
sp P09495	Tropomyosi	7	17	0.0199943	-0.104805	0.1533931	0.7986625	0.5108829
sp Q9Z2S9	Flotillin-2 O	11	26	-0.00512	-0.170624	0.1653317	0.7991875	0.5115892
sp P61354	60S ribosom	9	30	-0.039318	-0.113396	0.0387962	0.799325	0.5119413
sp P63100	Calcineurin	5	13	-0.019417	-0.144513	0.103818	0.8000125	0.5128197
sp O35987	NSFL1 cofac	9	28	-0.02437	-0.138566	0.0899961	0.800275	0.5131699
sp P63159	High mobili	13	49	-0.022276	-0.14462	0.0971536	0.8005625	0.513345
sp O89049	Thioredoxin	8	23	-0.011779	-0.158782	0.1305642	0.800675	0.5135198
sp P25235	Dolichyl-dip	14	42	-0.018778	-0.149066	0.1112633	0.8010625	0.5138694
sp O88453	Scaffold att	8	14	-0.009464	-0.154251	0.1364341	0.8010625	0.5140438
sp P61212	ADP-ribosyl	5	11	-0.002667	-0.161361	0.1616647	0.801575	0.5143925
sp P19511	ATP synthas	8	24	-0.038601	-0.115396	0.0370763	0.8017125	0.5145668
sp P25113	Phosphogly	13	66	0.0169537	-0.117551	0.1511737	0.802625	0.5150896
sp P07632	Superoxide	10	72	-0.022387	-0.13953	0.0954866	0.802725	0.5154373
sp Q6UPE1	Electron tra	4	18	-0.029025	-0.12875	0.0715085	0.80325	0.5159581
sp P85834	Elongation f	13	34	-0.038575	-0.116124	0.0400277	0.8033875	0.5161314
sp P21708	Mitogen-ac	13	57	0.0326709	-0.062059	0.1258419	0.80355	0.5163047
sp P12075	Cytochrome	5	21	0.0274553	-0.075794	0.1311909	0.803775	0.5164778
sp Q793F9	Vacuolar pr	4	10	0.0051089	-0.148544	0.1691778	0.80385	0.5166509
sp Q5RKI0	WD repeat-	17	35	-0.025897	-0.133316	0.0824957	0.80525	0.5171697
sp Q9ES54	Nuclear pro	5	11	-0.002064	-0.166717	0.1641568	0.805375	0.5175157
sp Q6PEC4	S-phase kin	11	66	0.0432576	-0.022506	0.1081398	0.805925	0.5178612
sp Q8CFN2	Cell division	8	26	0.037404	-0.044163	0.1183458	0.8060125	0.5180339
sp Q9QZA2	Programme	13	21	0.029522	-0.067845	0.1266401	0.8067	0.5185517
sp Q6BBI8	Ubiquitin-fc	2	7	-0.001316	-0.168071	0.1677966	0.8067625	0.5187239
sp P60669	Pleckstrin h	10	19	0.0103723	-0.132222	0.1566966	0.8069375	0.5188961
sp Q9ESW0	DNA damag	13	33	-0.035366	-0.117434	0.0457563	0.8069875	0.5190681
sp Q9EPH8	Polyadenyla	19	62	-0.035363	-0.119755	0.0501465	0.8087875	0.5201001
sp Q5XHZ0	Heat shock	9	17	-0.02208	-0.137195	0.0910894	0.8088625	0.5202718
sp P62804	Histone H4	12	100	0.0052575	-0.150969	0.1651999	0.8091875	0.5206147
sp P62982	Ubiquitin-4l	7	47	0.0262555	-0.078962	0.1350925	0.80935	0.5209572
sp Q63570	26S proteas	8	20	-0.011809	-0.150763	0.1280171	0.8103625	0.5218121
sp P62997	Transforme	5	13	-0.015629	-0.146492	0.1092521	0.8107375	0.5219828
sp O70196	Prolyl endo	14	34	-0.014653	-0.144798	0.1197559	0.8113875	0.5223243
sp Q9QY17	Protein kin	7	16	-0.001198	-0.168453	0.1671917	0.8119	0.5230061
sp P62632	Elongation f	14	74	-0.032381	-0.120933	0.0609253	0.81195	0.5231762

sp P19804	Nucleoside	5	28	-0.021033	-0.138376	0.0977248	0.8121875	0.5233462
sp B5DF89	Cullin-3 OS=	11	21	-0.018025	-0.136755	0.101332	0.8125	0.5235162
sp Q63560	Microtubule	18	58	0.0195902	-0.100669	0.1415651	0.8127125	0.5238558
sp P13803	Electron tra	14	28	-0.030728	-0.123574	0.0667861	0.8128375	0.5240254
sp Q6RJR6	Reticulon-3	8	22	-0.004346	-0.156629	0.1508801	0.8131125	0.5243642
sp P63255	Cysteine-ric	4	16	0.0227174	-0.087542	0.1368802	0.81475	0.5258848
sp P63004	Platelet-act	11	25	-0.037457	-0.111626	0.0369129	0.8148625	0.5260532
sp Q75Q39	Mitochondr	10	28	-0.010612	-0.152313	0.1312194	0.814875	0.5263894
sp Q07205	Eukaryotic t	7	17	0.0195155	-0.094286	0.1350511	0.81565	0.5270604
sp P62083	40S ribosom	14	57	-0.028727	-0.128029	0.0686785	0.8167625	0.5278976
sp Q9Z1W6	Protein LYR	3	10	0.001235	-0.15277	0.1588202	0.8170125	0.5282319
sp Q5BK32	FAS-associa	3	7	-0.014437	-0.152029	0.1407171	0.8172	0.5287322
sp Q07439	Heat shock	11	16	-0.014943	-0.14044	0.1141433	0.8172875	0.529065
sp P04642	L-lactate de	19	100	-0.036937	-0.117399	0.0394448	0.81795	0.5295636
sp P62161	Calmodulin	6	66	0.0214735	-0.092144	0.1350802	0.8188375	0.5305581
sp P08082	Clathrin ligh	7	25	-0.034375	-0.119275	0.0463016	0.819325	0.5310539
sp Q9WVCC	Septin-7 OS	10	42	-0.040189	-0.109063	0.0274103	0.8200875	0.5317144
sp Q6PEC1	Tubulin-spe	8	15	0.0211283	-0.087461	0.1322031	0.8210625	0.5318796
sp Q68A21	Transcriptic	14	42	-0.039197	-0.111681	0.0314772	0.8216125	0.53221
sp P15146	Microtubule	37	83	-0.019259	-0.131448	0.0989471	0.8223	0.5327051
sp P00173	Cytochrome	3	16	0.0096119	-0.127975	0.1510572	0.82235	0.5330346
sp Q4QRB4	Tubulin bet	11	84	-0.019346	-0.134257	0.0993081	0.8234125	0.5336936
sp P07153	Dolichyl-dip	21	61	-0.03097	-0.119754	0.0612741	0.8239625	0.5340227
sp Q920J4	Thioredoxin	8	24	0.0194055	-0.095808	0.1369715	0.824575	0.5346795
sp Q5XIM9	T-complex p	24	100	-0.047473	-0.097683	0.0021813	0.82525	0.5348437
sp P18421	Proteasome	7	22	0.0296705	-0.057196	0.1179081	0.826375	0.5353368
sp O88902	Tyrosine-pro	4	10	-0.009885	-0.13989	0.1192921	0.8267125	0.5356651
sp Q5XI73	Rho GDP-di	10	53	0.0189697	-0.092506	0.1366236	0.8273875	0.5358295
sp P38652	Phosphoglu	10	17	0.0007457	-0.15501	0.1592848	0.8280375	0.535994
sp Q07936	Annexin A2	24	100	0.0252767	-0.072151	0.128188	0.8285125	0.536323
sp P70566	Tropomodu	14	31	-0.023363	-0.126056	0.0760599	0.829225	0.5366519
sp Q4KM73	UMP-CMP k	5	11	0.0028504	-0.146607	0.1478499	0.8292875	0.5369803
sp Q6P6S9	Ectonucleos	1	4	0.0119938	-0.119635	0.1401769	0.8297125	0.5371445
sp P05065	Fructose-bis	21	100	0.0211516	-0.089401	0.1269422	0.83075	0.5384543
sp Q9JIL3	Interleukin	6	11	0.0032381	-0.141861	0.1426667	0.830775	0.5386174
sp Q05982	Nucleoside	5	18	0.0052937	-0.135893	0.1522511	0.83095	0.5387805
sp P63170	Dynein light	2	16	-0.014679	-0.140288	0.1076302	0.831025	0.5389434
sp Q6PCT3	Tumor prot	6	10	-0.008751	-0.140212	0.1226223	0.8311375	0.5392687
sp O55156	CAP-Gly doi	18	41	0.0282815	-0.061386	0.1174317	0.8337	0.5413761
sp B0BN93	26S proteas	7	14	-0.008357	-0.140857	0.1209647	0.8338125	0.5415377
sp P18420	Proteasome	6	28	-0.023554	-0.124515	0.0745714	0.83385	0.5416991
sp Q9EPH2	MARCKS-re	4	21	0.0106674	-0.113456	0.1375099	0.8364875	0.5437914
sp Q64548	Reticulon-1	11	31	-0.034946	-0.10745	0.0381142	0.8374375	0.5445929
sp P37805	Transgelin-3	6	13	-0.009481	-0.136239	0.1177163	0.8375625	0.544753
sp Q5FVM4	Non-POU do	7	22	-0.020779	-0.126322	0.0844791	0.8384125	0.5452333
sp Q64057	Alpha-amin	8	16	-0.005353	-0.137379	0.126724	0.839725	0.5463508
sp O35077	Glycerol-3-p	12	34	0.0140932	-0.102249	0.1343571	0.8400375	0.5466697

sp P63018	Heat shock	25	100	-0.026771	-0.120062	0.064177	0.8400875	0.5468289
sp Q68FQ0	T-complex p	26	86	-0.045671	-0.097412	0.0057826	0.84085	0.5473062
sp P41562	Isocitrate de	13	43	-0.027601	-0.118524	0.0625082	0.8412	0.5477829
sp Q6P7Q4	Lactoylgluta	6	31	-0.003212	-0.144081	0.1366154	0.841825	0.548259
sp P15205	Microtubule	36	100	0.0249105	-0.071888	0.1201322	0.8421125	0.5485758
sp Q5BK63	NADH dehy	11	41	0.0237719	-0.069864	0.1199125	0.84285	0.5490508
sp P97571	Calpain-1 ca	14	29	0.0101141	-0.114271	0.1320018	0.84335	0.5498407
sp Q68FU3	Electron tra	12	40	-0.021706	-0.124152	0.0822835	0.844075	0.5501561
sp A0JPM9	Eukaryotic t	6	13	0.0166666	-0.093973	0.129848	0.8448875	0.5503142
sp P81155	Voltage-dep	9	28	0.0323355	-0.045845	0.1116485	0.8450875	0.5504721
sp P48004	Proteasome	6	18	-0.021688	-0.121742	0.0821297	0.84545	0.5512601
sp Q2PQA9	Kinesin-1 he	12	31	-0.011378	-0.132793	0.1070709	0.84595	0.5515747
sp Q62847	Gamma-adv	10	24	0.0068667	-0.123836	0.1363156	0.846325	0.5520459
sp P26284	Pyruvate de	16	70	-0.038137	-0.103423	0.0257244	0.84655	0.5523595
sp Q63028	Alpha-addu	16	40	0.0250247	-0.067058	0.1202707	0.846925	0.5525163
sp Q505J8	Phenylalany	12	27	-0.017278	-0.122027	0.08767	0.847125	0.5528295
sp Q9Z2G8	Nucleosom	5	20	0.0042929	-0.124005	0.1362917	0.8475	0.5531424
sp P13086	Succinyl-Co	13	45	-0.041008	-0.102285	0.0175622	0.8477125	0.5537667
sp Q6P9U8	Eukaryotic t	6	24	-0.001862	-0.141843	0.1370463	0.8485875	0.5543898
sp O88994	MOSC domi	6	13	0.0022218	-0.134051	0.1349855	0.8486375	0.5545453
sp Q6AYK8	Eukaryotic t	7	19	0.0046765	-0.123566	0.1389091	0.8486625	0.5547007
sp O35824	DnaJ homol	9	13	-0.002499	-0.137944	0.1284318	0.8487	0.5548559
sp Q6AXT5	Ras-related	5	16	-0.013658	-0.124875	0.0968789	0.8500625	0.5559412
sp Q99PD4	Actin-relate	6	11	-0.008797	-0.130482	0.1074176	0.8504375	0.5564052
sp P70580	Membrane-	4	20	-0.004687	-0.13543	0.1244356	0.85145	0.5571768
sp P62483	Voltage-gat	6	13	0.0023785	-0.130423	0.1348862	0.8526125	0.5582548
sp Q68FS4	Cytosol ami	14	30	-0.014967	-0.126116	0.0933761	0.8537	0.5588693
sp Q4V8F9	Hydroxyster	10	22	0.0041186	-0.124772	0.135677	0.8538625	0.5590229
sp P97546	Neuroplasti	4	8	-0.008385	-0.133033	0.1087563	0.8551	0.5597905
sp P61203	COP9 signal	10	26	0.0181589	-0.079547	0.119739	0.8552375	0.5599438
sp P11915	Non-specific	12	42	-0.008087	-0.134804	0.1124936	0.8557875	0.5604035
sp Q5RJR8	Leucine-rich	13	40	-0.027022	-0.110432	0.0611043	0.85655	0.5608625
sp Q5XI72	Eukaryotic t	9	44	0.0234005	-0.070949	0.1141419	0.856875	0.5614734
sp Q499N6	UBX domain	4	9	-0.001911	-0.132686	0.1276106	0.85705	0.5616259
sp P17220	Proteasome	5	16	0.0080746	-0.108326	0.1252763	0.8600625	0.5631533
sp P68511	14-3-3 prot	13	46	-0.032417	-0.105693	0.0400376	0.861375	0.5642194
sp Q8VHF5	Citrate synt	18	86	-0.031897	-0.103681	0.0442878	0.8633125	0.565887
sp Q02253	Methylmalc	20	64	0.0263518	-0.060852	0.108995	0.86435	0.5660387
sp Q62951	Dihydropyri	7	20	-0.011306	-0.121813	0.098493	0.864975	0.5672484
sp Q6TUG0	DnaJ homol	6	17	0.001514	-0.123275	0.130358	0.8661625	0.568152
sp Q9JK11	Reticulon-4	30	100	0.0321804	-0.0392	0.1041795	0.86665	0.568453
sp Q9HB97	Alpha-parvi	5	15	-0.002605	-0.127951	0.1212829	0.8668875	0.5687536
sp Q5EB81	NADH-cyto	10	20	0.0045393	-0.118307	0.1265132	0.867975	0.569504
sp P63329	Serine/thre	6	14	0.0116063	-0.095694	0.1183303	0.868	0.5696539
sp Q62826	Heterogene	17	40	-0.024171	-0.109464	0.0608239	0.8683625	0.5701031
sp P16638	ATP-citrate	33	100	0.0007544	-0.132067	0.1290132	0.868575	0.570402
sp B2RZ78	Vacuolar pr	7	17	-0.024437	-0.105501	0.06164	0.8691	0.5707008

sp P62828	GTP-binding	9	27	-0.018851	-0.115134	0.0794653	0.8701125	0.571149
sp P38983	40S ribosom	9	51	-0.002085	-0.126081	0.1278333	0.8705	0.5712985
sp P36876	Serine/thre	7	20	-0.025128	-0.104511	0.0568304	0.87215	0.5730848
sp P21571	ATP synthas	7	28	0.009261	-0.101049	0.1232845	0.8723	0.5733816
sp P63047	Sulfotransfe	3	12	0.0189181	-0.07282	0.1125116	0.8723125	0.5735298
sp Q4V7C6	GMP syntha	7	20	-0.007867	-0.121152	0.1045546	0.8724875	0.573678
sp O88563	Canalicular	5	12	-0.01391	-0.119032	0.0893465	0.873025	0.5739741
sp P63086	Mitogen-ac	7	17	0.011984	-0.092207	0.118828	0.87425	0.5750092
sp P11442	Clathrin hea	37	100	-0.032337	-0.103413	0.0367508	0.874275	0.5751568
sp P52873	Pyruvate ca	18	50	-0.026148	-0.106795	0.0523197	0.8749	0.5758932
sp P11884	Aldehyde de	18	85	0.0173697	-0.078018	0.1137286	0.8750875	0.5760403
sp Q63083	Nucleobind	10	26	-0.015733	-0.112799	0.08207	0.8751375	0.5761873
sp Q1JU68	Eukaryotic t	18	47	-0.021041	-0.107871	0.0692219	0.8755875	0.5766278
sp Q66HF1	NADH-ubiqu	20	65	0.0249109	-0.056085	0.1084653	0.8769875	0.5775077
sp Q5RJQ4	NAD-depen	5	21	-0.00106	-0.125541	0.1234805	0.87825	0.578823
sp Q62940	E3 ubiquitin	16	48	0.0269333	-0.047976	0.1003853	0.878275	0.5789688
sp B5DFC8	Eukaryotic t	9	21	-0.008105	-0.118026	0.10198	0.879425	0.5796972
sp B2RZ37	Receptor ex	5	16	-0.013522	-0.117848	0.0849459	0.8799375	0.5799883
sp Q9WTT6	Guanine de	21	66	0.0084025	-0.099418	0.1191528	0.880125	0.5805696
sp Q63507	60S ribosom	7	25	-0.004463	-0.122544	0.112821	0.8809625	0.5810046
sp P15999	ATP synthas	24	100	-0.042462	-0.091576	0.0080563	0.8818125	0.5818735
sp Q63598	Plastin-3 OS	13	32	0.0216322	-0.061544	0.1035293	0.8833625	0.5824524
sp P84083	ADP-ribosyl	4	12	-0.004852	-0.116422	0.1063643	0.8834375	0.5827418
sp P41542	General ves	15	31	-0.015462	-0.10815	0.0752581	0.8849125	0.5837544
sp Q5XI32	F-actin-capp	9	23	-0.018612	-0.107071	0.0698229	0.8849625	0.5840428
sp P13383	Nucleolin O	20	76	0.0273035	-0.047507	0.1023463	0.88525	0.5844745
sp P16617	Phosphogly	27	90	-0.007589	-0.118393	0.0987232	0.885575	0.584762
sp P09606	Glutamine s	12	18	0.0097198	-0.096761	0.1110433	0.8857625	0.5849056
sp Q9Z269	Vesicle-assc	7	26	-0.012026	-0.113757	0.0872201	0.886425	0.5853365
sp P25809	Creatine kir	10	34	-0.012824	-0.112953	0.0847307	0.8879625	0.5859113
sp Q9WU82	Catenin bet	15	45	0.020778	-0.065623	0.1036521	0.8887375	0.5866294
sp Q63355	Myosin-Ic C	23	49	0.0096905	-0.093501	0.1128952	0.8891875	0.5869163
sp P11730	Calcium/cal	6	25	0.0093567	-0.095172	0.1102303	0.889675	0.5872031
sp P36972	Adenine ph	7	23	-0.000808	-0.117334	0.1139026	0.889825	0.5876325
sp Q68FX0	Isocitrate de	7	35	-0.023372	-0.102446	0.0560932	0.889875	0.5877754
sp Q9EPJ0	Nuclear ubi	3	8	-0.003559	-0.112743	0.109702	0.891475	0.588917
sp Q2TA68	Dynamin-lik	18	42	0.0231978	-0.054761	0.1000613	0.8942875	0.5911928
sp P52296	Importin su	15	28	0.0127484	-0.08116	0.1051324	0.8943	0.5913345
sp Q5SGE0	Leucine-rich	22	43	-0.016826	-0.103958	0.0673372	0.895225	0.592183
sp P48721	Stress-70 pr	23	85	-0.031302	-0.096544	0.0326543	0.8954625	0.5926063
sp Q6AYN4	Phytanoyl-C	9	27	-0.002996	-0.114127	0.1072234	0.8956625	0.592888
sp P62815	V-type prot	13	36	0.0260975	-0.042489	0.0977738	0.89575	0.5930287
sp P35704	Peroxiredox	8	36	0.0047018	-0.10183	0.1145007	0.8960625	0.5934504
sp Q64537	Calpain sma	9	16	0.0144674	-0.075594	0.1045664	0.896175	0.593731
sp O35264	Platelet-act	6	18	0.0031604	-0.107318	0.1131071	0.896975	0.5944314
sp Q9JLJ3	4-trimethyl	13	26	0.0084021	-0.087801	0.1090083	0.8979625	0.5952701
sp P32551	Cytochrome	12	48	-0.020009	-0.101269	0.0652948	0.8981875	0.5954098



sp P04762	Catalase OS	20	45	0.0014446	-0.113475	0.1117625	0.8987875	0.5959675
sp Q09167	Serine/argin	5	8	0.0002518	-0.110485	0.1084747	0.90045	0.5974973
sp A0JPJ7 C	Obg-like AT	13	36	0.0056517	-0.098837	0.109585	0.9014625	0.5980524
sp Q9JHU0	Dihydropyri	20	62	0.0135837	-0.077815	0.1046138	0.90225	0.5983299
sp O35567	Bifunctiona	19	67	-0.011637	-0.107306	0.082637	0.9023	0.5986072
sp Q4FZT9	26S proteas	13	37	0.0175841	-0.063404	0.1004156	0.9030375	0.5991612
sp P13471	40S ribosom	7	24	0.0019976	-0.101088	0.1069486	0.9031125	0.5994378
sp Q5I0G4	Glycyl-tRNA	15	31	0.0020258	-0.106621	0.1100806	0.904075	0.5999906
sp O88506	STE20/SPS1	8	18	-0.005228	-0.104581	0.0968272	0.9043125	0.6008172
sp P54313	Guanine nu	5	22	0.0068734	-0.091742	0.1052153	0.9044375	0.601092
sp Q4KM49	Tyrosyl-tRN	23	73	-0.038007	-0.08817	0.0125077	0.904775	0.6015035
sp P49134	Integrin bet	10	32	0.0107213	-0.08033	0.1014293	0.904925	0.6017775
sp Q9EQX9	Ubiquitin-co	7	24	0.0126561	-0.076985	0.1031559	0.9055125	0.6023247
sp P15791	Calcium/cal	6	22	-0.012859	-0.101512	0.074877	0.9061375	0.6031435
sp Q5FVQ4	Malectin OS	8	17	0.0041834	-0.097711	0.1028892	0.907225	0.6039601
sp Q6RUV5	Ras-related	8	32	0.0262536	-0.040551	0.0933447	0.907925	0.6049102
sp P08081	Clathrin ligh	5	15	-0.015493	-0.098623	0.0673921	0.9081	0.605451
sp P67779	Prohibitin C	11	41	0.0163164	-0.065827	0.1022625	0.9087875	0.6059907
sp Q4G061	Eukaryotic t	13	28	0.0009629	-0.106607	0.1063028	0.9088	0.6061254
sp B2RYG6	Ubiquitin th	10	28	0.0031009	-0.099755	0.1055761	0.9095875	0.6066643
sp P97852	Peroxisoma	13	31	0.0045965	-0.093495	0.104039	0.9098625	0.6070678
sp O70351	3-hydroxyar	7	28	0.007031	-0.090954	0.1008027	0.910075	0.6072022
sp P47942	Dihydropyri	22	100	-0.007219	-0.102154	0.0910079	0.9102625	0.6073365
sp B0K020	CDGSH iron	5	19	0.0054927	-0.096941	0.1038883	0.910975	0.6080072
sp Q5XIF3 I	NADH dehy	7	21	0.0108613	-0.075953	0.1031557	0.9114875	0.6085428
sp Q63269	Inositol 1,4,	27	62	0.0071857	-0.089495	0.1031778	0.91275	0.6094789
sp Q6NYB7	Ras-related	5	11	0.0120688	-0.074119	0.0997266	0.9137625	0.6100128
sp P59215	Guanine nu	9	22	0.002578	-0.09959	0.102024	0.914575	0.6106798
sp P37285	Kinesin ligh	16	43	0.0154103	-0.066434	0.0985814	0.91485	0.6112121
sp P08461	Dihydrolipo	17	75	-0.017166	-0.098508	0.061249	0.9162	0.6133279
sp Q9EQS0	Transaldola	22	81	0.0218662	-0.0473	0.0957393	0.9180875	0.6141182
sp P50475	Alanyl-tRNA	27	81	0.0038048	-0.093141	0.100992	0.9187625	0.6149074
sp Q9Z2L0	Voltage-dep	15	68	0.0230267	-0.049253	0.0913039	0.919425	0.6153016
sp P35434	ATP synthas	3	12	-0.001555	-0.102228	0.101091	0.919475	0.6154329
sp Q01986	Dual specifi	8	25	-0.00516	-0.099981	0.0871118	0.9204375	0.6159581
sp Q6AYS8	Estradiol 17	12	32	0.0060387	-0.084315	0.0986355	0.9217375	0.6168759
sp P63102	14-3-3 prot	11	66	0.0221562	-0.046644	0.0921522	0.9243625	0.6190954
sp Q63377	Sodium/pot	8	33	-0.016791	-0.092257	0.0571882	0.9270625	0.6209164
sp P21575	Dynamin-1	16	46	0.0194199	-0.050893	0.0892038	0.92725	0.6211759
sp P13264	Glutaminasa	14	34	-0.001723	-0.099366	0.0923933	0.9275375	0.6215645
sp Q07009	Calpain-2 ca	18	75	0.0037106	-0.089661	0.0988414	0.9275875	0.6216939
sp Q5XIT1 I	Microtubule	5	19	0.00621	-0.082688	0.0911754	0.928425	0.6224692
sp Q64560	Tripeptidyl-	19	45	0.0126619	-0.066349	0.0921099	0.9311125	0.624144
sp P14408	Fumarate h	11	28	-0.00453	-0.094856	0.0845311	0.9322125	0.6246595
sp P85968	6-phosphog	13	43	-0.011671	-0.09184	0.0702315	0.9324125	0.6247884
sp P10860	Glutamate c	24	100	-0.035934	-0.082347	0.0119644	0.933075	0.6249174
sp Q9JJ54 I	Heterogene	10	38	-9.07E-05	-0.093703	0.0965965	0.9353375	0.6274843

sp P61765	Syntaxin-bir	17	53	0.0119944	-0.065297	0.0900078	0.9359625	0.6279951
sp P05765	40S ribosom	3	15	-0.002231	-0.09072	0.0872018	0.937175	0.6290143
sp Q9QWN	Spectrin bet	15	36	0.0178033	-0.049803	0.0864033	0.9390625	0.6305391
sp Q7TPB1	T-complex p	25	90	-0.027857	-0.081205	0.0255794	0.9407375	0.6321841
sp Q6P799	Seryl-tRNA :	15	56	0.0026539	-0.082818	0.0909925	0.940875	0.6324362
sp Q66HA6	ADP-ribosyl	10	44	-0.006	-0.088214	0.0776304	0.9420375	0.6338178
sp P28023	Dynactin su	27	69	-0.019222	-0.082679	0.0459551	0.9425875	0.6341936
sp P62870	Transcriptic	8	26	0.0098403	-0.064575	0.0859805	0.9462875	0.6364462
sp P05370	Glucose-6-p	20	46	0.0070779	-0.071133	0.0872448	0.946925	0.6376915
sp Q62910	Synaptojami	20	44	0.0042548	-0.074907	0.0859393	0.9471625	0.6378157
sp P61589	Transformir	11	38	0.0223807	-0.034998	0.0832449	0.94805	0.6389305
sp Q3T1J1	Eukaryotic t	8	46	-0.009373	-0.085834	0.0678867	0.948375	0.639301
sp Q920L2	Succinate d	15	33	-0.001263	-0.087341	0.0839322	0.9484	0.6394244
sp Q5XIG8	Serine-threo	9	28	0.0036367	-0.076992	0.0835615	0.94855	0.6397941
sp P05708	Hexokinase	26	100	0.0009098	-0.084872	0.0862607	0.9486125	0.6399172
sp P29315	Ribonucleas	12	35	0.0107425	-0.063516	0.0821274	0.9494	0.6406548
sp Q9QYF3	Myosin-Va (	19	37	-0.004321	-0.083386	0.0762682	0.950025	0.6417567
sp Q06647	ATP synthas	10	36	-0.01352	-0.081652	0.0539408	0.950775	0.642732
sp P10888	Cytochrome	9	25	-0.004114	-0.083213	0.0737315	0.9541875	0.6455228
sp Q63716	Peroxiredox	15	80	0.0097862	-0.060967	0.0806772	0.9563625	0.6481696
sp Q68FY0	Cytochrome	12	53	-0.023521	-0.078084	0.030645	0.9570125	0.6488862
sp Q6P6R2	Dihydrolipo	14	50	-0.002641	-0.08343	0.0764295	0.9575375	0.6497199
sp A7VJC2	Heterogene	13	57	0.0055898	-0.069049	0.0807459	0.95865	0.6501956
sp P28480	T-complex p	28	80	-0.020911	-0.077644	0.0333935	0.9610375	0.6526822
sp Q5XIH7	Prohibitin-2	18	61	-0.016727	-0.074791	0.0418679	0.9649125	0.6557365
sp P05712	Ras-related	8	27	-0.0058	-0.077223	0.0630604	0.9663125	0.6570227
sp Q08163	Adenylyl cy	17	57	-0.022382	-0.074311	0.0299637	0.966975	0.6584179
sp P00507	Aspartate a	23	95	-0.015068	-0.072029	0.0452828	0.9702	0.6611876
sp P47860	6-phosphof	26	100	-0.003193	-0.072012	0.0691555	0.9704375	0.6616469
sp Q62952	Dihydropyri	17	76	0.0041035	-0.066976	0.0728872	0.9705625	0.6618763
sp Q3KR86	Mitochondr	28	78	-0.003461	-0.07382	0.0662139	0.9713	0.6629054
sp P10960	Sulfated gly	11	60	0.0052544	-0.06527	0.0735092	0.9720125	0.6634759
sp P48037	Annexin A6	30	100	0.0220582	-0.024772	0.0687846	0.97735	0.6694486
sp P97536	Cullin-assoc	22	71	0.0064073	-0.055931	0.0674868	0.9783375	0.6706724
sp P61983	14-3-3 prot	9	53	-0.017273	-0.069146	0.0332107	0.978775	0.6719996
sp P09527	Ras-related	12	41	0.0070848	-0.053469	0.0679579	0.979325	0.6732079
sp P46462	Transitional	28	100	0.0206373	-0.027136	0.0666145	0.9795375	0.6737548
sp P10719	ATP synthas	19	100	-0.025102	-0.067335	0.0166905	0.9799375	0.6747353
sp P11951	Cytochrome	6	25	-0.003882	-0.066342	0.0596526	0.9804375	0.6758191
sp O88600	Heat shock	33	83	-0.016039	-0.066869	0.0351379	0.9810375	0.676682
sp Q5U300	Ubiquitin-lil	30	100	0.0013837	-0.060992	0.062806	0.98125	0.6771122
sp P34926	Microtubule	39	100	-0.003734	-0.066314	0.0579515	0.981425	0.6775415
sp P04636	Malate deh	18	100	-0.009202	-0.064835	0.0459032	0.98185	0.6782906
sp P85515	Alpha-centr	14	42	-0.005185	-0.066792	0.0544286	0.9820125	0.6783974
sp Q6P502	T-complex p	28	92	-0.016712	-0.064353	0.0304935	0.984175	0.6815795
sp P38650	Cytoplasmic	46	100	-0.018012	-0.065074	0.0283088	0.9848	0.6829443
sp P68255	14-3-3 prot	12	33	-0.005392	-0.062362	0.0514583	0.9865375	0.6844063

sp P14668  Annexin A5	24	100	0.0126425	-0.033509	0.0594488	0.989325	0.6884351
sp Q6P6V0  Glucose-6-phosphatase	18	67	-0.00281	-0.057822	0.0551746	0.9898125	0.6890487
sp Q9ER34  Aconitate hydratase	30	100	-0.00436	-0.054026	0.0475859	0.991775	0.6922931
sp P50137  Transketolase	28	100	-0.004547	-0.054962	0.0472899	0.992325	0.6931966
sp P47858  6-phosphogluconate dehydratase	18	65	-0.008681	-0.055001	0.0382405	0.99255	0.6936969
sp Q6AYH5  Dynactin subunit 1	17	63	-0.009605	-0.056605	0.0376631	0.993025	0.6949911

Accession	Name	Peptides	Spectra	Mean Log <sub>2</sub> F	l-95% CI	u-95% CI	IFDR	gFDR
sp P14046	Alpha-1-inh	6	12	-1.858501	-2.516495	-1.210852	0.0001125	0.0001125
sp P08932	T-kininogen	3	5	0.816442	0.4434611	1.2028821	0.0003125	0.0002125
sp Q6P7A9	Lysosomal a	5	11	0.395494	0.2291513	0.5612608	0.0004375	0.0002875
sp P04639	Apolipoprot	19	40	0.6681859	0.3490578	0.9831805	0.0009	0.0004406
sp P22791	Hydroxyme	8	10	0.3204246	0.1603425	0.4785332	0.0019625	0.000745
sp P17475	Alpha-1-ant	19	50	0.4842831	0.2350939	0.7422014	0.002075	0.0009667
sp Q9QX79	Fetuin-B OS	9	18	0.3679312	0.1799857	0.558146	0.0023875	0.0011696
sp P01048	T-kininogen	3	8	0.8630611	0.3653278	1.368615	0.0026125	0.00135
sp P04276	Vitamin D-b	17	22	-0.367573	-0.566721	-0.169997	0.004025	0.0016472
sp Q80WL1	Gliomedin C	3	3	-0.453352	-0.826281	-0.107127	0.0117	0.0026525
sp Q9ESB5	N-terminal	3	4	0.7931817	0.2369261	1.3771669	0.01205	0.0035068
sp P20759	Ig gamma-1	2	5	0.3097443	0.0974196	0.5357222	0.014625	0.0044333
sp P39032	60S ribosom	3	8	0.2677986	0.0926407	0.4499649	0.015525	0.0052865
sp Q63416	Inter-alpha-	10	19	0.2695997	0.0887707	0.446548	0.0165	0.0060875
sp P02651	Apolipoprot	10	16	0.3394625	0.0840482	0.5900039	0.02015	0.007025
sp P19939	Apolipoprot	2	4	-0.381163	-0.688157	-0.074161	0.024625	0.008125
sp Q03626	Murinoglob	8	13	-0.485643	-0.90293	-0.057735	0.0276375	0.0092728
sp Q9Z2I7	Synaptic ve	1	2	-0.344502	-0.642125	-0.050179	0.0287125	0.0103528
sp P10959	Liver carbox	9	14	0.3609927	0.0477958	0.679224	0.0296125	0.0113664
sp P83953	Importin su	1	2	-0.688511	-1.313314	-0.017481	0.0322875	0.0124125
sp P00787	Cathepsin B	5	9	0.208405	0.0627324	0.3564388	0.0330875	0.013397
sp P02764	Alpha-1-acid	5	8	0.3157604	0.0506587	0.5810325	0.0332875	0.0143011
sp P50442	Glycine ami	1	2	0.7343147	0.0175289	1.4406061	0.033425	0.0151326
sp P20760	Ig gamma-2	11	24	0.5745579	-0.00175	1.1302206	0.0379	0.0160813
sp P11167	Solute carri	3	6	-0.225425	-0.405293	-0.051728	0.0386875	0.0169855
sp Q6AYU3	DnaJ homol	2	5	0.3410639	0.025202	0.6597062	0.04085	0.0179034
sp Q63041	Alpha-1-ma	18	29	-0.29475	-0.562625	-0.045234	0.041825	0.0187894
sp Q63945	Protein SET	3	6	0.3796278	0.0149608	0.7507103	0.04345	0.0196701
sp P14882	Propionyl-C	5	6	-0.219414	-0.397183	-0.04193	0.04815	0.0206522
sp P02625	Parvalbumin	4	6	-0.410032	-0.838192	-0.000915	0.0488125	0.0215908
sp Q921A4	Cytoglobin (	1	2	0.5162774	-0.049718	1.0643511	0.05295	0.0226024
sp Q6P5P3	Tetratricope	1	3	0.4161388	-0.022843	0.8563517	0.053375	0.0235641
sp O88370	Phosphatid	1	5	-0.295105	-0.581685	-0.026237	0.0539375	0.0244845
sp P21818	Stathmin-2	1	2	-0.284376	-0.566294	-0.016663	0.0544375	0.0253654
sp P85845	Fascin OS=F	7	12	-0.208963	-0.387334	-0.034174	0.056125	0.0262443
sp P00762	Anionic try	1	2	-0.436827	-0.901537	0.0345817	0.0569625	0.0270976
sp Q499N6	UBX domain	1	2	0.3871182	-0.0158	0.7966929	0.058175	0.0279375
sp P24090	Alpha-2-HS-	12	45	-0.345725	-0.71541	0.0045617	0.05955	0.0287694
sp P15865	Histone H1.	15	46	0.3450369	-0.013423	0.7073244	0.0617	0.0296138
sp Q75WE7	von Willebr	3	3	-0.344223	-0.682577	0.0131979	0.062925	0.0304466
sp P14141	Carbonic an	1	2	-1.062518	-2.342217	0.279319	0.0641375	0.0312683
sp P17078	60S ribosom	5	6	0.1974384	0.0227404	0.3783252	0.0673625	0.0321277
sp P20762	Ig gamma-2	4	5	0.4676666	-0.085254	1.0133731	0.0679125	0.0329599
sp Q6P7S1	Acid cerami	6	7	0.2354789	0.0069258	0.4621365	0.07165	0.0338392
sp Q6P734	Plasma prot	1	2	-0.409786	-0.950552	0.1295661	0.0780875	0.0348225

sp Q63618  Espin OS=Ra	2	2	-0.379648	-0.842907	0.0873513	0.083025	0.0358704
sp P20059  Hemopexin	16	30	-0.21528	-0.43219	-0.000933	0.0839375	0.0368931
sp Q9WUL0  DNA topois	2	2	0.34456	-0.0837	0.7725299	0.0873625	0.0379445
sp Q69BT7  Trafficking p	1	3	-0.243682	-0.50802	0.0222123	0.08865	0.0389793
sp P51146  Ras-related	1	2	0.3006167	-0.046778	0.6599169	0.090175	0.0400033
sp Q6AYC4  Macrophag	11	18	0.3890062	-0.097627	0.8875687	0.0914625	0.0410123
sp P84245  Histone H3.	2	2	0.3121291	-0.110445	0.7374298	0.0917875	0.0419887
sp B5DFC9  Nidogen-2 (	17	26	0.1505424	0.0221775	0.2746351	0.093	0.0429512
sp Q5XIU9  Membrane-	2	2	0.4189814	-0.121008	0.9941784	0.09305	0.0438789
sp Q5RKI8  ATP-binding	2	4	0.2387986	-0.027541	0.4967378	0.0939625	0.0447895
sp Q925B3  Transient re	3	3	-0.262467	-0.565916	0.0386621	0.0968625	0.0457194
sp Q64548  Reticulon-1	7	11	0.1389622	0.0355317	0.2478908	0.0969875	0.0466189
sp Q63625  PHD and RII	2	2	0.5009879	-0.196011	1.1911157	0.0973875	0.0474942
sp Q9QZ76  Myoglobin (	5	9	-1.117661	-2.807736	0.5781407	0.101475	0.0484091
sp P02696  Retinol-binc	2	2	-0.350413	-0.810098	0.1022763	0.10185	0.0492998
sp Q62784  Type I inosit	1	2	-0.468841	-1.114168	0.1907132	0.102525	0.0501723
sp P49186  Mitogen-ac	2	2	0.3159628	-0.074828	0.7205118	0.10295	0.0510236
sp P24268  Cathepsin C	16	34	0.1309001	0.0323361	0.2299227	0.1045875	0.0518738
sp P06765  Platelet fact	3	4	0.4379077	-0.171001	1.0525424	0.1048375	0.0527014
sp P22734  Catechol O-	3	6	0.2142907	-0.028076	0.4477212	0.1053125	0.0535108
sp Q05140  Clathrin coa	3	3	-0.248044	-0.527274	0.0467542	0.1067375	0.0543172
sp P29411  GTP:AMP pl	6	9	0.1571055	0.0082479	0.2979888	0.1105625	0.0551567
sp O35820  Deoxyribon	2	2	-0.34838	-0.818196	0.1126641	0.1107125	0.0559737
sp P84100  60S ribosom	5	10	0.1717008	-0.002844	0.3387293	0.1112125	0.0567743
sp Q6AXQ8  Meiosis-spe	2	2	0.3473077	-0.225731	0.8749138	0.1129	0.0575761
sp P52632  Signal trans	1	3	-0.317811	-0.809341	0.1757298	0.1131	0.0583581
sp P08649  Complemer	4	4	-0.201482	-0.435996	0.0289569	0.113725	0.0591271
sp Q923J6  Dynein hea	3	3	-0.257834	-0.596982	0.0696201	0.11475	0.059889
sp P19944  60S acidic ri	2	4	0.3055435	-0.112551	0.7111912	0.116525	0.0606544
sp P69736  Endothelial	4	5	-0.202377	-0.424444	0.0312028	0.1183375	0.0614235
sp Q62930  Complemer	4	6	-0.18968	-0.397982	0.016428	0.118775	0.0621781
sp P48199  C-reactive p	3	6	0.2638457	-0.077658	0.5987425	0.120925	0.0629411
sp Q29RW1  Myosin-4 O	26	36	-0.891175	-2.338797	0.593472	0.1219625	0.0636978
sp Q499S9  Rhomboid f	3	3	0.2371979	-0.060187	0.5069896	0.1230625	0.0644492
sp P17764  Acetyl-CoA	10	17	-0.161979	-0.324742	0.0071152	0.1234	0.0651861
sp P22199  Mineraloco	2	2	0.4288339	-0.228608	1.0900572	0.1241375	0.0659139
sp O54922  Exocyst con	2	2	-0.389576	-0.973669	0.183455	0.1254125	0.0666395
sp Q5XIC0  Peroxisoma	2	2	0.4328682	-0.274863	1.2012077	0.1275125	0.0673729
sp Q66HC5  Nuclear por	2	2	-0.345667	-0.878599	0.224149	0.1301375	0.0681201
sp P23680  Serum amyl	2	4	0.3070631	-0.120539	0.7508271	0.13125	0.0688628
sp B0BN85  Suppressor	2	3	0.3270922	-0.181793	0.8674118	0.1339	0.069619
sp Q9JMD2  Scm-like wit	2	2	-0.190219	-0.451406	0.0544997	0.1360625	0.0703828
sp P07150  Annexin A1	14	21	-0.193237	-0.423468	0.046377	0.1364125	0.0711331
sp Q9WUH4  Four and a l	2	4	-0.303356	-0.757894	0.1294334	0.136425	0.0718667
sp Q63679  Lysine-spec	1	2	0.4310004	-0.255226	1.1215065	0.136775	0.0725879
sp P07308  Acyl-CoA de	1	2	-0.297211	-0.712559	0.1430613	0.1369	0.0732946
sp P12785  Fatty acid s	44	71	-0.120903	-0.219449	-0.020756	0.1382625	0.0740008

sp Q3T1G7  Conserved c	2	2	0.2953093	-0.138754	0.7386364	0.1408	0.0747191
sp Q91V33  KH domain-	8	9	-0.165192	-0.344245	0.0177078	0.1415375	0.0754299
sp Q63132  Proto-onco	2	2	-0.359704	-1.012675	0.2958333	0.1417375	0.0761279
sp Q6MG64  Protein G7c	1	2	0.2698507	-0.194337	0.7244226	0.14395	0.0768344
sp P53042  Serine/thre	2	3	-0.297528	-0.765792	0.1421111	0.1453875	0.0775411
sp Q80WE1  Fragile X me	2	4	0.2708105	-0.133037	0.6790555	0.1471125	0.078251
sp Q9WTV0  Prolactin re	2	3	-0.209398	-0.499103	0.0702637	0.1491875	0.0789676
sp P55051  Fatty acid-b	3	6	0.2677651	-0.135443	0.6705393	0.1500625	0.0796785
sp Q9R1K2  Teneurin-2	2	2	0.2849628	-0.184097	0.7580479	0.1504125	0.0803788
sp P34067  Proteasome	1	3	0.2310769	-0.082866	0.5435313	0.1506375	0.0810676
sp P00564  Creatine kir	10	14	-0.678361	-1.927465	0.5545816	0.1523625	0.0817598
sp Q99ND9  RWD domai	2	2	0.5029366	-0.402817	1.4103785	0.152425	0.0824393
sp Q8VD52  Pyridoxal pl	1	2	0.2054681	-0.060854	0.4863318	0.1532875	0.083114
sp Q09429  ATP-binding	3	3	-0.70887	-2.123235	0.5757568	0.1555625	0.0837975
sp P18445  60S ribosom	6	8	0.1441667	-0.002238	0.2961553	0.155675	0.0844693
sp P25286  V-type prot	6	9	-0.177939	-0.400829	0.0349421	0.1573875	0.0851444
sp Q8VIF7  Selenium-bi	8	10	0.1457039	-0.007728	0.2994884	0.1595625	0.0858272
sp Q5XIM5  Protein CDV	2	2	0.3505392	-0.288661	0.9894527	0.1606125	0.086507
sp P08753  Guanine nu	1	2	-0.282197	-0.749392	0.1850809	0.1611	0.0871791
sp Q63016  Large neutr	3	6	0.1731879	-0.039948	0.3883573	0.1627875	0.0878541
sp Q4QQW  Putative ph	3	6	0.1944789	-0.059206	0.4537656	0.163075	0.0885198
sp Q68FT1  Ubiquinone	2	2	-0.285977	-0.869331	0.2858056	0.1647625	0.0891886
sp Q64663  P2X purinoc	2	3	0.2007199	-0.107562	0.503465	0.1666125	0.0898618
sp Q9ERB4  Versican co	2	2	0.4710253	-0.398914	1.3719913	0.1683625	0.0905386
sp P04550  Parathyros	1	3	0.2036789	-0.08283	0.4951149	0.1685875	0.0912057
sp Q63198  Contactin-1	6	10	-0.138988	-0.284598	0.005948	0.169275	0.0918673
sp O89107  Deoxyribon	2	2	0.3723245	-0.268407	1.0505949	0.169775	0.092522
sp Q9WVR7  Protein pho	2	4	0.2053197	-0.090771	0.5069883	0.1704625	0.0931715
sp O88563  Canalicular	4	5	0.2091297	-0.115971	0.5245926	0.1722875	0.0938253
sp Q63448  Peroxisoma	2	5	0.2115654	-0.090272	0.5311011	0.1728375	0.094473
sp B5DFC8  Eukaryotic t	4	5	0.1908706	-0.073238	0.4480299	0.174	0.0951195
sp Q4QQR9  Protein MEI	1	2	-0.270514	-0.722785	0.1874678	0.176	0.0957718
sp Q9EPA0  Dystrophin-	10	17	0.1395681	-0.013858	0.2905851	0.1766875	0.0964191
sp P47728  Calretinin O	8	15	0.1867706	-0.083726	0.4414684	0.176725	0.0970564
sp Q99068  Alpha-2-ma	2	2	-0.226318	-0.581234	0.1187477	0.178725	0.0976995
sp P19132  Ferritin hea	3	4	0.2050198	-0.100101	0.5050469	0.178825	0.0983333
sp Q5XI07  Lipoma-pre	1	3	0.2721577	-0.164099	0.7260853	0.1795625	0.098963
sp Q05096  Myosin-Ib C	5	6	0.2504351	-0.141775	0.6664608	0.1797875	0.0995847
sp Q4G009  Malignant T	2	2	-0.205811	-0.516868	0.1144787	0.1821	0.1002146
sp Q09167  Serine/argir	1	3	0.2068928	-0.11397	0.5278039	0.182375	0.100837
sp Q91ZN1  Coronin-1A	3	3	-0.187542	-0.462837	0.0849843	0.1832625	0.1014568
sp P53534  Glycogen pl	28	54	0.1131579	0.0123213	0.2169338	0.183975	0.1020726
sp Q62935  von Willebr	3	3	-0.287563	-0.78687	0.2206828	0.184025	0.1026796
sp Q3KRC6  Leucine-rich	2	2	0.280376	-0.206856	0.7926572	0.1858375	0.1032911
sp P05369  Farnesyl py	6	9	-0.142493	-0.310719	0.0326765	0.1863	0.103897
sp P0C6C0  A-kinase an	2	3	0.1821747	-0.115816	0.4941475	0.18645	0.1044952
sp P50617  Dendrin OS	4	5	0.2210325	-0.12442	0.5709907	0.1894625	0.1051065

sp P0C2X9	Delta-1-pyr	2	2	-0.226617	-0.59573	0.1550926	0.1894625	0.105709
sp Q9JJP9	Ubiquilin-1	4	9	0.2558507	-0.176083	0.7469526	0.1905625	0.1063108
sp O88775	Embigin OS	2	2	-0.247875	-0.700392	0.2037142	0.1911875	0.1069085
sp P01244	Somatotrop	1	3	-0.353855	-1.0885	0.2884093	0.1914875	0.1075
sp Q01812	Glutamate i	2	2	-0.196408	-0.541306	0.1693124	0.1931875	0.1080951
sp P09215	Protein kin	2	2	-0.26677	-0.741216	0.2282159	0.193825	0.1086863
sp P02650	Apolipoprot	12	23	-0.135045	-0.293622	0.0247755	0.1949	0.1092768
sp Q06000	Lipoprotein	1	2	0.2439397	-0.194842	0.7011277	0.1950625	0.1098604
sp O54975	Xaa-Pro am	3	3	0.3478622	-0.353397	1.073814	0.1951	0.1104363
sp P52590	Nuclear por	2	2	0.2506441	-0.17817	0.6908134	0.195175	0.1111005
sp P97878	Exocyst con	2	2	-0.194763	-0.523704	0.1297818	0.19535	0.1115673
sp Q62720	Zinc transp	1	2	0.230482	-0.182473	0.6569005	0.1955875	0.1121238
sp Q62976	Calcium-act	1	2	-0.161891	-0.385151	0.0642009	0.197125	0.112683
sp P01835	Ig kappa chi	7	19	0.2840337	-0.24844	0.8290218	0.1978625	0.1132397
sp P04182	Ornithine al	6	9	0.1362902	-0.023352	0.2979843	0.1989375	0.1137962
sp P15429	Beta-enolas	2	3	-0.9653	-3.20846	1.2200488	0.201325	0.1143609
sp P06302	Prothymosi	1	4	-0.189214	-0.494036	0.1310823	0.2013375	0.1149184
sp P29457	Serpin H1 O	13	20	-0.122341	-0.260514	0.0050312	0.2014	0.1154693
sp Q6AYK6	Calcyclin-bi	3	3	-0.233667	-0.67113	0.2456786	0.202075	0.1160174
sp Q64578	Sarcoplasm	5	5	-0.26243	-0.755642	0.2135751	0.2023	0.1165601
sp P35859	Insulin-like	2	2	-0.367845	-1.121036	0.3804863	0.20235	0.1170963
sp Q9JKB8	Pre-mRNA-s	1	2	-0.204525	-0.568292	0.1542935	0.2035375	0.1176332
sp P62332	ADP-ribosyl	1	2	-0.303713	-0.915552	0.3151685	0.203675	0.1181643
sp Q6AYG5	Enoyl-CoA h	1	2	0.2020361	-0.175648	0.5666609	0.2037375	0.1186893
sp P04937	Fibronectin	11	19	-0.176119	-0.44964	0.0965356	0.2041125	0.1192101
sp Q562C6	Leucine zip	2	2	0.22381	-0.195627	0.6261141	0.2042375	0.1197255
sp P05544	Serine prote	6	10	-0.469065	-1.562102	0.5566112	0.205775	0.1202438
sp P61354	60S ribosom	7	11	0.1243045	-0.012422	0.2668909	0.2063375	0.1207594
sp O88778	Protein bas	3	4	0.2200103	-0.144799	0.6030804	0.2064375	0.1212693
sp P48675	Desmin OS-	6	6	-0.322725	-0.963136	0.3495265	0.20815	0.1217834
sp P08721	Osteopontin	1	2	-0.301555	-0.936099	0.3220932	0.208875	0.1222957
sp Q9EQX9	Ubiquitin-co	3	5	-0.160024	-0.39341	0.0694574	0.2088875	0.1228021
sp P02600	Myosin ligh	6	16	-0.769065	-2.590008	1.0787251	0.2098625	0.1233083
sp P63255	Cysteine-ric	4	6	0.2018493	-0.146519	0.5440632	0.21005	0.1238097
sp Q2TL32	E3 ubiquitin	9	9	-0.151516	-0.355017	0.0677849	0.2113	0.1243125
sp A0JPQ9	Chitinase de	2	4	0.1899433	-0.119767	0.4985198	0.212125	0.1248143
sp P29066	Beta-arresti	2	2	-0.286428	-0.913947	0.3582981	0.2125125	0.1253126
sp Q6URK4	Heterogene	8	14	0.1195022	-0.010899	0.2482355	0.214	0.1258136
sp P05964	Protein S10	8	34	0.1226497	-0.017538	0.2621046	0.21415	0.1263099
sp P13852	Major prion	3	4	-0.152428	-0.36656	0.0660018	0.2142125	0.126801
sp Q62769	Protein unc	3	3	0.2121616	-0.163089	0.5914144	0.2144875	0.1272881
sp P08683	Cytochrome	2	2	0.2039549	-0.149051	0.6113023	0.216225	0.1277795
sp O09175	Aminopecti	2	2	-0.244425	-0.782577	0.2817171	0.2178625	0.1282745
sp P37361	Metallothio	4	6	-0.212448	-0.642924	0.211083	0.2179625	0.1287645
sp O08618	Phosphoribi	3	3	-0.18774	-0.500812	0.1231086	0.2185875	0.1292527
sp Q62829	Serine/thre	1	2	0.1496356	-0.061698	0.3709497	0.219575	0.1297409
sp Q4G074	KIF1-binding	4	4	-0.249451	-0.820179	0.3217473	0.2208375	0.1302307

sp B2GV06  Succinyl-Co	4	4	0.2551405	-0.303289	0.788723	0.2210375	0.1307163
sp Q810U0  Coiled-coil c	2	2	-0.224637	-0.67349	0.2462308	0.2219625	0.1312017
sp P29975  Aquaporin-	2	4	-0.176916	-0.475619	0.1225449	0.2230875	0.1316878
sp Q63474  Epithelial di	3	3	0.1511227	-0.067061	0.3709838	0.2242375	0.1321749
sp P10252  CD48 antige	3	5	0.1500287	-0.067054	0.3697022	0.2258	0.1326651
sp Q6AY61  Serine prote	1	4	-0.391219	-1.296306	0.5201294	0.2269625	0.1331563
sp Q3ZAV8  Enhancer of	2	3	0.1950882	-0.173497	0.553946	0.227075	0.1336429
sp P11661  NADH-ubiqu	2	2	0.2141168	-0.187901	0.6187737	0.2278375	0.1341284
sp P55108  Bone morpl	2	2	-0.274045	-0.881221	0.3129868	0.2289875	0.1346149
sp P63159  High mobili	10	14	0.1542548	-0.064582	0.3946795	0.231425	0.1351088
sp P23928  Alpha-crysta	6	15	-0.124088	-0.284117	0.0291686	0.2315375	0.1355983
sp Q3LUD4  Leucine zip	2	3	0.3189746	-0.455381	1.1268518	0.232	0.1360852
sp Q04631  Protein farr	3	4	0.2714596	-0.300237	0.8317883	0.23205	0.1365674
sp Q5XIU5  Proteasome	2	3	0.1801536	-0.128906	0.4907892	0.2326125	0.1370476
sp Q5EIC4  Enhanced a	3	3	0.1964566	-0.177232	0.5857777	0.232875	0.1375244
sp Q9WTR8  PH domain	2	2	0.1996302	-0.193704	0.5916863	0.2329	0.1379965
sp P04692  Tropomyosi	8	16	-0.309522	-0.991789	0.4013161	0.2335125	0.1384671
sp Q9Z1Z1  Eukaryotic t	2	2	0.2162148	-0.257543	0.7072934	0.2335625	0.1389332
sp P59649  FXYP doma	2	5	-0.146156	-0.365701	0.0685642	0.2344875	0.1393993
sp O35800  Hypoxia-inc	1	2	0.2394673	-0.259124	0.7529637	0.2353375	0.139865
sp P21571  ATP synthas	4	6	0.1672767	-0.123073	0.4510599	0.23575	0.1403283
sp P47727  Carbonyl re	7	12	0.1452929	-0.080563	0.3740672	0.237	0.140793
sp Q62806  Zinc finger p	2	2	0.275573	-0.359469	0.9374246	0.2375	0.1412557
sp P07825  Synaptophy	2	2	0.2098452	-0.257452	0.6829046	0.2390125	0.1417213
sp Q9EQR2  Alkylldihydro	2	4	0.2102463	-0.244271	0.6631195	0.23945	0.1421844
sp Q8CGU4  Arf-GAP wit	2	2	0.1875974	-0.176213	0.5347416	0.239475	0.1426433
sp Q63803  Guanine nu	3	4	0.2185942	-0.218309	0.6593771	0.2408375	0.1431043
sp Q4QQS3  Protein OSC	3	3	-0.221107	-0.697592	0.3257852	0.2408625	0.1435612
sp Q00715  Histone H2E	11	59	0.1277983	-0.042281	0.300105	0.2413625	0.144016
sp Q5XI69  Probable A1	2	2	-0.257859	-0.879114	0.3461137	0.2415625	0.1444677
sp P07895  Superoxide	6	7	-0.122296	-0.274728	0.0342583	0.2418875	0.1449166
sp Q9QYJ6  cAMP and c	3	3	-0.185542	-0.538087	0.1688001	0.2420625	0.1453622
sp Q6V7V2  Rhotekin O	3	3	0.2633699	-0.314006	0.8484326	0.24245	0.1458055
sp P48450  Lanosterol s	2	2	-0.217565	-0.670831	0.2353141	0.2438125	0.146251
sp P12749  60S ribosom	4	9	0.1192225	-0.023747	0.2656108	0.2442125	0.1466943
sp P62912  60S ribosom	5	17	0.1208834	-0.027404	0.274742	0.2447125	0.1471358
sp P61959  Small ubiqu	1	2	0.1618276	-0.121363	0.44447646	0.2473	0.147585
sp Q64604  Receptor-ty	3	3	0.2526092	-0.334911	0.8519788	0.248075	0.1480336
sp P20236  Gamma-am	2	3	0.2395907	-0.25466	0.7645926	0.2483375	0.1484794
sp Q5FVM7  DnaJ homol	3	3	-0.18706	-0.580133	0.2350458	0.2484125	0.1489216
sp O54921  Exocyst con	2	2	0.2013362	-0.202684	0.6019604	0.2491	0.1493629
sp Q920F3  KH domain-	2	2	-0.227426	-0.789796	0.3143302	0.2492875	0.1498012
sp Q9WTL3  Semaphorin	2	2	-0.280785	-0.968924	0.4308019	0.2496375	0.1502371
sp Q8VHU4  Elongator c	1	2	0.2035844	-0.250168	0.6268365	0.24965	0.1506693
sp Q03114  Cyclin-depe	3	4	0.240507	-0.256976	0.7657955	0.250175	0.1511001
sp O35179  Endophilin-	6	9	0.14781	-0.093571	0.375918	0.2507375	0.1515296
sp P50339  Chymase O	2	3	-0.198872	-0.657215	0.2833019	0.2507375	0.1519554



sp Q68FW7  Threonyl-tR	2	2	0.2722921	-0.317476	0.9212199	0.2510875	0.152379
sp Q02253  Methylmalc	17	27	0.1006788	0.0083774	0.1915611	0.25145	0.1528006
sp P18266  Glycogen sy	2	3	-0.289421	-1.136209	0.5983819	0.2523875	0.1532226
sp Q62745  CD81 antige	3	7	-0.12253	-0.289258	0.0442814	0.253675	0.1536464
sp P15127  Insulin rece	3	3	0.2392884	-0.359513	0.8588982	0.25425	0.1540691
sp P50609  Fibromodul	7	16	-0.279041	-0.957544	0.3997423	0.254425	0.154489
sp Q9WTT2  Caseinolytic	2	2	0.2407746	-0.299422	0.8170977	0.2548375	0.1549071
sp Q4V8C2  Centromere	2	2	-0.19343	-0.597468	0.2082918	0.2551	0.1553229
sp Q5FVQ4  Malectin OS	3	4	0.1642551	-0.150155	0.4817376	0.2556	0.1557372
sp Q6MG06  Guanine nu	2	4	-0.185641	-0.567328	0.2291804	0.2556875	0.1561486
sp Q9JI03  Collagen alp	2	2	-0.236197	-0.780151	0.3136427	0.256225	0.1565587
sp Q6P7P5  Basic leucin	3	3	0.1642498	-0.148545	0.4708702	0.2562875	0.1569658
sp Q9EQN5  DNA-bindin	4	6	-0.161336	-0.453342	0.1352342	0.2571125	0.1573729
sp P20761  Ig gamma-2	4	7	-0.29807	-1.054309	0.4717423	0.2576875	0.157779
sp P07687  Epoxide hyc	4	6	0.1568707	-0.113468	0.4302899	0.2579625	0.158183
sp Q6P7A2  Ubiquitin cc	2	2	-0.329576	-1.31811	0.700601	0.2587625	0.1585869
sp P04466  Myosin regu	10	17	-0.57907	-2.235444	1.0951592	0.259	0.1589886
sp P16970  ATP-binding	3	3	0.1833781	-0.222281	0.5781402	0.25905	0.1593872
sp P0C089  Protein-tyrc	1	2	-0.158767	-0.450059	0.1473988	0.2595125	0.1597845
sp Q3T1I9  RNA polym	2	2	-0.168341	-0.600104	0.2907211	0.2596	0.1601791
sp Q9QYM2  Poly(ADP-ri	2	2	-0.281961	-1.079587	0.4819835	0.25985	0.1605715
sp P04644  40S ribosom	3	7	-0.131249	-0.325671	0.0689982	0.2612875	0.1609664
sp P81799  N-acetyl-D- $\alpha$	2	2	-0.255065	-0.87254	0.3637881	0.261475	0.161359
sp Q64361  Latexin OS=	5	12	0.1366868	-0.076892	0.3697361	0.2623375	0.1617519
sp O88941  Mannosyl-o	3	3	0.1853066	-0.245699	0.5870126	0.2625625	0.1621427
sp Q64303  Serine/thre	4	4	-0.126726	-0.344061	0.1298779	0.2636875	0.1625347
sp Q68FS2  COP9 signal	2	2	-0.193607	-0.625302	0.2483334	0.26495	0.1629287
sp Q8K3P7  Histidine tri	3	3	-0.271715	-0.924625	0.4124555	0.2652625	0.1633207
sp B0BNM9  Glycolipid ti	3	7	-0.160295	-0.463593	0.1420328	0.265625	0.1637112
sp P46101  Dipeptidyl a	2	2	-0.179973	-0.564631	0.1943849	0.266375	0.1641016
sp Q6AXM8  Serum para	2	3	-0.244375	-0.889497	0.3337117	0.2671875	0.164492
sp P11505  Plasma mer	3	3	-0.142005	-0.378925	0.1039122	0.2675125	0.1648808
sp Q9JHY8  DNA ligase	2	2	0.3982696	-0.811492	1.5274196	0.2677375	0.1652675
sp Q9Z1C8  Rap guanine	2	2	0.169382	-0.189263	0.5295786	0.2697	0.1656586
sp Q498T2  Friend of PF	2	2	-0.210365	-0.722655	0.3019056	0.2698	0.1660472
sp P23811  Secretin rec	1	2	-0.185071	-0.614388	0.2393476	0.27025	0.1664346
sp P08009  Glutathione	6	10	0.1241052	-0.061112	0.2995323	0.2705625	0.1668202
sp Q9EPC6  Profilin-2 O	5	7	-0.129933	-0.330661	0.0691445	0.270575	0.1672031
sp Q5PQQ8  Integrin bet	1	3	0.1857037	-0.214118	0.5915846	0.2717625	0.1675875
sp Q5U2Z3  Nucleosom	3	3	0.314305	-0.611811	1.2591636	0.2720875	0.1679703
sp P07151  Beta-2-micr	2	3	-0.148135	-0.408819	0.1287207	0.2727875	0.1683528
sp P05545  Serine prote	5	11	-0.233821	-0.822613	0.3551224	0.274725	0.1687396
sp P49797  Regulator o	2	2	0.2007778	-0.268667	0.6550882	0.2750875	0.169125
sp P01026  Complemer	40	70	-0.151288	-0.447377	0.1301984	0.2756	0.1695093
sp P14604  Enoyl-CoA h	11	18	-0.100182	-0.204192	0.0006594	0.2758	0.1698917
sp P28064  Proteasome	1	2	-0.166317	-0.524532	0.2023204	0.2763875	0.1702734
sp P50116  Protein S10	3	7	-0.266255	-1.062443	0.5424757	0.2765375	0.1706529

sp Q9R1J4	Myocilin OS	1	2	0.2164644	-0.298541	0.7322386	0.2770625	0.1710316
sp Q6MG48	Protein PRR	2	2	0.2161496	-0.313986	0.7391501	0.278475	0.1714126
sp P02770	Serum albumin	36	100	-0.16123	-0.493373	0.1707631	0.2788375	0.1717922
sp Q9R1T1	Barrier-to-apoptosis	5	9	0.1244414	-0.068975	0.3176158	0.279025	0.1721698
sp P18886	Carnitine O-acetyltransferase	2	2	-0.261853	-1.077529	0.4708472	0.281575	0.1725536
sp Q64244	ADP-ribosyltransferase	2	4	-0.18128	-0.612729	0.2422147	0.2818625	0.1729358
sp Q5XIG0	ADP-ribose	2	2	-0.211641	-0.788395	0.424974	0.2819625	0.1733157
sp Q5XIG4	OCIA domain	3	4	0.1550589	-0.141882	0.4727031	0.2833875	0.1736979
sp Q62760	Mitochondrial	2	2	0.1530698	-0.148686	0.4571216	0.2833875	0.1740775
sp P62193	26S proteasome	6	9	0.1329533	-0.08194	0.3552954	0.28415	0.174457
sp Q7TQ94	Nitrilase homolog	1	2	-0.163871	-0.499488	0.176691	0.2842	0.1748341
sp Q05175	Brain acid sphingomyelinase	7	14	0.1127156	-0.035737	0.2690242	0.2845625	0.1752099
sp Q9Z1N3	Myosin-IXa	4	4	-0.131471	-0.358301	0.1056129	0.286525	0.1755898
sp Q924R9	Nucleosome	2	2	-0.385852	-1.935203	1.2139996	0.2867375	0.1759679
sp O08653	Telomerase	5	6	-0.118878	-0.298529	0.0640338	0.286825	0.1763437
sp P18297	Sepiapterin	2	4	-0.174428	-0.568575	0.2304642	0.286825	0.1767169
sp Q63228	Glia matura	4	6	-0.130967	-0.356638	0.1050606	0.287025	0.1770883
sp P54319	Phospholipase	3	3	0.1831368	-0.237988	0.6073692	0.2871875	0.1774578
sp P38656	Lupus La protein	2	2	0.1870923	-0.291644	0.6408859	0.2875375	0.177826
sp Q5PQS0	Pleckstrin homology	2	2	0.5153008	-0.483019	2.1299234	0.288875	0.1781961
sp P17425	Hydroxymethylglutaryl-CoA	5	5	-0.141201	-0.410489	0.1358757	0.288925	0.178564
sp P17077	60S ribosomal	4	4	0.1591979	-0.232819	0.5414049	0.2890875	0.17893
sp Q9ESH6	Glutaredoxin	3	6	0.1836264	-0.252088	0.6304414	0.2893875	0.1792945
sp Q6Q0N3	5'-nucleotidase	4	4	-0.168394	-0.523369	0.1770099	0.289525	0.1796571
sp Q6AZ50	Ubiquitin-like	1	2	0.1904957	-0.281313	0.6700299	0.2901125	0.1800193
sp Q6IMZ0	Nuclear factor	2	2	-0.183729	-0.656454	0.3138329	0.290125	0.1803791
sp Q4QQT4	Serine/threonine	3	4	0.1560867	-0.162849	0.4812911	0.29055	0.1807379
sp Q64611	Cysteine sulfoxide	1	3	-0.137987	-0.391454	0.1183264	0.2907625	0.1810952
sp P70550	Ras-related	2	2	-0.218307	-0.782939	0.3492405	0.291775	0.1814534
sp Q5FVQ8	NLR family	3	3	-0.19338	-0.664504	0.30023	0.2922125	0.1818106
sp Q99JD2	Tektin-1 OS	2	2	-0.216938	-0.864335	0.422547	0.2931875	0.1821688
sp Q641X2	RNA polymerase	2	2	0.2706762	-0.666599	1.1868333	0.29345	0.1825254
sp Q66HF8	Aldehyde dehydrogenase	5	8	0.101078	-0.014276	0.219276	0.293575	0.1828802
sp P62856	40S ribosomal	2	5	0.1144302	-0.058667	0.2846346	0.2938625	0.1832337
sp P18292	Prothrombin	3	3	-0.2032	-0.748304	0.3755962	0.2939375	0.1835851
sp P97696	Cytohesin-3	2	2	-0.267713	-1.042332	0.5331691	0.29435	0.1839356
sp Q924T8	Cysteinyln	1	6	-0.123262	-0.334427	0.0881436	0.2946625	0.1842849
sp P97532	3-mercapto	5	7	0.116948	-0.060633	0.2998266	0.295875	0.1846358
sp Q9QUZ8	Glucocorticoid	2	2	-0.16462	-0.60926	0.3822991	0.2969375	0.1849879
sp Q62969	Prostacyclin	2	2	0.18598	-0.289947	0.640469	0.2971375	0.1853384
sp P54921	Alpha-soluble	5	8	-0.121446	-0.319577	0.0795869	0.2974	0.1856875
sp Q9Z0G8	WAS/WASL	2	2	-0.239896	-1.021113	0.5053854	0.2974375	0.1860345
sp Q08406	Ciliary neurotrophic	2	2	-0.260714	-1.279669	0.860745	0.2975	0.1863796
sp P37377	Alpha-synuclein	4	11	0.1478817	-0.160023	0.467021	0.297675	0.1867231
sp P27768	Troponin I, cardiac	3	7	-0.594282	-2.706043	1.499688	0.2983875	0.1870667
sp P47858	6-phosphofructo	13	26	-0.106066	-0.253607	0.0286468	0.2993375	0.1874111
sp Q9Z2Q1	Protein translocase	5	8	-0.123919	-0.340641	0.0882979	0.2997	0.1877545

sp Q62847	Gamma-adv	8	10	0.1133742	-0.056149	0.2800979	0.30015	0.1880971
sp P11497	Acetyl-CoA	3	6	-0.128995	-0.358853	0.0925241	0.3004	0.1884385
sp P83883	60S ribosom	6	8	0.1236225	-0.076852	0.3357812	0.3012625	0.1887804
sp P97607	Protein jagg	2	2	0.2134526	-0.374759	0.8017378	0.30225	0.1891232
sp Q5XI31	GPI transar	3	3	0.1817322	-0.332306	0.7036218	0.302775	0.1894655
sp Q3KRE0	ATPase fam	2	2	0.1763621	-0.233267	0.6034409	0.3028	0.1898059
sp P67874	Casein kina	2	4	0.185355	-0.345285	0.7345833	0.30295	0.1901446
sp P05371	Clusterin O	4	7	0.1328656	-0.102565	0.3833331	0.3032125	0.1904821
sp Q62799	Receptor ty	1	2	0.1417884	-0.225349	0.5066813	0.303775	0.1908193
sp Q5PQQ6	IQ domain-c	1	2	0.2417662	-0.507534	1.0632251	0.304	0.1911552
sp Q5FVH2	Phospholipa	2	3	0.1843837	-0.287151	0.6510979	0.3042875	0.1914899
sp O35264	Platelet-act	2	6	-0.129752	-0.367036	0.1022874	0.3043625	0.1918228
sp P62634	Cellular nuc	1	2	-0.223849	-0.892694	0.4356105	0.3044	0.1921539
sp Q5FVQ9	Tubulin-spe	2	3	0.1864935	-0.295414	0.6563604	0.3052125	0.1924855
sp P10824	Guanine nu	1	2	0.1412455	-0.136673	0.420278	0.3056375	0.1928163
sp Q6AY56	Tubulin alpl	2	2	0.1887407	-0.372833	0.7439098	0.3063375	0.1931473
sp P97633	Casein kina	2	3	0.1774926	-0.268949	0.6300184	0.3068375	0.1934778
sp Q66HD0	Endoplasmic	24	48	-0.090191	-0.178365	0.0018069	0.3083375	0.1938107
sp Q63190	Emerin OS=	2	2	-0.296957	-1.338367	0.7022509	0.3103125	0.1941474
sp Q4FZX7	Signal recog	2	3	-0.142112	-0.444127	0.1511349	0.3103625	0.1944823
sp P60892	Ribose-phos	2	2	0.1503525	-0.252525	0.5622238	0.3108375	0.1948167
sp Q4TU93	C-type man	2	3	-0.138225	-0.42774	0.1627981	0.3109875	0.1951496
sp Q6MG55	Abhydrolase	5	8	-0.116151	-0.299663	0.0767646	0.3116	0.1954823
sp Q63100	Cytoplasmic	3	4	-0.126686	-0.37646	0.1206474	0.311775	0.1958136
sp Q6IG03	Keratin, typ	5	5	0.1346161	-0.179308	0.4320353	0.31185	0.1961433
sp Q9EPF2	Cell surface	5	6	-0.113934	-0.325936	0.1014666	0.3120125	0.1964715
sp Q9E553	Ubiquitin fu	2	2	0.1705563	-0.272378	0.6182309	0.313075	0.1968009
sp P09739	Troponin T,	2	2	-0.292213	-1.330838	0.7072924	0.3132625	0.1971289
sp Q6TUG0	DnaJ homol	3	6	0.1382873	-0.163137	0.4352437	0.3154125	0.1974612
sp P05539	Collagen alp	2	2	0.1610493	-0.261639	0.5860148	0.3160625	0.1977934
sp Q5RK23	Abhydrolase	2	2	-0.227953	-0.968359	0.4703338	0.3167125	0.1981256
sp P09812	Glycogen pl	4	5	-0.206092	-0.829757	0.4282687	0.3169625	0.1984566
sp Q3ZB98	Breast carci	16	34	0.1174474	-0.094623	0.3317444	0.3189875	0.1987914
sp B1H224	PWWP dom	2	2	0.3061029	-0.940165	1.5486823	0.3193875	0.1991255
sp Q4V8C7	Interferon-i	2	2	0.1906591	-0.351994	0.7617048	0.3194125	0.1997882
sp Q9WV48	SH3 and mu	3	3	-0.147832	-0.516163	0.2110307	0.3194125	0.1994578
sp P23764	Glutathione	5	10	-0.161816	-0.582941	0.2622426	0.3194625	0.200117
sp P54100	Proto-oncog	3	3	-0.162019	-0.639514	0.3652694	0.3197	0.2004446
sp Q8K4F7	Scavenger r	2	3	-0.152776	-0.523493	0.227368	0.319775	0.2007707
sp P29147	D-beta-hydr	4	4	0.1680592	-0.28526	0.6055936	0.3201	0.2010958
sp B0BNA7	Eukaryotic t	1	2	0.1396768	-0.173421	0.4503843	0.32185	0.2014239
sp Q8K4K7	Actin-bindir	2	2	-0.163999	-0.613003	0.3154064	0.3236625	0.2017552
sp Q6AYA6	Uncharacte	2	3	-0.153987	-0.549365	0.2413957	0.323775	0.202085
sp P17136	Small nucle	2	2	0.168326	-0.287824	0.6243969	0.324225	0.2024142
sp Q63180	Disintegrin	1	2	-0.119987	-0.374022	0.1320882	0.324525	0.2027425
sp Q9JHW1	Carboxypep	3	3	0.1543396	-0.285156	0.5728279	0.32475	0.2030696
sp Q6QBQ4	Phospholipi	2	2	0.1716227	-0.383639	0.7305315	0.3247875	0.203395

sp P62738	Actin, aortic	8	18	-0.222361	-0.942354	0.5022017	0.324875	0.203719
sp P56574	Isocitrate de	11	20	-0.130159	-0.41271	0.1582052	0.325025	0.2040416
sp Q6LED0	Histone H3.	2	3	0.1657586	-0.240283	0.6004541	0.325075	0.2043626
sp D4A4T9	Cysteine an	3	3	-0.145737	-0.498042	0.1878626	0.325525	0.2046832
sp P62278	40S ribosom	10	22	0.0945626	-0.020796	0.2069844	0.32575	0.2050026
sp Q63610	Tropomyosi	5	12	-0.093418	-0.20353	0.0173113	0.3273	0.2053244
sp P50279	Syntaxin-2 (	1	2	0.1245346	-0.132185	0.3744097	0.3274	0.2056448
sp Q08602	Geranylgera	2	3	-0.158029	-0.579383	0.255966	0.327675	0.2059643
sp P31044	Phosphatidi	10	24	0.1216234	-0.121537	0.3694989	0.3282375	0.2062836
sp P97546	Neuroplasti	3	5	-0.099825	-0.236781	0.041326	0.32875	0.2066025
sp P47853	Biglycan OS	12	31	-0.18137	-0.730406	0.3732034	0.3291875	0.2069209
sp Q9JJM9	Septin-5 OS	2	4	-0.142564	-0.488091	0.2157434	0.329875	0.2072394
sp Q6AYN4	Phytanoyl-C	5	9	-0.112741	-0.329003	0.1041371	0.3308125	0.2075587
sp Q03346	Mitochondr	1	2	0.2300821	-0.578866	1.054192	0.3310625	0.207877
sp Q62902	Protein ERC	2	2	-0.167246	-0.6688	0.2998629	0.3310875	0.2081938
sp P56558	UDP-N-acet	2	3	-0.137168	-0.460961	0.2061147	0.3314875	0.2085099
sp P21263	Nestin OS=F	17	22	-0.095404	-0.215441	0.0270837	0.33215	0.2088261
sp Q62824	Exocyst con	3	3	-0.139446	-0.476877	0.1940395	0.3327875	0.2091423
sp O88453	Scaffold att	5	9	0.1240497	-0.120957	0.3650392	0.3332125	0.209458
sp P26644	Beta-2-glyco	7	13	-0.096078	-0.226832	0.0355252	0.335825	0.2097788
sp Q64240	Protein AM	3	4	0.1203903	-0.144182	0.381065	0.3359375	0.2100982
sp Q4FZU8	Protein FAM	2	2	0.1399608	-0.206609	0.5013911	0.3365125	0.2104174
sp Q9QUR2	Dynactin su	2	2	-0.189511	-0.769548	0.2759763	0.3371125	0.2107365
sp P43138	DNA-(apurin	3	4	0.1485816	-0.234829	0.5253504	0.337375	0.2110547
sp Q3B8Q2	Eukaryotic i	3	3	0.1297121	-0.143072	0.4107153	0.3378375	0.2113725
sp Q63151	Long-chain-	2	2	-0.209114	-1.015713	0.559823	0.33925	0.2116922
sp Q5FVL2	Neighbor of	2	3	0.1425953	-0.25543	0.5494383	0.3392875	0.2120103
sp Q9WUD2	Transient re	2	3	0.164421	-0.333096	0.6460279	0.3403625	0.2123296
sp P36407	E3 ubiquitin	2	2	-0.155229	-0.607451	0.2986716	0.3411875	0.2126494
sp Q5I0H4	Transmemb	2	2	-0.139056	-0.526981	0.2585916	0.3414875	0.2129683
sp Q9WTY8	Zinc finger a	1	3	0.1124869	-0.102431	0.3348964	0.3415875	0.2132859
sp Q6IRK9	Plasma glut	7	13	-0.108481	-0.307105	0.0819004	0.3417625	0.2136023
sp Q4V7E8	Leucine-rich	2	3	-0.164745	-0.659251	0.3389218	0.3422375	0.2139184
sp Q91XU8	Phosphatidi	2	6	0.1389708	-0.221452	0.4894374	0.342525	0.2142336
sp A1A5Q4	UPF0704 pr	2	2	-0.18207	-0.91938	0.5911679	0.3429125	0.2145482
sp P54311	Guanine nu	4	8	0.103232	-0.072259	0.2809043	0.3450625	0.2148665
sp Q4KM74	Vesicle-traf	5	8	-0.101434	-0.269074	0.0659596	0.3454625	0.2151843
sp Q6JAM9	Transmemb	2	3	0.1247629	-0.157446	0.4128235	0.3458125	0.2155013
sp P41123	60S ribosom	9	23	0.0930751	-0.023253	0.2121215	0.346025	0.2158174
sp P02401	60S acidic ri	6	16	0.0952539	-0.03104	0.2256078	0.34635	0.2161327
sp P19139	Casein kina	2	5	-0.14606	-0.539897	0.2386328	0.3464625	0.2164467
sp P20272	Cannabinoid	2	2	0.1539762	-0.313146	0.6178703	0.34665	0.2167597
sp P18484	AP-2 compl	15	26	-0.09223	-0.206241	0.0217887	0.3468125	0.2170716
sp P43278	Histone H1.	8	23	0.115089	-0.134371	0.358251	0.3468875	0.2173821
sp P23514	Coatomer s	2	2	0.1777393	-0.397426	0.7587004	0.3472625	0.2176921
sp Q5XI22	Acetyl-CoA	6	9	-0.10632	-0.340859	0.1357146	0.34735	0.2180008
sp Q8R511	Formin-binc	3	5	-0.105843	-0.288055	0.07791	0.3477375	0.218309

sp Q5BJT7  Coiled-coil c	2	2	-0.237603	-1.275975	0.8487922	0.3480375	0.2186164
sp D4A615  Tonsoku-like	3	3	-0.156622	-0.630603	0.3303327	0.3481375	0.2189226
sp P35171  Cytochrome	2	4	0.1027218	-0.17326	0.3509867	0.3485125	0.2192282
sp P07896  Peroxisoma	2	2	0.1756558	-0.448253	0.806193	0.3493875	0.2195345
sp Q8CF97  Deubiquitin	2	2	-0.140457	-0.53334	0.2630894	0.349925	0.2198406
sp Q641Z6  EH domain-	2	2	-0.176483	-0.792722	0.4043973	0.3499375	0.2201453
sp Q5PQM2  Kinesin light	2	2	0.1586827	-0.323026	0.6391435	0.3502	0.2204491
sp Q6IMF3  Keratin, typ	3	3	-0.375983	-1.829283	0.40158	0.3504875	0.2207522
sp P70619  Glutathione	2	5	-0.106432	-0.304906	0.0900804	0.3505125	0.221054
sp Q6TEK4  Vitamin K e	3	3	-0.134653	-0.496953	0.2435028	0.3509875	0.2213555
sp P21139  Alpha-manr	2	2	-0.155147	-0.650126	0.3111991	0.351425	0.2216566
sp Q6B345  Protein S10	2	3	-0.145957	-0.656158	0.3344641	0.3514625	0.2219564
sp Q80Z30  Protein pho	1	2	-0.154705	-0.68383	0.3666875	0.352075	0.2222562
sp B2GUZ5  F-actin-capp	3	7	0.1140381	-0.127666	0.3448722	0.352375	0.2225553
sp Q6P7R8  Estradiol 17	6	12	-0.109001	-0.314461	0.0862163	0.353175	0.2228549
sp P56720  Sterol regul	2	3	0.1081177	-0.108797	0.3146686	0.35325	0.2231533
sp Q3KR56  GRAM dom	1	2	0.1258463	-0.264604	0.5096116	0.3533375	0.2234505
sp P54690  Branched-cl	8	13	0.1024691	-0.067168	0.2816247	0.3539625	0.2237478
sp P40615  H/ACA ribon	3	3	0.1570378	-0.481689	0.7591558	0.354925	0.2240459
sp O35787  Kinesin-like	2	2	0.1032175	-0.214273	0.3854751	0.355175	0.2243433
sp P63329  Serine/thre	7	9	-0.092206	-0.213339	0.0264849	0.35535	0.2246396
sp Q5MYW  Zinc finger p	2	7	0.1309354	-0.209812	0.4741347	0.355525	0.2249351
sp P97603  Neogenin (F	1	2	-0.14098	-0.650457	0.3764542	0.355925	0.2252301
sp Q4V897  Coiled-coil c	2	2	0.1868385	-0.520436	0.9015332	0.3575875	0.2255276
sp Q80U96  Exportin-1 C	4	8	0.1032939	-0.070841	0.2746626	0.3576	0.2258237
sp Q63524  Transmemb	4	5	0.1137762	-0.128989	0.358115	0.3585375	0.2261206
sp P97690  Structural n	2	2	-0.146744	-0.628603	0.3404713	0.3585875	0.2264163
sp D3ZTE0  Coagulation	1	3	0.232704	-0.963336	1.4935916	0.3586875	0.2267109
sp O88900  Growth fact	2	2	0.1641951	-0.478246	0.7651394	0.3588625	0.2270045
sp Q924U5  Dual specifi	2	2	-0.156253	-0.673024	0.3666975	0.3597875	0.2272989
sp Q6AY30  Probable sa	9	19	0.089641	-0.026816	0.2018864	0.3607625	0.2275942
sp P20611  Lysosomal a	2	2	0.1253248	-0.209082	0.4607318	0.361925	0.2278908
sp Q5EGY4  Synaptobre	2	3	0.12528	-0.346663	0.5638297	0.3623125	0.2281868
sp P27139  Carbonic an	9	18	-0.118302	-0.435181	0.2195638	0.3627625	0.2284826
sp B0BNI5  Olfactomed	2	2	-0.10711	-0.842084	0.8540539	0.3627875	0.2287771
sp Q7M6Z5  Kinesin-like	5	6	0.1163597	-0.208368	0.4428164	0.36455	0.2290742
sp Q9Z339  Glutathione	1	2	0.1519304	-0.360431	0.6610131	0.364825	0.2293706
sp Q99MZ4  Gamma-glu	2	3	0.1558229	-0.373787	0.7249521	0.3650125	0.2296661
sp P45479  Palmitoyl-p	3	3	-0.157778	-0.651199	0.3309884	0.3655375	0.2299615
sp Q99JE6  1-phosphat	3	3	0.1346228	-0.288947	0.5354117	0.3660125	0.2302566
sp P63324  40S ribosom	5	8	0.1064641	-0.108367	0.3211735	0.3662375	0.230551
sp Q66HE5  NUAK famil	2	2	0.1194971	-0.181876	0.4279775	0.3666375	0.2308449
sp Q5RK09  Eukaryotic t	3	3	0.1383485	-0.300134	0.5944654	0.36785	0.2311402
sp Q64654  Lanosterol C	2	3	0.1208789	-0.187734	0.4209383	0.3680125	0.2314345
sp Q9WTP0  Band 4.1-lik	3	4	-0.106841	-0.313319	0.0979448	0.36855	0.2317288
sp Q1HG60  ATP-depend	2	2	-0.151624	-0.747292	0.4532818	0.3693625	0.2320235
sp P18437  Non-histone	2	3	0.1236999	-0.425874	0.6219466	0.3700625	0.2323184

sp Q62868	Rho-associa	2	3	0.1367648	-0.296917	0.5640543	0.3703875	0.2326128
sp P09605	Creatine kir	1	2	-0.559745	-4.490083	3.310267	0.3716875	0.2329087
sp P05712	Ras-related	5	7	-0.09456	-0.243284	0.0542833	0.3724875	0.2332051
sp Q5PPL3	Sterol-4-alp	1	3	0.1261853	-0.22358	0.4887629	0.373025	0.2335013
sp Q9JKC9	Synergina ga	2	2	0.1964209	-0.810638	1.2414078	0.3738625	0.233798
sp P81128	Glucocortic	4	5	-0.134576	-0.59267	0.3228595	0.374625	0.2340951
sp Q63347	26S proteas	8	12	0.0954629	-0.06187	0.2506225	0.37465	0.2343911
sp O88677	Protein BTC	1	4	0.1041809	-0.090201	0.3127812	0.3748	0.234686
sp Q9ROT3	DnaJ homol	2	2	-0.269642	-1.688868	1.0222203	0.375025	0.2349802
sp P61107	Ras-related	6	10	-0.095075	-0.256958	0.0740798	0.375325	0.2352738
sp O35987	NSFL1 cofac	9	13	0.0945475	-0.055318	0.2504421	0.3754125	0.2355664
sp Q9QZM6	Sodium/pot	2	2	0.176966	-0.523636	0.9084455	0.3765125	0.2358601
sp P01946	Hemoglobin	14	100	-0.139993	-0.605847	0.3415541	0.376525	0.2361525
sp Q9WUW	Complemer	3	4	-0.114803	-0.503942	0.3200286	0.3769875	0.2364447
sp P62775	Myotrophin	2	5	0.1263718	-0.283072	0.5250183	0.37725	0.2367362
sp Q9QZA6	CD151 antig	5	13	0.0913001	-0.05406	0.2268071	0.37765	0.2370274
sp P15800	Laminin sub	43	71	0.0952658	-0.083637	0.2714743	0.3781375	0.2373183
sp P63086	Mitogen-ac	7	13	-0.093496	-0.250225	0.0743515	0.37815	0.2376081
sp Q6IRE4	Tumor susce	3	3	-0.134583	-0.564965	0.2847993	0.3781875	0.2378967
sp Q00438	Polypyrimid	3	5	-0.105928	-0.348805	0.1392458	0.3782375	0.2381843
sp Q9QY17	Protein kina	3	3	0.1335174	-0.30067	0.5601269	0.3787375	0.2384718
sp Q5XIK2	Thioredoxin	4	7	-0.099804	-0.292463	0.0895993	0.379075	0.2387587
sp P32089	Tricarboxyla	10	20	-0.081897	-0.157649	-0.009685	0.3792625	0.2390449
sp Q27W01	RNA-binding	3	3	-0.135979	-0.6663	0.3874141	0.3793375	0.23933
sp P63331	Serine/thre	6	7	-0.111126	-0.390517	0.1644942	0.3800375	0.2396154
sp Q3MHT4	Speckle targ	2	2	0.1338554	-0.3018	0.5717152	0.3803625	0.2399003
sp Q62651	Delta(3,5)-E	2	2	-0.114645	-0.450527	0.243759	0.3820375	0.2401875
sp Q00657	Chondroitin	9	11	0.1160069	-0.200769	0.4397896	0.3820875	0.2404736
sp Q5I0C3	Methylcroto	1	2	0.1325913	-0.293312	0.5580418	0.3823625	0.2407591
sp B5DFA1	TBC1 domain	3	3	-0.137474	-0.690498	0.4263241	0.3826875	0.2410441
sp Q920G2	Na(+)/H(+) c	2	2	0.128441	-0.364189	0.6281343	0.3835375	0.2413296
sp P53563	Bcl-2-like pr	1	2	0.1280859	-0.295862	0.5594254	0.3838	0.2416146
sp Q62844	Tyrosine-pro	2	4	0.1178796	-0.239496	0.4787532	0.38435	0.2418995
sp Q66HG5	Transmemb	2	2	0.1225235	-0.295817	0.5363231	0.3853875	0.2421853
sp P85108	Tubulin bet	1	3	-0.125106	-0.608543	0.3770872	0.38635	0.2424719
sp Q0ZHH6	Atlastin-3 O	5	9	-0.096476	-0.279229	0.0908572	0.3866625	0.242758
sp P62997	Transforme	2	2	-0.150963	-0.748016	0.4395438	0.3869375	0.2430435
sp B2RYN7	Spastin OS=	2	2	-0.139206	-0.641433	0.3471514	0.3876375	0.2433292
sp P0C644	Inositol hex	2	2	0.1285772	-0.277232	0.5530727	0.38785	0.2436143
sp Q6KC51	Actin-bindin	2	2	0.1304406	-0.366841	0.6286039	0.3882	0.2438989
sp P42346	Serine/thre	3	3	-0.111549	-0.390614	0.1682707	0.388475	0.244183
sp P84082	ADP-ribosyl	1	2	0.2987559	-1.852372	2.4356262	0.3886125	0.2444662
sp Q9QYP2	Cadherin EC	2	5	0.1059548	-0.159254	0.3719391	0.3892625	0.2447495
sp P62282	40S ribosom	9	14	0.086122	-0.032928	0.2090096	0.3897125	0.2450326
sp Q9JKU6	Spermatid p	4	4	-0.121728	-0.48587	0.2140508	0.390075	0.2453154
sp Q9ESS6	Basal cell ac	7	9	-0.093583	-0.263513	0.0780608	0.3903125	0.2455975
sp P20294	Ciliary neur	4	4	0.1057558	-0.156081	0.3702434	0.390325	0.2458785

sp P70623  Fatty acid-b	1	3	0.1258534	-0.438717	0.6732118	0.3918	0.2461613
sp Q66HA4  Tax1-bindin	2	2	-0.16529	-0.889329	0.5505749	0.39215	0.2464437
sp P55053  Fatty acid-b	7	15	0.0996652	-0.133475	0.3391128	0.394	0.2467285
sp P10960  Sulfated gly	10	24	0.08617	-0.027288	0.2055769	0.394275	0.2470128
sp P24329  Thiosulfate	4	4	-0.097215	-0.31741	0.1312183	0.3945625	0.2472966
sp Q3MHC2  Integrator c	2	2	-0.122521	-0.546868	0.3032511	0.394675	0.2475794
sp Q63604  BDNF/NT-3	3	3	-0.106633	-0.397538	0.1935009	0.3948125	0.2478615
sp Q5U2X6  Coiled-coil c	6	8	-0.097651	-0.309642	0.1170248	0.3957625	0.2481443
sp P97629  Leucyl-cysti	4	5	0.1065073	-0.166363	0.3861543	0.39585	0.2484262
sp Q08290  Calponin-1	3	4	0.2714308	-1.146506	1.7844736	0.3963125	0.2487079
sp Q6P6T4  Echinoderm	3	3	0.1215552	-0.31448	0.5529317	0.3964	0.2489886
sp O88656  Actin-relate	2	2	-0.134459	-0.630547	0.3316872	0.3967	0.2492689
sp Q71LX6  Xin actin-bi	4	4	0.1051462	-0.153895	0.3720392	0.397425	0.2495495
sp Q9Z1P2  Alpha-actin	11	12	-0.150521	-0.863402	0.548125	0.3979125	0.24983
sp Q99MC0  Protein pho	3	4	-0.14238	-0.802914	0.5200479	0.3981125	0.2501098
sp Q63357  Myosin-IId C	4	9	-0.148006	-0.802951	0.5616384	0.39825	0.2503887
sp P21807  Peripherin (	31	100	0.0853398	-0.037476	0.205587	0.398375	0.2506669
sp P63047  Sulfotransfe	1	2	0.1021852	-0.205377	0.3977536	0.3984625	0.2509442
sp P0C5W1  Microtubule	4	4	-0.097176	-0.331812	0.1450774	0.398875	0.2512212
sp O88618  Formimidoy	2	3	0.0958538	-0.129155	0.3246621	0.3989375	0.2514973
sp Q62780  Probable A1	2	2	-0.099215	-0.339926	0.1362482	0.3994375	0.2517733
sp Q32KJ2  Arylsulfatas	3	3	-0.121968	-0.600036	0.3686115	0.39995	0.2520493
sp Q63210  Guanine nu	1	2	0.0973785	-0.181396	0.3848979	0.4007	0.2523256
sp Q5FVI4  Cell cycle ex	4	12	0.0850506	-0.02532	0.1956872	0.401	0.2526014
sp P51647  Retinal deh	3	3	-0.11836	-0.533421	0.2983992	0.401325	0.2528768
sp Q68FS4  Cytosol ami	13	21	-0.091489	-0.297822	0.1177257	0.4020375	0.2531525
sp Q62736  Non-muscle	10	16	-0.099094	-0.408073	0.2140988	0.4024375	0.253428
sp Q6MG08  ATP-binding	3	4	-0.100529	-0.368603	0.1854073	0.4024625	0.2537024
sp Q6PCT3  Tumor prot	3	5	-0.111045	-0.469334	0.2373785	0.4026	0.2539761
sp O70351  3-hydroxyac	6	10	-0.085424	-0.210856	0.0426722	0.4030125	0.2542496
sp P70567  Tropomodu	3	4	-0.112119	-0.4837	0.2661335	0.4034125	0.2545228
sp P84060  Dystrobrevi	3	4	0.1312971	-0.317929	0.6089603	0.4042375	0.2547965
sp P15651  Short-chain	3	5	-0.095402	-0.297459	0.1027517	0.404725	0.2550701
sp Q5EB59  Mediator of	2	3	-0.11231	-0.458002	0.2178616	0.4061375	0.2553453
sp P13676  Acylamino- <i>z</i>	3	4	-0.090102	-0.281017	0.1012117	0.406225	0.2556196
sp Q6AXV7  Ig-like V-typ	2	2	-0.123998	-0.64634	0.4082101	0.4065	0.2558934
sp P13941  Collagen alp	2	3	0.1201757	-0.303465	0.5336794	0.40695	0.2561671
sp P24368  Peptidyl-pro	8	15	-0.085462	-0.243314	0.0743586	0.4072375	0.2564403
sp Q6MGA5  Bromodom	2	4	-0.110667	-0.449868	0.2250065	0.408875	0.2567154
sp Q5U2R3  FERM doma	1	2	0.1828807	-0.86354	1.2772014	0.4095875	0.2569909
sp P62850  40S ribosom	5	8	0.099479	-0.259782	0.4506436	0.409925	0.2572659
sp B2GV54  Neutral cho	1	2	0.1157369	-0.272329	0.4925405	0.4102	0.2575405
sp Q6AY86  Vacuolar pr	3	3	0.1291037	-0.485965	0.7520537	0.4102375	0.2578141
sp P02634  Protein S10	3	4	0.1001876	-0.154047	0.3817898	0.4106625	0.2580876
sp P13697  NADP-depe	7	8	-0.097033	-0.363	0.1700115	0.4107	0.2583601
sp Q64122  Myosin regu	1	2	-0.164351	-1.106762	0.7825889	0.41105	0.2586323
sp P41498  Low molecu	5	9	0.0959218	-0.12013	0.3210756	0.4112	0.2589037

sp Q63060	Glycerol kin	2	4	-0.100616	-0.379389	0.1842385	0.4113125	0.2591744
sp P62250	40S ribosom	7	11	0.0845334	-0.063434	0.2312364	0.41145	0.2594444
sp P08010	Glutathione	5	7	0.0882096	-0.083565	0.2567645	0.4115875	0.2597137
sp P24054	SPARC-like	2	2	-0.123378	-0.777037	0.5553555	0.411725	0.2599823
sp P09650	Mast cell pr	8	18	0.1171386	-0.329206	0.5540311	0.4120125	0.2602504
sp Q7TNJ2	ATP-binding	2	4	0.0989154	-0.176106	0.3690252	0.4121875	0.2605179
sp P36970	Phospholipi	2	2	0.1410941	-0.548467	0.8126895	0.413225	0.2607863
sp Q99ML5	Prenylcyste	4	6	0.1016664	-0.175231	0.3916411	0.4137625	0.2610547
sp B3DMA2	Acyl-CoA de	2	2	-0.120736	-0.625361	0.3603639	0.4137875	0.2613222
sp Q6Q760	Sodium lea	3	3	-0.107402	-0.56463	0.3296551	0.4140125	0.2615891
sp Q5XIM9	T-complex p	20	49	0.0782931	0.0047269	0.1521902	0.4140625	0.2618552
sp P21775	3-ketoacyl-	7	9	-0.093351	-0.389349	0.2112216	0.4140875	0.2621204
sp Q64268	Heparin cof	1	2	0.1154672	-0.317839	0.5489982	0.41535	0.2623869
sp Q5HZY0	UBX domain	2	2	0.1097525	-0.297015	0.5101146	0.4155125	0.2626527
sp Q6MG49	Large prolin	3	3	0.1159043	-0.432729	0.6836599	0.4159	0.2629183
sp Q62673	Serine/thre	3	3	-0.112336	-0.521671	0.2877571	0.4160375	0.2631832
sp O54874	Serine/thre	3	3	0.1075599	-0.377525	0.5683349	0.4163875	0.2634478
sp Q68FR6	Elongation f	28	73	0.0817798	-0.03732	0.1976982	0.417025	0.2637126
sp B3GNI6	Septin-11 O	3	5	-0.09371	-0.354318	0.1713071	0.4182125	0.2639785
sp Q9Z0N7	Potassium v	2	2	-0.129621	-1.438886	1.4492027	0.41825	0.2642436
sp P68101	Eukaryotic t	5	7	0.0892331	-0.115127	0.2997612	0.4190375	0.2645091
sp O08629	Transcriptic	4	6	0.0984537	-0.165755	0.3680534	0.4191	0.2647738
sp O35783	Calumenin (	3	4	-0.115969	-0.683184	0.4704747	0.4193375	0.2650381
sp P07722	Myelin-assc	6	12	0.0880255	-0.157698	0.3096785	0.4199125	0.2653023
sp P85968	6-phosphog	11	19	0.0873626	-0.070651	0.2493103	0.4203875	0.2655665
sp B2GUV7	Eukaryotic t	2	2	-0.114141	-0.640459	0.4090051	0.420475	0.26583
sp Q63258	Integrin alp	9	13	0.0837535	-0.074471	0.2317965	0.4207125	0.266093
sp Q4KLF8	Actin-relate	4	6	-0.088079	-0.297457	0.1271052	0.4207125	0.266355
sp P04462	Myosin-8 (F	2	3	-0.256917	-2.22159	1.6418445	0.421475	0.2666175
sp P17220	Proteasome	5	8	-0.088296	-0.281337	0.1063834	0.4215875	0.2668793
sp Q6AYK8	Eukaryotic t	3	3	0.1189381	-0.360641	0.5949887	0.4217	0.2671403
sp Q62703	Reticulocal	2	3	0.1217546	-0.351613	0.6279688	0.42215	0.2674013
sp P70627	Glutamate c	5	8	-0.095653	-0.360475	0.1703555	0.42245	0.2676619
sp Q7TNY6	Golgi reside	2	2	-0.108952	-0.574392	0.3372988	0.4225	0.2679217
sp Q9JIL9	N Nibrin OS=F	2	2	0.1498126	-0.529174	0.8564718	0.4226625	0.2681809
sp P58200	Vesicle tran	2	2	-0.106972	-0.498531	0.2913215	0.422875	0.2684396
sp Q62667	Major vault	8	11	-0.088898	-0.288692	0.1053957	0.4234125	0.2686983
sp Q920A6	Retinoid-inc	2	2	-0.114541	-0.626146	0.404215	0.4243125	0.2689576
sp P48768	Sodium/cal	3	3	-0.146029	-0.916297	0.5530387	0.424425	0.2692163
sp Q6AXX6	UPF0765 pr	3	3	-0.112762	-0.681101	0.4819506	0.425825	0.2694765
sp P22509	rRNA 2'-O-m	4	5	-0.088713	-0.321434	0.1378831	0.4263375	0.2697366
sp P11608	ATP synthas	2	4	0.0979055	-0.196539	0.3963746	0.42655	0.2699962
sp P05065	Fructose-bis	21	49	-0.078861	-0.174423	0.0111038	0.426925	0.2702556
sp Q62658	Peptidyl-pro	3	9	0.0886617	-0.088547	0.2699556	0.4272125	0.2705146
sp Q6P9T8	Tubulin bet	2	7	-0.094094	-0.366715	0.1813263	0.427825	0.2707738
sp P14669	Annexin A3	3	4	-0.096431	-0.444751	0.2588792	0.428725	0.2710336
sp Q9WVCC	Septin-7 OS	10	20	-0.078294	-0.170746	0.0148566	0.42905	0.271293



sp P00388	NADPH--cyt	6	10	-0.084012	-0.243302	0.0745378	0.4293125	0.2715521
sp Q5XHY7	Signal trans	1	2	0.1019805	-0.239771	0.4631036	0.429375	0.2718104
sp Q4V7A0	WD repeat-	1	2	0.1204909	-0.571147	0.8442147	0.4296875	0.2720684
sp Q63796	Mitogen-ac	2	2	0.126102	-0.548278	0.7994328	0.4297125	0.2723255
sp Q9Z0V6	Thioredoxin	2	2	-0.11223	-0.616522	0.4009329	0.4307875	0.2725836
sp P21670	Proteasome	3	4	0.0886355	-0.116432	0.2939446	0.430875	0.272841
sp Q9JIX3	Bis(5'-aden	2	2	-0.087463	-0.6158	0.5283437	0.4310125	0.2730978
sp Q08877	Dynamamin-3	4	12	-0.090701	-0.331519	0.1303094	0.43135	0.2733543
sp Q8VIJ5	Bifunctiona	6	7	0.0894902	-0.120864	0.3060283	0.431575	0.2736103
sp P54313	Guanine nu	4	5	-0.090617	-0.313538	0.1342295	0.4317875	0.2738658
sp O88204	Low-density	2	2	-0.117659	-0.732535	0.5026037	0.4318875	0.2741207
sp Q69FB3	Junctophilin	2	2	0.1009737	-0.213808	0.4495717	0.432075	0.274375
sp P70566	Tropomodul	7	7	0.0908319	-0.154121	0.3320912	0.43245	0.2746292
sp P47819	Glial fibrillar	28	58	0.1597067	-0.920259	1.2642468	0.4326125	0.2748828
sp Q62785	28 kDa heat	5	5	0.0944784	-0.189679	0.3832912	0.432625	0.2751356
sp Q9Z2F5	C-terminal-l	2	2	-0.11739	-0.648994	0.3891407	0.4331375	0.2753884
sp Q6P799	Seryl-tRNA	6	9	0.0889524	-0.130269	0.3148595	0.4334	0.2756408
sp P17702	60S ribosom	4	7	0.079437	-0.028395	0.1928902	0.4338875	0.2758932
sp B0BNN3	Carbonic an	5	8	-0.106284	-0.575107	0.3831059	0.4353	0.276147
sp Q6AYM2	Tektin-2 OS	2	2	-0.088707	-0.345956	0.1767781	0.4355625	0.2764004
sp Q8K585	High mobili	4	5	0.0832029	-0.081419	0.2530989	0.435575	0.2766531
sp Q641X8	Eukaryotic t	4	4	0.1096032	-0.426466	0.6607045	0.4371125	0.2769074
sp Q9EPX0	Heat shock	4	4	-0.095229	-0.415729	0.2193339	0.437475	0.2771615
sp Q9R1T5	Aspartoacyl	9	11	-0.090262	-0.296658	0.1099682	0.4375625	0.2774148
sp Q68FQ2	Junctional a	2	2	-0.129793	-0.736336	0.4020195	0.4379375	0.277668
sp P09811	Glycogen ph	2	4	-0.103114	-0.50299	0.3114184	0.4387875	0.2779218
sp Q6RFZ7	Pleckstrin h	2	2	-0.094215	-0.528708	0.3413022	0.4390375	0.2781751
sp P84586	Heterogene	8	11	-0.080557	-0.22181	0.0655598	0.43925	0.278428
sp Q4VSI4	Ubiquitin ca	3	4	-0.090201	-0.39824	0.2480477	0.4400875	0.2786813
sp P0C0A9	Small VCP/p	3	8	0.0832631	-0.122318	0.2830422	0.440225	0.2789342
sp P23593	Apolipoprot	3	6	0.1055649	-0.359144	0.5729042	0.4403375	0.2791863
sp A2VD12	Pre-B-cell le	2	2	-0.108631	-0.664432	0.4650583	0.4405875	0.2794381
sp Q6RJR6	Reticulon-3	4	6	0.086599	-0.15171	0.3186317	0.44095	0.2796897
sp Q3SWU3	Heterogene	1	2	0.0960605	-0.236579	0.4341918	0.44105	0.2799407
sp Q5U2U2	Crk-like pro	2	4	-0.094525	-0.463399	0.2823589	0.441525	0.2801916
sp P49088	Asparagine	2	3	-0.08444	-0.385702	0.2344974	0.4418	0.2804421
sp Q6AXS3	Protein DEK	1	2	0.1153415	-0.626482	0.8458019	0.442025	0.2806923
sp P07340	Sodium/pot	12	33	-0.078336	-0.186098	0.0217712	0.442175	0.2809418
sp P62982	Ubiquitin-4l	8	36	0.0764453	-0.022075	0.1758997	0.4425125	0.2811912
sp Q5RJQ4	NAD-depen	5	9	-0.100564	-0.534053	0.3497121	0.4428	0.2814402
sp P63174	60S ribosom	4	6	0.0902227	-0.128762	0.3242139	0.44325	0.2816891
sp Q8R4C0	Calpain-5 O	2	2	-0.110929	-0.839377	0.6212248	0.4435125	0.2819377
sp Q5M9G3	Caprin-1 OS	6	7	0.0813033	-0.081424	0.2363169	0.444425	0.2821869
sp P24049	60S ribosom	7	10	0.0833173	-0.079798	0.2509536	0.4450875	0.2824364
sp Q5U1Z0	Rab3 GTPas	3	4	0.0859992	-0.150677	0.3294558	0.4452125	0.2826853
sp P20070	NADH-cytoch	7	14	0.0801458	-0.061711	0.2216554	0.4457125	0.2829342
sp P16975	SPARC OS=f	5	7	-0.088274	-0.354371	0.1778766	0.4459375	0.2831827

sp P85970	Actin-relate	6	9	-0.092595	-0.412589	0.222092	0.4460625	0.2834306
sp A1L1K3	Anaphase-p	2	2	-0.095525	-0.599323	0.4151121	0.4462125	0.283678
sp Q62881	Nucleolar p	2	3	-0.094187	-0.44918	0.2759125	0.4464875	0.283925
sp Q6AXS5	Plasminoge	5	7	0.085575	-0.138754	0.3058633	0.4475375	0.2841729
sp Q64060	Probable A1	2	4	0.0828685	-0.180428	0.3267726	0.4477625	0.2844204
sp Q9Z340	Partitioning	1	2	0.1010744	-0.395291	0.5883386	0.4478125	0.2846672
sp Q3KRE8	Tubulin bet	1	2	0.1105909	-0.524847	0.750977	0.44845	0.2849143
sp P28840	Neuroendo	1	2	-0.125187	-0.972573	0.728017	0.4486125	0.2851608
sp P20069	Mitochondr	2	2	0.1059179	-0.448776	0.6765282	0.448725	0.2854067
sp Q9Z2K3	Zinc finger p	1	2	-0.132741	-1.412113	1.1127909	0.4489875	0.2856524
sp P70628	Interphotor	2	2	0.1713884	-0.431078	0.9535228	0.4491	0.2858974
sp P49816	Tuberin OS-	3	5	0.0992683	-0.232226	0.4696475	0.4493	0.286142
sp Q9QXQ0	Alpha-actin	20	27	-0.080089	-0.272624	0.1095196	0.4494875	0.2863862
sp Q4L208	Sodium/hyc	2	3	-0.092407	-0.464492	0.2543402	0.44975	0.28663
sp Q7TT49	Serine/thre	2	2	-0.100161	-0.602147	0.4412653	0.449775	0.2868732
sp Q8VII6 C	Choline tran	9	19	0.0764118	-0.061753	0.2116125	0.450275	0.2871163
sp Q9WUB5	Nuclear rec	3	3	-0.092702	-0.60145	0.426306	0.450275	0.2873587
sp Q64680	Cytochrome	2	2	0.0929997	-0.384881	0.583816	0.450375	0.2876006
sp P13471	40S ribosom	4	9	0.0793638	-0.075518	0.2341487	0.4504375	0.2878419
sp P36201	Cysteine-ric	4	10	-0.088458	-0.423032	0.2431332	0.451175	0.2880835
sp Q0ZCA7	C-type lecti	3	5	0.0796861	-0.224881	0.3664473	0.4524125	0.2883262
sp Q4QQV8	Charged mu	2	3	-0.094956	-0.578463	0.3671461	0.452475	0.2885683
sp P50475	Alanyl-tRNA	20	30	-0.076891	-0.187942	0.0376361	0.452575	0.2888098
sp O08838	Amphiphysi	7	11	0.0852098	-0.165415	0.3288201	0.4528875	0.2890511
sp Q01986	Dual specifi	2	4	0.1038911	-0.39149	0.6095955	0.452925	0.2892918
sp Q62950	Dihydropyri	2	7	-0.080617	-0.243809	0.076332	0.4542625	0.2895337
sp P34064	Proteasome	2	3	0.0912265	-0.298329	0.4985278	0.4545	0.2897752
sp Q9EPB1	Dipeptidyl p	2	7	-0.079312	-0.241551	0.0914418	0.4545625	0.2900161
sp Q505J8	Phenylalany	5	5	0.0871842	-0.199282	0.3676669	0.45505	0.290257
sp Q460M5	Leucine-rich	2	6	-0.080866	-0.252448	0.0926688	0.45565	0.2904981
sp P04631	Protein S10	4	19	0.0960722	-0.281527	0.4931749	0.4557625	0.2907387
sp P62853	40S ribosom	3	5	0.0854587	-0.17696	0.3573285	0.4564625	0.2909796
sp Q62839	Golgin subfi	2	2	-0.0762	-0.521099	0.4415389	0.4568	0.2912202
sp Q9Z1W6	Protein LYR	2	6	0.1023372	-0.409636	0.6224683	0.4569875	0.2914605
sp P62828	GTP-binding	6	13	-0.085832	-0.407335	0.2404552	0.457175	0.2917003
sp Q04931	FACT compl	4	4	0.0813472	-0.184341	0.345142	0.4576	0.29194
sp P06907	Myelin prot	10	100	-0.077415	-0.221468	0.0667121	0.4577125	0.2921793
sp Q6U6G5	Zinc finger C	1	2	0.0930515	-0.456391	0.6241843	0.45835	0.2924187
sp Q812D1	PC4 and SFF	2	2	0.0941932	-0.442127	0.6474256	0.4586	0.2926578
sp O55096	Dipeptidyl p	7	9	-0.075266	-0.25407	0.1164049	0.458625	0.2928963
sp P63100	Calcineurin	5	5	0.0823154	-0.169843	0.3390652	0.4587	0.2931341
sp O54963	RE1-silencir	3	5	0.0774875	-0.053764	0.2164291	0.45905	0.2933718
sp Q63362	NADH dehy	2	3	0.0817254	-0.284648	0.4352159	0.4592	0.2936091
sp Q63754	Beta-synucl	1	2	0.1491207	-1.183664	1.5286566	0.4609	0.2938481
sp P60203	Myelin prot	11	53	0.10137	-0.542573	0.7623269	0.4613125	0.294087
sp Q794F9	4F2 cell-sur	4	7	-0.078967	-0.250968	0.0972616	0.461425	0.2943253
sp Q5PQQ1	tRNA modif	2	2	0.093184	-0.442264	0.5959645	0.461475	0.2945631

sp Q2PQA9  Kinesin-1 he	10	13	0.0769404	-0.058544	0.209505	0.4617625	0.2948006
sp Q4FZZ1  PX domain-	2	3	0.0837855	-0.219827	0.377999	0.462025	0.2950378
sp P02454  Collagen alp	11	26	-0.086468	-0.466322	0.2714467	0.4636625	0.2952766
sp P06238  Alpha-2-ma	2	2	0.0965004	-0.429955	0.6374854	0.464025	0.2955153
sp P05696  Protein kina	5	7	0.0754126	-0.072062	0.2242393	0.4640375	0.2957534
sp Q68FQ0  T-complex p	17	26	0.0741038	-0.009436	0.157195	0.464525	0.2959914
sp Q10743  Disintegrin	2	2	0.0791555	-0.284686	0.4250811	0.4646625	0.296229
sp Q32Q06  AP-1 compl	2	2	-0.092969	-0.663239	0.4551192	0.46515	0.2964665
sp Q63484  RAC-gamma	2	2	0.1145203	-1.017517	1.236957	0.4652625	0.2967036
sp Q63569  26S proteas	7	9	0.0788068	-0.111857	0.276336	0.465575	0.2969405
sp Q80ZG5  Pre-mRNA-s	3	3	-0.091273	-0.645386	0.4303993	0.466975	0.2971786
sp Q2M2R8  Peroxisoma	2	2	0.0901876	-0.520246	0.7175909	0.467825	0.2974173
sp Q9WVH8  Fibulin-5 OS	8	12	0.0788904	-0.073399	0.2359101	0.4679875	0.2976555
sp Q9JIP0  Transient re	2	2	-0.087745	-0.596161	0.4367433	0.468125	0.2978933
sp Q64649  Phosphoryla	4	5	0.0803979	-0.208556	0.3720335	0.468275	0.2981306
sp Q66HA6  ADP-ribosyl	8	22	0.073318	-0.015691	0.1643691	0.46855	0.2983676
sp Q6RFY2  Phosphatas	1	3	0.088854	-0.443618	0.610709	0.46925	0.2986049
sp O35952  Hydroxyacy	4	6	-0.077724	-0.261061	0.1036435	0.4693	0.2988417
sp P38983  40S ribosom	9	21	0.0749484	-0.031588	0.1823675	0.4695875	0.2990782
sp Q62807  Synaptotagi	2	2	0.0783489	-0.329344	0.4522822	0.4699125	0.2993144
sp P13635  Ceruloplasn	19	36	0.0753747	-0.053639	0.2070461	0.4701875	0.2995504
sp O35094  Mitochondr	4	6	0.0831743	-0.230904	0.3908881	0.47065	0.2997864
sp P20767  Ig lambda-2	3	8	0.0844747	-0.245511	0.4222525	0.4706625	0.3000218
sp Q6AY84  Secernin-1 (	10	20	0.0774582	-0.117297	0.2777825	0.4707625	0.3002567
sp Q4FZY0  EF-hand doi	4	5	0.0761731	-0.121517	0.280426	0.4713875	0.3004917
sp P06687  Sodium/pot	11	21	-0.076353	-0.214613	0.0549343	0.471425	0.3007262
sp P23562  Band 3 anio	7	15	0.0931792	-0.442536	0.6567181	0.471625	0.3009603
sp Q4V8K2  Beta-cateni	2	2	-0.084765	-0.53873	0.3527054	0.4717875	0.301194
sp P02680  Fibrinogen p	2	2	-0.092195	-0.681126	0.5082435	0.4725	0.301428
sp P09456  cAMP-depe	3	3	-0.087212	-0.549493	0.3676648	0.4725875	0.3016615
sp Q793F9  Vacuolar pr	5	6	0.0809497	-0.298355	0.4519961	0.4732125	0.3018953
sp Q5EB77  Ras-related	2	2	0.0830425	-0.358791	0.5207303	0.4733125	0.3021285
sp P05943  Protein S10	5	19	0.0778017	-0.114187	0.2702271	0.47345	0.3023613
sp Q8VHK7  Hepatoma-	4	7	0.0784478	-0.150085	0.3020693	0.47365	0.3025937
sp P35465  Serine/thre	2	2	-0.083277	-0.498687	0.3549592	0.4741	0.3028261
sp P63039  60 kDa heat	28	54	-0.071882	-0.127751	-0.014723	0.474125	0.3030579
sp P52555  Endoplasmic	5	6	-0.078283	-0.307601	0.1508462	0.4745375	0.3032896
sp P85969  Beta-soluble	3	6	0.0751448	-0.074286	0.2298697	0.47505	0.3035214
sp P08461  Dihydrolipo	13	25	-0.073855	-0.185234	0.0352878	0.4752	0.3037528
sp Q4V7C6  GMP syntha	4	6	-0.076642	-0.329437	0.1733797	0.4760375	0.3039846
sp Q63356  Myosin-le C	3	3	0.0804359	-0.339787	0.5157083	0.476275	0.3042162
sp Q5XIE1  UPF0670 pr	5	7	-0.073831	-0.31429	0.1878532	0.476425	0.3044474
sp P40241  CD9 antiger	9	44	0.0756397	-0.091806	0.2496793	0.47685	0.3046785
sp P84092  AP-2 compl	6	8	-0.074645	-0.226959	0.0750427	0.4776	0.30491
sp Q6P4Z6  Leucine carl	2	3	-0.078646	-0.353184	0.1749481	0.477775	0.3051411
sp P62747  Rho-related	3	4	0.0766471	-0.143566	0.3001972	0.4779	0.3053717
sp Q4KM73  UMP-CMP k	4	6	-0.074871	-0.310152	0.1580953	0.477975	0.3056019

sp Q5RKH0  Putative oxi	2	3	-0.073785	-0.467463	0.3388033	0.4780375	0.3058315
sp P20717  Protein-argi	5	8	0.0807865	-0.318855	0.4750777	0.47835	0.3060609
sp P60522  Gamma-am	2	3	0.0775394	-0.34353	0.4833743	0.478525	0.3062899
sp P58775  Tropomyosi	7	12	-0.097363	-1.250494	1.0813481	0.4787125	0.3065186
sp Q2V057  Probable pr	1	2	0.0793461	-0.315069	0.4666891	0.4787625	0.3067467
sp Q64232  Trans-2,3-e	4	7	0.0753121	-0.094892	0.2417362	0.4788375	0.3069744
sp Q9QY78  Inhibitor of	4	5	-0.075597	-0.319184	0.1662976	0.478875	0.3072014
sp Q5RKH1  Serine/thre	4	4	-0.077394	-0.376686	0.2307244	0.47975	0.3074291
sp O35763  Moesin OS=	16	25	-0.071348	-0.143939	0.0029372	0.4803625	0.3076569
sp O55035  Peptidyl-pro	2	2	0.0842083	-0.402162	0.6078893	0.4803875	0.3078842
sp Q63624  Splicing fact	2	2	-0.129559	-0.817686	0.4479366	0.4804625	0.308111
sp Q9QXU9  ProSAAS OS	3	4	0.0812561	-0.422001	0.5813669	0.480475	0.3083372
sp Q4G075  Leukocyte e	3	3	-0.113391	-1.238113	0.9278007	0.480875	0.3085633
sp Q8R4T5  General rec	2	2	0.0910417	-0.325553	0.5366303	0.4809625	0.308789
sp Q99PF5  Far upstre	7	8	0.0748483	-0.094879	0.2439616	0.4810875	0.3090142
sp Q62645  Glutamate	1	6	-0.075702	-0.250025	0.1001498	0.4812125	0.309239
sp P11883  Aldehyde de	2	2	0.0824944	-0.705945	0.8372604	0.481525	0.3094636
sp Q62714  Neutrophil	1	3	-0.075484	-0.30023	0.137756	0.4818	0.309688
sp Q03410  Synaptonem	2	3	-0.07735	-0.514041	0.3509263	0.4819625	0.309912
sp P09606  Glutamine s	7	10	-0.073897	-0.320679	0.177683	0.4819875	0.3101355
sp Q923V4  F-box only p	2	3	0.07533	-0.200972	0.3430381	0.48225	0.3103587
sp Q4V7C7  Actin-relate	13	27	-0.07246	-0.180538	0.0349386	0.482275	0.3105814
sp P51792  H(+)/Cl(-) ex	2	2	0.0855107	-0.349071	0.5293904	0.483075	0.3108046
sp P04905  Glutathione	6	9	0.0750846	-0.129532	0.2778204	0.4833125	0.3110275
sp B1H228  Coiled-coil c	2	2	-0.083504	-0.587996	0.4091675	0.4834	0.3112499
sp P41562  Isocitrate de	9	20	-0.072419	-0.228411	0.0874347	0.4836	0.311472
sp O35923  Breast canc	4	4	-0.081205	-0.789776	0.6446701	0.483725	0.3116937
sp Q99MI7  NEDD8-acti	2	4	0.072786	-0.171324	0.3190673	0.48375	0.3119148
sp O35162  Heat shock	2	2	0.0793579	-0.628825	0.7983311	0.483875	0.3121356
sp Q64632  Integrin bet	39	56	0.0723263	-0.034865	0.1797766	0.4842375	0.3123562
sp P70580  Membrane-	2	5	0.0747302	-0.123239	0.2802949	0.4844	0.3125765
sp Q6AYG3  Protein prui	2	4	0.0763009	-0.267672	0.405708	0.4844375	0.3127963
sp O35821  Myb-bindin	3	4	-0.075984	-0.352175	0.1990012	0.4847625	0.3130159
sp Q711G3  Isoamyl ace	2	2	-0.077754	-0.512002	0.3542647	0.4850375	0.3132353
sp O08697  ADP-ribosyl	3	4	-0.075265	-0.410287	0.2565377	0.4862375	0.3134557
sp A1L108  Actin-relate	2	2	0.0758187	-0.337889	0.4708093	0.486625	0.3138958
sp Q5U2Y0  WD repeat	1	3	-0.097296	-1.369745	1.1748043	0.486625	0.313676
sp Q9JKL7  Splicing reg	2	2	-0.073577	-0.584281	0.4308972	0.4868	0.3141152
sp P26772  10 kDa heat	10	24	-0.069857	-0.165875	0.0264944	0.48705	0.3143344
sp P11030  Acyl-CoA-bi	8	27	0.0758511	-0.249053	0.4072232	0.4873125	0.3145533
sp P53812  Phosphatidyl	2	2	-0.067772	-0.51801	0.3920467	0.48805	0.3147727
sp D3ZAP3  Uncharacte	1	2	0.0767528	-0.346682	0.4919669	0.4882875	0.3149917
sp P11884  Aldehyde de	16	41	0.0716894	-0.058027	0.1961158	0.4887625	0.3152109
sp Q5RJR2  Twinfilin-1 (	2	3	0.0752304	-0.564876	0.6956503	0.489225	0.31543
sp O35263  Platelet-act	3	6	0.0744771	-0.117677	0.2711559	0.4892875	0.3156487
sp P42930  Heat shock	12	28	-0.072241	-0.175792	0.0313775	0.4893125	0.3158669
sp Q4V8H8  EH domain-	14	21	-0.073889	-0.285373	0.1361707	0.489575	0.3160848

sp P00406	Cytochrome	3	8	0.0736709	-0.067465	0.2130998	0.48965	0.3163023
sp Q5I0D5	Phospholysi	1	3	-0.07691	-0.837701	0.7057478	0.49015	0.3165199
sp P60669	Pleckstrin h	8	12	0.0735524	-0.099183	0.2433426	0.4904875	0.3167374
sp P47196	RAC-alpha s	1	2	-0.074019	-0.492038	0.3600048	0.490625	0.3169545
sp Q9QZ86	Nucleolar p	2	2	-0.073997	-0.320497	0.182311	0.49095	0.3171714
sp Q9HB97	Alpha-parvi	5	6	-0.073075	-0.287017	0.1436233	0.4909875	0.3173879
sp P97846	Contactin-a	4	10	0.0709731	-0.163219	0.2970296	0.4919	0.3176049
sp O35509	Ras-related	10	19	-0.07198	-0.175056	0.0285189	0.492175	0.3178218
sp Q63692	Hsp90 co-cl	4	9	-0.06995	-0.260151	0.1270255	0.4929125	0.318039
sp Q8K4T4	Filamin-A-ir	3	4	0.0712833	-0.513369	0.677485	0.4932125	0.3182561
sp Q63345	Myelin-oligo	2	4	0.08448	-0.847892	1.0760991	0.4936875	0.3184732
sp O08730	Glycogenin-	3	6	0.0726501	-0.17627	0.3239992	0.49445	0.3186907
sp D3ZXK7	E3 ubiquitin	2	3	0.0749705	-0.292135	0.4455206	0.4945625	0.3189079
sp Q63486	Ras-related	2	3	0.072589	-0.368741	0.5105461	0.494725	0.3191247
sp Q9JLS3	Serine/thre	2	2	0.0772787	-0.564877	0.7400047	0.4949625	0.3193412
sp O35889	Afadin OS=f	5	5	-0.071169	-0.272696	0.1248719	0.4950125	0.3195573
sp Q505J6	Mitochondr	2	4	0.0726201	-0.077735	0.223461	0.495075	0.3197729
sp Q62774	Myosin-la (l	3	3	0.0932956	-0.954302	1.1487603	0.495225	0.3199882
sp Q6P742	Proteolipid	1	3	0.0887446	-0.536986	0.7832801	0.495275	0.320203
sp O35824	DnaJ homol	7	10	-0.070494	-0.195865	0.0639485	0.49645	0.3204187
sp O54861	Sortilin OS=	5	5	0.0790375	-0.195281	0.3826796	0.498675	0.3206366
sp Q9R283	Short transi	2	2	0.069585	-0.708953	0.8538498	0.498675	0.320854
sp P47863	Aquaporin-4	2	3	-0.071178	-1.210223	1.0504703	0.498775	0.321071
sp Q62611	Interleukin-	3	3	0.0712088	-0.291233	0.4280543	0.4987875	0.3212875
sp Q4KLL9	Kinesin-like	2	2	-0.089825	-2.535286	2.3026117	0.4993	0.321504
sp Q3ZU82	Golgin subfi	6	7	0.0707103	-0.148435	0.2862518	0.49955	0.3217204
sp Q9EQZ1	TSC22 domi	1	4	-0.055195	-0.364694	0.2800148	0.4998625	0.3219366
sp Q4FZT0	Stomatin-lik	4	5	0.0696583	-0.16557	0.3089848	0.4998875	0.3221523
sp P36972	Adenine ph	4	6	0.0717025	-0.155376	0.3013989	0.5	0.3223676
sp B5DF41	Syntaphilin	2	2	0.07016	-0.597111	0.7789928	0.5000875	0.3225825
sp O35346	Focal adhes	3	4	0.0688001	-0.353525	0.4788568	0.50025	0.322797
sp Q9JMC1	Phosphatid	2	2	-0.063598	-0.446539	0.3491354	0.5009	0.3230119
sp Q5XHY1	Leucine-rich	2	2	-0.068862	-0.490148	0.3436397	0.5014625	0.3232269
sp P57097	Tyrosine-pro	2	2	0.0709124	-1.0255	1.2283024	0.50175	0.3234417
sp Q920R4	G-protein co	4	4	-0.06889	-0.516799	0.3775501	0.50185	0.3236561
sp Q08326	Guanine nu	1	2	0.0710579	-0.386201	0.5498211	0.5019125	0.3238701
sp Q99J82	Integrin-link	5	5	-0.06714	-0.369548	0.2344452	0.502	0.3240837
sp B1WBU8	UPF0639 pr	3	4	0.0681168	-0.186497	0.3119845	0.50205	0.3242969
sp P02091	Hemoglobin	3	32	-0.070876	-0.52849	0.3890469	0.502175	0.3245096
sp O35112	CD166 antig	3	3	-0.067401	-0.434536	0.3152557	0.50265	0.3247225
sp Q9EPJ0	Nuclear ubi	2	4	0.0708933	-0.120288	0.2672675	0.5032	0.3249354
sp Q792I0	Protein lin-	5	7	0.0768292	-0.133092	0.3008683	0.503575	0.3251484
sp Q99JD4	CLIP-associa	8	10	-0.068084	-0.265674	0.1323345	0.5038375	0.3253611
sp Q9JLH7	CDK5 regula	3	3	-0.062875	-0.456487	0.3463283	0.504525	0.3255741
sp P69735	Rab3 GTPas	2	3	0.0741379	-0.223642	0.3810158	0.5048125	0.325787
sp Q9Z142	Transmemb	2	4	0.0697332	-0.211969	0.362928	0.5054	0.3260001
sp P10536	Ras-related	3	3	-0.070399	-0.367309	0.2111018	0.505475	0.3262127

sp P0C0A2	Vacuolar pr	2	2	-0.066751	-0.755749	0.6335908	0.5064125	0.326426
sp Q7M0E3	Destrin OS=	10	17	-0.067962	-0.29816	0.168894	0.506425	0.3266387
sp P15390	Sodium cha	3	3	-0.064324	-0.510044	0.3793858	0.5068125	0.3268514
sp Q8R4A1	ERO1-like p	2	2	-0.063353	-0.570312	0.4348624	0.5071625	0.3270641
sp P62483	Voltage-gat	4	6	-0.071629	-0.260948	0.1012234	0.507275	0.3272763
sp Q5XI32	F-actin-cap	6	10	-0.067052	-0.261118	0.1280442	0.508425	0.3274895
sp Q63413	Spliceosom	8	13	0.0691831	-0.032402	0.1667146	0.5088125	0.3277025
sp Q32PX2	Aminoacyl t	5	5	-0.068189	-0.287251	0.1494039	0.5088375	0.3279151
sp Q5HZV9	Protein pho	3	4	-0.065637	-0.370471	0.2523084	0.509	0.3281274
sp P26770	Adenylate c	2	2	-0.073265	-0.502506	0.3617381	0.50915	0.3283394
sp P0C7L8	Protein pho	3	3	0.0610819	-1.097027	1.2029284	0.50925	0.328551
sp Q9JJ50	Hepatocyte	3	6	0.0686101	-0.321857	0.466395	0.5094	0.3287623
sp P13803	Electron tra	10	15	-0.06815	-0.20753	0.078518	0.5096375	0.3289733
sp Q62920	PDZ and LIM	2	2	-0.065546	-0.566579	0.4368457	0.5098625	0.3291841
sp P30835	6-phosphof	3	3	-0.070403	-0.353612	0.2012327	0.509975	0.3293946
sp P63095	Guanine nu	6	10	-0.068056	-0.247169	0.1125594	0.510625	0.3296053
sp Q99M63	WD40 repe	4	7	0.0655064	-0.17854	0.2946411	0.51065	0.3298156
sp Q71UE8	NEDD8 OS=	4	8	0.0680936	-0.183372	0.3222382	0.510675	0.3300254
sp Q5BJS7	Copine-9 O	2	4	0.0649624	-0.361979	0.4684362	0.511075	0.3302352
sp P62907	60S ribosom	7	14	0.0692044	-0.053885	0.1922159	0.51145	0.330445
sp P62898	Cytochrome	6	14	-0.061373	-0.488006	0.3587932	0.5115875	0.3306544
sp Q99N27	Sorting nexi	6	8	-0.068835	-0.292017	0.1429755	0.5115875	0.3308633
sp P62893	60S ribosom	1	2	0.0561131	-0.984573	1.1250028	0.511725	0.3310719
sp P22756	Glutamate i	2	2	0.0476624	-0.753359	0.8221062	0.5118125	0.3312801
sp P31232	Transgelin C	16	45	-0.055818	-1.130976	1.0009119	0.51255	0.3314887
sp Q9QZR8	PDZ domain	2	2	-0.067148	-0.655176	0.4947267	0.5128	0.3316971
sp Q566C7	Diphosphoi	2	3	0.0664181	-0.246159	0.389974	0.512875	0.3319051
sp Q5U2Y1	General tra	1	4	-0.063602	-0.647081	0.5222995	0.5139625	0.3321139
sp P21396	Amine oxid	5	7	0.0685211	-0.153375	0.2839321	0.51435	0.3323227
sp A0JPP8	Coiled-coil c	2	2	-0.062668	-0.458185	0.3394505	0.5147125	0.3325314
sp Q4QR80	28S ribosom	1	2	0.0617776	-0.302714	0.4048873	0.5148	0.3327397
sp P0C0R5	Phosphoino	3	3	-0.064193	-0.491813	0.3432127	0.51485	0.3329475
sp Q4G055	RNA-bindin	2	2	0.0537574	-0.842665	0.9752665	0.5160875	0.3331564
sp P35467	Protein S10	1	2	-0.054756	-0.76691	0.6926629	0.5165375	0.3333652
sp Q5U2Q3	Ester hydro	2	4	0.0639087	-0.33408	0.4714574	0.516575	0.3335737
sp B2RZ78	Vacuolar pr	6	13	0.0699456	-0.093675	0.2454045	0.517025	0.3337821
sp Q6I7R3	Isochorisma	1	4	-0.062395	-0.414564	0.2775268	0.5171375	0.3339903
sp Q62835	Rab GTPase	2	3	-0.062666	-0.400093	0.2777848	0.517625	0.3341985
sp P13638	Sodium/pot	2	9	-0.060459	-0.422829	0.3064959	0.5181375	0.3344068
sp Q9Z1M9	Structural n	6	6	0.0660308	-0.179687	0.3042799	0.518875	0.3346154
sp Q9R0I8	Phosphatid	2	3	-0.058743	-0.359604	0.2567991	0.5193125	0.3348241
sp P13668	Stathmin O	12	26	-0.064058	-0.298642	0.1701535	0.5200125	0.3350332
sp Q3KRD5	Mitochondr	5	7	-0.066311	-0.30961	0.1827957	0.5200375	0.3352417
sp O54772	SWI/SNF-re	1	3	0.0634783	-0.268218	0.3983789	0.5200625	0.3354499
sp Q5XI78	2-oxoglutar	19	34	-0.067947	-0.187459	0.0509836	0.520175	0.3356576
sp P11506	Plasma mer	2	2	0.0594216	-0.549035	0.7029418	0.520225	0.335865
sp Q66H10	F-box only p	2	2	-0.068434	-0.596979	0.4387528	0.5205375	0.3360723

sp P06686  Sodium/pot	16	21	-0.062982	-0.339811	0.2106549	0.5206375	0.3362792
sp P63055  Purkinje cel	3	12	0.0647695	-0.205375	0.3415354	0.52095	0.336486
sp P70645  Bleomycin t	3	3	0.0596407	-0.40253	0.5296026	0.5211625	0.3366926
sp Q62871  Cytoplasmic	6	12	0.0677318	-0.056498	0.1893093	0.521425	0.336899
sp P11517  Hemoglobin	3	17	-0.057211	-0.525788	0.4124912	0.5215	0.337105
sp Q6IMX7  Hsp70-bind	5	6	0.061673	-0.27143	0.4095625	0.52185	0.337311
sp P08289  Alkaline pho	5	8	-0.060762	-0.401209	0.2698455	0.52215	0.3375168
sp P61972  Nuclear tra	3	5	0.065019	-0.101283	0.2356813	0.5225625	0.3377226
sp P32577  Tyrosine-pr	2	2	-0.058998	-0.441449	0.3358495	0.5228875	0.3379284
sp P97834  COP9 signal	3	3	-0.059981	-0.402344	0.2720419	0.5241375	0.338135
sp P63029  Translation	7	16	0.0679694	-0.090487	0.2297693	0.5252875	0.3383425
sp P20595  Guanylate c	2	2	0.0481296	-0.697582	0.787257	0.52585	0.3385502
sp P15146  Microtubule	9	10	0.0661486	-0.116629	0.2508284	0.5259	0.3387574
sp Q6F6B3  Protein TAN	2	2	-0.059597	-0.476957	0.3334585	0.5273625	0.3389658
sp P09626  Potassium-t	2	2	0.056162	-0.302285	0.4003044	0.5281375	0.3391746
sp Q66H86  Olfactomed	3	5	0.0594511	-0.290334	0.4160663	0.52855	0.3393834
sp Q9QUH6  Ras GTPase	2	9	-0.061564	-0.298102	0.1874069	0.5286375	0.3395919
sp Q6AYE2  Endophilin-	2	2	0.0453231	-0.87636	0.963281	0.5286625	0.3397998
sp Q5XIS1  Protein pho	2	2	0.0672582	-0.216822	0.3665234	0.528775	0.3400075
sp P62138  Serine/thre	3	4	0.064209	-0.138138	0.2686208	0.529275	0.3402153
sp Q5U300  Ubiquitin-lil	27	46	0.0663433	-0.074482	0.2041036	0.5294125	0.3404227
sp P27653  C-1-tetrahy	7	11	-0.063804	-0.234097	0.1086382	0.529625	0.34063
sp Q80VJ4  Putative gly	2	2	-0.062872	-0.412712	0.2628061	0.5299875	0.3408371
sp Q9Z2X3  26S proteas	2	2	0.0559229	-0.42593	0.5198543	0.5300875	0.341044
sp P35446  Spondin-1 C	2	4	-0.065591	-0.224946	0.0879478	0.5302625	0.3412505
sp Q63862  Myosin-11 (	18	28	-0.04083	-0.912687	0.8134597	0.5302875	0.3414567
sp P83732  60S ribosom	6	10	0.0658777	-0.079634	0.2108005	0.5305375	0.3416626
sp P13596  Neural cell i	17	25	0.0649494	-0.056774	0.1856423	0.531475	0.3418692
sp P05370  Glucose-6-p	11	19	-0.059932	-0.329048	0.2018093	0.5315375	0.3420754
sp Q63584  Transmemb	4	9	0.0673017	-0.047829	0.1851748	0.5322625	0.3422819
sp A4L9P8  Protein KIA	2	2	-0.048794	-0.530511	0.4438363	0.5327	0.3424884
sp P18421  Proteasome	7	8	-0.060127	-0.240117	0.1207884	0.532825	0.3426946
sp Q4V8C3  Echinoderm	3	8	-0.060171	-0.302554	0.1797446	0.53345	0.342901
sp Q6AXM7  HBS1-like pr	5	6	0.0582342	-0.258984	0.3728016	0.53405	0.3431077
sp Q811U3  ELKS/Rab6-	2	2	-0.047239	-0.479229	0.4004118	0.5340625	0.3433139
sp P46844  Biliverdin re	6	6	-0.060965	-0.27811	0.1565877	0.5341125	0.3435197
sp Q6BBI8  Ubiquitin-fc	2	3	-0.059239	-0.305727	0.1882248	0.5341625	0.3437252
sp P12346  Serotransfe	35	100	-0.059933	-0.340603	0.2198252	0.5341875	0.3439302
sp Q6AXQ0  SUMO-activ	2	3	-0.052618	-0.500497	0.4038629	0.5342875	0.3441349
sp Q5U211  Sorting nexi	2	3	0.0580533	-0.295474	0.4176177	0.5344625	0.3443393
sp Q62639  GTP-binding	3	4	0.0580703	-0.223849	0.3369809	0.534475	0.3445433
sp P02466  Collagen alp	7	16	-0.055175	-0.456689	0.3245301	0.534975	0.3447474
sp Q5U2N3  Membrane-	2	2	-0.061747	-0.251157	0.1325986	0.5353875	0.3449515
sp Q63644  Rho-associa	3	3	-0.059901	-0.400996	0.2899208	0.535675	0.3451555
sp Q5XI55  Peptide-N(4	2	2	-0.057093	-0.352778	0.2465214	0.5358	0.3453592
sp Q68FX0  Isocitrate de	7	14	-0.064973	-0.212032	0.0777366	0.5364375	0.3455631
sp Q4QR75  Exosome co	2	2	-0.038719	-0.558138	0.5100091	0.5364625	0.3457666

sp O08700	Vacuolar pr	3	3	-0.049722	-0.52172	0.4218358	0.5368625	0.3459701
sp P30009	Myristoylat	8	16	-0.060436	-0.262451	0.1501922	0.5372	0.3461736
sp Q62698	Cytoplasmic	4	4	-0.047394	-0.43386	0.3675396	0.5372	0.3463766
sp Q66HA8	Heat shock	18	26	-0.065444	-0.16887	0.0438511	0.5387	0.3465807
sp Q9ES21	Phosphatid	5	6	-0.061693	-0.262283	0.1366904	0.5389625	0.3467848
sp Q9ESW0	DNA damag	10	13	0.0641543	-0.090944	0.2157209	0.53935	0.3469887
sp P70579	Metabotrop	2	2	-0.056438	-0.460005	0.3219999	0.5393875	0.3471923
sp P08082	Clathrin lig	7	14	-0.065089	-0.171699	0.0420507	0.5397375	0.3473959
sp Q5S6T3	2-C-methyl-	1	2	-0.044904	-0.562672	0.4772036	0.5400625	0.3475993
sp O35567	Bifunctiona	12	20	-0.06506	-0.181792	0.0518659	0.5401375	0.3478024
sp P0C0S7	Histone H2/	2	5	0.0583395	-0.165577	0.2798063	0.5406875	0.3480057
sp Q10758	Keratin, typ	2	2	-0.04157	-0.641869	0.5885844	0.54115	0.348209
sp Q9JLA3	UDP-glucos	6	6	0.0530706	-0.275972	0.3748492	0.5412125	0.3484119
sp P04646	60S ribosom	5	9	0.0638795	-0.066764	0.2015219	0.5413625	0.3486146
sp P50408	V-type prot	2	2	-0.041623	-0.547028	0.5067934	0.541525	0.348817
sp Q68FR9	Elongation f	4	11	0.065487	-0.058936	0.1919133	0.541625	0.3490191
sp P18163	Long-chain-	2	2	0.0513023	-0.344697	0.4469673	0.5416875	0.3492209
sp P21708	Mitogen-ac	14	26	0.0633368	-0.103347	0.2334771	0.541925	0.3494225
sp P52591	Nuclear env	2	2	-0.049999	-0.401983	0.3117482	0.541925	0.3496236
sp Q9ES54	Nuclear pro	2	2	-0.036599	-0.75867	0.7118687	0.5424625	0.3498249
sp Q80ZF0	Collagen alp	3	4	-0.052565	-0.598059	0.4653864	0.5431875	0.3500265
sp P23785	Granulins O	2	3	-0.050792	-0.587973	0.4809175	0.543375	0.3502279
sp P16303	Carboxylest	6	8	-0.029584	-0.654467	0.6364628	0.5433875	0.3504289
sp P62749	Hippocalcin	2	4	0.0569695	-0.199078	0.3226959	0.5435375	0.3506297
sp Q9ESR9	ATP-binding	2	2	-0.048981	-0.524457	0.425513	0.5447125	0.3508312
sp P41350	Caveolin-1 (	9	17	-0.056741	-0.316411	0.2100931	0.5450875	0.3510327
sp Q5FWY5	AH receptor	1	2	0.0471569	-0.363599	0.4660255	0.5455	0.3512342
sp Q08834	Alpha-1,6-n	2	2	0.0438475	-0.490181	0.5604578	0.5457	0.3514356
sp P26817	Beta-adren	4	4	-0.047691	-0.669157	0.5652868	0.546025	0.3516368
sp O70173	Phosphatid	2	2	0.0232548	-0.90471	0.9937444	0.54645	0.351838
sp Q4QR83	Stimulated	3	3	0.0475679	-0.448413	0.5192358	0.5464625	0.3520389
sp P62914	60S ribosom	4	5	-0.060354	-0.225845	0.1094153	0.546575	0.3522394
sp P05714	Ras-related	1	2	-0.049334	-0.39127	0.2949888	0.5474625	0.3524405
sp Q6Q0N1	Cytosolic nc	4	7	0.0632936	-0.070333	0.1994134	0.5475125	0.3526412
sp Q78ZR5	Homeodom	2	2	0.0492729	-0.34108	0.4362408	0.5478625	0.3528418
sp Q641Y8	ATP-depend	8	13	-0.063123	-0.232696	0.0970238	0.5480875	0.3530423
sp O88902	Tyrosine-pr	3	3	0.0363995	-0.773079	0.8414012	0.5487625	0.353243
sp Q5I0H9	Protein disu	2	2	0.0496402	-0.403242	0.5185859	0.5488125	0.3534434
sp Q6AY20	Cation-depe	4	8	0.0603949	-0.106922	0.2244397	0.548925	0.3536435
sp Q63525	Nuclear mig	6	7	0.060675	-0.104785	0.2229347	0.548925	0.3538432
sp Q62665	Galectin-8 (	1	2	-0.045681	-0.443275	0.3447061	0.54955	0.3540431
sp Q02874	Core histon	8	18	0.0605224	-0.103606	0.2239944	0.5496625	0.3542427
sp O88267	Acyl-coenzy	3	4	-0.056651	-0.37487	0.2566423	0.5501125	0.3544423
sp Q9JJ54	Heterogene	6	10	0.0643292	-0.116173	0.2649425	0.5505125	0.354642
sp Q8CG45	Aflatoxin B1	5	7	-0.057624	-0.283469	0.1655086	0.550625	0.3548414
sp P62859	40S ribosom	3	7	0.0569474	-0.15768	0.2837058	0.5515375	0.3550413
sp Q80W92	Protein VAC	2	2	0.0258458	-0.878236	0.9691726	0.5515625	0.3552408



sp P07633	Propionyl-C	2	2	-0.030981	-0.81473	0.760032	0.551825	0.3554402
sp P41777	Nucleolar al	2	2	0.0579049	-0.161904	0.2852705	0.552075	0.3556394
sp P62744	AP-2 compl	2	3	-0.037944	-0.5226	0.4366737	0.5524375	0.3558386
sp O88506	STE20/SPS1	8	13	0.0611123	-0.085399	0.2039245	0.552575	0.3560375
sp Q70458	Carnitine O-	6	6	0.0559059	-0.168125	0.2734979	0.5527	0.3562361
sp Q71UF4	Histone-bin	3	4	-0.0523	-0.308091	0.2017616	0.5533	0.356435
sp Q4KMA0	5-azacytidir	2	3	0.0538244	-0.183637	0.2993168	0.5542625	0.3568334
sp P14408	Fumarate h	10	19	-0.062502	-0.181827	0.0620672	0.5547625	0.3570325
sp Q704E8	ATP-binding	2	4	-0.046645	-0.388655	0.2979462	0.554775	0.3572312
sp Q62838	Muscle, ske	2	2	-0.024087	-0.734354	0.7219688	0.555	0.3574298
sp Q3T1J8	UPF0549 pr	2	2	-0.031916	-0.70307	0.6210602	0.55565	0.3576286
sp Q99M64	Phosphatid	2	2	0.048062	-0.331449	0.4371341	0.55645	0.3578278
sp Q62910	Synaptojeni	17	25	0.0627228	-0.07788	0.2112493	0.55655	0.3580268
sp P83868	Prostagland	4	8	0.0619094	-0.069304	0.1986764	0.556825	0.3582256
sp Q6DGG0	Peptidyl-pro	5	8	0.0568767	-0.135556	0.2587535	0.5576375	0.3584248
sp Q3T1J1	Eukaryotic t	6	10	0.061452	-0.119459	0.2445191	0.55765	0.3586236
sp Q9R1T9	Potassium v	3	3	0.0406944	-0.4255	0.5013408	0.55785	0.3588222
sp B0K025	Oligosaccha	1	2	0.025674	-0.705068	0.7739525	0.557875	0.3590205
sp Q60587	Trifunctiona	14	28	-0.064085	-0.162137	0.0305763	0.558575	0.3592191
sp P09414	Nuclear fact	1	2	0.049431	-0.254125	0.3543564	0.558625	0.3594173
sp P14659	Heat shock-	16	24	-0.06068	-0.222619	0.0983408	0.5587	0.3596152
sp Q66HG3	Beta-Ala-Hi	1	2	0.0421242	-0.328744	0.3984667	0.5587875	0.3598128
sp P62628	Dynein light	3	5	-0.046371	-0.350949	0.2524008	0.5590125	0.3600102
sp P32198	Carnitine O-	3	6	0.0506064	-0.231997	0.3358177	0.5597125	0.3602079
sp Q64380	Sarcosine d	2	3	-0.041112	-0.423071	0.3576129	0.5597125	0.3604052
sp Q05764	Beta-adduc	5	7	0.0545151	-0.167903	0.2756979	0.5597375	0.3606022
sp P0CB49	YLP motif-co	2	2	-0.019832	-0.838757	0.7939173	0.5602625	0.3607993
sp P41413	Proprotein c	2	2	-0.0292	-0.664171	0.5974632	0.5603625	0.3609961
sp P04906	Glutathione	7	25	0.0601383	-0.089278	0.2126254	0.560875	0.361193
sp Q66H80	Coatomer s	3	5	0.0574954	-0.1422	0.2597647	0.561025	0.3613897
sp P85973	Purine nucl	6	8	0.0475023	-0.282801	0.3665081	0.561225	0.3615862
sp O88420	Sodium cha	5	5	-0.047634	-0.336004	0.255215	0.5616625	0.3617828
sp P47860	6-phosphof	17	31	-0.059246	-0.203343	0.0877079	0.5622125	0.3619795
sp P97521	Mitochondr	2	2	-0.047817	-0.555592	0.4210479	0.5631625	0.3621767
sp P51886	Lumican OS	16	61	-0.047956	-0.349161	0.2527914	0.5632625	0.3623736
sp Q5PQN2	Bifunctiona	2	2	0.0304489	-0.358481	0.3910755	0.5633	0.3625702
sp P62804	Histone H4	11	61	0.0587435	-0.089386	0.2065661	0.5634875	0.3627666
sp P26051	CD44 antigen	1	2	0.0468437	-0.330228	0.4169369	0.5637	0.3629629
sp Q9Z1B2	Glutathione	2	5	-0.05573	-0.236405	0.1222153	0.5638125	0.3631588
sp Q5SGE0	Leucine-rich	6	9	0.0577889	-0.093798	0.2099472	0.5638625	0.3633544
sp P56571	ES1 protein	11	21	-0.061377	-0.164799	0.0457551	0.5639	0.3635497
sp Q63755	PR domain	2	2	-0.009614	-0.708009	0.716313	0.5652125	0.3637459
sp Q5XI63	Kinesin-like	4	4	-0.018747	-0.449422	0.4443448	0.56535	0.3639418
sp Q5M7A7	CB1 cannab	2	2	-0.016287	-0.724352	0.6764734	0.565425	0.3641374
sp Q63537	Synapsin-2	1	3	0.0387036	-0.366411	0.4451859	0.56555	0.3643328
sp P63245	Guanine nu	10	19	0.0603772	-0.059885	0.1853081	0.5656625	0.3645279
sp P35559	Insulin-degr	2	3	-0.043585	-0.327956	0.2463423	0.565775	0.3647227

sp Q5M9F8  N-terminal	3	3	-0.043747	-0.583076	0.4496981	0.5667125	0.364918
sp Q6AYT3  UPF0027 pr	9	14	0.059546	-0.066092	0.1848471	0.5669875	0.3651133
sp Q9QXU8  Cytoplasmic	5	5	-0.049972	-0.315718	0.2143981	0.5670875	0.3653082
sp P63012  Ras-related	2	2	-0.048812	-0.489173	0.3740353	0.5671375	0.3655028
sp Q62951  Dihydropyri	6	8	-0.049477	-0.298733	0.1968789	0.5675	0.3656974
sp P0C588  Metal trans	3	3	0.0346117	-0.383247	0.4540707	0.5675375	0.3658917
sp Q8VHZ8  Down syndr	2	2	0.0288374	-0.495813	0.5434642	0.567675	0.3660857
sp P62963  Profilin-1 O	9	18	-0.061341	-0.171717	0.0535307	0.5681875	0.3662799
sp Q4L1J4  Membrane-	1	2	0.0372076	-0.386833	0.4498426	0.5682875	0.3664737
sp O70143  SHC-transf	2	2	0.0029052	-0.875583	0.8808456	0.5684125	0.3666674
sp A7VJC2  Heterogene	11	20	0.0625285	-0.04955	0.175571	0.5689	0.3668611
sp Q63797  Proteasome	5	7	0.0579604	-0.09193	0.2164057	0.568925	0.3670544
sp P36953  Afamin OS=	9	16	-0.047152	-0.339811	0.2548149	0.5690875	0.3672476
sp Q10728  Protein pho	2	2	-0.039542	-0.376137	0.31415	0.5695125	0.3674408
sp Q6AYQ3  Phenylalan	2	2	0.0395646	-0.392571	0.466985	0.569525	0.3676336
sp Q4V8F9  Hydroxyste	2	2	-0.031223	-0.581651	0.4978885	0.569625	0.3678261
sp Q09426  2-hydroxyar	3	3	-0.034773	-0.368998	0.317542	0.5701125	0.3680188
sp O35274  Neurabin-2	2	2	-0.052649	-0.296809	0.1922498	0.57015	0.3682111
sp P70541  Translation	1	2	0.0377569	-0.362174	0.4146305	0.570325	0.3684032
sp P50411  Protein pho	1	2	0.0447605	-0.276429	0.3602679	0.5703625	0.368595
sp O89046  Coronin-1B	3	3	0.046592	-0.233996	0.326473	0.57045	0.3687866
sp Q9JHZ4  GRIP1-assoc	4	5	-0.053425	-0.248248	0.1368499	0.570475	0.3689777
sp Q8K4G9  Podocin OS	2	2	-0.038871	-0.58949	0.4953708	0.5708	0.3691688
sp Q8CJ99  Sodium cha	2	2	-0.031134	-0.528108	0.4728907	0.5709875	0.3693598
sp P18596  Sarcoplasm	1	3	-0.044583	-0.315975	0.2392043	0.5711375	0.3695505
sp P36876  Serine/thre	3	3	0.0171808	-0.711745	0.7527508	0.5715875	0.3697413
sp P58365  Cadherin-2	3	5	0.0512827	-0.16573	0.2738235	0.57165	0.3699318
sp P27321  Calpastatin	5	5	-0.05243	-0.295368	0.1823108	0.572475	0.3701227
sp Q9Z2G8  Nucleosom	5	5	-0.032292	-0.412971	0.3740716	0.5726375	0.3703133
sp Q8K3X0  Protein CAS	2	2	-0.047973	-0.773065	0.5742712	0.57265	0.3705037
sp Q63505  General tra	4	5	-0.051655	-0.373255	0.2517324	0.5726625	0.3706937
sp O55171  Acyl-coenzy	4	7	0.0432558	-0.242034	0.3173209	0.5728	0.3708835
sp P04897  Guanine nu	7	12	0.0569046	-0.086822	0.2015292	0.57325	0.3710733
sp Q5M7V8  Thyroid hor	5	5	0.0474143	-0.220417	0.3300773	0.574175	0.3712636
sp P47198  60S ribosom	4	10	0.0585219	-0.079643	0.1937357	0.5743	0.3714538
sp P38444  Activin rece	2	4	0.0394593	-0.336778	0.4332175	0.5743625	0.3716436
sp A2RRU3  U3 small nu	2	2	-0.015419	-0.475243	0.482363	0.574675	0.3718333
sp P19527  Neurofilam	25	100	-0.064567	-0.133344	0.0032471	0.574925	0.3720229
sp P97576  GrpE protei	5	7	-0.046096	-0.314271	0.2154032	0.57505	0.3722123
sp O35550  Rab GTPase	2	2	-0.033243	-0.522312	0.4238942	0.5753375	0.3724016
sp Q63531  Ribosomal p	2	3	-0.024736	-0.723721	0.6633767	0.5754375	0.3725907
sp Q8VHK0  Acyl-coenzy	2	3	0.045051	-0.215806	0.3205581	0.575675	0.3727796
sp Q9EQV9  Carboxypep	1	2	-0.034163	-0.511303	0.4279488	0.5759625	0.3729684
sp P37397  Calponin-3	8	16	0.0568116	-0.108281	0.2342027	0.575975	0.3731569
sp Q6AXU3  Interferon-s	2	2	0.039873	-0.338989	0.3949019	0.5765	0.3733456
sp B0BNF1  Septin-8 OS	3	5	0.051129	-0.147572	0.2560266	0.5766875	0.373534
sp Q9WTZ3  Membrane-	2	4	0.0524086	-0.138589	0.2550825	0.5768375	0.3737223

sp O35413  Sorbin and	5	6	-0.016308	-0.651109	0.6140626	0.5770875	0.3739104
sp P41542  General ves	11	15	0.0535708	-0.154578	0.2719404	0.57715	0.3740982
sp P08033  Gap junctio	1	3	0.0366467	-0.392812	0.4550911	0.5773	0.3742858
sp Q6DGG1  Abhydrolase	2	2	0.0228211	-0.48774	0.5251294	0.577675	0.3744735
sp Q5HZA6  Prolyl endo	7	11	-0.053112	-0.225133	0.1215373	0.577925	0.374661
sp Q6PEC0  Bis(5'-nucle	3	3	0.0277154	-0.429146	0.4647081	0.5780375	0.3748483
sp Q5XHZ0  Heat shock	5	6	0.0539857	-0.125503	0.2260048	0.578675	0.3750358
sp Q8CG09  Multidrug r	2	2	0.0218859	-0.688425	0.782924	0.5789875	0.3752232
sp O35828  Coronin-7 (l	3	3	0.0394319	-0.273404	0.3581341	0.57905	0.3754104
sp P61265  Syntaxin-1B	4	6	0.0511959	-0.147821	0.2442969	0.5791125	0.3755973
sp O70593  Small glutar	2	5	-0.044358	-0.303326	0.2118646	0.5792	0.3757839
sp P63090  Pleiotrophin	3	4	0.0557062	-0.106539	0.2255509	0.5793375	0.3759703
sp Q9R0T4  Cadherin-1	6	7	-0.054783	-0.216588	0.1003007	0.5797625	0.3761568
sp Q3B7D1  Ubiquitin-co	1	2	0.0083789	-0.752113	0.7488054	0.580175	0.3763432
sp Q62764  DNA-bindin	2	4	-0.036586	-0.388247	0.3113939	0.5802125	0.3765294
sp Q9JJ79  Cytoplasmic	3	3	-0.037309	-0.391467	0.3168804	0.5804375	0.3767155
sp Q99J86  Attractin OS	2	2	-0.027521	-0.636882	0.5654077	0.580675	0.3769014
sp Q63544  Gamma-syn	10	35	0.0513546	-0.161767	0.2677807	0.58125	0.3770875
sp O35831  Cyclin-depe	2	2	0.015076	-0.533757	0.5635322	0.5816125	0.3772736
sp P50123  Glutamyl ar	2	2	0.0106035	-0.670387	0.6706293	0.5816375	0.3774594
sp P62815  V-type prot	8	16	-0.058374	-0.175417	0.0604235	0.58205	0.3776452
sp Q9QWN  Spectrin bet	14	28	0.0610352	-0.036351	0.1582043	0.582075	0.3778307
sp Q7TP36  Protein Shr	2	2	0.0209434	-0.480396	0.5362067	0.58255	0.3780163
sp P07335  Creatine kir	20	50	-0.054063	-0.215836	0.1102323	0.5825875	0.3782016
sp O55081  Retinoblast	2	2	0.0239867	-0.470912	0.5280224	0.5830125	0.378387
sp Q63663  Interferon-i	3	4	-0.033575	-0.439931	0.3646691	0.5834625	0.3785724
sp P50554  4-aminobut	9	16	0.0524449	-0.133648	0.2360641	0.58475	0.3787586
sp P29315  Ribonucleas	10	18	0.0600399	-0.0448	0.1700996	0.584825	0.3789446
sp Q3B7L1  Pleckstrin h	1	2	-0.05104	-0.216403	0.1251603	0.58485	0.3791303
sp Q5U312  Ankycorbin	4	4	0.0363475	-0.313793	0.3736384	0.5850875	0.3793158
sp Q5M827  Pirin OS=Ra	3	3	0.0313588	-0.38616	0.4487055	0.5854	0.3795013
sp B2RYT9  Translation	1	2	-0.041726	-0.352575	0.2582797	0.585875	0.3796869
sp Q62688  Inactive pho	1	3	-0.039092	-0.345668	0.2638898	0.5863875	0.3798726
sp P11348  Dihydropter	8	13	-0.054154	-0.212883	0.0988184	0.58675	0.3802436
sp Q6TRW4  Sister chron	2	3	0.0388115	-0.255975	0.3311639	0.5868375	0.3804287
sp Q6UPE1  Electron tra	3	3	0.0437606	-0.248869	0.3259074	0.587175	0.3806138
sp Q2Q0I9  Fibronectin	3	3	0.0201497	-0.474359	0.5093317	0.587975	0.3807993
sp Q5FVK6  Coiled-coil a	2	2	0.0282303	-0.493693	0.6031789	0.5880125	0.3809845
sp P07483  Fatty acid-b	4	7	-0.051469	-0.228503	0.1218107	0.588525	0.3811698
sp Q4QQV3  Protein FAM	3	3	0.0360032	-0.321711	0.3879333	0.5886375	0.3813548
sp Q6DTM3  Jouberin OS	2	2	0.0101118	-0.580791	0.594492	0.5890375	0.3815399
sp Q68FP5  Snurportin-	2	3	0.0214411	-0.396182	0.4326417	0.589825	0.3817254
sp O88763  Phosphatid	2	2	0.019517	-0.707885	0.8022987	0.5900375	0.3819107
sp Q5BJS0  Putative AT	4	4	-0.042814	-0.290721	0.2075646	0.5908625	0.3820965
sp P23711  Heme oxyge	2	4	-0.041853	-0.28568	0.2160066	0.59145	0.3822824
sp O88658  Kinesin-like	5	5	-0.047674	-0.271852	0.1639456	0.5918375	0.3824683
sp Q63046  Runt-relate	1	2	-0.043859	-0.297527	0.2052264	0.59185	0.382654

sp Q32PX7  Far upstream	3	3	-0.027873	-0.409999	0.3718656	0.59225	0.3828396
sp Q8VIL3  ZW10 intera	3	3	0.0271213	-0.321708	0.3762245	0.592525	0.3830252
sp Q6MG61 Chloride int	3	4	0.037684	-0.24245	0.3281717	0.592675	0.3832105
sp B0BN18  Prefoldin su	2	2	-0.03793	-0.360779	0.2590865	0.592925	0.3833958
sp Q75Q39 Mitochondr	6	12	0.0490384	-0.143371	0.2477414	0.5933	0.3835811
sp P09527  Ras-related	7	12	-0.050863	-0.231703	0.1254937	0.5933875	0.3839507
sp P27274  CD59 glyco	5	12	-0.03648	-0.348483	0.2668185	0.5935375	0.3841352
sp Q9Z1H9  Protein kin	6	15	-0.046976	-0.272053	0.1686631	0.593725	0.3843195
sp Q924S5  Lon proteas	5	7	-0.042386	-0.27424	0.1919799	0.593725	0.3845035
sp P51583  Multifuncti	4	4	-0.029123	-0.393413	0.3646458	0.594075	0.3846875
sp P62836  Ras-related	3	3	0.0437096	-0.296954	0.3747379	0.594175	0.3848713
sp P19234  NADH dehy	3	3	0.0201337	-0.462271	0.5173814	0.594475	0.385055
sp Q9JIH7  Serine/thre	4	4	-0.038287	-0.293953	0.2329689	0.59515	0.3854226
sp Q9ES40  PRA1 family	1	3	-0.031825	-0.323321	0.2854926	0.595675	0.3856064
sp Q63270  Cytoplasmic	5	5	-0.040144	-0.34956	0.2505537	0.5958	0.38579
sp P21531  60S ribosom	16	30	0.0594812	-0.034477	0.1531373	0.5959125	0.3859733
sp P68255  14-3-3 prot	10	15	-0.048753	-0.24605	0.1548031	0.596	0.3861564
sp P63004  Platelet-act	7	12	0.051495	-0.113829	0.2273473	0.596025	0.3863393
sp Q7TPJ0  Translocon-	2	4	0.0391417	-0.225939	0.3090561	0.5965625	0.3865222
sp Q9Z2X5  Homer prot	1	3	0.0232428	-0.504788	0.5205593	0.5966875	0.386705
sp P20650  Protein pho	2	3	0.0251143	-0.368335	0.4109111	0.597275	0.3870701
sp Q9JI92  Syntenin-1	2	2	-0.010876	-0.626779	0.6127936	0.597325	0.3872525
sp Q6P6Q2  Keratin, typ	4	5	0.0428722	-0.200316	0.2873919	0.5975	0.3876165
sp P63057  Noelin-3 OS	2	2	0.0070629	-0.549159	0.5503759	0.597925	0.3877984
sp Q9ERC1  Myosin-XVI	3	3	-0.02132	-0.530775	0.4912346	0.5983	0.3879804
sp Q5PPJ9  Endophilin-	3	4	-0.031633	-0.346771	0.2903405	0.59845	0.3881621
sp Q498E0  Thioredoxin	2	3	0.0147533	-0.457436	0.4816454	0.5997625	0.3883447
sp P02564  Myosin-7 O	4	5	0.010883	-0.486732	0.5192263	0.60055	0.38871
sp P62994  Growth fact	3	5	0.041171	-0.202167	0.2918104	0.6024375	0.3892597
sp Q9Z1N4  3'(2'),5'-bis	3	3	-0.033578	-0.326219	0.2607628	0.6033125	0.3896262
sp P70584  Short/bran	5	5	0.0357127	-0.233849	0.3135172	0.603575	0.3898095
sp Q8R431  Monoglycer	6	13	-0.053371	-0.208626	0.0934518	0.6036625	0.3899926
sp Q3MJK5  Cyclin-depe	3	3	-0.02352	-0.486121	0.4219281	0.6036625	0.3901754
sp O88664  Serine/thre	1	2	0.0060362	-0.444644	0.4323773	0.60435	0.3903584
sp Q6AYS6  Sorting nexi	2	2	-0.003733	-0.527158	0.5253278	0.604525	0.3905413
sp Q68FW9  COP9 signal	4	4	-0.01522	-0.431446	0.4056084	0.6052	0.3907245
sp Q9JHL4  Drebrin-like	3	4	-0.009244	-0.515736	0.5101513	0.60545	0.3910902
sp Q66HF1  NADH-ubiqu	14	21	0.0532084	-0.075734	0.1779247	0.6055	0.3912727
sp Q5HZY2  GTP-binding	2	3	-0.022262	-0.386068	0.3449071	0.6056375	0.391455
sp P04041  Glutathione	3	6	-0.028787	-0.33705	0.2898873	0.606075	0.3918191
sp P13264  Glutaminas	10	13	0.047405	-0.128039	0.2319502	0.6062	0.392001
sp Q63617  Hypoxia up-	12	17	-0.050153	-0.212258	0.1102803	0.607	0.392365
sp Q7TSA0  Mitochondr	2	4	-0.023959	-0.416802	0.3504725	0.6071	0.3925467
sp Q9JHW0  Proteasome	3	3	0.0365916	-0.224219	0.3007314	0.60755	0.3927285
sp P24473  Glutathione	3	3	0.0295121	-0.28965	0.3455508	0.60765	0.39291
sp P37996  ADP-ribosyl	2	5	0.0196764	-0.359746	0.4045333	0.60805	0.3930915
sp Q561S0  NADH dehy	5	6	0.0454231	-0.143385	0.2325036	0.6083125	0.393273

sp P23606	Protein-glut	2	2	-0.028377	-0.418665	0.3699049	0.6084625	0.3934543
sp Q4FZT9	26S proteas	6	9	-0.04069	-0.244169	0.1773926	0.6089875	0.3938166
sp O88553	Zinc finger p	2	2	-0.021261	-0.422694	0.4052131	0.6091875	0.3939975
sp P19332	Microtubule	9	17	0.0570578	-0.04824	0.167533	0.610225	0.3945403
sp O08839	Myc box-de	5	5	-0.034573	-0.335675	0.2547602	0.610525	0.3947212
sp P05765	40S ribosom	4	8	0.0501971	-0.099886	0.1938931	0.6107125	0.3949019
sp P39052	Dynamin-2	5	5	0.0368886	-0.20746	0.2877004	0.6108875	0.3950825
sp Q8VBU2	Protein NDF	4	7	-0.021059	-0.368193	0.3384048	0.611025	0.3952629
sp P18395	Cold shock c	4	4	0.0421653	-0.161437	0.2540618	0.611075	0.395443
sp P02688	Myelin basi	16	100	-0.038831	-0.283947	0.2019781	0.6114	0.3956232
sp Q63189	Bone marro	2	3	0.0096964	-0.468537	0.5059387	0.611775	0.3958033
sp P11762	Galectin-1 C	11	34	0.0559046	-0.047475	0.158444	0.6117875	0.3959831
sp O08678	Serine/thre	1	2	-0.013339	-0.431965	0.4081495	0.612125	0.3961629
sp P69682	Adaptin ear	1	2	-0.025382	-0.362763	0.3145052	0.61215	0.3963425
sp P62076	Mitochondr	2	4	-0.017632	-0.417291	0.3556349	0.612425	0.3965219
sp Q4AEF8	Coatomer s	5	9	0.0428412	-0.164267	0.2436161	0.61275	0.3967014
sp Q9Z0U4	Gamma-am	1	4	-0.035909	-0.291993	0.2230025	0.6130375	0.3968808
sp P50753	Troponin T,	1	2	-0.036969	-0.296802	0.213734	0.613075	0.3970599
sp P97557	Potassium v	2	2	-0.018244	-0.45085	0.4101698	0.6130875	0.3972387
sp Q9QZ81	Protein argo	3	5	0.0298948	-0.271813	0.334102	0.613375	0.3974175
sp Q5FWT1	Protein FAM	1	3	-0.022551	-0.369303	0.3231953	0.613675	0.3975962
sp O88277	Protocadhe	7	47	-0.049362	-0.189799	0.0946386	0.6137625	0.3977747
sp P70615	Lamin-B1 O	11	15	0.0495483	-0.102504	0.2044693	0.6139875	0.3979531
sp P09034	Argininosuc	2	3	0.0339727	-0.22324	0.2940722	0.6149875	0.3983106
sp P11915	Non-specific	8	13	-0.016961	-0.531597	0.479858	0.61515	0.3984891
sp Q3B7U9	Peptidyl-pro	2	2	-0.005144	-0.471218	0.4483837	0.61555	0.3988455
sp Q794E4	Heterogene	2	2	0.0004202	-0.515604	0.5097644	0.6155625	0.3990235
sp P16638	ATP-citrate	37	65	-0.055302	-0.163129	0.0499421	0.6156125	0.3992011
sp P48004	Proteasome	7	9	0.0505303	-0.084368	0.1901736	0.6157875	0.3995559
sp Q9ESM2	Hyaluronan	3	4	-0.005705	-0.76911	0.7233032	0.6160375	0.3999097
sp P0CC10	Leucine-rich	2	2	-0.006193	-0.467901	0.4678365	0.6160375	0.4000863
sp P33124	Long-chain-	4	4	-0.027042	-0.326085	0.2716111	0.61625	0.4002628
sp P13084	Nucleophos	7	9	0.0491085	-0.091649	0.1869712	0.6164875	0.4004391
sp Q5PQN1	Probable E3	2	2	-0.007087	-0.511237	0.4815789	0.616525	0.4006153
sp Q5XIF3	NADH dehy	5	7	-0.040575	-0.233782	0.1658604	0.6167625	0.4007913
sp Q6PEC1	Tubulin-spe	9	11	0.0533654	-0.07601	0.1914574	0.61685	0.4009671
sp Q62671	E3 ubiquitin	3	3	-0.003714	-0.51325	0.516166	0.616875	0.4011426
sp Q6AY97	Coiled-coil c	3	3	0.0269677	-0.371177	0.4471397	0.6174875	0.4014934
sp Q5U2R7	LDLR chape	2	2	0.017544	-0.416642	0.4663687	0.6174875	0.4016685
sp P29994	Inositol 1,4,	4	4	-0.019312	-0.353569	0.3177475	0.6176875	0.4018436
sp Q66H76	Paxillin OS=	2	2	0.004725	-0.487226	0.5127679	0.61785	0.4020185
sp P19643	Amine oxid	13	26	-0.059939	-0.144565	0.0209428	0.6181125	0.4021933
sp P30349	Leukotriene	4	5	0.0204165	-0.308426	0.3530998	0.618575	0.4023683
sp P10760	Adenosylho	11	24	-0.045665	-0.220798	0.1307368	0.619025	0.4025433
sp Q64119	Myosin ligh	8	20	-0.038891	-0.25825	0.1815245	0.6193	0.4028928
sp P84817	Mitochondr	2	2	0.002332	-0.507681	0.4932246	0.6193875	0.4030673
sp Q6P730	Disabled ho	2	4	0.0385223	-0.197119	0.2804471	0.620425	0.4039388

sp B0BNE5  S-formylglu	3	5	-0.015683	-0.431056	0.4024596	0.620425	0.4037649
sp P97609  Protein hair	2	2	-0.006826	-0.453424	0.437327	0.6205375	0.4041125
sp B2RYJ4  L-aminoadi	3	3	0.0066665	-0.479684	0.512467	0.62065	0.404286
sp O70196  Prolyl endo	3	6	0.0224806	-0.29584	0.3633812	0.620875	0.4044594
sp Q6AXM5  Choline/eth	1	3	-0.01356	-0.407806	0.3690602	0.6211125	0.4046327
sp P50904  Ras GTPase	4	4	-0.033986	-0.326839	0.2405633	0.621675	0.4051518
sp Q7TSP2  Kinesin-like	4	4	0.0232136	-0.386053	0.4545779	0.621825	0.405497
sp P25030  Keratin, typ	2	2	-0.021596	-0.393387	0.3527774	0.6218375	0.4056693
sp Q5XII0 E Mammaliar	6	13	-0.05112	-0.183214	0.0833991	0.6221375	0.4058415
sp P85971  6-phosphog	3	3	0.0350981	-0.217448	0.2957854	0.6223125	0.4061853
sp Q9EST6  Acidic leucil	4	4	-0.028925	-0.346054	0.2597902	0.6229	0.4067003
sp P62243  40S ribosom	8	17	0.0541717	-0.058103	0.1702614	0.6232125	0.4072133
sp Q9Z270  Vesicle-assc	5	8	0.0455829	-0.115709	0.2127296	0.6233625	0.4073841
sp P48679  Prelamin-A	37	100	0.0435099	-0.143095	0.2306059	0.6233875	0.4075546
sp Q8R5I7  Myocardin	2	2	0.0382083	-0.214809	0.2936209	0.6235375	0.4077249
sp P38062  Methionine	1	2	-0.030793	-0.275801	0.2297094	0.6236125	0.407895
sp Q66H44  Transmemb	1	4	-0.036074	-0.399786	0.2930992	0.6241875	0.4082351
sp P05982  NAD(P)H de	3	5	0.0177719	-0.337107	0.3553819	0.624625	0.4084052
sp P86410  Ral GTPase	3	5	0.0259084	-0.272106	0.3323654	0.6250875	0.4085754
sp Q9QYV8  DNA polym	2	3	-0.015721	-0.388525	0.3474199	0.6252125	0.4089152
sp B5DEH2  Erlin-2 OS=f	3	4	0.0351004	-0.202918	0.2731645	0.6256	0.4090851
sp Q924N5  Long-chain-	3	3	0.0185529	-0.2836	0.2911741	0.62615	0.4094246
sp P25886  60S ribosom	5	14	0.0493181	-0.112689	0.2208798	0.6262125	0.4095941
sp O70277  Tripartite m	3	4	0.0297543	-0.23831	0.3139045	0.6262125	0.4097633
sp Q05695  Neural cell	5	8	-0.036974	-0.240527	0.1665371	0.626925	0.4099328
sp Q9JHY2  Sideroflexin	7	11	0.0440976	-0.121972	0.2043268	0.627075	0.4102713
sp Q9JIR4 F Regulating	2	2	0.0084387	-0.432174	0.4604546	0.6272	0.4104402
sp O88994  MOSC domi	2	3	-0.02356	-0.365097	0.3215872	0.6275125	0.4106092
sp P45953  Very long-cl	6	8	0.0340962	-0.213022	0.2726245	0.6276625	0.410778
sp P51650  Succinate-s	3	3	0.0137726	-0.375638	0.4022591	0.62785	0.4109466
sp P12847  Myosin-3 O	5	8	-0.019245	-0.388473	0.3562942	0.6284875	0.4111155
sp P12711  Alcohol deh	2	3	-0.027861	-0.278239	0.2390443	0.62855	0.4112842
sp Q5M7U6  Actin-relate	6	9	-0.040103	-0.226408	0.1516716	0.6286	0.4114527
sp P31399  ATP synthas	10	23	-0.051036	-0.188586	0.0841588	0.6288	0.411621
sp P38652  Phosphoglu	10	13	0.0344008	-0.195187	0.240786	0.6291	0.4117893
sp P07632  Superoxide	10	38	-0.043388	-0.212044	0.1313684	0.6295	0.4121257
sp Q5I0G4  Glycyl-tRNA	13	19	-0.048145	-0.181918	0.0904983	0.6295	0.4122935
sp Q63358  Myosin-IXb	5	6	-0.03139	-0.301418	0.2293488	0.62985	0.4124614
sp P14841  Cystatin-C C	3	6	0.032732	-0.210584	0.2776688	0.6299875	0.4127965
sp Q9JK71  Membrane-	4	4	0.0415077	-0.177021	0.2683456	0.6299875	0.4129637
sp Q9EPH2  MARCKS-re	4	12	0.0308393	-0.232107	0.300084	0.630175	0.4131307
sp P04797  Glyceraldeh	22	78	0.0452095	-0.11313	0.2116703	0.6304875	0.4132978
sp Q9JIL8 F DNA repair	1	2	-0.002438	-0.34433	0.3700311	0.6308125	0.4134649
sp P15791  Calcium/cal	1	2	0.0325402	-0.205853	0.2685318	0.630875	0.4136317
sp Q7TPB1  T-complex p	17	24	0.0520283	-0.066584	0.1692651	0.631475	0.4137988
sp O35077  Glycerol-3-p	7	15	-0.039163	-0.231204	0.1561809	0.6316125	0.4139657
sp Q01129  Decorin OS-	16	48	-0.038334	-0.241772	0.1647328	0.6317625	0.4141325

sp P21533	60S ribosom	10	19	0.0554377	-0.044208	0.1584065	0.63195	0.4142991
sp Q5U318	Astrocytic p	7	19	-0.024789	-0.301811	0.2576845	0.6340125	0.4147993
sp Q9QZA2	Programme	12	19	-0.05047	-0.169264	0.0739912	0.6343375	0.4151338
sp Q63186	Translation	4	4	-0.03104	-0.269177	0.2101754	0.6346125	0.4154678
sp P0C5H9	Mesenceph	4	4	-0.006393	-0.380801	0.3731498	0.6347125	0.4156345
sp Q62812	Myosin-9 O	50	87	-0.045945	-0.193666	0.1097822	0.6348625	0.4158011
sp Q9Z0Y8	Voltage-dep	2	2	-0.006933	-0.545623	0.5094053	0.6348625	0.4159675
sp Q497B3	Keratinocyt	1	2	0.0171295	-0.33136	0.3706838	0.63545	0.416134
sp Q4KMA2	UV excision	9	16	0.052752	-0.056596	0.161328	0.6357375	0.4167981
sp Q9Z0W7	Chloride int	3	7	0.0342062	-0.202342	0.2755029	0.6358	0.4169637
sp P62161	Calmodulin	9	32	0.0495901	-0.079436	0.1792311	0.6370625	0.4174605
sp Q56R16	Importin su	2	2	-0.017486	-0.383064	0.339858	0.637425	0.4176262
sp P60901	Proteasome	5	7	-0.041171	-0.225655	0.1387361	0.637875	0.4177921
sp P62755	40S ribosom	13	23	0.0556089	-0.030261	0.1436181	0.6381	0.4179579
sp Q4G061	Eukaryotic t	4	8	-0.037204	-0.237613	0.1631786	0.6382375	0.4181235
sp Q62968	Sodium cha	3	3	-0.010956	-0.314568	0.3280295	0.6388	0.4182893
sp P15650	Long-chain	9	13	-0.052831	-0.154136	0.0529039	0.6391875	0.4184551
sp P70483	Striatin OS=	3	5	0.018449	-0.289727	0.3249124	0.640025	0.418787
sp O35244	Peroxiredox	8	15	-0.033764	-0.248819	0.1870348	0.64045	0.4189531
sp Q6AYA1	H/ACA riboi	3	3	-0.028239	-0.28044	0.2337447	0.6404625	0.4191189
sp Q9ER24	Ataxin-10 O	3	4	0.0154911	-0.304493	0.3232855	0.640575	0.4192845
sp P39069	Adenylate k	6	13	-0.029324	-0.266345	0.2072041	0.6409125	0.4194501
sp P21575	Dynamin-1	14	25	-0.048693	-0.176545	0.0780924	0.64155	0.4197815
sp P52631	Signal trans	7	9	-0.030922	-0.231343	0.1828141	0.6416	0.4199469
sp Q0VGK2	Tetratricope	1	3	0.0126645	-0.321004	0.3499277	0.641825	0.4201122
sp P28073	Proteasome	3	10	0.0430534	-0.114588	0.2012436	0.6420375	0.4204424
sp Q9QVC8	Peptidyl-pro	8	14	-0.042204	-0.204542	0.1269918	0.64205	0.4206072
sp P69897	Tubulin bet	4	12	-0.002341	-0.416431	0.4025649	0.6423875	0.4207719
sp Q4V7F2	Cysteine-ric	3	6	-0.027754	-0.253289	0.2066188	0.6437	0.4209374
sp Q9WTT6	Guanine de	11	24	-0.030393	-0.244364	0.178488	0.6439	0.4211028
sp P08934	Kininogen-1	2	5	0.0261559	-0.229655	0.2873871	0.6442125	0.4212682
sp Q78P75	Dynein light	1	3	-0.001223	-0.381066	0.3737614	0.64455	0.4214336
sp O88794	Pyridoxine-	2	3	0.027228	-0.219337	0.2644649	0.6448375	0.421764
sp O88637	Ethanolamin	1	3	-0.022286	-0.281543	0.253265	0.6449125	0.4219289
sp P06866	Haptoglobir	8	13	-0.007397	-0.367757	0.3441087	0.6449375	0.4220936
sp P97534	Peptidyl-pro	2	5	0.0285795	-0.225463	0.2819068	0.6457125	0.4229151
sp Q7TP98	Interleukin	3	5	-0.026475	-0.262047	0.2123482	0.646	0.4232428
sp Q64057	Alpha-amin	4	5	0.0029379	-0.401686	0.4061388	0.6467125	0.4237341
sp P07943	Aldose redu	20	47	0.0283371	-0.209144	0.2705887	0.6473	0.4240613
sp Q6AXT5	Ras-related	2	3	0.0317948	-0.223618	0.2996959	0.6477875	0.4243884
sp O88761	26S proteas	6	7	-0.03297	-0.250669	0.1722439	0.6478875	0.4245516
sp P41499	Tyrosine-pr	6	9	0.0316895	-0.177455	0.236217	0.64795	0.4247147
sp P52873	Pyruvate ca	11	13	0.0446119	-0.090605	0.1871096	0.6482	0.4248777
sp Q2LAP6	Testin OS=R	1	2	0.0064792	-0.337544	0.3618569	0.650175	0.4253687
sp O35303	Dynamin-1-	14	21	-0.045272	-0.183258	0.0927409	0.6504125	0.4255323
sp B2RYW9	Fumaryl ace	2	4	-0.020381	-0.296014	0.2531371	0.6510125	0.4256962
sp Q63716	Peroxiredox	10	25	0.0307925	-0.194998	0.2525445	0.6514	0.4258601

sp Q91Z79	Liprin-alpha	5	5	0.0255526	-0.206399	0.2572275	0.651425	0.4260238
sp P45592	Cofilin-1 OS	13	30	0.037812	-0.141739	0.2209194	0.651875	0.4263509
sp Q64640	Adenosine l	6	11	-0.032928	-0.237691	0.173412	0.6523	0.4265145
sp P35745	Acylphosph	2	3	0.0073114	-0.380135	0.3991003	0.6524625	0.426678
sp P24155	Thimet olig	6	7	-0.029421	-0.239557	0.1871422	0.6529	0.4271674
sp Q64537	Calpain sma	2	3	-0.017578	-0.399204	0.346773	0.6530875	0.4273304
sp Q62640	Glutamate i	2	2	0.0095894	-0.335075	0.3560155	0.6540625	0.4278193
sp Q62632	Follistatin-r	3	3	0.0025947	-0.382375	0.3905795	0.6547625	0.4279826
sp Q4KLH5	Arf-GAP doi	2	3	0.0253362	-0.227687	0.2833216	0.6550125	0.4283087
sp Q8VI04	L-asparagin	10	19	-0.039382	-0.200853	0.1326654	0.65685	0.4286355
sp P27881	Hexokinase	4	4	0.0213008	-0.234617	0.2862954	0.6569	0.4289625
sp Q63425	Periaxin OS	48	100	0.0338734	-0.161861	0.2272571	0.657075	0.4291258
sp Q5FVI6	V-type prot	5	6	0.0320401	-0.206623	0.2847239	0.6571125	0.4294517
sp P85125	Polymerase	15	26	-0.033234	-0.233084	0.1658817	0.6571125	0.4292889
sp Q9EQP5	Prolargin O	21	57	-0.004685	-0.350998	0.349621	0.658	0.4297777
sp P97685	Neurofascir	4	4	0.0125827	-0.311226	0.3418301	0.658275	0.4299407
sp P25235	Dolichyl-dip	6	11	0.0422637	-0.099996	0.1835871	0.6590375	0.4302668
sp Q4KLH4	Paraspeckle	2	2	0.0087049	-0.334188	0.3641401	0.65905	0.4304296
sp Q5XIF6	Tubulin alpl	4	10	-0.032168	-0.225238	0.1630482	0.6605125	0.4310821
sp Q63377	Sodium/pot	6	10	-0.035033	-0.216565	0.1473013	0.6610625	0.4314078
sp P62268	40S ribosom	8	14	0.0498609	-0.058477	0.1598808	0.6617125	0.4317337
sp P60123	RuvB-like 1	4	8	0.0314752	-0.166012	0.2274134	0.662075	0.4318966
sp Q5I0D7	Xaa-Pro dip	4	5	0.0069797	-0.316291	0.313053	0.6634375	0.4325483
sp P12007	Isovaleryl-C	7	9	-0.039886	-0.186275	0.108656	0.6638875	0.4327113
sp O35142	Coatomer s	4	4	-0.015535	-0.315393	0.2971658	0.664675	0.4328747
sp A2RUW1	Toll-interact	5	7	0.026854	-0.187746	0.2410685	0.6648625	0.4330379
sp Q66HB6	Cancer-assc	3	3	0.0089685	-0.308971	0.3108908	0.6656	0.4333644
sp Q8VHK2	Caskin-1 OS	4	5	0.0193949	-0.223844	0.2721388	0.665625	0.4335275
sp Q5MPA9	Serine/thre	3	4	0.0093088	-0.2875	0.3158805	0.665825	0.4338533
sp Q9Z1I6	Rho guaninc	2	2	0.0012575	-0.343479	0.3446897	0.6664625	0.4340163
sp Q63028	Alpha-addu	14	24	0.0495022	-0.050097	0.1500708	0.666475	0.4341791
sp Q9JLZ1	Glutaredoxi	12	21	0.0351435	-0.154612	0.2216858	0.6672875	0.4343422
sp P38659	Protein disu	12	20	-0.04451	-0.16183	0.0779038	0.668225	0.4345058
sp P35571	Glycerol-3-p	5	6	-0.015407	-0.291185	0.2585911	0.668325	0.4346692
sp P23565	Alpha-interi	18	39	-0.017188	-0.270632	0.2510779	0.668425	0.4349954
sp P52303	AP-1 compl	2	3	-0.011838	-0.316831	0.2794623	0.66845	0.4351582
sp P30713	Glutathione	2	4	0.0056756	-0.298476	0.3172765	0.6685125	0.4353208
sp Q9WTY2	GTP-binding	2	4	-0.01856	-0.256455	0.2284864	0.66855	0.4354832
sp O08590	Membrane	5	7	-0.021157	-0.27992	0.2412167	0.6686375	0.4356455
sp Q6VV72	Eukaryotic t	5	6	-0.018768	-0.25778	0.2267665	0.6689625	0.4358077
sp Q5PQX1	Torsin-1A-ir	4	4	0.0130966	-0.256388	0.2729293	0.6691	0.4359698
sp P35704	Peroxioredox	7	16	-0.043957	-0.169797	0.0864324	0.66915	0.4361318
sp P08503	Medium-ch	5	6	0.0116196	-0.304871	0.357434	0.6695375	0.4362937
sp P30904	Macrophag	2	10	-0.038175	-0.19993	0.118477	0.669975	0.4367789
sp Q5TKR9	Histone ace	2	2	0.0108695	-0.394507	0.4215874	0.6704875	0.4369406
sp Q6AYH5	Dynactin su	10	19	0.0500659	-0.040855	0.14398	0.6705125	0.4371021
sp Q0VGK0	Gamma-am	3	4	0.0242012	-0.209732	0.2652625	0.6712125	0.4372639



sp P10354	Chromograi	2	3	-0.00924	-0.31101	0.2850522	0.6713125	0.4374255
sp Q920F5	Malonyl-Co	5	5	0.0135903	-0.253528	0.2702665	0.6717625	0.4380706
sp Q3B8Q0	Microtubule	6	8	0.0243032	-0.185223	0.2362086	0.67285	0.4383934
sp P29419	ATP synthase	5	10	-0.041295	-0.181382	0.0958061	0.6733375	0.4385548
sp Q6AXV4	Sorting and	4	5	0.0232166	-0.205557	0.2582106	0.674175	0.4387167
sp Q6UE39	Polypeptide	2	2	0.0054349	-0.345133	0.3440336	0.67425	0.4388783
sp Q8R478	WW domain	6	10	0.0257235	-0.18737	0.2286928	0.67455	0.43904
sp P08460	Nidogen-1 (	5	9	0.0323292	-0.146412	0.2175982	0.674825	0.4393628
sp P62890	60S ribosom	4	10	0.0363318	-0.113294	0.1791772	0.6757625	0.4398469
sp P04636	Malate dehy	17	53	-0.059131	-0.108665	-0.006857	0.6759	0.4401691
sp O88764	Death-associ	3	4	-0.021112	-0.26105	0.2111379	0.676425	0.4404909
sp Q9WV63	Kinesin-like	5	6	0.0128058	-0.25327	0.2665077	0.6772	0.4408131
sp Q641Y2	NADH dehy	6	12	0.0291762	-0.155336	0.2094774	0.678425	0.4412966
sp P50878	60S ribosom	15	25	0.0444951	-0.072068	0.1631613	0.679075	0.4417799
sp P62329	Thymosin b	4	11	0.0185511	-0.220333	0.2577953	0.6791	0.4419407
sp Q07205	Eukaryotic t	5	8	0.0240557	-0.185474	0.2388278	0.6792875	0.4421014
sp P81795	Eukaryotic t	8	13	-0.038963	-0.175705	0.1011922	0.679825	0.4424225
sp A4L9P7	Sister chrom	3	3	0.031501	-0.1652	0.2265944	0.6799375	0.4425829
sp Q7TP47	Heterogene	9	10	0.0095734	-0.255869	0.2756709	0.6807625	0.4430645
sp Q6PDU1	Serine/argir	4	5	0.0149654	-0.228173	0.2592862	0.6809	0.4432248
sp P11654	Nuclear por	2	2	0.0147434	-0.310181	0.3732951	0.68145	0.4438646
sp Q7M767	Ubiquitin-co	2	3	-0.024442	-0.244066	0.1822058	0.6815875	0.4440243
sp Q6AYS7	Aminoacyla	14	21	-0.034135	-0.188203	0.1199523	0.6817375	0.4441838
sp P11730	Calcium/cal	5	7	-0.024728	-0.224876	0.1743389	0.68235	0.4446619
sp P82995	Heat shock	23	63	-0.038139	-0.18318	0.1108023	0.6828375	0.4448213
sp P27605	Hypoxanthi	4	9	0.0288628	-0.152936	0.2109106	0.682925	0.4449806
sp P31977	Ezrin OS=Ra	6	6	-0.004987	-0.283502	0.2799303	0.6833375	0.4451399
sp P29418	ATP synthase	3	4	0.0173231	-0.233615	0.2488381	0.683475	0.4452991
sp Q68FY0	Cytochrome	10	21	-0.048383	-0.155233	0.0526646	0.6848625	0.4456183
sp Q07439	Heat shock	7	13	0.0285985	-0.151116	0.2086582	0.6855125	0.4464151
sp Q5PPN5	Tubulin poly	10	20	0.0288083	-0.16272	0.21744	0.6859625	0.4470498
sp Q6QLM7	Kinesin head	9	12	-0.025879	-0.223395	0.1656134	0.6861375	0.4472082
sp P55161	Nck-associa	2	3	-0.017506	-0.259481	0.2195552	0.6862	0.4473665
sp P52296	Importin su	10	13	0.0396337	-0.092545	0.1672523	0.6862875	0.4476825
sp P62198	26S proteas	4	6	0.0097083	-0.252766	0.2729687	0.68665	0.447998
sp Q5PPH0	Enolase-pho	4	5	0.0156081	-0.213788	0.2527337	0.68725	0.448471
sp P62752	60S ribosom	7	10	0.0288046	-0.165803	0.2370668	0.6879	0.4486287
sp Q9WU68	Pleckstrin h	5	6	-0.019994	-0.228403	0.1942054	0.6887625	0.4487868
sp Q9Z244	GMP reduct	3	5	0.0087491	-0.258166	0.2724208	0.6889375	0.4491025
sp P63312	Thymosin b	1	2	0.0232128	-0.184127	0.2344929	0.689525	0.4494179
sp P08081	Clathrin lig	8	13	-0.038533	-0.170359	0.0923569	0.6895625	0.4495755
sp Q7TP65	Ankyrin rep	4	6	0.031358	-0.133606	0.1952437	0.6898625	0.4497331
sp Q9Z2S9	Flotillin-2 O	8	9	-0.015215	-0.236161	0.2171878	0.6900125	0.4498905
sp Q5U1W5	U11/U12 sn	1	2	0.0104066	-0.253053	0.2588154	0.69025	0.4500479
sp P97924	Kalirin OS=F	4	5	-0.025718	-0.208944	0.1622266	0.690275	0.4502051
sp P62944	AP-2 compl	7	7	-0.014383	-0.249725	0.2172015	0.690475	0.4505192
sp P60868	40S ribosom	6	10	0.0390958	-0.09687	0.1798246	0.690675	0.450676

sp O08651	D-3-phosph	13	27	0.0250298	-0.171923	0.2288682	0.6912875	0.4508331
sp Q68A21	Transcriptic	8	15	0.0357737	-0.108541	0.1757635	0.691375	0.45099
sp P08541	UDP-glucur	2	2	0.0032016	-0.282049	0.3216183	0.6914875	0.4511468
sp Q1WIM3	Cell adhesic	9	23	0.0275009	-0.156257	0.211574	0.69165	0.4513034
sp P16446	Phosphatid	7	13	-0.03017	-0.20284	0.1360669	0.6924375	0.4516172
sp O54898	Voltage-dep	2	3	-0.027006	-0.22674	0.1645139	0.6930375	0.4522432
sp Q5XI81	Fragile X me	4	4	-0.020779	-0.241556	0.2033809	0.6930875	0.4523994
sp Q9QYV0	Disintegrin	1	3	-0.037085	-0.171996	0.1013335	0.6931	0.4525554
sp P36506	Dual specifi	2	3	0.0206496	-0.236716	0.2826866	0.6931125	0.4527112
sp Q63312	Pleckstrin h	7	8	-0.02017	-0.230205	0.1874554	0.6931625	0.4528668
sp P34058	Heat shock	17	43	-0.03132	-0.197081	0.1360544	0.69375	0.4530227
sp P12001	60S ribosom	8	28	0.0378686	-0.094291	0.1753415	0.6940375	0.4531785
sp P26453	Basigin OS=	3	4	0.0135602	-0.281841	0.2931214	0.6941375	0.4534895
sp P31422	Metabotrop	4	4	0.0181133	-0.198273	0.2299805	0.6958875	0.4538019
sp P50398	Rab GDP dis	13	24	0.0362586	-0.104839	0.1758074	0.6970375	0.4545826
sp Q68FP1	Gelsolin OS	19	45	-0.039421	-0.165327	0.0905086	0.6972	0.4547385
sp P40307	Proteasome	3	4	-0.025103	-0.218323	0.1650118	0.6980375	0.4555162
sp P62870	Transcriptic	6	13	0.0327766	-0.121316	0.1858267	0.6982	0.4556715
sp Q5XIN6	LETM1 and	8	10	-0.016603	-0.219131	0.1914425	0.69935	0.4561373
sp Q64560	Tripeptidyl-	8	8	0.0203086	-0.178446	0.2174928	0.699475	0.4564476
sp P61149	Heparin-bin	4	8	-0.027013	-0.203833	0.1491095	0.70045	0.456758
sp Q05982	Nucleoside	3	4	0.0121303	-0.220437	0.2532783	0.701675	0.4573799
sp Q62940	E3 ubiquitin	10	15	-0.031359	-0.183163	0.1194897	0.703375	0.4580018
sp P47942	Dihydropyri	17	50	-0.04141	-0.152579	0.0742484	0.7039625	0.4586229
sp B4F795	Choline tran	6	8	0.020434	-0.177386	0.2255038	0.70455	0.4590878
sp Q6P686	Osteoclast-	6	13	0.0083422	-0.244879	0.2869086	0.7050125	0.4592429
sp Q99PD4	Actin-relate	3	4	-0.021807	-0.214814	0.16309	0.70605	0.459863
sp Q6P7B0	Tryptophan	13	20	0.0337249	-0.115705	0.1820062	0.7061375	0.4601724
sp Q63598	Plastin-3 OS	10	18	0.0316349	-0.112459	0.1802698	0.706475	0.4606354
sp P62630	Elongation f	13	41	-0.044929	-0.142294	0.0545313	0.7068875	0.4607897
sp P10688	1-phosphat	3	4	-0.009495	-0.246363	0.2258914	0.707075	0.4609439
sp P63170	Dynein light	2	7	0.0392302	-0.085189	0.1631594	0.7074625	0.4612521
sp Q9R1Z0	Voltage-dep	5	9	-0.008877	-0.246378	0.2304062	0.7083125	0.4618679
sp Q9Z1X1	Extended sy	19	30	-0.039953	-0.156654	0.0798514	0.708825	0.4621755
sp Q499N5	Acyl-CoA sy	3	4	-0.004661	-0.25966	0.2509256	0.7098375	0.4627902
sp B0BNA5	Coactosin-li	7	15	0.0395683	-0.084429	0.1617897	0.7099625	0.4629437
sp Q6PST4	Atlastin-1 O	3	4	0.0004284	-0.256379	0.2644653	0.710275	0.4634036
sp P13233	2',3'-cyclic-r	33	100	-0.006361	-0.248867	0.2408066	0.71095	0.463557
sp P62083	40S ribosom	8	21	0.037104	-0.090184	0.1650582	0.7111625	0.4637103
sp P48037	Annexin A6	39	93	-0.051872	-0.123061	0.020745	0.711425	0.4638636
sp Q6NYB7	Ras-related	6	8	0.0284988	-0.129076	0.1796964	0.7118875	0.4641699
sp Q6P9U8	Eukaryotic t	5	10	0.0195868	-0.16831	0.2057996	0.71305	0.4647823
sp Q99MZ8	LIM and SH	5	7	-0.019895	-0.201388	0.1642412	0.7131375	0.4649353
sp P0C1X8	AP2-associa	3	5	0.0137174	-0.204739	0.2315234	0.7131875	0.4650882
sp P14480	Fibrinogen I	10	12	-0.009945	-0.242261	0.2277493	0.7133	0.4652409
sp P05426	60S ribosom	7	13	0.0374047	-0.089604	0.1699462	0.7133625	0.4653935
sp P85515	Alpha-centr	8	12	0.0359762	-0.091327	0.1656611	0.71395	0.4655463

sp Q9R063  Peroxiredox	11	25	-0.018433	-0.213248	0.1736334	0.7148	0.4660046
sp P13383  Nucleolin O	26	42	0.0516109	-0.016149	0.1206336	0.7154	0.4663103
sp P82471  Guanine nu	5	9	0.0228369	-0.14768	0.1904592	0.7159125	0.4669199
sp P59215  Guanine nu	7	10	-0.029124	-0.188341	0.1296463	0.7160625	0.467224
sp Q91XU1  Protein qua	5	6	-0.010761	-0.235241	0.2055917	0.716375	0.4673761
sp P11250  60S ribosom	3	6	-0.005965	-0.247697	0.2325423	0.716375	0.4675279
sp P63036  DnaJ homol	4	6	-0.024685	-0.182404	0.1379841	0.7165375	0.4678311
sp Q642A6  von Willebr	8	19	0.033064	-0.107369	0.1663487	0.7167375	0.4679826
sp Q6AYT7  Monoacylgl	7	14	-0.031438	-0.174666	0.1079051	0.7167875	0.468134
sp P63041  Complexin-1	6	14	0.0255074	-0.142219	0.1964962	0.7175625	0.4682856
sp P04764  Alpha-enola	15	39	0.0112666	-0.203285	0.2424549	0.7187	0.4688921
sp P37805  Transgelin-2	7	10	-0.02293	-0.1919	0.1464021	0.7187125	0.4690435
sp Q01205  Dihydrolipo	11	21	0.0380233	-0.07685	0.1584018	0.719375	0.4694974
sp P13437  3-ketoacyl-CoA	11	19	-0.028966	-0.1746	0.1188204	0.7199875	0.4699511
sp P35427  60S ribosom	7	15	0.0350063	-0.088509	0.1601007	0.7204875	0.4704039
sp A0JPJ7  C Obg-like AT	8	11	0.0262797	-0.132075	0.1864281	0.720725	0.4705547
sp P14942  Glutathione	8	13	-0.020211	-0.198635	0.162789	0.72095	0.4707054
sp Q9QYF3  Myosin-Va (	14	17	-0.02635	-0.178503	0.1256135	0.72105	0.470856
sp P97571  Calpain-1 ca	8	10	0.0215083	-0.15284	0.1997565	0.7216	0.4711571
sp P09495  Tropomyosi	8	22	0.0446594	-0.045675	0.1382617	0.72175	0.4713076
sp Q7TQ16  Cytochrome	4	6	0.0222868	-0.143519	0.1869945	0.7232	0.4717601
sp P30839  Fatty aldehy	7	7	0.0103175	-0.201487	0.2311694	0.723275	0.4722115
sp A0JPM9  Eukaryotic t	3	6	0.0037753	-0.23578	0.2368679	0.7232875	0.4723617
sp Q9QYL8  Acyl-protein	4	4	0.0069297	-0.223462	0.2466168	0.7234	0.4725118
sp P62959  Histidine tri	4	7	0.0108051	-0.20355	0.2359073	0.72535	0.4734117
sp P01256  Calcitonin g	1	4	-0.005232	-0.235786	0.2276734	0.7255	0.4738613
sp P01041  Cystatin-B C	5	9	-0.008172	-0.231735	0.2173033	0.7257375	0.4740109
sp Q4KLM4  Ectoderm-n	2	3	-0.020645	-0.197252	0.1564864	0.725875	0.4741605
sp P05197  Elongation f	32	65	0.0454011	-0.04695	0.135829	0.726075	0.4744593
sp P35213  14-3-3 prot	4	7	0.0239675	-0.1436	0.190106	0.7264625	0.4746086
sp P49242  40S ribosom	13	28	0.0450312	-0.040358	0.1313811	0.72715	0.4752054
sp O88767  Protein DJ-1	14	41	0.0110884	-0.197653	0.221208	0.7271875	0.4753543
sp Q9JMJ4  Pre-mRNA-sp	4	5	0.0128768	-0.187685	0.2273359	0.72755	0.4755033
sp P00173  Cytochrome	4	9	-0.029469	-0.178131	0.1137431	0.7282625	0.4758014
sp P29266  3-hydroxyis	7	11	0.0312644	-0.098667	0.1580946	0.729875	0.4765463
sp O89049  Thioredoxin	8	11	0.0237133	-0.127958	0.1773763	0.7306375	0.4769933
sp O08557  N(G),N(G)-d	13	23	0.0055813	-0.219846	0.2300169	0.730825	0.4771423
sp Q6P7Q4  Lactoylgluta	7	15	-0.0306	-0.167664	0.1032777	0.7330875	0.4778889
sp Q4KM49  Tyrosyl-tRN	18	31	0.0377352	-0.078411	0.1571335	0.7336	0.4783366
sp P06399  Fibrinogen a	13	19	-0.009716	-0.208288	0.2021584	0.7346375	0.4786353
sp Q5XIP9  Transmemb	5	5	-0.007268	-0.207919	0.1936489	0.7349	0.4789339
sp Q9EPH8  Polyadenyla	16	23	0.0383624	-0.068013	0.1511274	0.735475	0.4790833
sp Q6MG6C  N(G),N(G)-d	14	35	0.0398761	-0.067092	0.1425434	0.7359125	0.4793819
sp Q5XFX0  Transgelin-2	8	17	-0.032175	-0.15619	0.096717	0.73665	0.4798299
sp O35854  Branched-cl	2	3	-0.007073	-0.216322	0.2061182	0.7367625	0.479979
sp P97874  Cyclin-G-ass	5	6	0.0023609	-0.222409	0.2258748	0.73715	0.480277
sp B5DF89  Cullin-3 OS=	4	7	-0.009208	-0.206186	0.189308	0.7374125	0.4805748

sp Q920J4	Thioredoxin	6	16	0.0276073	-0.113798	0.1670678	0.7382875	0.4808727
sp Q8CH84	ELAV-like pr	5	9	0.0191411	-0.144242	0.182004	0.7383375	0.4810216
sp P97700	Mitochondr	10	18	0.027961	-0.109219	0.1677928	0.738725	0.4814674
sp Q9WVK7	Hydroxyacy	11	21	-0.043208	-0.130667	0.0414705	0.7398	0.4822089
sp Q6PCU2	V-type prot	9	16	-0.024114	-0.172632	0.129285	0.7399625	0.4823572
sp P62632	Elongation f	14	29	0.0417915	-0.058864	0.1386863	0.7400625	0.4825053
sp P20280	60S ribosom	7	14	0.0240404	-0.125576	0.1795512	0.7409125	0.4832445
sp P50137	Transketola	26	49	0.0166936	-0.16293	0.1930587	0.7426875	0.4841305
sp P23965	3,2-trans-er	6	11	0.0215482	-0.132775	0.1795052	0.7430125	0.4845732
sp P61078	Ubiquitin-co	1	2	0.0155926	-0.165127	0.194564	0.7435375	0.4848682
sp P23978	Sodium- an	1	2	-0.00175	-0.22606	0.2289145	0.743575	0.4850154
sp P11232	Thioredoxin	7	27	0.0160181	-0.163071	0.1920606	0.7448875	0.4856045
sp Q63560	Microtubule	17	27	-0.034699	-0.15054	0.0792091	0.7465	0.4870742
sp O88600	Heat shock	23	33	0.0304763	-0.101645	0.1757574	0.747375	0.4873676
sp P11507	Sarcoplasm	10	15	-0.021577	-0.176852	0.135952	0.7489625	0.4881025
sp P32551	Cytochrome	14	25	-0.04394	-0.124602	0.0366969	0.749	0.4882491
sp Q00981	Ubiquitin ca	20	78	0.0033215	-0.209857	0.211079	0.749775	0.4894183
sp Q63081	Protein disc	11	19	-0.033998	-0.142053	0.0763539	0.7500375	0.4895641
sp Q6P747	Heterochro	14	24	0.034622	-0.074059	0.1455082	0.7502375	0.4897098
sp P62832	60S ribosom	9	17	0.0322075	-0.085907	0.1478854	0.750575	0.4902915
sp Q9ESN0	Protein Nib	5	6	-0.002589	-0.206191	0.1989028	0.7508875	0.4905818
sp Q9JIL3	Interleukin	3	3	-0.005381	-0.24347	0.2261764	0.7515	0.4911614
sp Q6XVN8	Microtubule	5	8	0.0242022	-0.118084	0.1696885	0.75325	0.4915963
sp Q9JJ19	Na(+)/H(+) c	7	8	0.0078338	-0.178269	0.2016219	0.7535625	0.4917416
sp P50399	Rab GDP dis	17	32	-0.025365	-0.166324	0.1240674	0.7537875	0.4921767
sp Q63638	Striated mu	4	4	-0.000555	-0.222142	0.2138056	0.7540125	0.4923216
sp P01830	Thy-1 mem	4	6	0.0140474	-0.155995	0.1836957	0.7546375	0.493045
sp Q6PEC4	S-phase kin	12	23	0.0229932	-0.126159	0.1748111	0.75495	0.4936216
sp P62845	40S ribosom	3	5	0.0109324	-0.182908	0.1986594	0.75575	0.4941966
sp Q9ERE6	Myosin pho	5	6	-0.009786	-0.195458	0.1676311	0.7569625	0.4947714
sp Q4V8B0	Oxidation re	8	8	-0.011024	-0.203628	0.177812	0.75735	0.4952024
sp P84083	ADP-ribosyl	3	8	0.025172	-0.107314	0.1577867	0.7578	0.4957756
sp P27867	Sorbitol def	6	9	0.0112805	-0.162129	0.1853638	0.7578625	0.4959187
sp Q99NA5	Isocitrate de	11	19	-0.042761	-0.126545	0.0406837	0.760075	0.4967773
sp Q66H98	Serum depr	6	8	0.0025725	-0.192836	0.1955492	0.760525	0.497207
sp P18422	Proteasome	3	5	0.0025688	-0.197244	0.1999369	0.761175	0.4976361
sp P55260	Annexin A4	11	19	0.0249848	-0.109984	0.1653663	0.7613375	0.497779
sp Q01177	Plasminoge	6	9	0.0153989	-0.144389	0.1722129	0.761925	0.4982075
sp P20788	Cytochrome	9	14	-0.02175	-0.16061	0.1196671	0.7621375	0.4983503
sp P97849	Long-chain	7	11	-0.017534	-0.173343	0.1331789	0.76215	0.4984929
sp P69060	N-acylneur	1	3	0.0177387	-0.138423	0.1874407	0.763875	0.4997739
sp Q9JHU0	Dihydropyri	17	34	0.036157	-0.068204	0.1414484	0.76465	0.5000582
sp P41565	Isocitrate de	8	10	0.0209368	-0.121608	0.1580951	0.7648125	0.5002004
sp Q5RJR8	Leucine-rich	10	17	0.0292542	-0.087987	0.1485549	0.7648875	0.5006261
sp P61980	Heterogene	15	30	0.0398007	-0.047655	0.1274862	0.7651125	0.5009093
sp Q2TA68	Dynamin-lik	7	12	0.0051028	-0.177298	0.1886413	0.76885	0.5026065
sp P49432	Pyruvate de	11	18	0.0209953	-0.114274	0.1569421	0.769575	0.5031732

sp Q64559  Cytosolic ac	8	12	0.0020849	-0.19731	0.1975397	0.7707625	0.5037393
sp Q9QX69  LanC-like pr	9	14	0.020326	-0.121339	0.1619979	0.7708375	0.5038808
sp P86252  Transcription	8	19	0.0237359	-0.110675	0.1551128	0.77115	0.5043046
sp P63326  40S ribosom	5	9	-0.016184	-0.164124	0.1280821	0.772475	0.5047289
sp P50503  Hsc70-inter	12	21	-0.027614	-0.146213	0.0969738	0.7729875	0.5052937
sp Q62717  Calcium-dep	10	13	0.0242397	-0.100845	0.1482941	0.774925	0.5069833
sp P62260  14-3-3 prot	14	29	-0.035821	-0.13251	0.0605018	0.775275	0.5071237
sp B2RYG6  Ubiquitin th	6	9	0.003791	-0.177572	0.183719	0.7755125	0.5075443
sp B0K020  CDGSH iron	5	9	-0.025172	-0.148591	0.0954773	0.775725	0.5076843
sp P28480  T-complex p	15	28	0.0363696	-0.056182	0.1271831	0.77625	0.5082437
sp P21913  Succinate de	6	11	-0.018155	-0.16408	0.1264059	0.777325	0.5089423
sp Q6AYS8  Estradiol 17	7	9	0.0078801	-0.15731	0.172988	0.777375	0.509221
sp Q9JLJ3  4-trimethyl	10	18	-0.028494	-0.138262	0.0817378	0.778	0.5094997
sp Q91Y81  Septin-2 OS	8	12	-0.025341	-0.143128	0.0952968	0.77825	0.5097782
sp P60881  Synaptosom	4	9	0.002599	-0.175533	0.1823847	0.7783125	0.5099172
sp Q6P6R2  Dihydrolipo	11	23	-0.040745	-0.121869	0.0384514	0.778325	0.5100562
sp Q62638  Golgi appar	11	17	0.0199291	-0.116471	0.1553821	0.7785125	0.510195
sp P42123  L-lactate de	17	51	-0.008599	-0.176227	0.1609076	0.780025	0.5115811
sp P10111  Peptidyl-pro	11	35	0.0009574	-0.185572	0.19994	0.7806625	0.5122716
sp Q5RKI0  WD repeat	14	20	-0.030661	-0.136119	0.0730338	0.7810625	0.5125471
sp Q5XHY8  Uncharacte	1	2	0.0121109	-0.153464	0.1703004	0.7810875	0.5128223
sp O08562  Sodium cha	1	2	-0.007618	-0.185997	0.1657519	0.7812	0.5129597
sp P04256  Heterogene	5	9	0.015437	-0.134899	0.1663355	0.781375	0.5133713
sp P06685  Sodium/pot	22	63	-0.031984	-0.137056	0.0740871	0.78215	0.5139189
sp Q9Z272  ARF GTPase	5	6	-0.003107	-0.192487	0.1791525	0.782225	0.5141924
sp P61203  COP9 signal	9	13	-0.002902	-0.186235	0.173622	0.7842	0.5154216
sp Q9WVB1  Ras-related	8	12	-0.032416	-0.132863	0.0647635	0.785225	0.5161031
sp Q5XIH7  Prohibitin-2	15	23	0.0303837	-0.073982	0.1357683	0.786275	0.516376
sp P18418  Calreticulin	22	53	-0.033226	-0.131106	0.0683198	0.7864125	0.5166487
sp Q9Z1E1  Flotillin-1 O	7	12	0.0066939	-0.156221	0.1690928	0.788025	0.5181442
sp Q9EQS0  Transaldola	17	38	0.0127015	-0.134717	0.1693783	0.7912375	0.5199049
sp A2RRU1  Glycogen [s	6	7	-0.001344	-0.17161	0.1729451	0.79195	0.5204464
sp P07323  Gamma-enc	12	29	-0.014827	-0.162929	0.1303797	0.7938	0.5209879
sp Q63355  Myosin-Ic C	12	17	-0.0057	-0.169748	0.1583914	0.79405	0.5213943
sp Q5M9I5  Cytochrome	2	8	-0.016	-0.154614	0.118172	0.7943	0.5219348
sp Q9Z1A6  Vigilin OS=	14	19	-0.022706	-0.142141	0.0936481	0.794875	0.5226087
sp Q9Z0W5  Protein kin	8	10	0.0008974	-0.175722	0.1693025	0.7949875	0.5227432
sp O55156  CAP-Gly do	14	19	-0.010698	-0.160747	0.1376132	0.795425	0.5231465
sp P12075  Cytochrome	5	13	0.0278823	-0.081127	0.1314987	0.79585	0.5235492
sp Q07266  Drebrin OS=	7	13	-0.014733	-0.151139	0.1214599	0.7965875	0.5246194
sp Q9QXY2  SRC kinase	1	2	-0.011869	-0.158688	0.1397092	0.7967125	0.524886
sp P62718  60S ribosom	6	14	0.0138368	-0.130358	0.1561111	0.7967375	0.5251522
sp Q07936  Annexin A2	26	82	-0.025092	-0.139251	0.091302	0.7967375	0.5250192
sp P51635  Alcohol deh	12	25	0.013605	-0.13152	0.162173	0.7978875	0.5259494
sp P85972  Vinculin OS=	42	72	-0.010256	-0.163489	0.1402831	0.798525	0.52648
sp P63102  14-3-3 prot	11	33	0.0219336	-0.100017	0.1466736	0.799575	0.5271425
sp P97852  Peroxisoma	10	13	0.0143705	-0.131721	0.1571054	0.80005	0.5279351

sp P37285	Kinesin light	12	19	0.0161217	-0.118975	0.1527164	0.8000625	0.5280669
sp P47752	Sphingosine	1	5	0.0038411	-0.158343	0.1714062	0.8005	0.5281987
sp P04762	Catalase OS	10	12	0.0135361	-0.125915	0.1541867	0.8011	0.5284625
sp O54924	Exocyst con	1	3	0.0042377	-0.164573	0.1719065	0.8016375	0.5287263
sp P40329	Arginyl-tRN	17	24	0.0266019	-0.077585	0.1315788	0.8019125	0.52899
sp Q9JLT0	Myosin-10 (	30	41	-0.020764	-0.143482	0.1042484	0.8022375	0.5296474
sp P47875	Cysteine an	9	17	0.0061723	-0.154369	0.1606606	0.8032875	0.5301723
sp P12839	Neurofilam	31	100	-0.037086	-0.12046	0.0452755	0.8034	0.5303036
sp P25113	Phosphogly	11	28	-0.00334	-0.164727	0.1646019	0.8035875	0.5305658
sp P04904	Glutathione	6	11	-0.021132	-0.140493	0.0991854	0.8050625	0.531221
sp Q06647	ATP synthas	9	17	-0.005419	-0.168965	0.1467903	0.8056875	0.5313523
sp P35435	ATP synthas	8	15	-0.019575	-0.142135	0.1015983	0.805775	0.5314835
sp Q08163	Adenylyl cy	12	21	0.0198288	-0.098752	0.1485995	0.8060875	0.5316148
sp Q8CFN2	Cell division	8	11	-0.019177	-0.143244	0.1029332	0.80635	0.5318772
sp P09117	Fructose-bis	11	24	0.0116879	-0.138077	0.158685	0.8071	0.5322706
sp P08699	Galectin-3 C	3	4	0.003343	-0.15665	0.1658857	0.8080875	0.5333166
sp Q62733	Lamina-ass	10	15	-0.008156	-0.172602	0.1448175	0.8084875	0.5339685
sp Q00566	Methyl-CpG	5	7	-0.00967	-0.149151	0.1301695	0.8087	0.5342286
sp O88989	Malate dehy	13	32	-0.008847	-0.154753	0.1436891	0.810125	0.5347492
sp P10860	Glutamate c	18	42	-0.004058	-0.163838	0.1663137	0.811625	0.535271
sp P63322	Ras-related	6	9	-0.007976	-0.149315	0.139318	0.8118	0.5354014
sp P67779	Prohibitin C	12	21	0.0291899	-0.068084	0.123865	0.81215	0.5357922
sp P23358	60S ribosom	8	17	-0.025631	-0.128549	0.0759618	0.81255	0.5365715
sp P06761	78 kDa gluc	31	63	-0.034117	-0.117102	0.0525267	0.8138875	0.5377352
sp P16617	Phosphogly	22	44	0.0067486	-0.14215	0.1591077	0.81605	0.5392839
sp Q5FVJ0	Protein RUF	21	37	0.0060154	-0.146052	0.1572369	0.8161875	0.5394126
sp Q5XHY5	Threonyl-tR	6	8	0.0020541	-0.151585	0.1567752	0.81765	0.540184
sp P48500	Triosephosp	12	31	0.0099057	-0.129407	0.1474433	0.8185125	0.5408269
sp P62909	40S ribosom	16	32	0.0376299	-0.034185	0.1130509	0.8200625	0.541469
sp Q5XIT1	Microtubule	7	16	0.0045283	-0.140498	0.1504135	0.8210125	0.5421113
sp P31000	Vimentin O	31	100	-0.033398	-0.118487	0.0512178	0.8212375	0.5422397
sp Q03344	ATPase inhi	5	8	0.0143314	-0.113325	0.1392389	0.821725	0.5424964
sp Q4QRB4	Tubulin bet	12	64	-0.02328	-0.130095	0.0858904	0.822825	0.5437763
sp P10888	Cytochrome	9	21	-0.027443	-0.128953	0.0678635	0.82305	0.5442862
sp P62246	40S ribosom	8	12	-0.006695	-0.145543	0.1370098	0.8266125	0.5464467
sp Q1WIM1	Cell adhesi	10	24	-0.007234	-0.158015	0.1324426	0.8268625	0.5467005
sp Q6P502	T-complex p	22	40	0.0413364	-0.022125	0.1047114	0.8274625	0.5475863
sp Q09073	ADP/ATP tr	7	13	-0.01922	-0.130247	0.0915073	0.827675	0.5477127
sp Q6RUV5	Ras-related	7	23	0.0193386	-0.093915	0.1362078	0.828525	0.5480918
sp P11240	Cytochrome	6	11	0.0025305	-0.145611	0.1550859	0.829425	0.5487232
sp P19511	ATP synthas	7	15	-0.030273	-0.117842	0.0579566	0.8295	0.5488493
sp Q63570	26S proteas	4	6	0.0011562	-0.151183	0.1515963	0.8297125	0.5492273
sp Q66X93	Staphylococ	16	26	0.0247445	-0.072527	0.1232151	0.8297625	0.5494787
sp P34926	Microtubule	50	100	-0.016378	-0.135728	0.1061018	0.8299	0.5497298
sp Q9Z2L0	Voltage-dep	10	12	-0.005044	-0.146909	0.1371349	0.83065	0.5501063
sp P18420	Proteasome	7	15	-0.014733	-0.13179	0.1036534	0.8313125	0.550858
sp P11951	Cytochrome	7	16	-0.005417	-0.147104	0.1396022	0.8320125	0.5518566

sp Q5I0D1  Glyoxalase	14	27	0.0152361	-0.109441	0.1348969	0.83205	0.5521054
sp P62902  60S ribosom	7	11	0.0033732	-0.142805	0.158689	0.83275	0.5523542
sp P10719  ATP synthas	25	59	-0.037634	-0.107835	0.0355348	0.8336125	0.5529761
sp Q5XI72  Eukaryotic t	10	20	0.0040655	-0.136184	0.1474525	0.8364375	0.5542197
sp Q1JU68  Eukaryotic t	18	31	0.0199089	-0.087082	0.1241109	0.83705	0.5547168
sp P17074  40S ribosom	9	15	-0.016408	-0.132747	0.0985742	0.83705	0.554841
sp Q920L2  Succinate d	13	25	-0.016048	-0.130694	0.0988461	0.8372875	0.555213
sp Q63083  Nucleobind	7	10	0.0019324	-0.141483	0.1393937	0.8374125	0.5553369
sp P11980  Pyruvate kin	32	93	0.0139598	-0.108898	0.1316611	0.8388625	0.5562043
sp Q5M7W  Microtubule	35	67	0.0212498	-0.081126	0.1296936	0.838975	0.5563279
sp O35095  Neurochond	12	21	-0.014796	-0.130008	0.1028889	0.8401	0.5569458
sp P13221  Aspartate a	17	33	0.024448	-0.073954	0.1222563	0.8417625	0.5583028
sp Q9QUL6  Vesicle-fusi	36	67	-0.031518	-0.11591	0.0470322	0.8426625	0.559041
sp P35434  ATP synthas	3	8	0.0113663	-0.110152	0.1310911	0.843575	0.5594099
sp P61589  Transformir	9	20	0.023361	-0.070989	0.1187608	0.843625	0.5596556
sp P81155  Voltage-dep	7	13	-0.004183	-0.13958	0.1360122	0.8444875	0.5601469
sp P04785  Protein disu	22	37	-0.038972	-0.101647	0.0219703	0.8464	0.5617398
sp Q8R491  EH domain-	4	13	0.0062741	-0.125397	0.1366286	0.8474	0.5625939
sp P16884  Neurofilam	26	100	-0.037573	-0.104888	0.0288166	0.847725	0.5628377
sp P85834  Elongation f	10	16	0.0205674	-0.075577	0.1219656	0.8499125	0.5644183
sp P19804  Nucleoside	4	7	-0.011817	-0.133403	0.1026261	0.850025	0.5646609
sp P97697  Inositol moi	6	9	-0.004464	-0.13417	0.1247254	0.8502375	0.5649033
sp P09895  60S ribosom	14	21	-0.018307	-0.121489	0.0826075	0.8504625	0.5651454
sp Q64428  Trifunctiona	22	35	0.0281581	-0.057406	0.1096081	0.850475	0.5652664
sp Q68FU3  Electron tra	8	12	-0.010231	-0.125427	0.1087707	0.8506625	0.5656288
sp Q9WU82  Catenin bet	12	19	0.0172178	-0.087126	0.1187968	0.850725	0.5657494
sp P13086  Succinyl-Co	13	24	0.0109474	-0.105748	0.1319569	0.8527625	0.5665955
sp P62762  Visinin-like	11	19	-0.007433	-0.12627	0.1138852	0.8551875	0.5681627
sp P61314  60S ribosom	6	10	-0.005557	-0.131052	0.1177813	0.8555125	0.5682833
sp Q5FVM4  Non-POU d	7	12	-0.011746	-0.12258	0.1000459	0.8564125	0.5686451
sp P61765  Syntaxin-bir	20	32	-0.008791	-0.129067	0.1194895	0.8581125	0.5699695
sp Q05962  ADP/ATP tr	7	20	-0.011818	-0.129898	0.0992551	0.858175	0.5700896
sp Q6JE36  Protein NDF	9	32	0.0211538	-0.072632	0.1147885	0.8585625	0.5703299
sp Q5EB81  NADH-cyto	6	14	-0.00044	-0.132911	0.1381803	0.8600125	0.57117
sp P14668  Annexin A5	22	64	-0.008544	-0.131178	0.1159115	0.8603375	0.57129
sp Q5XI73  Rho GDP-di	11	22	0.0153867	-0.093147	0.1194991	0.8609	0.5718893
sp Q6P6V0  Glucose-6-p	22	36	-0.005582	-0.13063	0.1195569	0.8617625	0.5722487
sp Q5RKI1  Eukaryotic i	11	25	-0.022689	-0.110871	0.0692489	0.8619125	0.5723685
sp P22062  Protein-L-is	8	16	-0.013053	-0.121531	0.0994799	0.864225	0.5735657
sp P15999  ATP synthas	34	98	-0.033262	-0.103327	0.0374617	0.865675	0.5741651
sp P62271  40S ribosom	8	25	0.0129114	-0.092075	0.1137992	0.87075	0.5790339
sp P97536  Cullin-assoc	20	31	-0.011811	-0.11736	0.0947505	0.87175	0.579741
sp P49134  Integrin bet	9	21	-0.003466	-0.124301	0.1170504	0.873725	0.5808011
sp Q9JK11  Reticulon-4	24	44	0.0199201	-0.067937	0.1106996	0.8749625	0.5817415
sp P05942  Protein S10	8	16	-0.014724	-0.113813	0.0853711	0.8755	0.5824453
sp P15178  Aspartyl-tRI	17	30	0.0144589	-0.084325	0.113807	0.8776	0.5836152
sp P62425  60S ribosom	16	30	-0.016584	-0.108958	0.0766468	0.8797625	0.5847862

sp P15205	Microtubule	53	100	-0.009175	-0.115366	0.0998386	0.8810375	0.5859534
sp Q9QZR6	Septin-9 OS	12	17	0.0030107	-0.110962	0.1184767	0.8813	0.586419
sp P61983	14-3-3 prot	10	15	-0.004133	-0.124286	0.1124563	0.88165	0.5868835
sp Q641Y0	Dolichyl-dip	9	21	0.0100808	-0.093325	0.1118626	0.8826	0.587926
sp Q63269	Inositol 1,4,	27	37	0.0010205	-0.115997	0.1227341	0.8864375	0.590804
sp P25809	Creatine kin	7	15	0.0106103	-0.088999	0.1105804	0.8876375	0.5911489
sp Q5BK63	NADH dehy	9	18	0.0069073	-0.10303	0.1155956	0.88785	0.5914937
sp P19945	60S acidic ri	12	26	0.0102243	-0.093756	0.1139987	0.88865	0.5918383
sp Q5QD51	A-kinase an	21	31	-0.006214	-0.11	0.1020954	0.889575	0.5925272
sp Q3KR86	Mitochondr	18	30	-0.01628	-0.107071	0.078517	0.8907125	0.5938998
sp Q9Z269	Vesicle-assc	9	12	-0.001409	-0.118642	0.1117354	0.89125	0.5943559
sp P43244	Matrin-3 OS	11	15	0.0057466	-0.097271	0.1109508	0.8917875	0.5948114
sp P28023	Dynactin su	21	29	0.0064653	-0.09739	0.1126513	0.892275	0.5954932
sp P24050	40S ribosom	8	17	0.0257899	-0.047554	0.0963401	0.894	0.5965142
sp Q62952	Dihydropyri	14	29	0.0121301	-0.077564	0.1110612	0.8962875	0.5980968
sp Q04462	Valyl-tRNA :	18	26	-0.016419	-0.102237	0.0713704	0.89685	0.5989989
sp B2RZ37	Receptor ex	5	12	-0.006538	-0.114278	0.0981746	0.897075	0.5995608
sp Q6PDV7	60S ribosom	12	24	-0.00777	-0.108905	0.0922586	0.8981375	0.6001218
sp P63018	Heat shock	28	81	0.0083443	-0.088516	0.1099841	0.9024875	0.603037
sp P11598	Protein disu	29	77	-0.015584	-0.10162	0.0720885	0.90795	0.6069249
sp P27952	40S ribosom	15	36	0.0107065	-0.079937	0.1016684	0.9109375	0.6088063
sp Q62826	Heterogene	15	25	-0.010237	-0.098221	0.0804852	0.9137375	0.6109
sp Q07009	Calpain-2 ca	13	32	0.0101287	-0.075489	0.0966904	0.920575	0.6142026
sp P68511	14-3-3 prot	7	15	-0.000932	-0.102089	0.1009918	0.920625	0.6143126
sp P07153	Dolichyl-dip	22	35	-0.007785	-0.096515	0.0849821	0.9241625	0.6173795
sp P35565	Calnexin OS	15	31	0.0084164	-0.075272	0.0912867	0.9333375	0.6244176
sp P16036	Phosphate c	11	22	-0.00062	-0.094128	0.0924668	0.936225	0.6264532
sp P62703	40S ribosom	14	28	0.0108715	-0.065446	0.0864028	0.9422	0.6315502
sp P29314	40S ribosom	14	29	0.0071654	-0.071436	0.0857006	0.94485	0.6340731
sp P62919	60S ribosom	16	36	0.0145206	-0.053205	0.0855613	0.944975	0.6341777
sp Q63507	60S ribosom	8	17	-0.003105	-0.087171	0.0841174	0.9451375	0.6342824
sp P26284	Pyruvate de	19	34	0.0073022	-0.069342	0.0869431	0.948575	0.6370957
sp P30427	Plectin OS=	73	100	0.0292226	-0.018448	0.0794813	0.9533625	0.6403082
sp Q8VHF5	Citrate synt	17	37	0.0033342	-0.075374	0.0805558	0.9572	0.6435973
sp P04642	L-lactate de	16	38	0.0113834	-0.057119	0.0802006	0.95915	0.6452326
sp P46462	Transitional	42	91	-0.002541	-0.07998	0.075445	0.9623	0.6474735
sp Q9ER34	Aconitate h	29	47	-0.009025	-0.075278	0.05717	0.96375	0.648489
sp P48721	Stress-70 pr	25	51	0.0056742	-0.061997	0.0754958	0.9668125	0.6509199
sp P16086	Spectrin alp	62	100	0.0249128	-0.021055	0.0725918	0.9697875	0.6534335
sp O35814	Stress-induc	27	39	-0.002647	-0.073483	0.067464	0.9709375	0.6552298
sp P05708	Hexokinase	25	52	-0.015882	-0.07043	0.0375201	0.9792375	0.6627022
sp P11442	Clathrin hea	56	100	0.0190909	-0.027889	0.0677362	0.9802375	0.6630918
sp P00507	Aspartate a	20	51	0.0085485	-0.045924	0.0627002	0.986875	0.6682323
sp P38650	Cytoplasmic	70	100	-0.000971	-0.054479	0.0518659	0.992875	0.6731175