

Protein signatures of spontaneous lipolysis and lipoprotein lipase activity in cow's milk

Mylène Delosière, Laurence Bernard, Catherine Hurtaud, Maxime Guilleton, Didier Viala, Andrea Rau, Muriel Bonnet, Christelle Cebo

▶ To cite this version:

Mylène Delosière, Laurence Bernard, Catherine Hurtaud, Maxime Guilleton, Didier Viala, et al.. Protein signatures of spontaneous lipolysis and lipoprotein lipase activity in cow's milk. Journal of Proteomics, 2023, 285, pp.104951. 10.1016/j.jprot.2023.104951. hal-04170840

HAL Id: hal-04170840

https://hal.science/hal-04170840

Submitted on 8 Sep 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

1 Protein signatures of spontaneous lipolysis and lipoprotein lipase

2 activity in cow's milk

3

- 4 M. Delosière^a, L. Bernard^a, C. Hurtaud^b, M. Guilleton^a, D. Viala^{a,c}, A. Rau^d, M.
- 5 Bonneta and C. Cebod

6

- ⁷ ^a INRAE, Université Clermont Auvergne, Vetagro Sup, UMRH, 63122 Saint-Genes-
- 8 Champanelle, France
- 9 b PEGASE, INRAE, Institut Agro, 35590, Saint-Gilles, France
- 10 c INRAE, Université Clermont Auvergne, Vetagro Sup, Metabolomic and Proteomic
- 11 Exploration Facility (PFEM), 63122, Saint-Genès-Champanelle, France
- d Université Paris-Saclay, INRAE, AgroParisTech, GABI, 78350, Jouy-en-Josas,
- 13 France

14

- 15 Corresponding author:
- 16 Mylène Delosière: <u>mylene.delosiere@inrae.fr</u>
- 17 Dr Mylène Delosière, INRAE, Centre ARA, Site de Theix, 63122 Saint-Genès-
- 18 Champanelle, France

19

20

Acknowledgments

- 21 The authors thank APIS-GENE (https://www.apis-gene.com/) for its financial
- contribution to the LIPOMEC program (ANR-19-CE21-0010). Members of the IE PL
- experimental farm, INRAE, Dairy nutrition and physiology (IE PL, 35650 Le Rheu,
- 24 France; https://doi.org/10.15454/yk9q-pf68) are acknowledged for their contribution
- to animal care and milk sampling. The authors thank Guy Miranda (INRAE, GABI
- Unit) for analyses of major milk protein fractions by LC-ESI-MS; Sylvain Emery and
- 27 Arnaud Delavaud from UMR 1213 Herbivores (INRAE) for their assistance with the
- experiment management, sample collection and laboratory analysis; Christophe
- 29 Chambon from Metabolomic and Proteomic Exploration Facility (PFEM, INRAE,
- 30 Saint-Genès-Champanelle, France;
- 31 https://doi.org/10.15454/1.557239511356972E12) for analysis of the minor proteome
- by nano-LC-MS/MS. The authors acknowledge the support received from the

- 33 International Research Center on sustainable AgroEcosystems (6-IDEX-0001 CAP
- 34 20-25).

36

Animal welfare statement

- 37 The experiment was conducted in accordance with the French legislation on animal
- experimentation and was approved by the French National Committee for
- Consideration of Ethics in Animal Experimentation (Authorization: APAFiS #17944-
- 40 2018120416536243 v2 delivered on February 19, 2019).

41

42

Conflict of interest statement

The authors declare that they have no conflict of interest.

44

45 Author ORCIDs

- 46 Mylène Delosière: 0000-0002-8149-5070
- 47 Laurence Bernard: 0000-0003-1529-4243
- 48 Catherine Hurtaud: 0000-0002-3965-826X
- 49 Maxime Guilleton: 0000-0001-9963-0050
- 50 Didier Viala: 0000-0002-4221-9700
- 51 Andrea Rau: 0000-0001-6469-488X
- 52 Muriel Bonnet: 0000-0001-7193-3543
- 53 Christelle Cebo: 0000-0001-5071-9353

54

55 Author's contributions:

- M. Delosière: Proteome Methodology, Statistical Methodology, Software, Data
- curation, Formal analysis, Visualization, Writing original draft.
- L. Bernard: Conceptualization and management of the Lipomec project, Resources,
- 59 Supervision, Visualization, Writing original draft.
- 60 C. Hurtaud: Conceptualization and management of the Lipomec project, Resources,
- Data curation, Writing review & editing.
- M. Guilleton: Methodology, Software, Data curation, Formal analysis, Visualization,
- 63 Writing original draft.
- D. Viala: Proteome Analysis, Data Curation, Writing review & editing.

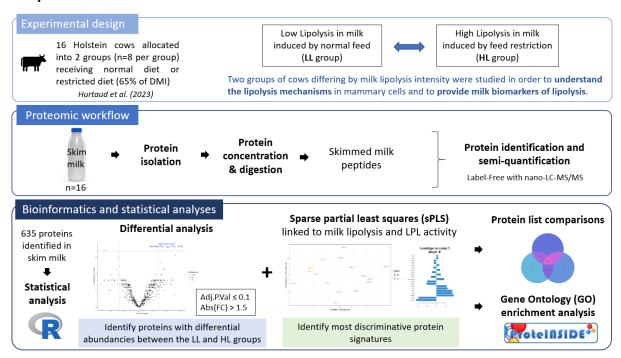
- 65 A. Rau: Methodology, Software, Data curation, Validation, Formal analysis,
- 66 Visualization, Writing review & editing.

- M. Bonnet: Conceptualization of the proteome methodology, conceptualization of the
- data analysis, data curation, Supervision, Visualization, Writing- original draft.
- 69 C. Cebo: Conceptualization and management of the Lipomec project, Funding
- acquisition, Supervision, Data curation, Visualization, Writing original draft.
- All authors agree to be accountable for the content of the work.

Highlights

- A specific protein signature is associated with high lipolysis levels in cow milk
- CD5L and GP2 in skim milk are putative biomarkers of lipolysis
- CUL9, SURF4 and HID1 are associated with low levels of lipolysis in skim milk
- LPL inhibitors contribute to explaining low lipolysis levels observed in cow milk

Graphical abstract



2

Abstract

- 3 Spontaneous milk lipolysis refers to the breakdown of triacylglycerols in milk.
- 4 Lipolysis impacts the organoleptic value of milk by causing off-flavours and reduces
- 5 the technological properties of milk. Lipolysis is caused by lipoprotein lipase (LPL), a
- tightly regulated enzyme in milk. Our objective was to identify robust biomarkers of
- 7 lipolysis and putative regulators of LPL enzyme in bovine milk. To achieve this goal,
- we used feed restriction as a lever to generate highly contrasted samples with regard
- 9 to milk lipolysis. We combined statistical methods on proteomics data, milk lipolysis
- and LPL activity values. Following this strategy, we identified CD5L and GP2 as
- robust biomarkers of high lipolysis in cow milk. We also identified HID1, SURF4 and
- 12 CUL9 as putative inhibitors of the lipolytic process in the milk. We thus proposed 5
- putative biomarkers to be considered in future tools to manage milk lipolysis.

14

15

16

Keywords

Dairy cows, lipolysis, lipoprotein lipase, milk fat, milk proteins, biomarkers

17 18

Introduction

- 19 Fat is present in milk as fat globules, a supra-molecular structure made of a
- triglyceride core surrounded by a complex membrane called the Milk Fat Globule
- Membrane (MFGM). In freshly secreted milk, the MFGM is intact and forms an
- 22 effective barrier that protects fat from the action of milk lipases, with an efficiency that
- can vary according to the molecular composition of the membrane [1]. In addition, in
- some cases such as agitation, pumping or homogenization of milk, this membrane is
- damaged and lipases are able to reach the triglyceride core causing lipolysis [2].
- Milk lipolysis, that is, enzymatic degradation of milk triglycerides into free fatty acids
- by the lipoprotein lipase (LPL; EC:3.1.1.34), severely impairs milk quality from both
- the organoleptic and the technological points of view. Off-flavours originating from
- 29 free fatty acids and their oxidation products in milk are not appreciated by
- 30 consumers. Moreover, the presence of partial triglycerides in milk impairs its
- technological properties, like foaming and creaming abilities [3]. Controlling milk
- 32 lipolysis is therefore an economic issue for dairy producers.
- 33 Spontaneous lipolysis of milk results from a complex interplay between farming
- practices, animal physiology and animal genetics [4,5], but underlying mechanisms

are still poorly understood. At the molecular level, the lipolytic system is constituted 35 by the lipoprotein lipase, cofactors (activators and inhibitors) and substrate (milk 36 triglycerides), and the resulting products are free fatty acids and partial glycerides. In 37 the native bovine milk, the skim fraction is the richest source of LPL mainly 38 associated with the casein micelle through electrostatic interactions [3] and upon 39 cooling the proportion of LPL linked to the MFGM increases [6,7]. Inactive LPL can 40 refold into active LPL dimers in the presence of calcium ions and this phenomenon is 41 potentiated by the presence of activators, namely serum albumin, lipoproteins, 42 heparin or glycerol [8], which are mainly located in skim milk. The presence of LPL 43 inhibitors has also been documented in milk. A component of the milk proteose-44 peptone fraction PP3, also known as lactophorin, has been identified as a potential 45 LPL inhibitor [9]. The skim milk proteose-peptone component 5 (PP5, residues 1–105 46 47 and 1–107 of β-casein) has been identified in some studies as an activator of LPL [10] and in other studies, as an inhibitor of LPL [9]. However, most of these studies 48 49 dealing with the identification of milk and skim milk lipase activity regulators were conducted in the 1980s [9,11-13] and need to be reassessed in view of the major 50 advances in proteomics that have occurred over the past decade, especially with 51 regard to the analysis of milk protein fractions [14,15]. 52 The aim of the present study is to discover biomarkers of lipolysis in skim milk by 53 using a model of feed restriction as a lever to produce milk samples with contrasted 54 lipolysis rates [16]. To achieve this outcome, we combined statistical methods on our 55 proteomics data with milk lipolysis values and LPL enzyme activities to identify 56 robustly discriminant proteins of lipolysis in milk. Following this strategy, we further 57 describe the protein signatures of spontaneous lipolysis or LPL activity in skim milk. 58 We acknowledge some limitations in our approach. In order to perform satisfactory 59 proteomic analysis of skim milk, milk fat was removed with skimming, but part of the 60 LPL is located in the fat phase. However, our results help to better understand the 61 62 biological mechanisms of milk fat degradation through the identification of putative regulators of lipase activity in milk, which is a prerequisite to design a test to detect 63 lipolysis in milk samples. 64

65

66

1. Material and methods

1.1 Animals and experimental design

67

83

84

- The experiment was conducted at the Installation Expérimentale Production Laitière,
- 69 INRAE, Dairy nutrition and physiology (IE PL, 35650 Le Rheu, France;
- 70 https://doi.org/10.15454/yk9q-pf68) with agreement for animal housing number C-35—
- 71 275-23. This study was realized on samples from sixteen primiparous and
- multiparous Holstein cows at 156 ± 20 days in milk fed with diet treatments based on
- corn silage and differing by the level of feeding. These cows are a subsample of the
- 44 cows included in a reverse design on feeding level during 4 weeks split into 2 two-
- week periods in March 2019 [16]. Two feeding levels were considered: "non-
- restricted", with cows fed a corn silage-based diet at 100% of ad libitum dry matter
- intake (DMI), and "restricted", corresponding to a corn silage-based diet at 65% of ad
- 78 libitum DMI. For omics studies, 8 cows in each two-week period were used. During
- 79 period 1, each group of cows first received the non-restricted diet, followed by the
- restricted diet. During period 2, the order of feeding levels was reversed. Further
- details about the feed offered in the two diets can be found in [16]. The animals had
- access to fresh water ad libitum.

1.2 Milk processing and lipolysis determination

- The milk yields of individual animals were recorded over 6 milkings at 8:00 and 16:30
- each week. Milk samples were collected individually on morning milking on the last
- day of each experimental period, with one part immediately treated with bronopol-B2
- preservative (LIAL, Aurillac, France) to measure fat, protein and lactose content
- 89 (MyLab, Chateaugiron, France). The other part of milk (unpreserved) was used to
- determine the milk lipolysis level using the copper soap method (mEq/100g fat) [5,17]
- as described in detail in [16]. The morning lipolysis levels of milk collected on the last
- day of the period were used to define groups of low and high lipolysis cows based on
- a threshold of 0.5 mEq/100 g fat: Low Lipolysis (LL group with mean of 0.32 \pm 0.12
- mEq/100 g fat) vs High Lipolysis (HL group, 0.84 ± 0.33 mEq/100 g fat). Unpreserved
- 95 milk was also stored at -80°C for protein extraction and identification analyses and
- LPL activity determination (nmol/mn/ml) measured in vitro using a radiolabelled
- 97 substrate [18].

98

1.3 Major protein identification using LC-ESI-MS

- Major milk proteins, namely the four caseins (α s1-caseins, α s2 caseins, β -caseins
- and κ -caseins), α -lactalbumin, and β -lactoglobulin and all their isoforms were

identified and quantified using our improved method combining reverse-phase high performance liquid chromatography (Ultimate LC 3 000 system, Thermo Fisher Scientific, Waltham, MA) with an ESI-TOF mass spectrometer micrOTOF II focus (Bruker Daltonics, Wissembourg, France) [19]. Briefly, milk samples were placed on dry ice immediately after milking and stored at -80°C for further analyses. Milk samples were rapidly thawed at 37°C then skimmed by centrifugation at 2 000 g and 4°C for 10 min. The cream was removed by means of a spatula and the skimmed milk was aliquoted into fractions of 20 and 100 μL, frozen at -20°C and kept under these conditions until analysis by Liquid Chromatography-Electro Spray Ionization-Mass Spectrometry (LC-ESI-MS). Identification of the main milk protein isoforms was performed using our in-house mass database of bovine milk proteins containing nearly 3 000 theoretical masses, corresponding to the multiple isoforms of milk proteins including genetic and splicing variants, post-translationally modified proteins (phosphorylated and glycosylated) and main known plasmin hydrolysis products.

1.4 Minor protein identification using nano-LC-MS/MS

1.4.1 Skim milk protein isolation, concentration and digestion

All reagents were purchased from Sigma-Aldrich (Saint Louis (MO)) except when otherwise specified. The raw milk was slightly defrosted during one night at 4°C and milk components equilibrated by incubation during 1 h at 37°C. The equilibrated raw milk was centrifuged at 3 500 g for 15 min at 4°C to separate the cream from the skimmed milk (SM). Acetic acid was added to the SM reaching pH 4.6 to precipitate the caseins. The homogenate was centrifuged at 10 000 g for 10 min at 4°C to discard caseins and supernatant recovered until protein concentration determination. Enrichment of minor or low-abundance SM proteins was performed using the ProteoMiner Small-Capacity columns (#163-3006, Bio-Rad Laboratories, Hercule (CA)) according to the manufacturer's instructions. Column was washed twice, and 10 mg of proteins from SM were deposited on column and incubated 2 h at room temperature (RT) under agitation. Then, spin columns were washed with buffer twice and with purified milli-Q water once (1 min at RT) followed by a 1 000 g centrifugation in order to eliminate unbound proteins. Proteins enriched from medium- and lowabundance were incubated for two runs of 15 min in 20 µL of elution buffer (RT) and centrifuged at 1 000 g. Supernatant was recovered until protein concentration

- determination using PierceTM BCA protein assay kit (Fisher Scientific, Hampton
- 135 (NH)).
- 136 Twenty µg of proteins were mixed with reducing sodium dodecylsulfate buffer (4%)
- with dithiothreitol (20 mM) and incubated 10 min boiling in order to reduce disulphide
- bonds. Then proteins were alkylated in iodoacetamide (50 mM) during 45 min
- protected from light. After acidification with phosphoric acid (1.2%), S-Trap® buffer
- (triethylammonium bicarbonate 100 mM; in ethanol 90%) was added and proteins
- were deposit on S-Trap® column (Protifi, Fairport, NY). Columns containing proteins
- were centrifuged at 4 000 g during 10 min, washed with S-Trap® buffer and this step
- was repeated 3 times.
- SM protein digestion was performed with sequencing grade trypsin (Promega,
- Madison (WI)) 1:50 [w/w] enzyme/protein ratio in triethylammonium bicarbonate (50
- 146 mM) with overnight incubation at 37°C. Tryptic peptides were extracted by adding 60
- μL of 0.2% formic acid in acetonitrile (50%) followed by centrifugation at 4 000 g
- during 10 min repeated twice. Supernatants containing peptides were dried by
- SpeedVac vacuum concentrator (ThermoScientific, Illkirch (FR)). Peptides were
- recovered in 100 µL of 5% acetonitrile and 0.05% trifluoroacetic acid (TFA) solution
- with sonication during 5 min and transferred into glass vials (Interchim, Montluçon
- 152 (FR)) prior to nano-LC-MS/MS analysis.

153 1.4.2 Peptide analysis on nano-LC-MS/MS

- Peptide mixtures were analysed by nano-LC-MS/MS using an Ultimate 3 000 system
- coupled to a QExactive HF-X mass spectrometer (MS) (Thermo Fisher Scientific). A
- volume of 6 µl of peptide extract was first concentrated and desalted at a flow rate of
- 30 μl/min on a C18 pre-column 5 cm length x 100 μm (Acclaim PepMap 100 C18, 5
- μm, 100A nanoViper) equilibrated with Trifluoroacetic Acid 0.05% in water. Then this
- preconcentration column was switched online with a nanoflow analytical C18 column
- 160 (Acclaim PepMap 100 75 μm inner diameter × 25 cm length; C18 3 μm -100Å SN
- 161 10719167) equilibrated at a flow rate of 300 nL/min with a 95% solvent A (99.9%
- H2O, 0.1% formic acid). The peptides were separated according to their
- hydrophobicity using a gradient of solvent B (99.9% acetonitrile, 0.1% formic acid)
- from 5 to 32% during 50 min. For MS analysis, eluted peptides were electrosprayed
- in positive-ion mode at 1.6 kV through a nanoelectrospray ion source heated to
- 250°C. The MS operated in data dependent mode: the parent ion was selected in the

orbitrap cell (FTMS) at a resolution of 120 000 and each MS analysis was followed by 18 MS/MS with analysis of the MS/MS fragments at a resolution of 15 000.

At the end of the LC-MS/MS analysis, the raw data processing of peptide MS/MS spectra was carried out with Progenesis QI software (version 4.2, Nonlinear Dynamics, Newcastle upon Tyne, UK). The software defined a reference run used to perform an automatic alignment of all other runs considering a maximum allowable ion charged set to 5. The detected ions were grouped in a file (mgf) directly exported to the Mascot v2.5 (http://www.matrixscience.com) interrogation engine and searched against a Bos taurus decoy database (i.e. ref_bos_taurus, 37 513 sequences) with the following parameters during the request: precursor mass tolerance of 10 ppm and fragment mass tolerance of 0.05 Da, a maximum of two missed cleavage sites of trypsin, carbamidomethylation (C), oxidation (M) and deamidation (NQ) set as variable modifications. Protein identification was validated when at least two peptides from one protein showed statistically significant identity above Mascot scores with a false discovery rate (FDR) of 1%. For label-free protein quantification analysis, the identified peptides from the database search were imported back to Progenesis QI software. All unique validated peptides of an identified protein were included and the total cumulative abundance was calculated by summing the abundances of all peptides allocated to the respective protein. Consequently, proteins were quantified based on the intensities of the specific validated peptides.

1.5 Statistical analysis

Statistical analyses were performed using R (version 4.2.1). All data came from 2 groups of 8 animals forming a part of the reverse design experiment (full details in Hurtaud et al., 2023). As cited earlier, the milk lipolysis level was used to constitute the Low Lipolysis (LL) group with a mean of 0.32 ± 0.12 mEq/100 g fat and the High Lipolysis (HL) group with a mean of 0.84 ± 0.33 mEq/100 g fat. Thus, the experimental design consists of the following fixed effects: period (P1 vs P2, differing by 15 d of lactation), sequence (order of feed restriction treatment), and lipolysis level (LL vs HL). We note that as both diets (restricted and unrestricted) were fed in succession to each cow, repeated measurements were available for each cow in this design.

Animal parameters (such as DMI, milk production and composition) and major 199 proteins from milk containing 0.3% missing variables were imputed by the k-nearest 200 neighbour method (k=5) using the impute package (version 1.70.0). 201 A linear mixed model with fixed effects (period, sequence and lipolysis) and a random 202 animal effect was fit for animal parameters using the lme4 package (version 1.1.31), 203 and statistical significance was evaluated using Type II sums of squares in the Anova 204 function from the car package (version 3.1.1; p < 0.05). The sequence effect was not 205 206 significant and was thus removed from the model. 207 Raw minor protein abundances from SM containing 0.4% missing variables were imputed by the k-nearest neighbour method (k=5) using the impute package. 208 209 Abundances were then log-transformed. We applied two complementary statistical analyses to identify a proteomic signature that discriminates the LL and HL groups: i) 210 211 a parametric univariate differential analysis (Diff-A) to identify significant proteins one by one based on their abundances; and to go further ii) a sparse multi-level 212 213 multivariate analysis to identify a concise signature of proteins strongly linked to either lipolysis (sPLS-lipolysis) or LPL activity (sPLS-LPL-activity). The parametric 214 215 univariate differential analysis (Diff-A) was performed by fitting to each protein an empirical Bayes linear model including lipolysis, sequence and period fixed effects 216 and a random animal effect using the limma package (version 3.52.2). As no 217 significant effect was observed across proteins for period and sequence, these were 218 removed from the model. P-values were adjusted to control the FDR (adj.P.Val) using 219 the Benjamini-Hochberg approach. Statistical significance was considered at 220 adj.P.Val < 0.1 and an absolute fold change threshold of 1.5. 221 Sparse multi-level partial least square analyses (sPLS) were performed in regression 222 mode with paired observations on cows using the mixOmics package (version 6.20.0, 223 Rohart et al., 2017). Predictor variables (X) corresponded to the log protein 224 abundances, and the response variable (Y) to either the milk lipolysis (sPLS-lipolysis) 225 226 or the milk LPL activity (sPLS-LPL-activity). For each sPLS model, we retained 2 components, both including a total of 30 proteins with non-zero loadings. A posteriori, 227 the first sPLS component for each model was found to be highly discriminative 228 between the LL and HL groups. The proteins with non-zero loadings in the first 229 230 component were compiled into lists of milk lipolysis related proteins and LPL activity related proteins with their respective contributions. Contributions correspond to the 231

232	weight assigned to each protein to define each component; larger absolute values
233	mean that a given protein has a greater importance for a given component.
234	Lists of proteins were mined for biological meaning by a gene ontology (GO)
235	enrichment analysis, performed using the ProteINSIDE webservice online tool
236	version 2.0 (available at https://umrh-
237	bioinfo.clermont.inrae.fr/ProteINSIDE_2/index.php?page=upload.php, [20]) based on
238	Bos taurus and a search of biological reactions on Reactome based on Homo
239	sapiens.
240	
241	2. Results
242	2.1 Highly contrasted milk samples with regard to spontaneous lipolysis levels
243	We used feed restriction of the cows as a lever to generate two groups of 8 cows with
244	contrasted milk in terms of lipolysis levels for use in omics studies. The performance
245	data of these 8 dairy cows were comparable with those on the full set of 44 cows in
246	the original study [16].
247	The parameters relative to the ingestion of the 8 dairy cows from the LL group (fed an
248	unrestricted diet) and the HL group (fed a restricted diet) are reported in
249	Supplementary Table S1. As expected, the milk yield and composition are
250	dramatically divergent between LL and HL groups (Table 1). The milk production
251	decreased by 9.7% in the HL compared with LL group (P<0.05). The total milk
252	protein content was reduced by 16.7% in the HL group compared to the LL group
253	(583.4 g and 486.1 g secreted in morning milk, respectively). Both the casein and
254	soluble protein content were divergent between LL and HL groups (-6.5% and -9.6%,
255	respectively). At the same time, milk lipolysis increased by a factor of 2.6 in the HL
256	group compared with the LL group (P<0.05). Interestingly, the milk LPL activity
257	increased by a factor of only 1.4 in the HL group (P<0.05). Although the correlation
258	between LPL activity and lipolysis in milk is high ($r=0.69$; $P=0.003$; Figure 1), the
259	increase in the milk LPL activity (+44.5%) cannot solely explain the dramatic increase
260	in lipolysis levels we observed in the HL group (+162.5%), thus suggesting that
261	regulators may amplify the lipolytic response in milk.
262	
263	2.2 Spontaneous lipolysis modulates the abundances of skimmed milk proteins
264	635 proteins were identified in our study and raw abundances for each protein are

reported in Supplementary Table S3. Among these 635 proteins, the spontaneous

lipolysis significantly impacts the milk abundances of eight proteins. The volcano plot
(Figure 2), resulting from the parametric univariate analysis, displays the seven
proteins with higher abundance (A0A3Q1M3L6, CD5L, A0A3Q1LRW4, KRT10, GP2,
APOA4, LBP) and the one with lower abundance (CUL9) in the HL compared with LL
group (Table 2). Interestingly, the LPL protein (P11151) was 1.9 times more
abundant in HL compared with LL group, but this increase was not statistically
significant.

273

274

2.3 Milk protein signature of lipolysis in milk

The sPLS multivariate analysis of milk lipolysis (Y) and log protein abundances (X) 275 276 reveals a component that is highly discriminative between the HL and LL groups (Supplementary Figure S1). The corresponding milk proteins implicated in lipolysis 277 278 are reported in Table 3. Among the 15 proteins associated with the HL group, the ten with the largest weights corresponded to two caseins (CSN1S2, CSN1S1), 3 279 280 apolipoproteins (APOE, APOA4, APOA1), CD5L, LBP, A0A3Q1LRW4, CNTFR and GP2. Among the 15 proteins associated with the LL group, the ten with the largest 281 weights are ALOX15, SDHA, FASN, GNG12, SURF4, STK38, HID1, ABCG2, MYO6 282 and UQCRC2 (Table 3). 283 The 15 proteins associated with HL are annotated by terms within the biological 284

The 15 proteins associated with HL are annotated by terms within the biological process (BP) ontology related to the "positive regulation of cholesterol esterification", the "steroid esterification" and the "very-low-density lipoprotein particle remodelling" for APOA1, APOA4 and APOE (Supplementary Table S3). Similarly, the 15 proteins associated with the LL group were annotated by terms within the BP ontology highlighting the "positive regulation of protein lipidation" and "lipoprotein metabolic process" and the "establishment of protein localization at the membrane of reticulum

endoplasmic" for both RAB3GAP1 and RAB3GAP2 (Supplementary Table S3).

292293

291

2.4 Milk protein signature of LPL activity

The first component of the sPLS multivariate analysis of milk LPL activity (Y) and log protein abundances (X) similarly discriminated between the HL and LL groups (Supplementary Figure S2). SM proteins related to the level of milk LPL activity are listed in Table 4. Seventeen proteins were strongly associated with the HL group (i.e., positive loadings for component 1 of the sPLS) with GP2, BSPRY, KRT10, ANXA7, MARCKS, CD5L, SLC5A9, SLC6A8, A0A3Q1M3L6 and IDH1 in the top 10. Among

- the 13 proteins associated with the LL group, HID1, SQLE, CUL9, VAT1, PHB2,
- ACSL3, NDRG4, ATP13A3, FASN and ANKRD13A were in the top 10 (Table 4).
- The 17 proteins associated with HL were significantly annotated by terms within the
- BP category that emphasized "localization" for CD5L, GP2, NAPA, SH3GLB1,
- 304 SLC5A9, SLC6A8, the "negative regulation of cholesterol metabolic process" for
- 305 ERLIN2 the "isocitrate metabolic process", the "glyoxylate cycle" and "tricarboxylic
- acid metabolic process" for IDH1. Moreover, 13 proteins among the 17 were
- annotated by the "membrane" term within the CC category (Supplementary Table
- 308 S3).
- The 13 proteins associated with the LL group were annotated by terms within the BP
- category that highlight the "regulation of phospholipid metabolic process", particularly
- phosphatidylcholine, for ACSL3 and PHB2 and "negative regulation of protein
- localization to endosome" for ANKRD13A (Supplementary Table S3).

2.5 Putative milk biomarkers of milk lipolysis

- Crossing the protein lists resulting from the univariate and multivariate statistical
- analyses highlights the CD5 molecule like (CD5L) and the Glycoprotein 2 (GP2).
- These are therefore putative biomarkers of high lipolysis in milk (Figure 3). CD5L and
- 318 GP2 skim milk abundances correlated positively with milk lipolysis (r = 0.69; P =
- 319 0.003 and r = 0.5; P = 0.04) and milk LPL activity (r = 0.68; P = 0.003 and r = 0.6; P = 0.06
- 320 0.01) (Supplementary Table S4).
- Focusing on protein lists associated with the LL group, the Surfeit locus protein 4
- (SURF4) and Chromosome 17 open reading frame 28 ortholog (HID1) are common
- proteins linked to milk lipolysis (sPLS-lipolysis) and milk LPL activity (sPLS-LPL
- activity) (Figure 4). SURF4, HID1 and CUL9 are negatively correlated with both
- lipolysis (r = -0.63, P = 0.008; r = -0.4, P = 0.1 and r = -0.48, P = 0.06) and LPL
- activity in milk (r = -0.74, P = 0.0009; r = -0.6, P = 0.01 and r = -0.59, P = 0.01)
- 327 (Supplementary Table S4). These proteins are therefore good candidates that may
- be indicative of low lipolysis in the milk of dairy cows.

329

330

3. Discussion

- As expected, the feed restriction of dairy cows dramatically induced lipolysis in milk
- (+162.5%; HL group) compared with cows fed with normal diet (LL group) [16,21].

Noticeably, while lipolysis increased 2.6 times in the HL compared to LL group, the 333 activity of the LPL enzyme only increased 1.4 times, thus suggesting that molecules 334 may act as regulators of the enzyme in skim milk (Table 1). However, the LPL activity 335 measured in vitro in optimal conditions represents the potential LPL activity and not 336 the in vivo activity. Furthermore, previous studies in cows showed that milk lipolysis 337 was poorly correlated to LPL activity [22], which is probably due at least in part to the 338 major cellular location of the LPL in the casein micelle fraction of milk in cows. These 339 340 considerations support giving more weight to the molecules identified as a signature of lipolysis within the skim milk. 341 The feed restriction necessarily impacts the milk proteome [21,23]. Our aim was to 342 343 identify robust biomarkers of milk lipolysis and a list of putative regulators of lipolysis in skim milk to better understand the lipolytic processes. To achieve this goal, we first 344 345 performed a classical univariate statistical analysis on our proteomics data to identify differentially abundant proteins between lipolysis treatments while accounting for 346 347 other experimental factors. We then performed two multivariate statistical analyses on the proteomics abundance data to identify proteins forming signatures of lipolysis 348 and milk LPL enzyme activity. sPLS is a powerful tool that seeks to maximize the 349 covariance between the proteomic abundances and response variable of interest 350 (lipolysis, LPL activity) using a set of latent components, where a lasso penalization 351 is used to focus interest on a concise set of predictive biomarkers. Finally, we 352 compared differential proteins and those forming signatures of lipolysis and LPL 353 activity to identify proteins involved in the regulation of the lipolytic process in milk. 354 Following this 3-step strategy, we identified CD5L and GP2 as robust biomarkers and 355 putative regulators of lipolysis in milk (Figure 3). These proteins were consistently 356 identified in the differential analysis, as well as sPLS-lipolysis and sPLS-LPL activity 357 analyses, highlighting them as key molecules involved in the lipolytic pathway in 358 bovine milk. CD5L, also called Apoptosis inhibitor of macrophage (AIM) or apoptosis 359 360 inhibitor 6 (Api6), is a soluble member of the scavenger receptor cysteine-rich superfamily, which is secreted by mature tissue macrophages in mouse in the 361 362 context of inflammation and obesity. Kurokawa et al. [24,25] reported that the AIM/Api6/CD5L protein is incorporated into adipocytes via CD36-mediated 363 364 endocytosis, and induces lipolysis by suppressing the activity of fatty acid synthase (FASN). In our study, CD5L negatively correlates (r = -0.75; P = 0.0007) with FASN, 365 366 the latter of which was strongly associated with the LL group for both sPLS-lipolysis

and sPLS-LPL-activity (Tables 3 and 4). As proposed earlier by Iwamura et al. [26] in 367 adipocytes of mice, we further suggest that in bovine mammary epithelial cells, the 368 highly abundant CD5L binds to cytosolic FASN, inhibiting its enzymatic activity and 369 thus lowering the milk short and medium chain FA from *de novo* mammary synthesis. 370 In other words, CD5L may act by repressing de novo synthesis by FASN, favouring a 371 higher fatty acid uptake by both the mammary LPL and NEFA transporters for milk 372 lipid synthesis [27]. The latter being favoured by the high plasma NEFA concentration 373 374 observed due to adipose mobilization which was associated with lipolysis in milk [21]. GP2 was identified in the heat- and acid-stable fraction of ovine milk [28] and was 375 recently listed in all the fractions of bovine milk throughout lactation [15]. The heat-376 377 and acid-stable fraction of bovine milk belongs to the proteose-peptone fraction, which contain potential activators or inhibitors of LPL enzyme [29]. Most of the 378 379 component of proteose-peptone fraction are fragments of caseins produced by the action of endogenous plasmin and the main constituents are recognized as 380 381 components 3, 5, 8 [30,31]. Peptone protease (PP) 5 have been identified both as an activator [10] or an inhibitor of LPL enzyme [9,21] and remain controversial. Among 382 this PP fraction, the potential GP2 role in the lipolysis process has not been yet 383 addressed. However, given its structure of glycosylphosphatidylinositol-anchored 384 glycoprotein, GP2 may be involved in the link of LPL with the MFGM. This hypothesis 385 remains to be investigated and is based on the observations that 386 glycosylphosphatidylinositol-anchored glycoprotein such as GPIHBP1 is involved in 387 the binding of LPL and chylomicrons in mice [32]. Moreover, GP2 is highly positively 388 correlated with the glypican-1 protein (GPC1) in an sPLS discriminant analysis 389 between the LL and HL groups (Supplementary Figure S3 reports the circle plot of 390 component 1 and 2). GPC1 is a cell surface proteoglycan carrying an heparan sulfate 391 moiety, which facilitates or inhibits the interaction of proteins with lipid-rafts. Heparin-392 like glycosaminoglycans have been identified as potential activators of LPL [29,33]. 393 394 Among research focusing on the interactions between LPL and MFGM allowing its access to its substrates, LPL is known to bind to heparan sulfate-type 395 396 glycosaminoglycans present on the surface of MFG [6]. All these assumptions justify analyzing the involvement of GP2 in the localization of LPL close to its substrate, 397 398 supported by GP2 positive correlation with milk LPL activity (r = 0.60; P = 0.01) (Supplementary Table S4). 399

401 A0A3Q1LRW4 and LBP were identified in the milk from the HL group as strongly associated proteins (Table 3, Figure 3). APOA4 is a known actor in lipolysis, since it 402 is required for efficient activation of LPL by APOC-II [3,34]. A0A3Q1LRW4 protein is 403 an immunoglobulin fragment, but not well described. Lastly, the LBP protein 404 addressing the HL group indicates modification of the immune response and lipid 405 transport in the cows in line with adaptive response to feed restriction [35]. 406 407 408 Dairy cows fed diets covering requirements present low lipolysis levels in milk despite the presence of LPL, thus suggesting that the LPL enzyme is tightly regulated. It is 409 410 therefore of interest to identify not only proteins associated with high levels of lipolysis in milk, but also proteins associated with low levels of lipolysis, the latter of 411 412 which may be putative inhibitors of lipolysis in milk. The cullin 9 protein (CUL9) was identified in the milk of the LL group both in our differential analysis and sPLS-LPL 413 414 activity analysis (Figure 4). CUL9 belongs to the cullin family of proteins, molecular scaffolds that have crucial roles in the homeostasis of cellular proteins through the 415 ubiquitin-proteasome system [36]. Cullins work in concert with RING proteins as 416 docking proteins to add ubiquitin to specific proteins, targeting them for destruction. 417 Such a regulation of lipase activity through ubiquitination has been recently 418 demonstrated for the adipose triglyceride lipase in hepatic cells [37]. 419 Two additional proteins were strongly associated with reduced lipolysis levels in milk: 420 SURF4 (Surfeit locus protein 4) and HID1 (Chromosome 17 open reading frame 28 421 ortholog protein) (Figure 4). SURF4 is an endoplasmic reticulum (ER) cargo receptor 422 423 that mediates the selective export of lipoproteins to facilitate their secretion, thus playing a crucial role for the maintenance of lipid homeostasis [38]. 424 As well as SURF4, HID1 protein is associated with low levels of LPL activity and 425 lipolysis (Figure 4). HID-1 controls formation of large dense core vesicles by 426 427 influencing cargo sorting of neuropeptides and peptide hormones through acidification of the trans Golgi network [39]. HID1 is thus involved in the release of 428 429 insulin by pancreatic cells through the processing of proinsulin to functionally active 430 hormone [40]. Moreover, in our study, the expression of HID1 is positively correlated with the expression of FASN in the LL group (r = 0.72; P = 0.001; Supplementary 431 Table S4), thus favouring the mammary de novo FA pathway in the case of a 432 433 sufficient feeding level.

Three proteins were both differentially abundant and related to lipolysis. APOA4,

400

435

436

437

438

439

440

441

442

443

444

4. Conclusions

In this study, we used feed restriction as a lever to produce highly contrasted samples with regard to lipolysis levels in bovine milk. Following proteomic studies, we combined uni- and multivariate statistical analyses with milk lipolysis values and/or LPL enzyme activities measured in milk to identify key regulators of lipolysis in bovine milk. We identified the CD5L and GP2 proteins as robust biomarkers of high lipolysis in cow milk. HID1, SURF4 and CUL9 are putative inhibitors of the lipolytic process in the milk. The data provided here constitute a robust basis for further tests on a larger population to design a quick on-farm diagnosis tool such as strip tests to monitor lipolysis levels in cow milk.

445

446

References

- 447 [1] C. Lopez, M.-N. Madec, R. Jimenez-Flores, Lipid rafts in the bovine milk fat 448 globule membrane revealed by the lateral segregation of phospholipids and 449 heterogeneous distribution of glycoproteins, FOOD Chem. 120 (2010) 22–33. 450 https://doi.org/10.1016/j.foodchem.2009.09.065.
- 451 [2] M.C. Michalski, R. Cariou, F. Michel, C. Garnier, Native vs. damaged milk fat 452 globules: membrane properties affect the viscoelasticity of milk gels, J. Dairy 453 Sci. 85 (2002) 2451–2461. https://doi.org/10.3168/jds.S0022-0302(02)74327-0.
- 454 [3] H.C. Deeth, Lipoprotein lipase and lipolysis in milk, Int. Dairy J. 16 (2006) 555.
- E. Vanbergue, L. Delaby, J.L. Peyraud, S. Colette, Y. Gallard, C. Hurtaud,
 Effects of breed, feeding system, and lactation stage on milk fat characteristics
 and spontaneous lipolysis in dairy cows., J. Dairy Sci. 100 (2017) 4623–4636.
 https://doi.org/10.3168/jds.2016-12094.
- [5] E. Vanbergue, J.L. Peyraud, J. Guinard-Flament, C. Charton, S. Barbey, R.
 Lefebvre, Y. Gallard, C. Hurtaud, Effects of DGAT1 K232A polymorphism and
 milking frequency on milk composition and spontaneous lipolysis in dairy cows,
 J. Dairy Sci. 99 (2016) 5739–5749. https://doi.org/10.3168/jds.2015-10731.
- J.A. Dickow, L.B. Larsen, M. Hammershøj, L. Wiking, Cooling causes changes
 in the distribution of lipoprotein lipase and milk fat globule membrane proteins
 between the skim milk and cream phase, J. Dairy Sci. 94 (2011) 646–656.
 https://doi.org/10.3168/jds.2010-3549.

- 467 [7] G. Sundheim, G. Bengtsson-Olivecrona, Lipolysis in milk induced by cooling or
- by heparin comparisons of amount of lipoprotein-lipase in the cream fraction
- and degree of lipolysis, J. Dairy Sci. 68 (1985) 589–593.
- 470 https://doi.org/10.3168/jds.S0022-0302(85)80862-6.
- 471 [8] L. Zhang, A. Lookene, G. Wu, G. Olivecrona, Calcium triggers folding of
- lipoprotein lipase into active dimers, J. Biol. Chem. 280 (2005) 42580-42591.
- 473 https://doi.org/10.1074/jbc.M507252200.
- 474 [9] M. Anderson, Inhibition of lipolysis in bovine milk by proteose peptone, J. Dairy
- 475 Res. 48 (1981) 247–252. https://doi.org/10.1017/s002202990002166x.
- 476 [10] P. Cartier, Y. Chilliard, Effects of different skim milk fractions on activity of cow
- milk purified lipoprotein lipase, J. Dairy Sci. 69 (1986) 951–955.
- 478 https://doi.org/10.3168/jds.S0022-0302(86)80486-6.
- [11] G. Sundheim, G. Bengtsson-Olivecrona, Hydrolysis of bovine and caprine milk-
- fat globules by lipoprotein-lipase effects of heparin and of skim milk on lipase
- distribution and on lipolysis, J. Dairy Sci. 70 (1987) 2467–2475.
- https://doi.org/10.3168/jds.S0022-0302(87)80313-2.
- 483 [12] G. Sundheim, G. Bengtsson-Olivecrona, Hydrolysis of bovine-milk fat globules
- by lipoprotein-lipase inhibition by proteins extracted from milk-fat globule-
- 485 membrane, J. Dairy Sci. 70 (1987) 1815–1821.
- 486 https://doi.org/10.3168/jds.S0022-0302(87)80219-9.
- [13] Chilliard, Y., Variations physiologiques des activités lipasiques et de la lipolyse
- spontanée dans les laits de vache, de chèvre et de femme : revue
- bibliographique (suite), Lait. 62 (1982) 126–154.
- 490 https://doi.org/10.1051/lait:1982613-6148.
- 491 [14] M. Delosière, J.A.A. Pires, L. Bernard, I. Cassar-Malek, M. Bonnet, Dataset
- reporting 4654 cow milk proteins listed according to lactation stages and milk
- 493 fractions, Data Brief. 29 (2020) 105105.
- 494 https://doi.org/10.1016/j.dib.2019.105105.
- 495 [15] M. Delosière, J. Pires, L. Bernard, I. Cassar-Malek, M. Bonnet, Milk proteome
- from in silico data aggregation allows the identification of putative biomarkers of
- 497 negative energy balance in dairy cows, Sci. Rep. 9 (2019).
- 498 https://doi.org/10.1038/s41598-019-46142-7.

- [16] C. Hurtaud, L. Bernard, M. Boutinaud, C. Cebo, Feed restriction as a tool for further studies describing the mechanisms underlying lipolysis in milk in dairy cows., Anim. Open Space. (2023).
- [17] W. Shipe, G. Senyk, K. Fountain, Modified copper soap solvent-extraction
 method for measuring free fatty acids in milk, J. Dairy Sci. 63 (1980) 193–198.
 https://doi.org/10.3168/jds.S0022-0302(80)82913-4.
- [18] L. Bernard, J. Rouel, C. Leroux, A. Ferlay, Y. Faulconnier, P. Legrand, Y.
 Chilliard, Mammary Lipid Metabolism and Milk Fatty Acid Secretion in Alpine
 Goats Fed Vegetable Lipids, J. Dairy Sci. 88 (2005) 1478–1489.
 https://doi.org/10.3168/jds.S0022-0302(05)72816-2.
- [19] G. Miranda, L. Bianchi, Z. Krupova, P. Trossat, P. Martin, An improved LC-MS
 method to profile molecular diversity and quantify the six main bovine milk
 proteins, including genetic and splicing variants as well as post-translationally
 modified isoforms, Food Chem. X. 5 (2020) 100080.
 https://doi.org/10.1016/j.fochx.2020.100080.
- [20] N. Kaspric, B. Picard, M. Reichstadt, J. Tournayre, M. Bonnet, ProteINSIDE to
 Easily Investigate Proteomics Data from Ruminants: Application to Mine
 Proteome of Adipose and Muscle Tissues in Bovine Foetuses, Plos One. 10
 (2015). https://doi.org/10.1371/journal.pone.0128086.
- [21] E. Vanbergue, J.L. Peyraud, A. Ferlay, G. Miranda, P. Martin, C. Hurtaud,
 Effects of feeding level, type of forage and milking time on milk lipolytic system
 in dairy cows, Livest. Sci. 217 (2018) 116–126.
 https://doi.org/10.1016/j.livsci.2018.09.019.
- [22] Y. Chilliard, A. Ferlay, J. Rouel, G. Lamberett, A review of nutritional and
 physiological factors affecting goat milk lipid synthesis and lipolysis, J. Dairy Sci.
 86 (2003) 1751–1770. https://doi.org/10.3168/jds.S0022-0302(03)73761-8.
- [23] A. Leduc, S. Le Guillou, L. Bianchi, L.O. Correia, M. Gelé, J. Pires, P. Martin, C.
 Leroux, F. Le Provost, M. Boutinaud, Milk proteins as a feed restriction signature
 indicating the metabolic adaptation of dairy cows, Sci. Rep. 12 (2022) 18886.
 https://doi.org/10.1038/s41598-022-21804-1.
- [24] J. Kurokawa, H. Nagano, O. Ohara, N. Kubota, T. Kadowaki, S. Arai, T.
 Miyazaki, Apoptosis inhibitor of macrophage (AIM) is required for obesity associated recruitment of inflammatory macrophages into adipose tissue, Proc.

- 532 Natl. Acad. Sci. U. S. A. 108 (2011) 12072–12077.
- https://doi.org/10.1073/pnas.1101841108.
- [25] J. Kurokawa, S. Arai, K. Nakashima, H. Nagano, A. Nishijima, K. Miyata, R. Ose,
- M. Mori, N. Kubota, T. Kadowaki, Y. Oike, H. Koga, M. Febbraio, T. Iwanaga, T.
- Miyazaki, Macrophage-derived AIM is endocytosed into adipocytes and
- decreases lipid droplets via inhibition of fatty acid synthase activity, Cell Metab.
- 11 (2010) 479–492. https://doi.org/10.1016/j.cmet.2010.04.013.
- [26] Y. Iwamura, M. Mori, K. Nakashima, T. Mikami, K. Murayama, S. Arai, T.
- Miyazaki, Apoptosis inhibitor of macrophage (AIM) diminishes lipid droplet-
- coating proteins leading to lipolysis in adipocytes, Biochem. Biophys. Res.
- 542 Commun. 422 (2012) 476–481. https://doi.org/10.1016/j.bbrc.2012.05.018.
- [27] L. Bernard, C. Leroux, Y. Chilliard, Expression and Nutritional Regulation of
- Lipogenic Genes in the Ruminant Lactating Mammary Gland, in: Z. Bösze (Ed.),
- Bioact. Compon. Milk, Springer New York, New York, NY, 2008: pp. 67–108.
- 546 https://doi.org/10.1007/978-0-387-74087-4 2.
- [28] E. Alichanidis, A. Michaelidou, Glycoproteins in the heat-stable and acid-stable
- fraction of ovine milk, J. Dairy Res. 57 (1990) 507–515.
- 549 https://doi.org/10.1017/S0022029900029551.
- [29] E. Vanbergue, J.-L. Poulet, J.-L. Peyraud, C. Hurtaud, Cow milk lipolysis
- updates: determining factors and biochemical mechanisms, INRA Prod. Anim.
- 33 (2020) 41–51. https://doi.org/10.20870/productions-animales.2020.33.1.3178.
- [30] C. Kolar, J. Brunner, Proteose-peptone fraction of bovine milk lacteal serum
- components-5 and component-8 casein-associated glycoproteins, J. Dairy Sci.
- 555 53 (1970) 997-. https://doi.org/10.3168/jds.S0022-0302(70)86335-4.
- [31] C. Kolar, J. Brunner, Pproteose-peptone fraction of bovine milk distribution in
- 557 protein system, J. Dairy Sci. 52 (1969) 1541-. https://doi.org/10.3168/jds.S0022-
- 558 0302(69)86789-5.
- [32] A.P. Beigneux, M.M. Weinstein, B.S. Davies, P. Gin, A. Bensadoun, L.G. Fong,
- S.G. Young, GPIHBP1 and lipolysis: an update, Curr. Opin. Lipidol. 20 (2009).
- 561 https://journals.lww.com/co-
- lipidology/Fulltext/2009/06000/GPIHBP1_and_lipolysis__an_update.11.aspx.
- [33] P. Iverius, A. Ostlund-Lingvist, Lipoprotein-lipase from bovine milk Isolation
- procedue, chemical characteriztion, and molecular-weight analysis, J. Biochem.
- 565 Chem. 251 (1976) 7791–7795.

- [34] G. Bengtsson, T. Olivecrona, Acivation of lipoprotein-lipase by apolipoprotein-CII
 Demonstration of an effect of the activator on the binding of the enzyme to
 milk-fat globules, FEBS Lett. 147 (1982) 183–187. https://doi.org/10.1016/0014-
- 569 5793(82)81038-7.
- [35] E.A. Horst, E.J. Mayorga, M. Al-Qaisi, S. Rodriguez-Jimenez, B.M. Goetz, M.A.
- Abeyta, P.J. Gorden, S.K. Kvidera, L.H. Baumgard, Evaluating effects of zinc
- hydroxychloride on biomarkers of inflammation and intestinal integrity during
- feed restriction, J. DAIRY Sci. 103 (2020) 11911–11929.
- 574 https://doi.org/10.3168/jds.2020-18860.
- [36] A. Sarikas, T. Hartmann, Z.-Q. Pan, The cullin protein family, Genome Biol. 12 (2011) 220. https://doi.org/10.1186/gb-2011-12-4-220.
- 577 [37] L. Ding, W. Sun, M. Balaz, A. He, M. Klug, S. Wieland, R. Caiazzo, V. Raverdy,
- F. Pattou, P. Lefebvre, I.J. Lodhi, B. Staels, M. Heim, C. Wolfrum, Peroxisomal
- β-oxidation acts as a sensor for intracellular fatty acids and regulates lipolysis,
- Nat. Metab. 3 (2021) 1648–1661. https://doi.org/10.1038/s42255-021-00489-2.
- 581 [38] X. Wang, H. Wang, B. Xu, D. Huang, C. Nie, L. Pu, G.J.M. Zajac, H. Yan, J.
- Zhao, F. Shi, B.T. Emmer, J. Lu, R. Wang, X. Dong, J. Dai, W. Zhou, C. Wang,
- G. Gao, Y. Wang, C. Willer, X. Lu, Y. Zhu, X.-W. Chen, Receptor-Mediated ER
- Export of Lipoproteins Controls Lipid Homeostasis in Mice and Humans, Cell
- Metab. 33 (2021) 350-366.e7. https://doi.org/10.1016/j.cmet.2020.10.020.
- [39] B.H. Hummer, N.F. de Leeuw, C. Burns, L. Chen, M.S. Joens, B. Hosford, J.A.J.
- Fitzpatrick, C.S. Asensio, HID-1 controls formation of large dense core vesicles
- by influencing cargo sorting and trans-Golgi network acidification, Mol. Biol.
- 589 CELL. 28 (2017) 3870–3880. https://doi.org/10.1091/mbc.E17-08-0491.
- 590 [40] W. Du, M. Zhou, W. Zhao, D. Cheng, L. Wang, J. Lu, E. Song, W. Feng, Y. Xue,
- P. Xu, T. Xu, HID-1 is required for homotypic fusion of immature secretory
- granules during maturation, ELife. 5 (2016) e18134.
- 593 https://doi.org/10.7554/eLife.18134.

Table 1: Morning milk parameters in LL and HL groups.

	LL	HL	SEM	p-val lipolys is	Significa nce of lipolysis	Signific ance of period
Milk yield and gross composition						
Milk yield (kg)	18.5	16.7	0.62	0.031	*	NS
Milk fat content (g secreted)	710.7	611.5	31.8	0.056	NS	NS
Milk protein content (g secreted)	583.4	486.1	24.2	0.0004	***	NS
Milk lactose content (g secreted)	908.1	825.3	31	0.044	*	NS
Somatic Cell Count (x10 ³ /mL)	34.3	33.5	8	0.967	NS	NS
Milk fat characteristics						
Lipolysis (mEq/100g fat)	0.32	0.84	0.09	0.002	**	NS
Lipoprotein Lipase activity (nmol/min/ml)	514.8	744.2	35.7	0.002	**	NS
Milk fat globule diameter (d _{4,3} *) (µm)	3.74	3.65	0.09	0.587	NS	NS
Milk fat globule diameter (d _{3,2} *) (μm)	3.31	3.13	0.07	0.185	NS	NS
Milk fat globule area (S*) (m²)	1.97	2.11	0.05	0.147	NS	NS
Milk proteins characteristics						
Protein content (g/kg)	31.2	29	0.5	0.011	*	NS
Nitrogen content (g/kg)	32.5	30.3	0.5	0.01	**	NS
Non-casein nitrogen (g/kg)	6.4	6	0.1	0.046	*	*
Non-protein nitrogen (g/kg)	1.25	1.32	0.04	0.215	NS	NS
Casein content (g/kg)	26	24.3	0.5	0.008	**	NS
Soluble protein content (g/kg)	5.2	4.7	0.2	0.011	*	NS
Casein/protein ratio (%)	82.8	83.6	0.5	0.054	NS	NS

 $[*]d_{4,3} = \Sigma(N_i \times d_i^4)/\Sigma(N_i \times d_i^3)$

P-values were significant at <0.001 (***); <0.01 (**) and <0.05 (*) NS = not significant

^{*} $d_{3,2} = \Sigma(N_i \times d_i^3)/\Sigma(N_i \times d_i^2)$

^{*}S = $6/(\rho \times d_{3,2})$ (with N_i the number of MFG in diameter class d_i and ρ the density of the particle considered (0.92 for fat))

Table 2: Differentially regulated proteins in HL group compared with LL group from the parametric univariate differential analysis (Diff-A).

Accession	Gene name	Protein name	Raw abundance ratio (HL/LL)	FC	RSD	Adjusted- Pvalue
A0A3Q1M3 L6	Uncharacterized protein	Immunoglobulin heavy constant mu	2.0	1.6	0.262	0.078
A6QNW7	CD5L	CD5 molecule like	3.1	2.2	0.624	0.078
A0A3Q1LR W4	Uncharacterized protein	Immunoglobulin heavy constant mu	2.7	1.9	0.470	0.078
P06394	KRT10	Keratin, type I cytoskeletal 10	2.7	2.1	0.590	0.078
A0A3Q1M1 93	GP2	Glycoprotein 2	2.1	1.7	0.315	0.078
Q32PJ2	APOA4	Apolipoprotein A-IV	5.6	2.9	0.739	0.078
Q2TBI0	LBP	Lipopolysaccharide- binding protein	2.6	1.9	0.521	0.080
E1BM39	CUL9	Cullin 9	0.3	-2.4	0.760	0.099

Table 3: List of 30 proteins from component 1 of sparse multi-level multivariate analysis (sPLS – milk lipolysis) contributing to LL or HL group

		contrib	ance of ution to np1	
Accession	Gene Name	Protein Name	HL	LL
P02663	CSN1S2	Alpha-S2-casein	0.338	
Q03247	APOE	Apolipoprotein E	0.314	
A6QNW7	CD5L	CD5 molecule like	0.313	
Q2TBI0	LBP	Lipopolysaccharide-binding protein	0.242	
P02662	CSN1S1	Alpha-S1-casein	0.231	
A0A3Q1LRW 4	Uncharacterized Uncharacterized	•	0.192	
Q32PJ2	APOA4	Apolipoprotein A-IV	0.140	•
P15497 A0A3Q1LQY	APOA1	Apolipoprotein A-I	0.133	
1	CNTFR	Ciliary neurotrophic factor receptor	0.119	
A0A3Q1M19	3 GP2	Glycoprotein 2	0.105	
Q29S21	KRT7	Keratin, type II cytoskeletal 7	0.099	•
P17697	CLU	Clusterin	0.070	•
P11017	GNB2	Guanine nucleotide-binding protein G	0.065	•
P81265	PIGR	Polymeric immunoglobulin receptor	0.054	•
F1MKU3	BSPRY	B-box and SPRY domain containing Polyunsaturated fatty acid lipoxygenase	0.032	
P27479	ALOX15	ALOX15		-0.378
P31039	SDHA	Succinate dehydrogenase		-0.345
F1N647	FASN	Fatty acid synthase		-0.224
Q28024	GNG12	Guanine nucleotide-binding protein G		-0.214
A7YY49	SURF4	Surfeit locus protein 4		-0.158
A2VDV2	STK38	Serine/threonine-protein kinase 38 Chromosome 17 open reading frame		-0.139
Q08E22	HID1	28 ortholog Broad substrate specificity ATP-binding		-0.120
Q4GZT4	ABCG2	cassette transporter ABCG2		-0.117
E1BPK6	MYO6	Unconventional myosin-VI Cytochrome b-c1 complex subunit 2,		-0.111
P23004	UQCRC2	mitochondrial Ubiquitin-like modifier-activating		-0.076
A3KMV5	UBA1	enzyme 1 Dolichyl-diphosphooligosaccharide		-0.048
A3KN04 A0A3Q1MSN	RPN1	protein glycosyltransferase subunit 1		-0.036
7	COASY	Coenzyme A synthase RAB3 GTPase activating non-catalytic		-0.033
A0A3Q1LTV4 A0A3Q1MFP	4 RAB3GAP2	protein subunit 2 Rab3 GTPase-activating protein		-0.030
2	RAB3GAP1	catalytic subunit		-0.023

Table 4: List of 30 proteins from component 1 of sparse multi-level multivariate analysis (sPLS – LPL activity) contributing to LL or HL group

Accession	Gene name	Protein name	contrib	ance of oution to mp1		
		HL	LL			
A0A3Q1M1						
93	GP2	Glycoprotein 2	0.442			
F1MKU3	BSPRY	B-box and SPRY domain containing	0.305			
P06394	KRT10	Keratin, type I cytoskeletal 10	0.244			
P20072	ANXA7	Annexin A7	0.208			
D. 1.000.1		Myristoylated alanine-rich C-kinase				
P12624	MARCKS	substrate	0.191	•		
A6QNW7	CD5L	CD5 molecule like	0.164	•		
E1B749	SLC5A9	Solute carrier family 5 member 9 Sodium- and chloride-dependent creatine	0.147	•		
O18875	SLC6A8	transporter 1	0.126			
A0A3Q1M3 L6	Uncharacterized protein	Immunoglobulin heavy constant mu	0.106			
Q9XSG3	IDH1	Isocitrate dehydrogenase	0.104	•		
Q29S21	KRT7	, ,	0.104	•		
E1BEH7	TC2N	Keratin, type II cytoskeletal 7	0.079	•		
A0A3Q1LQ	TCZN	Tandem C2 domains, nuclear	0.079	•		
Y1	CNTFR	Ciliary neurotrophic factor receptor Alkaline phosphatase, tissue-nonspecific	0.063			
P09487	ALPL	isozyme	0.056			
Q32LM0	SH3GLB1	Endophilin-B1	0.046			
Q1RMU4	ERLIN2	Erlin-2	0.036			
P81125	NAPA	Alpha-soluble NSF attachment protein Chromosome 17 open reading frame 28	0.015			
Q08E22	HID1	ortholog		-0.344		
A5D9A8	SQLE	Squalene monooxygenase		-0.327		
E1BM39	CUL9	Cullin 9		-0.275		
F1MUP9	VAT1	Vesicle amine transport 1		-0.271		
Q2HJ97	PHB2	Prohibitin-2		-0.215		
F1MEX9	ACSL3	Acyl-CoA synthetase long chain family member 3		-0.136		
A0A3Q1LV G9	NDRG4	NDRG family member 4		-0.100		
A0A3Q1LM J5	ATP13A3	ATPase 13A3		-0.083		
Q71SP7	FASN	Fatty acid synthase		-0.081		
F1N545	ANKRD13A	Ankyrin repeat domain 13A	· -	-0.032		
P63009	AP2B1	AP-2 complex subunit beta	•	-0.020		
Q1RMP9	CMTM8	CKLF-like MARVEL transmembrane domain-containing protein 8		-0.018		
A7YY49	SURF4	Surfeit locus protein 4		-0.010		

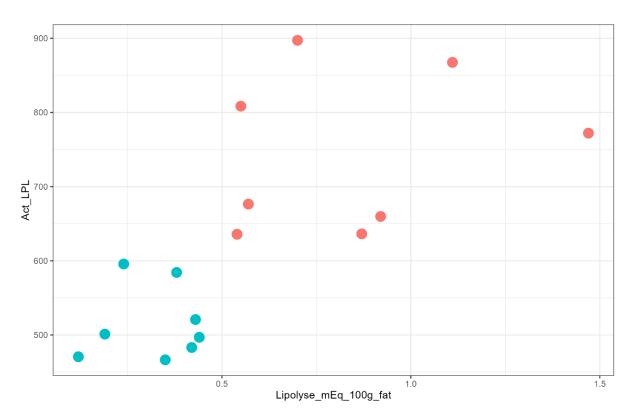


Figure 1: Plot regression between lipolysis (mEq/100g of fat) and LPL activity in milk (nmol/mn/ml). Blue dots are from LL group and red dots are from HL group.

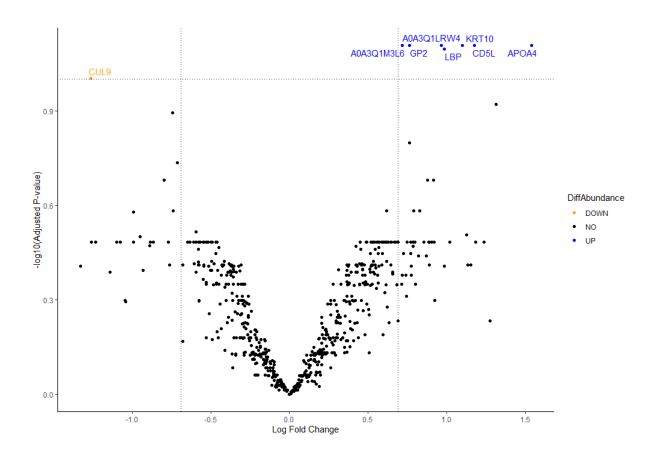


Figure 2: Volcano plot displays log fold changes on the x-axis versus a measure of statistical significance (Adjusted P-value) on the y-axis from the parametric univariate differential analysis (Diff-A). Gene Name of proteins with a higher abundance in HL than LL group are in blue. Gene Name of proteins with a lower abundance in HL than in LL group are in orange.

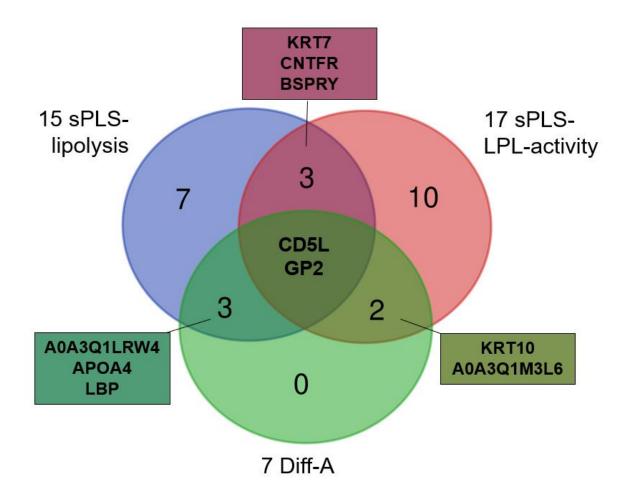


Figure 3: Venn diagram comparing proteins lists addressing HL group from sPLS-lipolysis (n=15), sPLS-LPL-activity (n=17) and differential analysis (n=7).

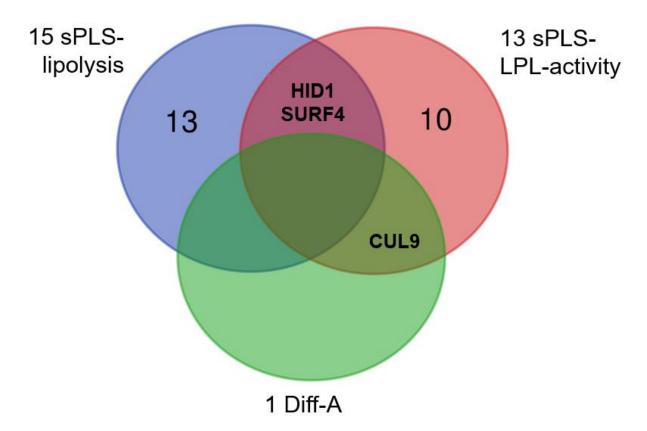


Figure 4: Venn diagram comparing proteins lists addressing LL group from sPLS-lipolysis (n=15), sPLS-LPL-activity (n=13) and differential analysis (n=1).

Supplementary Table S1: Dry matter, protein and energy intakes, energy balance and efficiency of protein digestible in intestine for LL and HL groups of cows

	LL	HL	SEM	p-val lipolysis	Signifi cance of lipolysi s	Signific ance of period
DMI (kg/d)	21,1	15,8	0,8	0,000	***	NS
PDI* (g/d)	1761,6	1306,1	74,9	0,000	***	NS
NEL requirements (MJ/d)	19,69	17,56	0,65	0,016	*	NS
PDI efficiency**	0,83	0,84	0,01	0,023	*	**
NEL balance (MJ/kg DM)	-5,7	-21,9	2,8	0,003	**	NS

^{*}PDI = protein digestible in the intestine (INRA, 2018)

^{**}PDI efficiency = $(67,5-0,52 \times (PDI-100) + 0,014 \times (MilkProteins-1000))/100 (INRA, 2018)$

Pentide Unique Confider Max fold mean c2 LL Accession ce score Anova (p) g Value change condition ondition Mass Description c8 HL c6 HL c5 HL c3 HL c4 HI c1 HL c7 HL c2 HL c8 LL c6 LI c5 LL c3 LL c4 LL c1 LL c7 LL Power A0A3Q1M3L6|A0A3Q1M3L 288.6 0.00015 0.07954 2.20488 0.99405 HL LL 40450 Uncharacterized protein OS=Bos taurus OX=9913 PE=1 SV=1 P81265|PIGR BOVIN;F1MR 0,00033 775.38 0.07954 2.37159 0.98556 82383 Polymeric immunoglobulin receptor OS=Bos taurus OX=9913 GN=PIGR PE E1BM39 | E1BM39 BOVIN 160.76 0.00048 0.07954 4.08048 0.97886 HL 280394 Cullin 9 OS=Bos taurus OX=9913 GN=CUL9 PE=3 SV=3 A5D9A81A5D9A8 BOVIN 234.75 0.00055 0.07954 2.7695 0.97575 HL 63520 Squalene epoxidase OS=Bos taurus OX=9913 GN=SQLE PE=2 SV=1 A6QNW7|A6QNW7 BOVII 75,41 3,25975 LL CD5 molecule like OS=Bos taurus OX=9913 GN=CD5L PE=2 SV=1 P62935 | PPIA BOVIN; G3X8 HL Peptidyl-prolyl cis-trans isomerase A OS=Bos taurus OX=9913 GN=PPIA PE 0.00078 0.07954 2.21171 Chromosome 17 open reading frame 28 ortholog OS=Bos taurus OX=9913 A0A3Q1LRW4|A0A3Q1LRW LL Uncharacterized protein OS=Bos taurus OX=9913 PE=1 SV=1 219,5 0.00085 0.07954 2.97963 0.96359 A6ONZ7 LA6ONZ7 BOVIN: AI 749.45 0.00097 0.08093 2.95267 0.9589 LL 54816 Keratin 10 (Epidermolytic hyperkeratosis; keratosis palmaris et plantaris) (O148141O14814 ROVIN: 404 738 23 0.00273 0.18811 1 6784 0.90436 н RABZA member RAS oncogene family OS=Ros taurus OX=9913 GN=RABZ F1BNW4|F1BNW4 BOVIN 260.94 0.00275 0.18811 1.61707 0.90393 Transmembrane channel-like protein OS=Bos taurus OX=9913 GN=TMC4 F A0A3O1M1931A0A3O1M19 174.07 0.00307 0.19262 2.89491 0.8958 Glycoprotein 2 OS=Bos taurus OX=9913 GN=GP2 PE=1 SV=1 Lipopolysaccharide-binding protein OS=Bos taurus OX=9913 GN=LBP PE=4 A0A3Q1LKB0|A0A3Q1LKB0 66.75 0.20491 3.14467 0.88234 LL 0.00364 Q3ZC65 | Q3ZC65 BOVIN 543.39 0.00411 0.20491 1.49189 0.87194 HL 45783 AUP1, lipid droplet regulating VLDL assembly factor OS=Bos taurus OX=99 Q28024|GBG12 BOVIN 0,00436 0,20491 1,66504 HL Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12 OS: 168,18 0,86675 A0A3Q1MB37|A0A3Q1MB3 0.00622 0.24533 1.92418 AcvI-CoA synthetase short chain family member 2 OS=Bos taurus OX=9913 P094871PPBT BOVIN 0.00634 2.15142 LL Alkaline phosphatase, tissue-nonspecific isozyme OS=Bos taurus OX=9913 A0A3Q1MEI7 | A0A3Q1MEI7 258,92 0.00652 0,24533 1.87271 0.82648 52267 Presenilin OS=Bos taurus OX=9913 GN=PSEN1 PE=3 SV= A0A3Q1MKC8|A0A3Q1MK0 244 33 0.00757 0.26146 1 81176 0 80978 LL 50852 Keratin, type II cytoskeletal 7 OS=Bos taurus OX=9913 GN=KRT7 PE=1 SV= Δ0Δ3Ω11ΩΥ1 ΙΔ0Δ3Ω11ΩΥ1 395 17 0.00902 0.26146 1.88002 0.78854 42982 Ciliary neurotrophic factor receptor OS=Bos taurus OX=9913 GN=CNTFR P A0A301M3N01A0A301M3I 574.94 0.00955 0.26146 4.76744 0.78136 LL Applipoprotein A-IV OS=Bos taurus OX=9913 GN=APOA4 PF=3 SV=1 F1MH40|F1MH40 BOVIN 134 93 0.01004 0.26146 2.05909 0 77494 LL 26318 Uncharacterized protein OS=Bos taurus OX=9913 PE=1 SV=2 A8YXY3|SEP15 BOVIN 145.18 0.01054 0.26146 1.95847 0.76865 HL 17964 Selenoprotein F OS=Bos taurus OX=9913 GN=SELENOF PE=2 SV=2 P12624 I MARCS BOVI LL 252.76 0.01169 0.26146 2.4378 Myristoylated alanine-rich C-kinase substrate OS=Bos taurus OX=9913 GN G5F601 IG5F601 BOVIN:A0 0.01204 0.26146 1.76434 0.75059 HL 155520 RAB3 GTPase activating non-catalytic protein subunit 2 OS=Bos taurus OX O18875 ISC6A8 BOVIN 220.18 LL Sodium- and chloride-dependent creatine transporter 1 OS=Bos taurus OX A0A3Q1MK38|A0A3Q1MK3 0,01327 0,26266 1,74728 0,73692 Terpene cyclase/mutase family member OS=Bos taurus OX=9913 GN=LSS A0A140T831|A0A140T831 0.01364 0.26312 1.65172 Cystatin-B OS=Bos taurus OX=9913 GN=CSTB PE=3 SV=2 O28065 LC4RPA ROVIN-ADA 182 09 0.01423 0.26366 3.87951 0.72686 68841 C4b-binding protein alpha chain OS=Bos taurus OX=9913 GN=C4BPA PE=2 A0A3011MI51A0A3011MI5 638.27 0.01437 0.26366 1.69107 0.72537 HL 141962 Cation-transporting ATPase OS=Bos taurus OX=9913 GN=ATP13A3 PE=3 SI A0A140T897 | A0A140T897 0.01599 0.27168 1.86065 0.70953 П 69278 Serum albumin OS=Bos taurus OX=9913 GN=AI B PF=4 SV=1 391.07 G5E6N4 | G5E6N4 BOVIN 102.95 0.01654 0.27168 1.74547 0.70431 HL Palmitovltransferase OS=Bos taurus OX=9913 GN=ZDHHC18 PE=3 SV=2 A0A3Q1MJK0|A0A3Q1MJK0 450.07 0.0171 0.27168 1.41322 0.69928 HL 49429 FAS-associated factor 2 OS=Bos taurus OX=9913 GN=FAF2 PE=4 SV=1 HL 274380 Fatty acid synthase OS=Bos taurus OX=9913 GN=FASN PE=2 SV=1 Q71SP7|FAS BOVIN 0,01812 0.2779 2.2421 0.69025 1.88811 HL Uncharacterized protein OS=Bos taurus OX=9913 GN=SEC22B PE=3 SV=1 A0A3Q1MMA1|A0A3Q1MI 0.66801 A0A140T898|A0A140T898 1.66827 Ras-related protein Rab-13 OS=Bos taurus OX=9913 GN=RAB13 PE=4 SV=1 373.85 0.02149 0.298 0.6628 HL A0A3Q1MD79|A0A3Q1MD 0,02239 1,71259 0,6561 HL Phosphatidylinositide phosphatase SAC1 OS=Bos taurus OX=9913 GN=SA LL A0A3S5ZPG91A0A3S5ZPG9 486.29 0.02245 0.298 1 89159 0.65564 35661 Mucin-15 OS=Bos taurus OX=9913 GN=MUC15 PE=4 SV=1 HL Ankyrin repeat domain 22 OS=Bos taurus OX=9913 GN=ANKRD22 PE=4 SV ΔΠΔ3557ΡΙ3 Ι ΔΠΔ3557ΡΙ3 ΙΡ 327 77 0.02315 0.298 2.09506 0.65051 A0A3O1M8R71A0A3O1M8F 234.45 0.02318 0.298 2.18185 0.6503 Secretory carrier-associated membrane protein OS=Bos taurus OX=9913 (P02662 | CASA1 BOVIN: A0A 750.39 0.02367 0.298 1.77243 0.64681 LL Alpha-S1-casein OS=Bos taurus OX=9913 GN=CSN1S1 PE=1 SV=2 A0A3Q1MJL8|A0A3Q1MJL8 92.22 0.02386 0.298 2.65977 0.64543 HL Serine/threonine kinase 26 OS=Bos taurus OX=9913 GN=STK26 PE=4 SV=1 Q32LG5|REEP6 BOVIN 195,49 0,024 0,298 1,77797 0.64447 HL Receptor expression-enhancing protein 6 OS=Bos taurus OX=9913 GN=REI Q3SZF2|ARF4 BOVIN;A0A3I 498,44 0,02492 0,298 1,62908 0.63807 HL ADP-ribosylation factor 4 OS=Bos taurus OX=9913 GN=ARF4 PE=2 SV=3 Fatty acid-binding protein, heart OS=Bos taurus OX=9913 GN=FABP3 PE=1 P10790 | FABPH BOVIN: A0A 755.19 0.02571 0.298 1.78415 0.63277 HL A0A3Q1MV91|A0A3Q1MV LL Fibrinogen gamma-B chain OS=Bos taurus OX=9913 GN=FGG PE=4 SV=1 A0A3S5ZPM3 | A0A3S5ZPM3 174,01 0,0276 0,298 2,01967 LL 6-phosphogluconate dehydrogenase, decarboxylating OS=Bos taurus OX= A0A3Q1LUY5 | A0A3Q1LUY5 144.97 0.02777 1.43399 HL SEC14 like lipid binding 1 OS=Bos taurus OX=9913 GN=SEC14L1 PE=4 SV=1 A0A3O1MFF41A0A3O1MFF 103.64 0.02813 0.298 2.05134 0.61721 HL 83478 MICOS complex subunit MIC60 OS=Bos taurus OX=9913 GN=IMMT PE=1 S P02584 | PROF1 BOVIN: F1BI Profilin-1 OS=Bos taurus OX=9913 GN=PFN1 PE=1 SV=2 141.13 0.02967 0.30377 1.49523 0.60785 HL F1RFH7 F1RFH7 ROVIN 94 88 0.02971 0.30377 2 04497 0.60761 55149 Tandem C2 domains nuclear OS=Ros taurus OX=9913 GN=TC2N PF=4 SV= Δ0Δ3Ω11N781Δ0Δ3Ω11N78 274 86 0.03033 0.30377 1 42582 0.604 HL 41045 Transmembrane protein 1208 OS=Ros taurus OX=9913 GN=TMFM1208 PI A0A140T8A5 | A0A140T8A5 365.48 0.0307 0.30377 1.47475 0.60185 46729 Isocitrate dehydrogenase [NADP] OS=Ros taurus OX=9913 GN=IDH1 PF=1 0.03338 0.31069 LL 41710 Actin, cytoplasmic 1 OS=Bos taurus OX=9913 GN=ACTB PE=1 SV=1 P60712 | ACTB BOVIN: A0A3 854.53 1.50357 0.58683 A0A3Q1LRZ4|A0A3Q1LRZ4 151.09 HL Prohibitin-2 OS=Bos taurus OX=9913 GN=PHB2 PE=1 SV=1 0.03346 0.31069 4.06075 0.58641 0.03403 0.31213 1.45408 Uncharacterized protein OS=Bos taurus OX=9913 GN=ALG1 PE=4 SV=3 F1N2I7|F1N2I7 BOVIN 179.61 0.58336 н F1N272|F1N272 BOVIN:A0 0.31545 1.72305 HL Cation-transporting ATPase OS=Bos taurus OX=9913 GN=ATP13A4 PE=3 SI F1MEX9|F1MEX9 BOVIN:A 0.03713 0.31545 1.75888 80230 AcvI-CoA synthetase long chain family member 3 OS=Bos taurus OX=9913 E1BQ28|E1BQ28 BOVIN 102,56 0.0377 0,31545 1.42062 0.56467 LL Solute carrier family 39 member 8 OS=Bos taurus OX=9913 GN=SLC39A8 404301MEP21404301MEP 0.03873 0.31545 1 64824 0.55968 н 106086 RAB3 GTPase activating protein catalytic subunit 1 OS=Bos taurus OX=991 4043011KR814043011KR8 324 93 0.03883 0.31545 1 41489 0 55923 HL 129371 Ubiquitin-like modifier-activating enzyme 1 OS=Bos taurus OX=9913 GN=L A0A301MDS41A0A301MD5 165.74 0.03889 0.31545 1.53487 0.55904 н 24372 RAB3D, member RAS oncogene family OS=Bos taurus OX=9913 GN=RAB3I F1MDT61F1MDT6_BOVIN:A 1250.29 0.03957 0.31545 1.69271 0.55571 HL Glycerol-3-phosphate acyltransferase 1. mitochondrial OS=Bos taurus OX= G5E513 | G5E513 | BOVIN:A0 903.27 0.04024 0.31545 1 57968 0.55261 LL Uncharacterized protein OS=Bos taurus OX=9913 PE=1 SV=2 HL 126176 Diacylglycerol kinase OS=Bos taurus OX=9913 GN=DGKD PE=3 SV=1 A0A3Q1M4U6|A0A3Q1M4I 229.43 0.04045 0.31545 1.74992 0.55162 Q2YDM1|ARL1 BOVIN 144.45 0.04096 0.31545 2.07733 0.54932 HL 20414 ADP-ribosylation factor-like protein 1 OS=Bos taurus OX=9913 GN=ARL1 F A0A3Q1LSB2|A0A3Q1LSB2 Translocon-associated protein subunit delta OS=Bos taurus OX=9913 GN= F1MKU3|F1MKU3 BOVIN 0.04183 0.31545 1.86188 LL B-box and SPRY domain containing OS=Bos taurus OX=9913 GN=BSPRY PE Uncharacterized protein OS=Bos taurus OX=9913 PE=1 SV=2 Q3SYS61CHP1 BOVIN:A0A3 597.41 0.04224 0.31545 1 76324 0.54356 HL Calcineurin B homologous protein 1 OS=Bos taurus OX=9913 GN=CHP1 PE Q3ZC78|CR032 BOVIN HL 108 13 0.04495 0.32283 1.66762 0.53185 UPF0729 protein C18orf32 homolog OS=Bos taurus OX=9913 PE=3 SV=1 O3SZN81O3SZN8 BOVIN:H 0.04532 0.32283 1.42321 0.53032 HL Ribonuclease/angiogenin inhibitor 1 OS=Bos taurus OX=9913 GN=RNH1 P 296.08 G3N0V2 I G3N0V2 BOVIN:A 387 79 0.04533 0.32283 1 68641 0.53026 LL Keratin 1 OS=Bos taurus OX=9913 GN=KRT1 PE=1 SV=2 P63243 | RACK1 BOVIN: AOA 152.79 0.0455 0.32283 1.5281 0.52957 HL 35055 Receptor of activated protein C kinase 1 OS=Bos taurus OX=9913 GN=RAC HL A0A3Q1LNU8|A0A3Q1LNU8 154.11 0.04843 0.33291 1.51473 0.51774 Extended synaptotagmin 2 OS=Bos taurus OX=9913 GN=ESYT2 PE=1 SV=1 A0A3Q1MAC3|A0A3Q1MAG 315.68 0.04857 0.33291 0.51717 HL 21128 Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=1 LL P26201 | CD36_BOVIN; F1ML 403.37 0.04937 0.33291 1.47563 Platelet glycoprotein 4 OS=Bos taurus OX=9913 GN=CD36 PE=1 SV=5 A5D7J6|A5D7J6 BOVIN;F1N Calreticulin OS=Bos taurus OX=9913 GN=CALR PE=2 SV= LL HL A0JN431A0JN43 BOVIN 0.05169 0.33291 1 52909 0.50526 Extended synaptotagmin 1 OS=Bos taurus OX=9913 GN=ESYT1 PE=1 SV=1 690853813 1158483830 Q4GZT4|ABCG2 BOVIN:B2D 1410.17 0.05169 0.33291 1 47123 0 50526 72678 Broad substrate specificity ATP-binding cassette transporter ABCG2 OS=Bo A0A3O11SB71A0A3O11SB7 322.76 0.05187 0.33291 1.87249 0.50462 HL Peptidyl-prolyl cis-trans isomerase OS=Bos taurus OX=9913 PE=3 SV=1 P11017 | GBB2 BOVIN: P628 314.97 0.05289 0.33291 1.3003 0.50087 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 OS=Bos t E1BFV0|E1BFV0 BOVIN 122.89 0.0529 0.33291 1.50944 0.50083 HL Karvopherin subunit beta 1 OS=Bos taurus OX=9913 GN=KPNB1 PE=1 SV=2 P02663 | CASA2 BOVIN 416,35 0,05294 0,33291 1,7973 0.50069 LL Alpha-S2-casein OS=Bos taurus OX=9913 GN=CSN1S2 PE=1 SV=2 A4IFU2 | A4IFU2 BOVIN 192.12 0.05375 0.33291 1.52231 0.49776 н RAP2B protein OS=Bos taurus OX=9913 GN=RAP2B PF=2 SV=1 P17697 I CLUS BOVIN LL Clusterin OS=Bos taurus OX=9913 GN=CLU PE=1 SV=1 313.79 0.05411 0.33291 2.04547 0.49646 Q3ZCK2|Q3ZCK2 BOVI 190,88 0,05666 0,33822 1,4665 HL RAS like proto-oncogene A OS=Bos taurus OX=9913 GN=RALA PE=2 SV=1 F1MIU3|F1MIU3 BOVIN 0,34034 1,52192 LL Transmembrane channel-like protein OS=Bos taurus OX=9913 GN=TMC5 Q08DW1|Q08DW1_BOVIN 0.0597 0.34841 1.55728 0.47743 22895 RAB9A, member RAS oncogene family OS=Bos taurus OX=9913 GN=RAB9. A2VDV2|STK38 BOVIN;A0A 182,43 0,06027 0.3487 1.42473 HL Serine/threonine-protein kinase 38 OS=Bos taurus OX=9913 GN=STK38 PE P61356|RL27 BOVIN 159,44 0,06189 0,35191 1,7418 0,47043 15788 60S ribosomal protein L27 OS=Bos taurus OX=9913 GN=RPL27 PE=2 SV=2

Highest Lowest

A0A3Q1LUS2 A0A3Q1LUS2	4	4	383,58	.,	0,35191	,	.,	HL	LL	55488	Annexin OS=Bos taurus OX=9913 GN=ANXA7 PE=1 SV=1	1529932	1369942	1369675	1447517	1518536	1217346	1548335	1860894	1173251	454663	600472	1114488	1390209	1271622	1225384	790708
A0A3Q1LVG9 A0A3Q1LVG9	2	2	121,4	0,06335	-,	2,58146	-,	LL	HL	44909	NDRG family member 4 OS=Bos taurus OX=9913 GN=NDRG4 PE=4 SV=1	101213	103263	31975	703719	46246	206094	49559	92051	61904	905120	484582	840211	119490	163691	141667	447577
F1MLB8 F1MLB8_BOVIN;P1 A0A3Q1LYB4 A0A3Q1LYB4	6	6	581,16 372,76	0,06364	0,35191	1,81508 1,36006	0,465 0,46052	LL HL	HL LL	59653 37563	ATP synthase subunit alpha OS=Bos taurus OX=9913 GN=ATP5F1A PE=1 SV Syntaxin 3 OS=Bos taurus OX=9913 GN=STX3 PE=3 SV=1	121706 7210758	177294 7375898	261886 8748547	1711626 5303185	1653075 5933924	253816 9480739	471179 10677219	1258790 8954598	300185 4475666	1879162 762761	858949 1912742	1253484 5025278	1213581 8691792	782053 9591049	1383566 9093376	3598483 4678745
F1N1I6 F1N1I6 BOVIN;AOA	8	8	494.54	0.06583	0,35239	1,46587	0,46032	HL	LL	92027	Gelsolin OS=Bos taurus OX=9913 GN=GSN PE=1 SV=2	2067625	2999108	1296172	1043635	2821905	2544757	3860350	2576334	2307605	336645	697902	1130886	2563257	1799801	3296721	991957
E1BM93 E1BM93 BOVIN	3	3	236,14	0,0661	0,35239	1,5496	0,45757	LL	HL	37783	Retinol dehydrogenase 11 OS=Bos taurus OX=9913 GN=RDH11 PE=3 SV=2	1043871	589269	729724	392841	839921	744151	1271219	948898	872171	1193689	871779	505683	1876601	873333	1063431	1885348
F1MXE4 F1MXE4_BOVIN	2	2	151,91	0,06969	0,35654	1,71274	0,44722	HL	LL	45562	26S proteasome non-ATPase regulatory subunit 6 OS=Bos taurus OX=9913	40571	87417	34102	17438	183269	100301	108902	289243	78429	30111	2598	8830	69989	55934	230717	83966
F2Z4I1 F2Z4I1_BOVIN;A0A3	8	8	498,18	0,0707	0,35771	1,57195	0,4444	LL	HL	20467	GTP-binding protein Rheb OS=Bos taurus OX=9913 GN=RHEB PE=4 SV=1	2380743	1437415	2265168	1667086	1701305	2230678	3003353	3087500	1801138	1465418	2733390	2349452	3889256	4033726	5235709	3496704
A0A3Q1LRL7 A0A3Q1LRL7_	2	2	148,23	0,07171	0,35823	1,55363	0,4416	LL	HL	58225	Xylulose kinase OS=Bos taurus OX=9913 GN=XYLB PE=1 SV=1	53699	140234	47949	222436	140691	62876	50632	111240	117543	344329	175150	125250	98612	51628	109363	177452
Q7YRW9 Q7YRW9_BOVIN A0A3Q1LYE7 A0A3Q1LYE7	6	3	113,23 478.43	0,07233	0,35823	1,58128	0,43991	II.	HL HL	22381	Reticulon OS=Bos taurus OX=9913 GN=RTN4 PE=1 SV=2 RAB1A, member RAS oncogene family OS=Bos taurus OX=9913 GN=RAB1/	247792 14940887	124823 9712159	295099 7951142	113434 10677674	316306 12095728	219166 12704576	240349 17995602	469420 14063890	287262 11940108	476120 29309739	323432 19392814	196951 16287263	408224 14941060	389383 10903186	460577 15066166	520065 38407563
A7YY49 SURF4 BOVIN;F1Ni	2	2	112.26	0.0747	.,	1.29762	-,	LL	HL	30402	Surfeit locus protein 4 OS=Bos taurus OX=9913 GN=SURF4 PE=2 SV=1	117251	119801	176909	221837	301517	242422	176613	508244	263762	470282	507171	485828	348935	224167	317948	368502
A0A3Q1MWL7 A0A3Q1MW	3	3	128,76	0,07518	0,36263	1,57695	0,43231	HL	LL	148220	DENN domain containing 3 OS=Bos taurus OX=9913 GN=DENND3 PE=4 SV	39488	70264	110654	12484	116151	89540	81965	134694	67434	4160	36761	19186	95669	102169	94591	914
P80195 GLCM1_BOVIN;Q32	10	9	953,3		-,	2,84178	-,	HL	LL	17141	Glycosylation-dependent cell adhesion molecule 1 OS=Bos taurus OX=991:	640784409	242453861	86826587	87166125	53667656	77562767	586199525	44722289	63050707	23829553	27257874	22508319	145525320	128982789	68494225	69182238
A0A3Q1LUE9 A0A3Q1LUE9	2	2	123,14	.,.	0,36263	1,46781	-,	HL	LL	16698	Ig-like domain-containing protein OS=Bos taurus OX=9913 PE=1 SV=1	2644865	754844	853854	2186592	1657844	1675448	1209995	2546179	379475	453927	310222	707284	2832810	1937601	1542230	449475
Q6WCD5 Q6WCD5_BOVIN A0A498UZ20 A0A498UZ20	4	4 2	174,38 135,02	0,07733	0,36263	1,678 1,36614	0,42676 0.42479	LL	HL HL	95954 148566	Toll-like receptor 4 OS=Bos taurus OX=9913 GN=TLR4 PE=2 SV=1 Unconventional myosin-VI OS=Bos taurus OX=9913 GN=MYO6 PE=3 SV=1	160478 10037	183403 36362	228006 51343	106237 38681	250525 126248	174774 38441	127766 84672	260131 73291	460603 68853	507700 51807	965086 135122	372129 52344	96261 74541	262055 66021	256146 83872	220370 52634
Q08DN8 FLOT1_BOVIN	6	6	445.71	0.07859	0.36263	1,32567	.,	HL	LL	47324	Flotillin-1 OS=Bos taurus OX=9913 GN=FLOT1 PE=2 SV=1	2196855	2122085	1457094	1257120	1118278	1964580	2694993	905866	1196429	688761	1503148	1176841	1525996	2426115	843140	1237744
F6R1D7 F6R1D7 BOVIN	5	5	152,16	0,08001	0,36482	1,38467		HL	LL	35020	Family with sequence similarity 84 member B OS=Bos taurus OX=9913 GN:	404112	425610	588836	316533	398223	338138	300993	476470	357354	57484	160508	285475	342439	375874	517911	161509
A0A3Q1LN63 A0A3Q1LN63	2	2	116,56	0,08113	0,36482	2,75765	0,41732	HL	LL	45688	Leukocyte elastase inhibitor OS=Bos taurus OX=9913 GN=SERPINB1 PE=1 5	120431	204428	38950	23599	197351	67724	779375	104698	62872	90506	43994	56616	92014	24480	81284	55039
A0A3Q1M9B5 A0A3Q1M9E	2	2	97,06	0,08154	0,36482	2,2036	0,41632	LL	HL	139145	High density lipoprotein binding protein OS=Bos taurus OX=9913 GN=HDLE	1569	8500	21257	27533	77523	11207	1087	47539	87557	217640	43219	27968	39762	23359	27224	14275
E1BAIO E1BAIO BOVIN	2	2	118,44	0,08198	0,36482	1,38786	0,41526	LL	HL	26648	RAB23, member RAS oncogene family OS=Bos taurus OX=9913 GN=RAB23	500542	101029	212222	93537	199398	250073	709665	291320	187317	323184	498487	221829	507317	233977	259495	699311
Q9BGI1 PRDX5_BOVIN Q6B855 TKT BOVIN	3	4	106,61 124.92	0,08405	0,36874	1,5111	0,41034	LL HL	HL	23238 67863	Peroxiredoxin-5, mitochondrial OS=Bos taurus OX=9913 GN=PRDX5 PE=2 : Transketolase OS=Bos taurus OX=9913 GN=TKT PE=2 SV=1	340574 209182	227004 292677	258731 129892	68562 123294	246892 384939	166897 214666	436131 305124	431683 183141	373428 229630	296688 17514	230150 26791	161448 150783	569433 232777	609873 166914	541697 239208	333361 55588
F1N545 F1N545 BOVIN	4	4	278.28	0.08641	0.37349	1.59042	0.40488	II.	HL	67456	Ankvrin repeat domain 13A OS=Bos taurus OX=9913 GN=ANKRD13A PE=4	519344	581017	378113	893732	462972	448416	409824	506996	571214	1675867	1735123	1140098	331211	507913	472645	859738
A0A452DIL6 A0A452DIL6_B	5	5	368,72	0,08732	0,37391	1,7632	0,40282	HL	LL	60941	Glypican-1 OS=Bos taurus OX=9913 GN=GPC1 PE=3 SV=1	485916	473572	372440	272496	388935	368220	867623	816994	309868	249384	378606	101973	552167	83227	284686	108966
Q5EA55 GOGA7_BOVIN	4	4	221,82	0,08814	0,37391	1,54744	0,40096	LL	HL	15814	Golgin subfamily A member 7 OS=Bos taurus OX=9913 GN=GOLGA7 PE=2	947646	666227	852003	845599	811846	702891	1238811	1259535	1011604	694390	732416	863795	1571765	1676718	2158893	1539000
A0A3Q1NJP7 A0A3Q1NJP7	2	2	72,63	0,08981	0,37458	1,50297	0,39726	HL	LL	26672	Ras-related protein Rab-26 OS=Bos taurus OX=9913 GN=RAB26 PE=4 SV=1	161174	235850	125151	20896	125027	63844	209473	149828	149754	37753	10110	32979	215039	67056	177152	27039
A0A3Q1M253 A0A3Q1M25	2	2	82,96	0,09015	0,37458	1,47822	.,	LL	HL	53686	DENN domain containing 2D OS=Bos taurus OX=9913 GN=DENND2D PE=4	71074	153783	154501	120902	220772	176421	117990	149413	167737	537824	307252	169354	147686	159115	169426	101026
Q3SZ01 SH3Y1_BOVIN Q0VCI2 STX19 BOVIN	6	2 6	77,72 603.36	0,09124	0,37585 0,37585	1,48751	0,39415	LL HL	HL LL	37042 33868	SH3 domain-containing YSC84-like protein 1 OS=Bos taurus OX=9913 GN=: Syntaxin-19 OS=Bos taurus OX=9913 GN=STX19 PE=2 SV=1	907923 3828347	562947 2366125	427045 2439429	1039315 1141314	437571 1909137	604473 3221951	958450 2981171	426234 3060404	548349 1339322	1378049 864736	818808 912557	1371408 905172	542812 2116524	349999 3300412	675506 3194500	1293101 864374
Q3SX32 Q3SX32 BOVIN	10	10	816.26	0.09209	0.37585	1.61157	0.39233	HL	LL	47573	Perilipin OS=Bos taurus OX=9913 GN=PLIN3 PE=2 SV=1	32280411	33982030	28701724	9481570	10800805	16603809	44578771	7996695	14203313	9171467	11643365	13055652	11915010	16573889	12481725	9936007
G5E6P3 G5E6P3_BOVIN	10	9	640,36	0,09373	0,379	1,31273	0,38883	HL	LL	43919	G protein subunit alpha 13 OS=Bos taurus OX=9913 GN=GNA13 PE=4 SV=2	16278876	14217482	17257914	7165632	10600935	13524458	14913602	16412466	8966526	3695555	5116959	5128256	14166120	20774540	16737467	5923403
Q0VBZ9 MRP_BOVIN	3	3	222,11	0,09794	0,3859	1,48599	0,38017	HL	LL	19813	MARCKS-related protein OS=Bos taurus OX=9913 GN=MARCKSL1 PE=2 SV:	289266	349559	265223	45403	205010	302786	158752	172783	384397	11158	73272	28886	54641	483383	215261	38605
A0A3Q1MG04 A0A3Q1MG0	4	4	243,56	0,098	0,3859	2,34136	0,38006	HL	LL	57430	Fibrinogen beta chain OS=Bos taurus OX=9913 GN=FGB PE=4 SV=1	1034499	823341	843464	122246	129581	343169	3461117	540492	132729	905105	1546809	73612	237632	65796	225215	414569
F6RWD2 F6RWD2_BOVIN	2	2	169,44	0,098	0,3859	2,24956 1,43056	0,38004	LL	HL	38573 34795	Alkyl transferase OS=Bos taurus OX=9913 GN=DHDDS PE=3 SV=1	276697	291111	358534 2746430	758436	290931	517221	95986	312007	454158	3285128	1374270	820556 805641	99453	359121	301906 5890834	1224345
Q0II59 PDXK_BOVIN A0A3Q1M3X3 A0A3Q1M3X	2	2	260,54 70.6	0,10091	0,391	1,43056	0,37429	HL	LL LL	23663	Pyridoxal kinase OS=Bos taurus OX=9913 GN=PDXK PE=2 SV=1 Syndecan OS=Bos taurus OX=9913 GN=SDC2 PE=1 SV=1	2457007 455212	3291746 416237	379602	901539 153620	2984866 472827	6988500 621689	6121051 395570	3116123 553437	1390050 248855	199859 52127	350028 146785	137179	5736861 459480	2963651 437595	505045	297865 206585
F1N647 F1N647 BOVIN;A0	46	8	3609,71	0,10279	0,391	1,75919	-,	LL	HL	274236	Fatty acid synthase OS=Bos taurus OX=9913 GN=FASN PE=1 SV=3	6343805	5384548	7994487	2343877	27096882	14995535	7336711	11784053	21894506	16040376	20685331	6017149	39034625	23755405	13152755	4301034
Q3ZBE9 NSDHL_BOVIN	9	9	1159,96	0,10294	0,391	1,3791	0,37037	LL	HL	39877	Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating OS=Bos tau	24169884	19651208	25683347	33739170	23890793	20018493	22542889	16802076	21794291	69614069	58232331	30503505	23097801	20454811	25930674	62497121
E1BCI3 E1BCI3_BOVIN;A0A:	9	9	774,11	0,10586	0,39266	1,30575	.,	HL	LL	67298	Solute carrier family 7 member 4 OS=Bos taurus OX=9913 GN=SLC7A4 PE=	25223615	37964137	19233095	24177642	33556536	20099670	30897255	44699868	21929177	11320834	12385278	18877015	40047583	13762609	38348174	16948873
P23004 QCR2_BOVIN;A0A3	2	2	167,07	0,10631	0,39266	2,03916		LL	HL	48119	Cytochrome b-c1 complex subunit 2, mitochondrial OS=Bos taurus OX=99:	4773	67436	66840	825992	759368	69011	271146	320730	59220	170757	198782	676294	554661	233346	435239	1790133
A0A452DIH7 A0A452DIH7_ A0A140T881 A0A140T881	4	4 7	153,62 519.37	0,10651	0,39266	1,35885		HL HL	LL LL	49449 37400	Tubulin alpha chain OS=Bos taurus OX=9913 GN=TUBA4A PE=3 SV=1 Apolipoprotein E OS=Bos taurus OX=9913 GN=APOE PE=3 SV=2	588859 13748865	1010508 5625880	659014 11954768	440858 4008162	1455352 6083109	932122 4986925	581053 9082569	1325079 3543134	929266 3304198	642424 2604502	484508 3811198	333724 2933654	851406 4229353	949138 5718625	916070 4335363	569602 5019579
A0A3Q1NCJ7 A0A3Q1NCJ7	2	2	265.08	0,10722	0,39557	3.06776	.,	LL	HL	26507	CKLF-like MARVEL transmembrane domain-containing protein 8 OS=Bos ta	88956	226500	106486	1230897	90493	142552	14509	201463	109424	992816	1149724	660626	217536	245108	86556	1732033
A0A3Q1LY46 A0A3Q1LY46	7	7	428,15	0,11022	0,40046	1,43515	0,35694	HL	LL	94070	MICAL like 2 OS=Bos taurus OX=9913 GN=MICALL2 PE=4 SV=1	461981	667860	668829	232350	887124	654627	732247	803946	501466	73383	155746	202138	652964	704707	783146	158252
A0A3Q1MCH3 A0A3Q1MCl	2	2	102,53	0,11189	0,40458	1,32518	0,35399	LL	HL	73937	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondria	2605	19084	11388	18668	187389	13155	53364	77281	38431	57157	34149	55257	97185	26821	107660	110546
F1MHC2 F1MHC2_BOVIN	8	6	483,01	0,11378	0,40943	1,33952	0,35071	HL	LL	66314	Syntaxin binding protein 2 OS=Bos taurus OX=9913 GN=STXBP2 PE=1 SV=1	4054254	4451862	2029059	2235943	5525779	4040743	4022576	5726599	3816512	1870031	2469318	3293017	3772571	2699685	4665076	1877907
A0A3Q1MRF4 A0A3Q1MRF	4	4	316,93	0,11655	0,41544	1,39963	0,346	HL	LL	39532	NAD-dependent protein deacetylase OS=Bos taurus OX=9913 GN=SIRT2 PI	927585	808541	442946	326967	946021	971216	780906	591149	512204	207413	476424	407992	390248	666404	874145	195943
Q2KIV8 Q2KIV8_BOVIN;A0/ F1MHB9 F1MHB9 BOVIN;A	2	5	345,23 159.86	0,11769	0,41752	1,2449	0,34409	LL	HL	26832 47669	Glutathione S-transferase OS=Bos taurus OX=9913 GN=GSTM3 PE=1 SV=1 Inositol polyphosphate-5-phosphatase A OS=Bos taurus OX=9913 GN=INPI	1001450 263340	241378 177199	448729 346572	741248 131277	415349 256275	623578 309077	1122663 126440	857684 251518	840941 165220	856641 42903	1092684 73364	1049478 146188	615509 161345	945031 219791	756688 306783	1053648 59743
A0A3Q1N308 A0A3Q1N308	10	10	757.45	0,11074	0.41885	1,41525	0,34256	HL	LL	53001	Methanethiol oxidase OS=Bos taurus OX=9913 GN=SELENBP1 PE=1 SV=1	9776895	9926574	2229867	2421743	5058559	4492427	7252831	4191776	6995236	5803778	1650338	4012829	3825984	5565690	3687680	2685111
A0A3Q1LFK0 A0A3Q1LFK0_	2	2	181,49	0,12008	0,42003	1,24227	0,34018	HL	LL	61138	Amino acid transporter OS=Bos taurus OX=9913 GN=SLC1A2 PE=3 SV=1	126469	173714	173607	110825	128950	152462	87946	333202	75749	21611	15576	133320	195029	83482	373810	24703
A7MB21 A7MB21_BOVIN	3	3	196,88	0,12193	0,42045	1,37553	0,33719	LL	HL	77824	FERMT2 protein OS=Bos taurus OX=9913 GN=FERMT2 PE=1 SV=1	137698	103452	173493	90886	231851	145494	78517	198122	382541	205859	161746	259707	109718	77886	186520	215702
A5PKG9 A5PKG9_BOVIN;AC	12	10	908,72	0,12254	0,42045	1,33443		LL	HL	59294	Tyrosine-protein kinase OS=Bos taurus OX=9913 GN=FGR PE=2 SV=1	6120610	6952135	14187891	4223641	8837368	6616310	6258043	6470083	10597130	3086429	11640203	7783530	11323497	10172703	10674532	7125732
P63097 GNAI1_BOVIN	5 10	3 10	427,18	0,12426	0,42045	1,82599	0,3335	LL LL	HL HI	40335 75076	Guanine nucleotide-binding protein G(i) subunit alpha-1 OS=Bos taurus OX	323860 2174792	521368 3930796	445607 2009879	1418556 2387425	589757 3515277	1520796 1685146	299026 2235020	574647 2622905	442257 5264626	2789335 6948884	2197748 3977529	1495118 3661055	340110 4588021	461961	541464 2218614	2243657 1642964
P27479 LOX15_BOVIN G3MYK6 G3MYK6 BOVIN:C	3	3	495,72 208.67	0,12477	0,42045	1,43529	0.33271	LL	HL	25005	Arachidonate 15-lipoxygenase OS=Bos taurus OX=9913 GN=ALOX15 PE=1 Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=1	163480	35747	432674	2387425	143187	148825	347343	248590	97579	206411	111021	331300	281348	2411678 879576	634679	606779
Q5EA19 ARL15 BOVIN;G8JI	4	4	224,62	0,12617	0,42045	1,3642	0,33054	LL	HL	22593	ADP-ribosylation factor-like protein 15 OS=Bos taurus OX=9913 GN=ARL15	2395654	2363790	2027140	1082544	1392692	968736	2620773	1944480	1449870	1176698	1190792	1156246	2642501	2573302	3352329	3053159
Q3ZCA7 Q3ZCA7_BOVIN	6	4	504,93	0,12643	0,42045	1,45012	0,33013	LL	HL	40510	G protein subunit alpha i3 OS=Bos taurus OX=9913 GN=GNAI3 PE=2 SV=1	2368901	1795272	1635343	3885368	1756668	2409988	2240896	2102046	1742458	7942804	4391313	3460764	2575034	2451715	1642277	5029675
P15497 APOA1_BOVIN;A0A	10	10	826,5	0,12734	0,42045	1,56521	0,32874	HL	LL	30258	Apolipoprotein A-I OS=Bos taurus OX=9913 GN=APOA1 PE=1 SV=3	13946364	4838576	3586474	3736069	2879454	4374234	10652807	4682469	1171033	3846005	2186233	1247671	4047976	4922640	4598667	4254443
P06623 CN37_BOVIN	8	8	387,41	0,12797	0,42045	1,41839	.,.	HL	LL	44847	2',3'-cyclic-nucleotide 3'-phosphodiesterase OS=Bos taurus OX=9913 GN=(1253189	1244795	1152208	305209	702365	732093	1021783	511600	1310668	136064	327892	363868	411430	745973	662405	473539
Q5E946 PARK7_BOVIN A0A3Q1LLL1 A0A3Q1LLL1	3	4	129,53 265.99	0,12809	0,42045	1,4524	0,3276	HL	LL LL	20023 49807	Protein/nucleic acid deglycase DJ-1 OS=Bos taurus OX=9913 GN=PARK7 PE Endophilin-B2 OS=Bos taurus OX=9913 GN=SH3GLB2 PE=4 SV=1	525352 252623	221632 348154	84059 316273	240364 114516	254354 293313	377975 583752	1074901 248279	209013 535443	96561 247615	12486 65454	18186 112761	513210 84459	284737 251516	291933 457707	547872 510148	80724 57875
A3KN04 A3KN04 BOVIN	4	4	343.96	0.13202	0.42625	1.64013	-,	11	HL	68310	Dolichyl-diphosphooligosaccharideprotein glycosyltransferase subunit 1 (274628	620148	246058	329935	950186	233800	391650	1272988	999182	2744369	797707	266715	972580	584607	611043	593233
A0A3Q1LVV7 A0A3Q1LVV7	6	6	333,79	0,13313	0,42787	3,61138	0,32012	HL	LL	89796	Fibrinogen alpha chain OS=Bos taurus OX=9913 GN=FGA PE=4 SV=1	1162652	417219	321102	35740	103920	105310	3898346	309869	174584	248729	819838	45557	309395	87625	88467	30952
A0JN39 COPB_BOVIN	2	2	110,51	0,13469	0,42967	1,30904	0,31785	LL	HL	107059	Coatomer subunit beta OS=Bos taurus OX=9913 GN=COPB1 PE=1 SV=1	53475	75970	62219	141463	343005	211898	42397	474038	261164	443788	286956	140645	192208	161167	230789	156607
P68103 EF1A1_BOVIN;E1B9	6	6	614,8	0,13569	0,42967	1,2223	0,31643	HL	LL	50109	Elongation factor 1-alpha 1 OS=Bos taurus OX=9913 GN=EEF1A1 PE=1 SV=	215216457	137618376	120797101	106756877	185143076	158814187	251558921	154729579	125109688	35434343	38072623	96784381	307158946	171739984	162146596	70490490
F1MQV7 F1MQV7_BOVIN Q32LJ4 TPRGL_BOVIN:F6QF	3	3 5	168 478.15	0,13792	0,43109	1,39511	.,	LL LL	HL HL	62281 30284	Non-specific serine/threonine protein kinase OS=Bos taurus OX=9913 GN= Tumor protein p63-regulated gene 1-like protein OS=Bos taurus OX=9913	68197 3546593	79556 2384652	94542 2440162	33251 4004585	166108 1494247	42010 2915596	27763 6128790	86512 2189501	126095 2338464	145019 16351548	86226 6290093	30789 6465232	73925 1774903	99155 2384320	119317 2379185	75925 12583712
A0A3O1MBS5 A0A3O1MBS	6	6	269.33	0.13931	0.43109	1,66942	-,	HL	LL	102359	Alpha-actinin-1 OS=Bos taurus OX=9913 GN=ACTN1 PE=1 SV=1	530621	875156	226098	761647	643257	565853	880590	742017	858705	372443	402375	271928	544470	329271	500926	204173
Q9N2J2 GPX4_BOVIN	3	3	264,9	0,14043	0,43109	1,59645	0,30981	LL	HL	22226	Phospholipid hydroperoxide glutathione peroxidase OS=Bos taurus OX=99	1628370	1244502	1196635	295762	914755	864085	1877287	1799777	1539932	785390	1395462	819868	2570101	3042912	2569271	686895
A0A3Q1LS27 A0A3Q1LS27_	3	3	135,05	0,1415	0,43259	1,39556	0,30835	LL	HL	58564	TBC1 domain family member 24 OS=Bos taurus OX=9913 GN=TBC1D24 PE	375847	438867	323336	865782	508481	115670	325145	409965	410742	395662	749495	981717	449887	240350	511164	579096
A0A0A0MPA4 A0A0A0MPA	2	2	103,5	0,14452	0,43783	1,99882	0,3043	LL	HL	13473	Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=2	34641	30150	10894	27007	139987	32743	82929	238312	94481	104348	20243	21002	285877	202086	259349	194978
P04272 ANXA2_BOVIN	12	12	974,26	0,14496	0,43783	1,28824	.,	HL	LL	38588 67733	Annexin A2 OS=Bos taurus OX=9913 GN=ANXA2 PE=1 SV=2	10998032	6521406	9225836 536907	4045465	6385136	7364266	13242106 146802	10157105	5895738	1714534	5380451	3466061	9675035	8849687	8266358 574174	6284617
A7Z066 A7Z066_BOVIN;A0/ F1BG25 F1BG25_BOVIN	5	5	283,16 126.81		0,43783	1,24296		LL HI	HL	80642	Calnexin OS=Bos taurus OX=9913 GN=CANX PE=1 SV=1 Melanotransferrin OS=Bos taurus OX=9913 GN=MFI TF PE=3 SV=1	152377 809505	415563 54071	74760	266950 150999	868591 44509	559993 151586	146802	811071	919279 180422	465996 405	733906 38905	295586 63825	459076 98903	705618 251384	71151	569288 14527
E1BE21 E1BE21 BOVIN	2	2	101.04	0,14554	0.43842	-,	-,	LL	HL	67515	Transmembrane and coiled-coil domains 4 OS=Bos taurus OX=9913 GN=TI	103109	49699	55946	37360	97911	44926	161810	66183	126999	45156	104328	75578	110011	72776	45794	132589
A0A3Q1LUG9 A0A3Q1LUG9	2	2	164,36		0,44055	-,	-,	LL	HL	47773	Uncharacterized protein OS=Bos taurus OX=9913 GN=TXNDC5 PE=1 SV=1	536003	444914	731413	642012	1386506	733597	866988	1335869	1116928	3343514	1310041	590508	1371660	737490	884398	1167076
Q0P5L6 Q0P5L6_BOVIN	3	3	192,92		0,44055			LL	HL	88361	Centromere/kinetochore protein zw10 OS=Bos taurus OX=9913 GN=ZW10	234761	163262	225368	375936	526895	681014	334689	352741	550210	667382	1211303	830467	367855	246489	407015	685121
F1MJQ1 F1MJQ1_BOVIN;A(9	8	449,29		0,44112			LL	HL	23501	Ras-related protein Rab-7a OS=Bos taurus OX=9913 GN=RAB7A PE=1 SV=1	7388429	2911712	5109179	2146192	3471770	2720806	6366472	4589272	3867841	5389077	4266396	3271934	6314539	6925502	7799347	5111146
A0A3Q1MKV7 A0A3Q1MKV A0A3Q1MJQ0 A0A3Q1MJQ	6 2	6 2	420,76 96.22	0,151	0,44119			HL HL	LL LL	83152 54361	Oxysterol-binding protein OS=Bos taurus OX=9913 GN=OSBPL9 PE=3 SV=1 Solute carrier family 29 member 1 OS=Bos taurus OX=9913 GN=SLC29A1 F	1876188 694370	1636604 637600	2064111 1174429	1077032 597091	2496570 1018246	1843618 775790	2428092 773644	3133709 856207	1681219 530771	1123951 1608978	2866147 1131294	1667393 519424	1710952 698444	1302443 711731	2215774 800663	1031319 278707
A0A3Q1MJQU A0A3Q1MJQ A0A3Q1LPH9 A0A3Q1LPH9	2	2	106.8	0,15135	0,44119	,	.,	LL	HL	69663	Rhophilin-2 OS=Bos taurus OX=9913 GN=RHPN2 PE=4 SV=1	73081	69972	130143	164054	161556	38206	107782	61523	97067	320260	141740	153098	89850	70522	89932	155106
Q1RMW9 Q1RMW9_BOVIN	4	3	285,69		0,44226			HL	LL	33704	Golgi phosphoprotein 3 OS=Bos taurus OX=9913 GN=GOLPH3 PE=2 SV=1	1856989	1130089	572663	880790	1300402	1261917	668294	2182337	1563214	1527115	934217	799803	732888	753436	593137	944983
A0A3Q1M9F3 A0A3Q1M9F	2	2	155,51		0,44612	1,73532	0,29114	LL	HL	161433	Nucleoporin 155 OS=Bos taurus OX=9913 GN=NUP155 PE=4 SV=1	65969	115944	89125	41444	80776	127940	42141	47323	109677	201939	468825	170009	53556	151023	37849	65793
P11151 LIPL_BOVIN	10	10	1048,79	0,15711	0,44659	,	.,	HL	LL	53344	Lipoprotein lipase OS=Bos taurus OX=9913 GN=LPL PE=1 SV=2	45131818	22847767	7187396	10134553	6435015	7962983	15727714	7242363	6280426	16324052	12960547	6537403	6920828	5626937	2969959	6415555
G3MWJ8 G3MWJ8_BOVIN	2	2	99,31		0,44659			LL	HL	70227	DEAD-box helicase 3 X-linked OS=Bos taurus OX=9913 GN=DDX3X PE=1 SV	23318	68795	41559	57777	79798	42730	43673	61449	104621	311007	62812	35447	57308	46811 194848	51764	35771
G3X8E2 G3X8E2_BOVIN A6QPB4 A6QPB4 BOVIN	2	2	114,99 201.95	.,	0,44659	,	.,	HL LL	LL HL	52816 9355	Uncharacterized protein OS=Bos taurus OX=9913 GN=VPS4A PE=3 SV=2 Vesicle transport protein OS=Bos taurus OX=9913 GN=SFT2D2 PF=2 SV=1	826829 2080625	844869 1068752	159295 1375136	34403 2965373	237278 1376708	72876 653270	374211 2132566	239781 2001051	203805 1197879	143079 1754243	56734 2189602	55427 3320316	267779 1727979	194848 1930018	211781 992610	31126 5869917
G3MZ88 G3MZ88_BOVIN	5	5	478,31		0,44659			LL	HL	25699	J domain-containing protein OS=Bos taurus OX=9913 GN=DNAJB9 PE=1 SV	473424	496464	574656	926670	470104	369705	955479	814908	426795	609703	450443	916910	642064	1070165	1652413	1264608
A0A3S5ZP87 A0A3S5ZP87_I	2	2	235,63	-,	0,44659	-,	-,	LL	HL		Leucine rich repeat containing 47 OS=Bos taurus OX=9913 GN=LRRC47 PE:	78062	124726	37706	198586	277719	58316	106420	194579	229163	132068	199395	329797	283366	92214	193696	94184
Q58DA8 ZDHC9_BOVIN	2	2	141,77	.,	0,44659	,	.,	HL	LL	40799	Palmitoyltransferase ZDHHC9 OS=Bos taurus OX=9913 GN=ZDHHC9 PE=2	972463	805326	1122859	489086	711827	1020538	1433248	866737	591398	121120	270324	960953	1636794	860818	975602	368151
A0A452DJJ3 A0A452DJJ3_B	7	5	477,46	0,1648	0,44659	1,22767	0,27931	HL	LL	48470	Glycerol-3-phosphate dehydrogenase [NAD(+)] OS=Bos taurus OX=9913 G	2650714	2440579	4094920	1539737	3258004	5307256	2123351	3038443	1670288	1092902	1139512	1548186	2009825	4674866	4810394	1662555

A5D7E1 A5D7E1_BOVIN;F1 A0A3O1MG98 A0A3O1MG!	4 10	2	284,31 925.33	0,16498	0,44659	1,35474	0,2791	HL HI	LL	60893 77965	EH domain containing 3 OS=Bos taurus OX=9913 GN=EHD3 PE=2 SV=1 Sodium-dependent phosphate transport protein 2B OS=Bos taurus OX=99:	388266 236827348	373334 264178040	823949 326263369	402997 152179282	480448 174927907	269928 205031360	436708 221108685	396840 198664912	381803 269477265	180416 52990663	172987 132256718	371462 142303132	394255 254054352	301959 235955165	491493 78840270 123	208385
Q3ZBH81RS20 BOVIN:A0A3	2	2	83.39	0.16658	0.44659	2.21473	0,27898	LL	HI	13364	40S ribosomal protein S20 OS=Bos taurus OX=9913 GN=RPS20 PE=3 SV=1	53703	45417	49147	21633	226525	32185	80825	552194	271703	141263	26627	78854	503340	369633	588528	517646
G3X7G4 G3X7G4_BOVIN;Q(3	3	281,22	0,16705	0,44659	1,52806	0,27676	LL	HL	85403	AP complex subunit beta OS=Bos taurus OX=9913 GN=AP2B1 PE=3 SV=2	89733	92852	71691	325738	218915	131727	45657	151768	176539	453444	279422	426343	168785	74954	123723	266445
A0A3Q1MHC4 A0A3Q1MH	8	8	585,21	0,16993	0,44659	1,48802	0,27354	LL	HL	99047	Cytoplasmic aconitate hydratase OS=Bos taurus OX=9913 GN=ACO1 PE=3	5236061	5930019	4579988	4653283	6168644	5873107	6097265	5334314	7482555	27110242	7730289	8151194	5095960	4677056	4385329	6345141
F1MPK7 F1MPK7_BOVIN;F1	11	11	667,45	0,17127	0,44726	1,35953	0,27207	HL	LL	81875	Uncharacterized protein OS=Bos taurus OX=9913 PE=3 SV=3	17859227	19548280	20691620	11960517	14147042	27374865	16568307	16805477	14841569	4936340	16915539	9511297	19609325	22693939		5501633
A0A3Q1M2B2 A0A3Q1M2E A5D7E8 A5D7E8 BOVIN	19	19	1428,75 510.82	0,17445	0,45297	1,12567	0,26863	HL	LL	183629 56894	Complement C3 OS=Bos taurus OX=9913 GN=C3 PE=1 SV=1	6728540 547516	3322776	4891430 776943	3608629 438247	6512458 1617206	5408736 788404	8298953 1004802	2624170 2615387	6175490 1506315	1075971 467421	1303389 369818	1305611 263689	15867058 1641596	3137885 930938	3504853 1441347	3620283 388235
O2TA08 BAG5 BOVIN	4	4	306.09	-,	0,45297	1,40528	0,2684	HL.	LL HL	50994	Protein disulfide-isomerase OS=Bos taurus OX=9913 GN=PDIA3 PE=2 SV=1 BAG family molecular chaperone regulator 5 OS=Bos taurus OX=9913 GN=	438172	1237351 451076	436828	559754	415341	788404	419470	326362	725838	1327022	1359468	750837	500416	314293	278323	916519
F1MX05 F1MX05 BOVIN:Q	3	2	122.63	.,	0.45412	1.21686	0.26664	HL	LL	47285	Saccharopine dehydrogenase-like oxidoreductase OS=Bos taurus OX=9913	1449379	832315	1538013	1003695	959205	740794	999799	1045294	890523	387647	583034	699722	1173098	888230	896274	861527
Q3ZBG9 PLS2_BOVIN	2	2	94,17	0,17951	0,45676	1,48955	0,26331	LL	HL	32555	Phospholipid scramblase 2 OS=Bos taurus OX=9913 GN=PLSCR2 PE=2 SV=:	968816	890374	785301	529104	498366	1041543	1269158	1106113	765364	443522	1308440	783408	925692	2495199	2004299	1912983
F1MDM4 F1MDM4_BOVIN	2	2	84,84	0,1797	0,45676	3,39223	0,2631	LL	HL	21415	Receptor expression-enhancing protein OS=Bos taurus OX=9913 GN=REEP	15017	13248	69335	14239	30585	144779	24212	134361	24360	3415	318473	14927	37645	279249	433198	78696
A0A452DJ82 A0A452DJ82_	4	4	584,09	0,17973	0,45676	1,2666	0,26308	LL	HL	32777	Rho GDP-dissociation inhibitor 1 OS=Bos taurus OX=9913 GN=ARHGDIA PE	3545652	1968444	1353978	4235984	1379554	1397954	3224491	2119936	3530288	1317391	4091810	3809350	2339273	4232623		3348550
F1MUP9 F1MUP9_BOVIN A0A3Q1MF55 A0A3Q1MF5	4	4	458,87 255.91	0,18076	0,45676	1,37499 1.75391	0,26201 0.26178	LL LL	HL HL	42803 32700	Vesicle amine transport 1 OS=Bos taurus OX=9913 GN=VAT1 PE=1 SV=3 ADP/ATP translocase 2 OS=Bos taurus OX=9913 GN=SLC25A5 PE=3 SV=1	10683860 364375	11383993 539780	25566700 974434	22451491 427704	10202879 1878378	9543991 1222199	10160930 1294868	11011629 1963788	12772956 606459	19477049 561916	45692138 844783	28826269 1043525	10048573 2076412	12874906 1875274		17344947 2663217
F1MMK8 F1MMK8 BOVIN	2	2	86.51	0.1831	0.4583	1.38426	0.25963	HL	LL	87698	LysinetRNA ligase OS=Bos taurus OX=9913 GN=KARS1 PE=1 SV=2	400994	1118513	743484	318825	1158356	1128843	616816	466341	667562	255026	113082	311365	790585	794724	942427	188168
E1BA29 E1BA29_BOVIN	9	8	352,84	0,18504	0,4583	1,38806	0,25768	HL	LL	42115	G protein subunit alpha q OS=Bos taurus OX=9913 GN=GNAQ PE=4 SV=1	4594396	4226714	6873066	1947814	4445113	6461293	4620980	6431487	3149972	1985573	1794414	1821387	5037695	5784925	6844290	1772543
F1MXX6 F1MXX6_BOVIN;G	17	17	2190,48	0,18517	0,4583	1,34179	0,25754	LL	HL	47815	Lactadherin OS=Bos taurus OX=9913 GN=MFGE8 PE=4 SV=1	1807715376	1464682655	1032113700	3330843349	1802404868	1571095540	1836718502	1139725437	1237389842	2981670009 1	785543040	2755876345	1801897921	1160338996 14		2746864
E1BCP6 E1BCP6_BOVIN	4	4	204,05	0,18561	0,4583	1,28104	0,25711	HL	LL	130797	Tyrosine-protein kinase OS=Bos taurus OX=9913 GN=JAK2 PE=3 SV=2	260198	479129	561701	193854	542150	476332	170066	544992	496301	118129	405342	246409	124267	377473	535998	191653
P04896 GNAS2_BOVIN;A0A Q2HJG5 VPS35 BOVIN	5	5	320,32 499.96	0,1858	0,4583	1,21983	0,25693	LL	HL HL	45680 91693	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short OS=E Vacuolar protein sorting-associated protein 35 OS=Bos taurus OX=9913 GI	21084159 1674657	15160228 2403559	19932104 1588423	35071183 4496673	15594337 3372195	15177219 2571700	20121086 2606410	16224557 2108498	12843660 2516700	29582469 4102247	23613590 6006971	28182029 6702151	18579977 2607912	20152080 2571872		24529970 4357828
A0A3Q1LKF2 A0A3Q1LKF2	9	8	641.5	0.18716	0.45849	1.15878	0,25558	LL	HL	53662	Aldehyde dehydrogenase OS=Bos taurus OX=9913 GN=LOC508879 PE=3 S	3270466	4814507	5046585	1623347	8149796	7563720	4652539	4111958	7294153	6330672	6743299	5380471	5192421	4385015		6203017
A5D7R9 A5D7R9_BOVIN	6	4	356,81	0,18817	0,45947	1,29696	0,25459	LL	HL	21216	NRAS protein OS=Bos taurus OX=9913 GN=NRAS PE=2 SV=1	2682940	1543656	1429853	1832535	1343744	1064054	2457544	1923018	1505098	3200305	1904262	1523229	1342563	1955872	1970253	5442598
A0A3Q1MDY5 A0A3Q1MD	4	4	162,07	0,19002	0,46123	1,59244	0,25278	LL	HL	119134	Ubiquitin conjugation factor E4 A OS=Bos taurus OX=9913 GN=UBE4A PE=	193644	250075	358604	503068	368822	525323	243346	246634	617233	1344191	838562	779907	167933	290958	207301	588511
F1MD66 F1MD66_BOVIN	3	3	126,65	0,19011	0,46123	1,40359	0,25269	HL	LL	54177	Annexin OS=Bos taurus OX=9913 GN=ANXA11 PE=3 SV=3	211466	236161	75980	34923	216863	17133	221993	160647	245901	21388	23046	21189	276040	84758	123323	9976
F1N0F7 F1N0F7_BOVIN E1BM16 E1BM16 BOVIN	2	2	115,91 279.66	0,19209	0,46306	1,36657 1,45733	0,25079	LL LL	HL	48941 55584	Eukaryotic translation initiation factor 5 OS=Bos taurus OX=9913 GN=EIF5 Family with sequence similarity 83 member F OS=Bos taurus OX=9913 GN:	87832 682599	151226 1635705	194312 156176	148557 551227	259144 1307626	108349 498712	110429 1570645	331759 489451	316793 874989	103071 1315810	105786 1973756	151750 909448	310159 1547084	360829 411962	320362 366453	150908 1867358
A0A3O1LLH1 A0A3O1LLH1	2	2	85.8	0,19321	0.46306	1,43733	0,24972	LL	HI	18957	Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=1	86075	102971	83271	191144	350771	111768	155988	445277	160283	211416	115689	105754	315133	144422	242639	273817
A0A3Q1LL79 A0A3Q1LL79	3	3	190,34	0,19812	0,46306	1,45117	0,24514	HL	LL	51584	Neuroplastin OS=Bos taurus OX=9913 GN=NPTN PE=4 SV=1	449957	860296	675515	412317	463975	652823	320945	679940	323480	296325	125374	282990	522411	747955	485178	64165
E1BPM0 E1BPM0_BOVIN;A	10	10	548,18	0,19828	0,46306	1,15028	0,24499	HL	LL	93979	RAS protein activator like 1 OS=Bos taurus OX=9913 GN=RASAL1 PE=4 SV=	2309013	1510912	2325345	1392469	2064227	1859592	2762977	1709027	2395714	1764372	2657297	1722932	1011355	845065	1745466	1030778
F1MZ03 F1MZ03_BOVIN;A(5	5	265,17	0,20129	0,46306	1,44616	0,24225	HL	LL	63768	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2 OS=Bos taurus C	271190	414706	556870	136664	407801	293433	272418	530473	454628	26687	104495	114698	349286	391569	366682	61775
E1BAV3 E1BAV3_BOVIN;A0	2	2	128,63 380.63	0,20242	0,46306	1,54835	0,24123	LL	HL	42806 35943	Stomatin like 1 OS=Bos taurus OX=9913 GN=STOML1 PE=4 SV=2	75833 387432	92223	107195 1040538	161774	206179	147933 953543	107836	50060 558280	208818 297042	805729	203117	170463	83441	77819 547100	109772 877432	250517 231976
E1BJQ7 E1BJQ7_BOVIN;A0/ A0A3Q1LKJ2 A0A3Q1LKJ2	6	6	463.48	-,	0.46306	1,46574	0,24115	HL HL	LL LL	48251	GIPC PDZ domain containing family member 1 OS=Bos taurus OX=9913 GN Flotillin-2 OS=Bos taurus OX=9913 GN=FLOT2 PE=4 SV=1	2380852	470827 2200792	898329	378534 944843	481578 751818	714755	527344 2677846	747766	1108403	72322 307399	159673 559027	339096 442221	522953 1544272	1458039	634237	443682
F1MQ37 F1MQ37 BOVIN;4	6	6	300,78	.,	0,46306	1,82971	0,2409	HL	LL	227063	Myosin heavy chain 9 OS=Bos taurus OX=9913 GN=MYH9 PE=1 SV=3	177287	316550	97675	90412	611496	170802	273185	277588	107153	312035	92935	120904	311927	157104	190094	238362
F1MHH9 F1MHH9_BOVIN;/	6	6	359,66	0,2029	0,46306	1,30388	0,2408	HL	LL	35147	Uncharacterized protein OS=Bos taurus OX=9913 GN=FCGR2B PE=4 SV=3	11052162	2233687	2485288	1669942	1985562	4196682	2272822	6720757	9223405	232981	410062	1056561	2136419	1494340	4890220	741218
A0A3Q1MU33 A0A3Q1MU	11	11	903,8	., .	0,46306	1,33379	0,23964	HL	LL	35853	Annexin OS=Bos taurus OX=9913 GN=ANXA5 PE=1 SV=1	13195648	6092051	8933596	4932989	10015976	7631467	8132045	20399137	3209101	6676038	5407506	4561266	10607811	5658814		4220032
P81125 SNAA_BOVIN;A0A3 F1MM83 F1MM83 BOVIN	6	6	417,55	0,20652	0,46456	1,29093	0,2376	HL	LL	33203	Alpha-soluble NSF attachment protein OS=Bos taurus OX=9913 GN=NAPA	2810925	1867567	3562338	1289745	1496409	2909201	2854346	2308121	1538034	436830	1758097	1108957	1705971	2916148		1589731
P68002 VDAC2 BOVIN:A0A	4	4	75,73 266.92	0,2079	0,46495	1,16117	0,23639	HL LL	LL HL	27514 31600	6-phosphogluconolactonase OS=Bos taurus OX=9913 GN=PGLS PE=3 SV=1 Voltage-dependent anion-selective channel protein 2 OS=Bos taurus OX=9	234556 74478	99953 188207	291014 139288	63921 407913	176612 809766	173601 84206	180297 791787	161953 610566	94028 122064	48524 438790	20520 394743	45819 437918	173309 1127000	320505 527932	174922 1240971	101098 268058
E1B749 E1B749 BOVIN;A0/	4	3	329,51	0,20936	0,46528	1,44512	0,23514	HL	LL	73734	Solute carrier family 5 member 9 OS=Bos taurus OX=9913 GN=SLC5A9 PE=	3368735	3355511	6004460	1060345	2795337	3389908	3706915	2640027	2898400	1261759	2047990	883008	3312032	2476218	2276753	859426
A0A3Q1LMM6 A0A3Q1LMI	2	2	114,64	0,21056	0,46528	1,335	0,2341	LL	HL	50901	Parvin alpha OS=Bos taurus OX=9913 GN=PARVA PE=4 SV=1	220150	71368	75355	351692	106232	42911	206506	143524	73655	161641	324537	284798	194644	102601	118712	344702
A0A3Q1M4W1 A0A3Q1M4	3	3	174,02	0,21096	0,46528	1,36378	0,23376	LL	HL	25440	MOB kinase activator 1A OS=Bos taurus OX=9913 GN=MOB1A PE=4 SV=1	637739	218889	335285	113863	407195	314721	786573	448489	326264	276633	304196	327918	362543	1055834	984169	376949
A4FUX1 A4FUX1_BOVIN;G3 A0A3O1MI97 A0A3O1MI97	5	5	640,77 152.79	0,21385	0,4689	1,28317	0,23132	LL HL	HL	24525 25980	CIDEA protein OS=Bos taurus OX=9913 GN=CIDEA PE=2 SV=1	254221616 3140724	89732855 2044049	117581919 1788271	73887543	112245315 2106227	97707817 2007548	285878442 3505816	163126554 3255214	149748471 2395637	113752545 1923435	159733476 1527258	97898627 2509896	266576901 2661144	145161392 2		1274759
A0A3Q1MJ9/ A0A3Q1MJ9/ A0A3Q1LTU6 A0A3Q1LTU6	7	7	301.17	0,21385	0.46913	1,1857	0,23132	LL	LL HL	89021	Synaptophysin like 1 OS=Bos taurus OX=9913 GN=SYPL1 PE=4 SV=1 Tax1-binding protein 1 homolog OS=Bos taurus OX=9913 GN=TAX1BP1 PE	376309	323683	562483	159893	474670	714155	689623	207747	632967	132471	489528	466026	628883	556109	551752	454319
G3X743 G3X743 BOVIN	2	2	196,37	0,2188	0,47298	1,51041	0,22723	LL	HL	72095	Arginyl aminopeptidase OS=Bos taurus OX=9913 GN=RNPEP PE=4 SV=2	85621	294912	221567	412503	363663	217055	118006	290800	255110	974834	558015	458393	150827	164321	258993	272554
Q0VCQ6 Q0VCQ6_BOVIN;A	3	3	181,8	0,22001	0,47411	1,19666	0,22625	HL	LL	24700	Programmed cell death 10 OS=Bos taurus OX=9913 GN=PDCD10 PE=2 SV=	1308150	529158	716889	437578	568518	407265	624285	873293	249841	88715	273822	324807	734407	969662	1019784	302023
A0A3Q1MPF1 A0A3Q1MPF	9	9	697,81	0,22587	0,48354	1,3696	0,22158	HL	LL	51036	Rab GDP dissociation inhibitor OS=Bos taurus OX=9913 GN=GDI2 PE=3 SV=	5259054	4515261	1315036	6401667	7814903	3803855	4923081	3370085	3596017	8325308	3317223	7926111	2756353	1894332		2857906
Q9XSA7 CLIC4_BOVIN	3	3	136,15	0,22631	0,48354	1,16163	0,22124	HL	LL	28709	Chloride intracellular channel protein 4 OS=Bos taurus OX=9913 GN=CLIC4	716320	514966	1141488	643879	667654	929933	618531	1477478	466812	171262	295961	347101	635551	1334857	1343912	523278
E1BIE9 E1BIE9_BOVIN;A0A: A0A3O1LHT7 A0A3O1LHT7	8	8	385,96 548.52	0,22851	0,48548	1,70215 1,35169	0,21953 0.21628	HL HL	LL LL	166675	Uncharacterized protein OS=Bos taurus OX=9913 GN=LOC100337457 PE= Ribosome binding protein 1 OS=Bos taurus OX=9913 GN=RRBP1 PE=1 SV=:	207092 159902	3981215 614816	3059184 467004	1081630 162189	575638 807162	1971493 469213	1249024 352380	6788053 1196113	325822 692321	943632 62894	1053212 92849	933520 112259	479366 618510	3805604 595996	4401198 859309	571990 162643
A0A3Q1LN89 A0A3Q1LN89	2	2	89,23	0,23388	0,49272	1,40795	.,	LL	HL	144844	Calcium dependent secretion activator 2 OS=Bos taurus OX=9913 GN=CAE	53026	34514	97538	46428	237903	203104	69408	197450	280328	51703	528462	127191	106605	67741	180434	94788
E1BH06 E1BH06_BOVIN;F1	3	3	172,88	0,23823	0,49838	2,07351	0,21222	LL	HL	192676	Uncharacterized protein OS=Bos taurus OX=9913 GN=C4A PE=1 SV=3	150069	139371	352314	84126	50321	122325	188042	87149	97739	405989	1297906	116019	157512	62940	156871	537690
P00727 AMPL_BOVIN	2	2	127,02	0,23834	0,49838	1,56307	0,21215	HL	LL	56254	Cytosol aminopeptidase OS=Bos taurus OX=9913 GN=LAP3 PE=1 SV=3	48982	38551	35270	41048	103306	65568	58644	14794	27383	16379	3910	80284	30001	36962	17376	15178
Q3ZCJ2 AK1A1_BOVIN A0A3Q1M2I5 A0A3Q1M2I5	4	4	194,16 267.71	0,23922	0,49838	1,20351 1.45699	0,2115	HL HL	LL	36594 49948	Aldo-keto reductase family 1 member A1 OS=Bos taurus OX=9913 GN=AKI Keratin, type I cytoskeletal 14 OS=Bos taurus OX=9913 GN=KRT14 PE=1 SV	416475 686361	416412 488307	206961 611359	144224 560198	300532 807411	378973 282768	695763 807046	309000 1372127	217541 487779	95580 256205	37013 499295	148197 678328	374081 471465	604627 496652	428915 388621	189158 97837
A0A3Q1NEU9 A0A3Q1NEU	8	8	436.37	.,	0.50159	1,43099	0,20979	LL	HL	533236	Dynein cytoplasmic 1 heavy chain 1 OS=Bos taurus OX=9913 GN=DYNC1H	58024	21429	21898	53511	438593	257612	248831	152617	225706	252773	148621	80212	510466	475159	124755	29876
P24627 TRFL_BOVIN;A0A30	12	12	904	.,	0,50159	1,4051	0,20847	HL	LL	78006	Lactotransferrin OS=Bos taurus OX=9913 GN=LTF PE=1 SV=2	4168335	2643051	1156651	5284606	1026528	842460	5251915	1063843	647901	3430734	2259074	2216261	877979	412168		6023158
A0A3Q1M4H2 A0A3Q1M4F	2	2	285,97		0,50173	1,07414	0,20768	LL	HL	90585	ADAM metallopeptidase domain 9 OS=Bos taurus OX=9913 GN=ADAM9 P	72553	1281	1218360	1110054	476090	455184	30189	373722	458641	2118172	499738	1369367	63558	1322772	616045	370383
A0A3Q1MBG6 A0A3Q1MB0	3	3	92,62	.,	0,50173	, .	0,2065	HL	LL	75538	Sphingosine kinase 2 OS=Bos taurus OX=9913 GN=SPHK2 PE=4 SV=1	201655	107147	435459	125890	254788	217699	146111	294241	211327	312171	229676	155928	42088	113333	156062	97491
P05307 PDIA1_BOVIN;A0A: F6RWK1 F6RWK1_BOVIN	7	7	402,27 186.66	0,24977	0,50173 0.50173	1,42121	0,20403	HL HL	LL LL	57230 50445	Protein disulfide-isomerase OS=Bos taurus OX=9913 GN=P4HB PE=1 SV=1 Rho GTPase activating protein 1 OS=Bos taurus OX=9913 GN=ARHGAP1 PE	757019 103338	1184551 114434	908435 179349	552323 50212	1274873 208056	686640 172562	1310318 87625	2790518 180553	837129 110716	246976 50417	451406 57397	813814 68619	1415290 116814	807366 124636	1150948 190967	466915 33881
A0A3Q1M6K1 A0A3Q1M6K	8	8	459.98	0.25523	0.50173		0.20032	HL	LL	147062	Peptidylprolyl isomerase OS=Bos taurus OX=9913 GN=PTPRJ PE=4 SV=1	2121873	2538274	2960369	619779	1662603	3063373	2056944	1744437	1884802	483142	1175193	983494	1496263	2460533	3256487	913118
Q5EA79 GALM_BOVIN	3	3	138,82	0,25546	0,50173	1,2693	0,20017	HL	LL	37591	Aldose 1-epimerase OS=Bos taurus OX=9913 GN=GALM PE=2 SV=1	2155125	1906724	2163833	624998	2226785	3245281	1862554	2963621	2271767	711414	2683539	1411791	1777157	1420004	2643868	958486
A0A452DIG0 A0A452DIG0_	4	4	188,53	0,25784	0,50173	,	0,19859	LL	HL	15155	Cytochrome b5 OS=Bos taurus OX=9913 GN=CYB5A PE=1 SV=1	123300	73846	246463	91673	294420	191047	281304	439769	178510	77835	81766	77868	471800	939427	729317	749321
A0A3Q1LMU9 A0A3Q1LML A0A3Q1LVC7 A0A3Q1LVC7	2	2	64,53 357.82	0,25954	0,50173	1,65037 1.28442	0,19747	HL HL	LL	37115	Eukaryotic translation initiation factor 3 subunit H OS=Bos taurus OX=991: Fzrin OS=Ros taurus OX=9913 GN=FZR PF=1 SV=1	21589 746908	51671 394763	5652 502947	123876 168099	115409 318630	0 247212	7 569383	201869 568751	57847 516535	3254 97215	20288 94541	19498	73874 470819	1234 586452	110415 507452	803 76489
A0A3Q1LJQ9 A0A3Q1LJQ9_	2	2	126.54	0,26051	0,50173 0.50173	1,28442	0,19683 0.19662	HL	LL LL	39621	Mevalonate kinase OS=Bos taurus OX=9913 GN=MVK PE=3 SV=1	36816	72235	57363	13941	171026	59958	56896	96108	25346	4553	20242	176975 3301	111190	57387	156313	49542
Q17QW3 RDH14_BOVIN	2	2	97.49	0.26266	0.50173	1.23192	0.19544	HL	LL	36602	Retinol dehydrogenase 14 OS=Bos taurus OX=9913 GN=RDH14 PE=2 SV=1	171181	218426	177016	56551	145583	160532	225421	152868	100600	52591	22016	47296	168622	225217	202411	90758
F1MTP5 F1MTP5_BOVIN	3	3	200,26	0,2654	0,50173	1,43757	0,19368	HL	LL	66235	WD repeat-containing protein 1 OS=Bos taurus OX=9913 GN=WDR1 PE=4	263755	583423	214718	264100	561300	92647	462881	395682	622974	250140	144155	58369	272819	414401	309117	21984
A0A3Q1M119 A0A3Q1M11	7	7	495,39	0,26564	0,50173	1,0864	0,19353	HL	LL	27402	14-3-3 protein epsilon OS=Bos taurus OX=9913 GN=YWHAE PE=1 SV=1	3426483	2112376	2346892	1140915	2591909	2671535	4327958	4077090	2088479	331204	535800	1036323	4084237	4243732		1405166
A0A3Q1M8J9 A0A3Q1M8J9 A0A3Q1MCE5 A0A3Q1MCE	2	2	102,88 399	0,26638	0,50173 0.50173	1,16103 1.33703	0,19306 0.1927	HL LL	LL	40494	Glyceraldehyde-3-phosphate dehydrogenase OS=Bos taurus OX=9913 GN= Acetoacetyl-CoA synthetase OS=Bos taurus OX=9913 GN=AACS PE=4 SV=1	1735669 1028030	705252 1033128	1046240 1522822	575491 306951	774839 2317461	527800 1001822	1461664 961745	1156006 1736724	996678 2367948	136466 978777	110968 1965317	454513 926314	1183960 1873902	1282043 2148430	1335076 2016876	946455 510725
O5E947 PRDX1 BOVIN:A0A	5	5	256.66	.,	0,50173	,	0,1927	II.	HL	22195	Peroxiredoxin-1 OS=Bos taurus OX=9913 GN=AACS PE=4 SV=1	1934709	807439	936085	574787	1202437	727298	2429135	2440444	1738087	700931	571219	926314	2794102	3893387		1456290
A3FPG8 GPAT4_BOVIN;A6H	13	13	,	.,	0,50173	,	.,	LL	HL		Glycerol-3-phosphate acyltransferase 4 OS=Bos taurus OX=9913 GN=GPAT	7329314	6548366	12856352	6338846	11345946	9123932	9899607	5901378	10157908	6626837	13119993	7614234	12936811	8841076		15135326
P17248 SYWC_BOVIN	4	4	216,08	0,26769	0,50173	1,1937	0,19223	HL	LL	53778	TryptophantRNA ligase, cytoplasmic OS=Bos taurus OX=9913 GN=WARS	955311	1208735	681372	337407	1665677	1246558	1393198	1097585	897146	112496	197086	464308	1291040	1651961	1920220	333336
A0A3Q1MQS3 A0A3Q1MQ	7	2	346,74		0,50173			HL	LL		14-3-3 protein theta OS=Bos taurus OX=9913 GN=YWHAQ PE=1 SV=1	496456	284010	590079	236620	405244	394443	763064	677170	284862	61420	189372	190366	664313	709997		353208
F1MPP1 F1MPP1_BOVIN	3	3	365,22 113.47		0,50173			LL HL	HL	23506	RAB21, member RAS oncogene family OS=Bos taurus OX=9913 GN=RAB21	4269504 24789	2669470 31058	1855555 89046	939244	1533810	1540699 163605	4081923 55167	2473018 52433	2322875 42445	2133850 2384	4738884 16966	2322450	3436102 44346	3180766 152864		1071172 6289
F1MU79 F1MU79_BOVIN A0A301MCG3 A0A301MCC	14	4	113,47		0,50173			HL	LL LL		Peptidylprolyl isomerase OS=Bos taurus OX=9913 GN=FKBP4 PE=4 SV=2 5'-nucleotidase OS=Bos taurus OX=9913 GN=NT5E PE=3 SV=1	24789 4243928	2385241	89046 11254490	24952 7071548	77311 3252225	163605 5009836	11961192	52433 5690714	42445 1490580	681090	7982956	22603 5877164	44346 7989894	152864 8245212	78595 7032739	6293246
A0A3Q1LY00 A0A3Q1LY00_	3	3	173,8		0,50173			LL	HL	77153	Membrane palmitoylated protein 5 OS=Bos taurus OX=9913 GN=MPP5 PE	20403	76119	147911	123324	158414	83740	47437	207236	49518	233059	339825	145116	36517	160482	149815	82769
A0A3Q1M0U9 A0A3Q1M0l	7	7	360,96		0,50173			LL	HL		Transitional endoplasmic reticulum ATPase OS=Bos taurus OX=9913 GN=V	1061286	1286799	510414	880626	1096980	811035	1111561	734010	1868138	2798644	1519544	1399923	1004545	491024		1159637
A0A452DIS9 A0A452DIS9_E	3	3	139,41		0,50173			HL	LL		(Lyso)-N-acylphosphatidylethanolamine lipase OS=Bos taurus OX=9913 GN	309460	224704	496260	361458	487154	390922	384696	409802	331291	462124	238523	321245	307721	248885	431221	403283
A0A3Q1MQ90 A0A3Q1MQ A0A140T8A9 A0A140T8A9	4	2	376,97		0,50173			HL	LL		Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=1	890995	986857	506725	318779	170695	1031090	122735	506581	1124895	893169	1170084	478209	357765	1485830	458937	282530
A0A140T8A9 A0A140T8A9_ A0A3Q1M238 A0A3Q1M23	3 2	3 2	224,79 107.13		0,50173			HL LL	LL HL		Kappa-casein OS=Bos taurus OX=9913 GN=CSN3 PE=3 SV=1 Signal peptide peptidase like 2A OS=Bos taurus OX=9913 GN=SPPL2A PE=4	47148359 18021	30412557 185924	41321917 241668	117699649 506231	39154554 173152	53771033 254724	88484445 30778	35487387 272514	16038459 303979	28703738 242159	50796962 357552	53400384 407241	30309807 35239	21038012 220616	35097057 72 192427	72532227
	11	11	1202,88		0,50173			LL	HL		Ectonucleotide pyrophosphatase/phosphodiesterase family member 3 OS:	16859508	13819687	29087672	31269029	14986517	25036971	15763760	15858877	21252691	74176507	54778235	32639309	12727895			33491221
F1MHI1 F1MHI1_BOVIN;F1	21	21			0,50173			LL	HL				3170644059			2404907347			2277998048		6350759763 4		3754120600			87868285 3254	
E1BP71 E1BP71_BOVIN;P52	3	3	176,88		0,50173			LL	HL		Aldo_ket_red domain-containing protein OS=Bos taurus OX=9913 GN=LOC	117378	3650	11710	53628	2712	24723	59114	96845	21731	0	40053	8871	0	2387427	35904	29631
F1MD24 F1MD24_BOVIN;E A5D7F2 A5D7F2 BOVIN	5 7	5 7	383,36 443,74	.,	0,50416 0.51147	,	.,	HL HL	LL LL	73054	Solute carrier family 5 member 1 OS=Bos taurus OX=9913 GN=SLC5A1 PE= SYT4 protein OS=Bos taurus OX=9913 GN=SYT4 PF=2 SV=1	6665715 1861486	4901714 1873431	11225281 2551187	9047344 1625530	7921977 2081646	5706859 2057834	5575202 2372014	9741337 3073017	6225515 1882269	2916786 589337	4150599 731006	8816407 1416712	6824252 2496184	8316539 2771991		3994024 1340362
ASD7F2 ASD7F2_BOVIN Q58D08 PSCR3_BOVIN	7	7	443,74 128,87		0,51147			HL LL	HL	47616 32014	SYT4 protein OS=Bos taurus OX=9913 GN=SYT4 PE=2 SV=1 Pyrroline-5-carboxylate reductase 3 OS=Bos taurus OX=9913 GN=PYCR3 P	1861486 132526	1873431 115511	2551187 59453	1625530 21755	2081646 83242	2057834 111259	2372014 113178	3073017 131201	1882269 72119	589337 5342	731006 21285	1416712 12440	2496184 332527	2771991 339267	3929984 : 274551	1340362 536
F1MES6 F1MES6_BOVIN	5	5	350,05		0,51432			HL	LL		UBX domain-containing protein 6 OS=Bos taurus OX=9913 GN=UBXN6 PE=	242671	580515	885259	455211	672854	334627	197200	630603	527061	165078	340684	322245	142852	753689	654309	199512
_																											

A0A3Q1LYU3 A0A3Q1LYU3	3	3	248,67	0,29651	0,51527	1,38401	0,17531	LL	HL	60027	Atlastin GTPase 3 OS=Bos taurus OX=9913 GN=ATL3 PE=4 SV=1	227119	282151	261322	102667	314103	100179	303898	345889	397388	227084	281091	126279	786595	107398	303589	69662
F1ME65 F1ME65_BOVIN	2	2	126,02	0,29876	0,51527	1,46757	0,17408	HL	LL	64491	Cytoskeleton associated protein 4 OS=Bos taurus OX=9913 GN=CKAP4 PE=	25907	73147	25547	80960	71386	114264	56295	81575	74050	60812	28961	20112	71210	141841	63064	19476
F1MZQ4 F1MZQ4_BOVIN;E	10	8	638,71	0,29885	0,51527	1,3278	0,17403	LL	HL	59194	Butyrophilin subfamily 1 member A1 OS=Bos taurus OX=9913 GN=BTN1A1	8641352	6634432	1146288	729871	8209046	6794326	1137136	2151752	9116541	2055057	3155260	1329236	7317347	3139222	10979446	1956588
Q3MHW6 MOT1_BOVIN	8	8	875,91	0,29911	0,51527	1,18261	0,17389	HL	LL	54262	Monocarboxylate transporter 1 OS=Bos taurus OX=9913 GN=SLC16A1 PE=	5605344	4966618	6925547	1535135	3036553	4212299	5908878	4152466	5916135	517022	2527484	1236596	4917209	5504892	4898356	1509889
A0A3Q1MZJ6 A0A3Q1MZJ6 E1BA03 E1BA03 BOVIN	3	2	189,44 75.34	0,30016	0,51527	1,17094	0,17333	HL	LL HL	32326 74332	DnaJ heat shock protein family (Hsp40) member B2 OS=Bos taurus OX=99: Non-specific serine/threonine protein kinase OS=Bos taurus OX=9913 GN=	217888 181306	143746 190974	345770 169532	94889 104077	169246 177646	178210 126016	174983 232199	252780 300733	150320 225971	50409 150800	68047 146657	80966 138656	144100 262407	280193 303849	302984 345332	141106 77818
F1N261 F1N261 BOVIN	4	3	270.21	0.30452	-,	1,26755	0.17093	HL	LL	58698	Tyrosine-protein kinase OS=Bos taurus OX=9913 GN=LYN PE=1 SV=1	1981523	1158525	1960883	824080	1162780	739253	936299	1320093	1134146	1284359	620119	782700	916942	757986	1120555	778441
O2HJ94 DNJA2 BOVIN:A0A	4	4	225.75	0.30471	0.51787	1.19419	0.1709	HL	LL	45733	DnaJ homolog subfamily A member 2 OS=Bos taurus OX=9913 GN=DNAJA	824820	1008853	1023074	332828	967021	1267523	439795	841476	760329	90973	326929	270961	632641	1145527	1270410	283089
A0A3Q1NJE9 A0A3Q1NJE9	2	2	126,13	0,3071	0,51787	1,08012	0,16965	HL	LL	36482	Cell cycle control protein OS=Bos taurus OX=9913 GN=TMEM30A PE=3 SV	609763	434018	637305	494838	978193	488004	379555	517195	568213	78431	144008	444100	1248816	505704	728808	246075
A0A452DIU9 A0A452DIU9_	2	2	125	0,30711	0,51787	1,16265	0,16964	LL	HL	86811	Protein transport protein SEC23 OS=Bos taurus OX=9913 GN=SEC23B PE=:	73134	117989	75445	134147	274324	137933	113270	180389	273992	377507	184873	297758	184284	109015	134752	59755
F1N2L5 F1N2L5_BOVIN	2	2	92,65	0,31026	-,	1,2559	0,16801	LL	HL	76275	Maestro heat like repeat family member 6 OS=Bos taurus OX=9913 GN=M	10051	32427	15677	12165	45543	35694	21664	22985	60975	11994	42470	69239	21634	12332	36682	16784
Q3T0S6 RL8_BOVIN	2	2	88,21	0,31056	-,	1,02864	0,16785	HL	LL	28007	60S ribosomal protein L8 OS=Bos taurus OX=9913 GN=RPL8 PE=2 SV=3	154894	144645	156296	77428	227810	299441	283282	410312	206569	26275	47258	35033	550544	335635	372694	154071
A2VDZ9 VAPB_BOVIN;A0A3 A0A3Q1M9B3 A0A3Q1M9E	3	2	292,41 183.39	0,31068	0,51844	1,54374	0,16779	LL LL	HL	27141 22994	Vesicle-associated membrane protein-associated protein B OS=Bos taurus 60S ribosomal protein L18 OS=Bos taurus OX=9913 GN=RPL18 PE=1 SV=1	349727 29631	95078 63394	200437 85477	118529 93889	268524 254267	373327 14932	442807 53041	462357 454444	160843 177852	129575 43071	145447 54641	172638 5167	701982 184455	1235039 220821	986834 561944	384648 521253
A0A3Q1LW82 A0A3Q1LW8	5	5	438.73	0,3138	-,	1.33676	0.16606	LL	HI	45191	Protein NDRG1 OS=Bos taurus OX=9913 GN=NDRG1 PE=4 SV=1	1375195	1000759	1223182	2827323	1652561	2628271	1542422	1393787	936259	2742518	2610219	4525181	909093	1856084	1891984	1640000
A0A140T894 A0A140T894	6	2	480.95	0.31462	0.51844	1.0699	0.16578	HL	LL	28065	14-3-3 protein beta/alpha OS=Bos taurus OX=9913 GN=YWHAB PE=3 SV=1	1089141	656148	1289887	389105	948259	935249	1715704	1592363	606720	75045	397944	349574	1600872	1586896	1978573	445941
A0A3Q1MHG7 A0A3Q1MH	2	2	206,43	0,31503	0,51844	1,20953	0,16558	HL	LL	35882	Annexin OS=Bos taurus OX=9913 GN=ANXA4 PE=1 SV=1	225423	89208	131080	82784	191829	70734	162431	316152	51539	67871	20653	31449	172410	197481	305335	84948
A0A3Q1M3N4 A0A3Q1M3f	9	9	503,18	0,31779	0,52071	1,16445	0,1642	HL	LL	121004	Unconventional myosin-Ic OS=Bos taurus OX=9913 GN=MYO1C PE=1 SV=1	852127	868865	987446	322778	985405	767737	1012381	1181523	1047165	283304	296186	359860	967473	1279058	1111295	265081
A0A3Q1MM65 A0A3Q1MN	4	4	162,79	0,31876	-,	1,17269	0,16371	LL	HL	43243	60S ribosomal protein L4 OS=Bos taurus OX=9913 GN=RPL4 PE=1 SV=1	273106	414242	325270	578463	1389707	583095	335969	1243814	698080	1490632	269655	382992	1019701	687728	831350	816913
A0A3Q1LUI4 A0A3Q1LUI4_	6	6	524,79	.,.	0,52365	, .	0,16228	LL	HL		Calcium-transporting ATPase OS=Bos taurus OX=9913 GN=ATP2B2 PE=3 S	1816583	2649842	1647297	4855848	1736805	1827257	565354	2082049	1552601	5645133	3313724	4045983	1594532	1614218	1331404	1720929
G3N0Q8 G3N0Q8_BOVIN A0A3Q1M588 A0A3Q1M58	3	3	129,58 113.11	0,32379	0,52595 0.52698	1,04023	0,16125	HL	LL	26488	Azurocidin 1 OS=Bos taurus OX=9913 GN=AZU1 PE=1 SV=2	354 234820	47892 861385	5562 199173	14299 324296	7905 624285	1410 120927	321597 4437917	5313 448780	0 34070	96767 249957	0	1727 271235	49785 2110094	1567	10529 552106	255942 1235442
F1MFD9 F1MFD9_BOVIN;G	4	2	286,86	0,32512	.,.	1,08321	0,16061 0.16005	HL HL	LL LL	15289 83898	Histone domain-containing protein OS=Bos taurus OX=9913 PE=3 SV=1 Oxysterol-binding protein OS=Bos taurus OX=9913 GN=OSBPL10 PE=3 SV=	541593	332080	1082105	461549	774981	922942	772661	1057246	669208	96431	13605 474106	369480	457419	278126 1103624	1340495	289230
A0A452DJA8 A0A452DJA8_	2	2	105.44	0,32827		1,36612	0.1591	LL	HL	36450	Purine nucleoside phosphorylase OS=Bos taurus OX=9913 GN=PNP PE=4 S	84079	19604	59378	201749	42648	249896	82477	78759	81404	240332	423022	225019	31752	158813	64004	263891
A0A3Q1M643 A0A3Q1M64	2	2	92,71	0,33019	.,.	1,41424	0,15819	LL	HL	33814	ELMO domain-containing protein 2 OS=Bos taurus OX=9913 GN=ELMOD2	157083	107342	443249	746952	180750	633550	183452	550768	142633	831273	114457	776473	165913	734743	380594	758566
M0QVY0 M0QVY0_B0VIN;I	4	2	296,97	0,33155	0,5297	1,42605	0,15755	HL	LL	60767	IF rod domain-containing protein OS=Bos taurus OX=9913 GN=KRT6A PE=:	244853	31707	298069	285459	432738	79553	86104	753886	109863	161629	379957	709289	109307	90324	38546	206592
A0A3Q1LPS9 A0A3Q1LPS9_	3	3	258,08	0,33376	0,5297	1,15919	0,15652	LL	HL	44594	Uncharacterized protein OS=Bos taurus OX=9913 GN=TMEM43 PE=1 SV=1	302607	367253	379725	887189	455246	460530	602790	633427	456102	469976	566037	590279	836357	380194	412207	1072325
A0A3Q1M9K4 A0A3Q1M9K	4	4	250,37	0,33378	0,5297	1,08512	0,15651	HL	LL	31145	Elongation factor 1-delta OS=Bos taurus OX=9913 GN=EEF1D PE=4 SV=1	287156	344821	307316	209184	801745	370983	345030	610244	223583	125408	96806	97883	611213	665479	898022	239867
A0A3Q1N7N1 A0A3Q1N7N	2	2	119,1	0,33455	0,5297	1,2147	0,15616	HL	LL	95782	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 OS=Bos taurus	54238	70504	170977	32453	132317	70909	49916	105613	76497	8831	35947	31410	83475	92159	141404	27541
E1BPI3 E1BPI3_BOVIN A5PK13 LRC8C BOVIN	3	2	146,2 793.86	0,33832	0,53205	1,27273	0,15443	LL	HL	59243 92260	Tyrosine-protein kinase OS=Bos taurus OX=9913 GN=FRK PE=3 SV=2	49932 8987201	39324 9242699	53936 8846242	12957 22096903	79120 9506391	3153 6728047	16285 11103416	40601 6137405	88160 11708237	15970 23509665	9088 18016076	26793 19868175	79429 9462428	44773 11013986	60561 5901637	30695 22266962
A0A301M2A1 A0A301M2#	2	2	90.32	0.33886	0,53205	1,33436	0,15425	HL	HL LL	56759	Volume-regulated anion channel subunit LRRC8C OS=Bos taurus OX=9913 Tissue specific transplantation antigen P35B OS=Bos taurus OX=9913 GN=1	107717	192241	103937	78530	209406	143426	90491	153759	112164	47791	60579	93874	126993	172230	108966	24873
A6QLG51RS9 BOVIN:A0A3C	2	2	169.6	0.34466	0.53557	1,58216	0.15158	LL	HL	22578	40S ribosomal protein S9 OS=Bos taurus OX=9913 GN=RPS9 PE=2 SV=1	148083	70304	17820	21804	215527	38473	179315	425463	220387	131559	35407	30300	482865	321616	415206	50895
A0A3Q1LUU0 A0A3Q1LUU0	2	2	98,95	0,34658	0,53744	1,41469	0,15073	LL	HL	86592	Inositol polyphosphate-5-phosphatase B OS=Bos taurus OX=9913 GN=INPI	130455	126270	94920	145487	159894	91903	121505	122221	166794	261334	230036	242423	69980	56879	82594	187917
Q27965 HS71B_BOVIN; POC	13	9	691,23	0,34741	0,53762	1,16816	0,15037	HL	LL	70185	Heat shock 70 kDa protein 1B OS=Bos taurus OX=9913 GN=HSPA1B PE=2 5	1601916	1371376	1876003	700347	1352462	900125	694484	1401270	2111315	547440	718786	728155	848800	1638971	1607648	366297
F1MYX6 F1MYX6_BOVIN	2	2	110,06	0,35101	0,54095	1,14154	0,14881	HL	LL	57657	Solute carrier family 7 member 8 OS=Bos taurus OX=9913 GN=SLC7A8 PE=	288069	185696	386623	116293	139555	354301	216480	242889	239249	106337	274444	38919	163716	262407	197809	241010
F1MY82 F1MY82_BOVIN	4	4	415,35	0,35507	0,54479	1,15186	0,14707	HL	LL	77698	Protein kinase C eta type OS=Bos taurus OX=9913 GN=PRKCH PE=3 SV=1	1187404	1138957	1209542	564779	1303424	726763	1190745	773684	997500	188212	282704	543407	1838958	552035	1341301	498511
A0A3Q1M912 A0A3Q1M91	2	2	79,72	0,35857	0,54811	1,35093	0,1456	LL	HL	37274	Abhydrolase domain containing 5 OS=Bos taurus OX=9913 GN=ABHD5 PE=	128100 128786	242204 116101	219494	104783 15621	279575	157602 31817	207060 45734	304114	200806 90602	104231	429915 159608	97314	389483 106025	192900 99357	307753 109579	370415 19203
Q3ZCA1 LRAT1_BOVIN A0A3O1MWA3 A0A3O1MV	2	2	151,51 444.67	0,35967	0,54867 0.54962	1,23573	0,14514	LL	HL	33106 32281	Protein LRATD1 OS=Bos taurus OX=9913 GN=LRATD1 PE=2 SV=1 Ras-related protein Rab-1B OS=Ros taurus OX=9913 GN=RAB1B PE=4 SV=1	2931030	1142091	134176 2602037	1313001	53979 1895323	1918133	3211462	181983 2638486	1355772	110814 1481812	2372936	29699 1495974	3461535	4530849	4825124	3543662
A6H7F6 GLP3L BOVIN	4	3	286.14	0,36529	0.54962	1.16133	0.14283	LL	HL	32794	Golgi phosphoprotein 3-like OS=Bos taurus OX=9913 GN=GOLPH3L PE=2 S	1565718	827981	981815	2244341	1477568	1774472	1292330	1639223	1246630	3554343	2534271	2342337	1477326	1184270	1114635	2655321
A0A3Q1LWT5 A0A3Q1LWT	9	7	425,37	0,36642	0,54962	1,23828	0,14237	HL	LL	80019	Cyclin and CBS domain divalent metal cation transport mediator 3 OS=Bos	1077884	905895	689993	306999	856773	375802	1694754	1021932	773540	394756	406272	240401	1483226	794868	1090788	227939
Q1RMU4 ERLN2_BOVIN;A0	2	2	103,59	0,36907	0,54962	1,52586	0,1413	HL	LL	37706	Erlin-2 OS=Bos taurus OX=9913 GN=ERLIN2 PE=2 SV=1	511341	511856	415864	164387	256060	559721	516709	358533	340478	45373	72730	127516	540899	266587	305099	131176
Q148L0 Q148L0_BOVIN	2	2	83,94	0,37064	0,54962	1,35013	0,14068	HL	LL	23492	Charged multivesicular body protein 6 OS=Bos taurus OX=9913 GN=CHMP	431935	374567	529266	247420	398233	352738	425226	442378	246810	101464	111393	324312	326741	420075	608304	87601
F1N334 F1N334_BOVIN;O7	4	4	368,24	0,37274	-,	1,19885	0,13985	HL	LL	33509	Short-chain dehydrogenase/reductase 3 OS=Bos taurus OX=9913 GN=DHR	7355212	3304955	3081445	1083571	2769045	864777	6336392	4120168	2781260	1019701	1297842	762488	4351180	6762955	4374762	865542
Q08E42 Q08E42_BOVIN	7	7	433,88	0,37286	-,	1,08057	0,1398	LL	HL	93951	Leucine rich repeat containing 8 VRAC subunit A OS=Bos taurus OX=9913 (3101283	2694355	1721895	2310617	3831847	2194458	4104028	2521656	3653899	3292744	4116490	3263449	3880344	2597524	2681827	1923321
A0A3Q1LPY4 A0A3Q1LPY4_ A0A3Q1NEH7 A0A3Q1NEH	2	2	123,36 264.37	0,37473	0,54962 0.54962	1,12847	0,13906 0.13884	HL	LL LL	43940	Poly(rC) binding protein 2 OS=Bos taurus OX=9913 GN=PCBP2 PE=1 SV=1 Capping protein regulator and myosin 1 linker 1 OS=Bos taurus OX=9913 G	343792 48775	217411 240458	373015 138913	405435 955907	465414 568197	392060 78529	355272 67071	594113 446320	290779 358415	274531 317582	281000 356820	342514 419463	598298 308297	314106 179420	389780 355975	368287 211627
F1MNY2 F1MNY2 BOVIN	7	7	468,47	0,3753	.,	1,35831	0,13884	HL	LL		Cell migration inducing hyaluronidase 2 OS=Bos taurus OX=9913 GN=CEM	643306	591511	582491	399490	406151	410708	202037	759960	859364	288301	169261	160131	308297	532595	705832	76687
Q1LZA3 ASNS_BOVIN	5	5	331,93	0.37709	.,	1.16147	0.13815	HL	LL	64179	Asparagine synthetase [glutamine-hydrolyzing] OS=Bos taurus OX=9913 Gl	705043	882389	975750	274863	1415487	622329	1033421	1306495	1013541	421775	436088	308480	1687107	876696	1080508	289137
Q2KI18 PLPL2 BOVIN	6	6	242,84	0,37921	0,55012	1,47236	0,13733	HL	LL	53382	Patatin-like phospholipase domain-containing protein 2 OS=Bos taurus OX	3011037	3532769	2395467	352697	1050195	1701234	3545251	758703	1300822	1032894	606766	494695	1940568	1339258	2147901	898017
A0A3Q1LUA9 A0A3Q1LUA9	2	2	92,68	0,37963	0,55012	1,20167	0,13717	LL	HL	48404	Target of myb1 like 1 membrane trafficking protein OS=Bos taurus OX=99:	706070	811580	315890	744687	640185	229595	613206	455717	702051	730733	564971	903577	497355	141230	491358	728364
A0A3Q1M757 A0A3Q1M75	3	3	178,52	0,38218	0,55275	1,15165	0,1362	HL	LL	41170	Mitogen-activated protein kinase OS=Bos taurus OX=9913 GN=MAPK13 PE	968187	811913	914154	341797	653854	559780	975546	799397	642834	369556	346212	531476	907742	651523	1025929	269151
A0A3Q1LXL9 A0A3Q1LXL9_	3	3	154,98	0,38652	0,55795	1,29493	0,13456	HL	LL	86546	Transmembrane protein 63A OS=Bos taurus OX=9913 GN=TMEM63A PE=	168836	237737	423525	79887	290365	364817	392753	339155	225401	18080	87628	166591	209320	319333	439292	125713
A7Z024 A7Z024_BOVIN;Q5	6	6	290,8	0,3875	0,55829	1,17566	0,1342	HL	LL	39434	Protein XRP2 OS=Bos taurus OX=9913 GN=RP2 PE=2 SV=1	2662179	3048154	4611882	1183261	3242550	3285045	3077082	4232105	1996615	812435	1700868	1250684	3147671	3834301	4998354	1413434
A6H704 A6H704_BOVIN A0A3Q1MDC6 A0A3Q1MDI	4	4	245,01 135.09	0,3925	0,55944	1,25062	0,13236	LL LL	HL HL	50613 83993	CHMP7 protein OS=Bos taurus OX=9913 GN=CHMP7 PE=2 SV=1 Nicastrin OS=Bos taurus OX=9913 GN=NCSTN PE=1 SV=1	597289 710934	1153600 608373	488726 927554	206140 1397805	512983 405069	481807 590173	1058043 1259397	766405 401980	1289409 546273	740534 955878	1291862 1746305	697627 2561913	1080154 729400	658528 647946	536603 788429	158810 303636
A0A3Q1IVIDCU A0A3Q1IVIDI	4	4	207.01	0,39593	0.56131	1,34949	0.13112	LL	HL	68350	Sorting nexin OS=Bos taurus OX=9913 GN=SNX9 PE=3 SV=1	430682	581075	442893	1077067	622040	528809	411839	597469	609460	1716090	821430	890746	436537	333892	355836	1059981
A0A3Q1LR68 A0A3Q1LR68	2	2	72,32	0,39703	0,56131	1,57967	0,13073	HL	LL	97296	E3 ubiquitin-protein ligase OS=Bos taurus OX=9913 GN=ITCH PE=4 SV=1	84157	122723	153392	41918	87873	164027	169614	87833	80413	11499	38493	35507	140696	72268	99003	9456
P61284 RL12_BOVIN;G3MZ	3	3	142,05	0,39706	0,56131	1,71759	0,13072	LL	HL	17808	60S ribosomal protein L12 OS=Bos taurus OX=9913 GN=RPL12 PE=2 SV=1	34126	32202	14828	26652	98506	49991	136175	265041	79042	188338	4270	20269	265529	144798	230972	250696
A0A3Q1MLH4 A0A3Q1MLH	3	3	187,54	0,39856	0,56137	1,59522	0,13018	LL	HL	34500	Very-long-chain 3-oxoacyl-CoA reductase OS=Bos taurus OX=9913 GN=HS	71265	98971	69154	26318	253948	99432	352028	283615	151730	57325	97226	35109	610499	293118	397010	258034
A0A3Q1M280 A0A3Q1M28	3	3	174,56	0,39893	0,56137	1,16476	0,13005	LL	HL	24452	Ubiquitin domain-containing protein 1 OS=Bos taurus OX=9913 GN=UBTD:	1208316	794827	480485	129138	521642	423591	1129702	975505	828027	272306	846262	540525	1301811	776017	1003845	202912
Q3MHE8 SRPRA_BOVIN	3	3	119,3	0,39934	-,	1,08606	0,1299	HL	LL	69852	Signal recognition particle receptor subunit alpha OS=Bos taurus OX=9913	878980	859229	687500	107658	926286	534638	645249	857997	1277436	227777	195688	170633	1028977	914551	895834	125633
A0A452DIB1 A0A452DIB1_I A7MBH9 A7MBH9 BOVIN	8	8	648,18 597.99	0,40101	-,	1,26461	0,12931	LL LL	HL	25952 40451	Ras-related protein Rab-18 OS=Bos taurus OX=9913 GN=RAB18 PE=4 SV=1 G protein subunit alpha i2 OS=Bos taurus OX=9913 GN=GNAI2 PE=2 SV=1	86889952 2610103	41644239 1561623	55294414 2278230	37893521 3871594	51988411 4039050	52538875 2657625	82784605 2447274	70450944 2949237	60094696 4022541	33160127 6783303	48793998 4129759	44029210 4466256	98665403 4106389	107225748 2016788	118876544 2731777	42672066 4668808
A0A3Q1LVE7 A0A3Q1LVE7	3	3	155.52	0,40246	0,5625	1.05407	0.12831	HL	LL	69572	Polyadenylate-binding protein OS=Bos taurus OX=9913 GN=GNAIZ PE=2 SV=1	14624	23819	51213	35007	182128	23627	2224	157358	39049	91722	4129739	5379	111105	105809	146361	15632
A0A3Q1LQ02 A0A3Q1LQ02	2	2	86.51	0.40802	0.56513	1.14221	0.12688	HL	LL	53627	Vitamin D-binding protein OS=Bos taurus OX=9913 GN=GC PE=4 SV=1	193888	61756	76868	154352	115559	106845	35442	188439	88795	148108	143711	216517	12598	39253	79076	33565
A0A3Q1M994 A0A3Q1M99	2	2	106,54	0,41366	0,56979	1,20927	0,12497	HL	LL	59498	Polypyrimidine tract-binding protein 1 OS=Bos taurus OX=9913 GN=PTBP1	12873	85483	26997	8471	144844	102093	109196	169919	108385	52783	10880	4138	139534	35264	161562	18262
A0A3Q1LQD0 A0A3Q1LQD0	2	2	141,43	0,41738	0,57186	1,0664	0,12373	LL	HL	29363	40S ribosomal protein S4 OS=Bos taurus OX=9913 PE=3 SV=1	123765	91205	22623	37530	189149	8970	227469	260678	103486	35424	1509	23011	394443	20525	400968	19893
A0A3Q1M2Q0 A0A3Q1M20	2	2	108,23	0,42103	-,	1,08159	0,12253	HL	LL	48881	F-box/LRR-repeat protein 20 OS=Bos taurus OX=9913 GN=FBXL20 PE=4 SV	692766	603649	614787	171952	481754	650119	733836	365601	379850	177311	155480	149428	822700	760801	772149	271052
Q0P5A6 PSMD5_BOVIN	2	2	115,76	0,42277	0,57186 0.57282	1,05441	0,12197	HL	LL	56007	26S proteasome non-ATPase regulatory subunit 5 OS=Bos taurus OX=9913	18844 140353	77801	66359 57028	8457 44422	160446 266463	50034	43606 185744	123992 323442	80773	41071	18684	2635	3653 390086	132031 99861	131087 214723	9070 96305
A0A3Q1LV44 A0A3Q1LV44 A0A3Q1MIK4 A0A3Q1MIK4	3	2	243,02 220.35	0,4258	0,57282	1,18094	0,12099 0.12082	HL	HL LL	56274 32129	Aldehyde dehydrogenase OS=Bos taurus OX=9913 GN=ALDH3A2 PE=1 SV= Phospholipid phosphatase 1 OS=Bos taurus OX=9913 GN=PLPP1 PE=4 SV=	584146	163984 324914	1141752	308658	499778	188110 509295	672983	794543	181127 608335	75240 72522	325693 238545	173148 148140	709589	819171	1058023	338910
A0A452DII8 A0A452DII8 BC	7	7	578,2	0,42787	-,	1,18962	0,12082	II.	HL	62187	ATP synthase subunit beta OS=Bos taurus OX=9913 GN=ATP5F1B PE=3 SV=	428718	985397	744464	1002386	3306460	524057	1514109	2758033	915406	832516	540749	1381678	3390757	1809383	3137438	1610202
A0A3S5ZPX3 A0A3S5ZPX3	3	2	313,12		0,57282		.,	HL	LL	48985	Mitogen-activated protein kinase kinase 2 OS=Bos taurus OX=9913 GN=M	1340658	1646129	2746069	662909	718161	3112468	2596888	568109	873793	640855	3281537	744503	1899490	3408710	692228	938980
A7MB32 A7MB32_BOVIN	3	3	250,21		0,57282			HL	LL	53896	Non-specific serine/threonine protein kinase OS=Bos taurus OX=9913 GN=	344610	497765	658496	549027	398430	290815	398337	403362	451384	650063	228354	568658	371401	254147	437143	231369
A0A3Q1M4K3 A0A3Q1M4K	5	5	369,73	0,43111	0,57282	1,05476	0,11931	HL	LL	8629	Ubiquitin-like domain-containing protein OS=Bos taurus OX=9913 GN=LOC	32063131	25420589	38960640	14941353	26841077	23084397	29532599	27352362	31394633	5122200	22610205	14672450	33838597	39439830	40000537	13591545
Q0VD16 Q0VD16_BOVIN	4	3	366,68		0,57282			HL	LL		MAP2K1 protein OS=Bos taurus OX=9913 GN=MAP2K1 PE=2 SV=2	216322	417698	859034	265268	763784	405863	264121	456611	351107	140052	116578	244224	333306	570272	889421	91068
A0A3Q1MFG3 A0A3Q1MFG	3	3	258,11	.,	0,57282			LL	HL	35025	40S ribosomal protein SA OS=Bos taurus OX=9913 GN=RPSA PE=1 SV=1	123439	163294	119487	134956	247196	137331	160176	628860	241397	294522	180576	86011	374046	202551	219380	321559
A0A3Q1NDH3 A0A3Q1NDH	2	2	84,88	0,4346				HL	LL	41055	Endophilin-B1 OS=Bos taurus OX=9913 GN=SH3GLB1 PE=4 SV=1	35428	16871	285946	11726	70659	30375	93528	58277	11365	321	20772	8932	51866	17177	137605	14392
A0A3Q1LSW8 A0A3Q1LSW: G3MXZ0 G3MXZ0 BOVIN	4	4	139,5 303,52	0,436	0,57282 0.57282		0,11779 0,1175	HL HL	LL LL	104833 82664	Serine/threonine-protein kinase N1 OS=Bos taurus OX=9913 GN=PKN1 PE: Lactoperoxidase OS=Bos taurus OX=9913 GN=LPO PE=1 SV=2	51332 799751	87194 751902	84417 777468	55309 1245440	313068 1427445	140825 794097	62616 2389125	213707 1828835	248868 830184	104754 3851284	48477 1888942	111478 1356978	232393 1206807	60697 703902	138614 439768	16086 2094564
A0A3Q1LVE3 A0A3Q1LVE3	2	2	202,14	-,	0,57282			LL	HL	34097	Leukocyte surface antigen CD47 OS=Bos taurus OX=9913 GN=CD47 PE=4 5	4126832	5466289	6775698	9060640	2162107	2104076	4527530	2577275	4359214	6120957	7682398	8812877	3431524	3523605	2725248	5820995
O77834 PRDX6_BOVIN; AOA	4	4	320,08		0,57282	1,34078		LL	HL	25051	Peroxiredoxin-6 OS=Bos taurus OX=9913 GN=PRDX6 PE=1 SV=3	387499	156460	291026	162015	149295	164945	219399	413213	199078	196798	84367	126803	372170	377796	574512	513839
A0A3Q1M909 A0A3Q1M90	2	2	118,93		0,57282	1,2682	0,11637	LL	HL		Mitochondrial peptide methionine sulfoxide reductase OS=Bos taurus OX=	167940	7441	74223	101721	50547	30752	77976	101326	13105	53966	86016	60269	72992	122171	191262	135905
A0A3Q1M483 A0A3Q1M48	57	57	3913,65	-,	0,57282	,	.,	HL	LL		Acetyl-CoA carboxylase 1 OS=Bos taurus OX=9913 GN=ACACA PE=4 SV=1	20454389	39590692	22588704	8165981	48701261	51716730	26388899	23409615	22234935	34940222	21825629	8468522	32663474	28016578	21805362	6691112
Q3ZCK1 EIF3L_BOVIN	2	2	80,54	0,44307	-,-		0,11565	HL	LL	66684	Eukaryotic translation initiation factor 3 subunit L OS=Bos taurus OX=9913	3583	29838	45502	6051	46092	23496	9439	63591	36927	5201	2513	9910	25847	45610	40644	8079
F1MXJ5 F1MXJ5_BOVIN	2	2	97,5	0,44401	.,.	1,12998		HL	LL		IST1 homolog OS=Bos taurus OX=9913 GN=IST1 PE=4 SV=3	9061	89826	16800	62329	13766	69434	247025	28669	40066	38111	31367	4534	13142	107193	10643	23873
A0A3Q1LIM0 A0A3Q1LIM0 F1MMV6 F1MMV6 BOVIN:	14 3	5 2	839,09 142.28		0,57282	1,29654		LL HL	HL LL	140976 38769	Uncharacterized protein OS=Bos taurus OX=9913 GN=LOC100848700 PE= Calcium binding protein 39 like OS=Bos taurus OX=9913 GN=CAB39L PE=4	1563686 136921	1995186 122863	964482 121081	75236 16255	1056287 115579	1847226 61388	347025 117121	1154033 140550	2471067 58785	1441159 39821	1210484 53425	203920 35202	1534192 148196	2252619 97816	1431337 156874	231406 58113
P05631 ATPG_BOVIN	2	2	92,35	0,44642	-,	-,	-,	LL	HL	33051	ATP synthase subunit gamma, mitochondrial OS=80s taurus OX=9913 GN=	4946	8321	19534	1675	70365	16472	60313	76250	19113	1582	3584	7600	156855	80128	143411	28091
A0A3Q1M6Y5 A0A3Q1M6Y	6	6	335,5	- /	0,57282			HL	LL	39078	Guanine nucleotide-binding protein G(o) subunit alpha OS=Bos taurus OX=	8565907	5069006	7276419	4364126	5880222	3769010	8352418	7049364	6492314	1377770	3977906	3883009	7790202	11139010	8240092	4199868
A0A3Q1N6D1 A0A3Q1N6D	5	5	294,5		0,57282			HL	LL	40622	Macrophage-capping protein OS=Bos taurus OX=9913 GN=CAPG PE=1 SV=	215195	217069	206219	192291	644624	318870	233987	511108	285343	87724	65095	160247	402490	276548	555740	104457
Q2KIS4 Q2KIS4_BOVIN;A0A	7	7	443,54	0,4525	0,57282	1,06735	0,11287	HL	LL	33998	Dehydrogenase/reductase (SDR family) member 1 OS=Bos taurus OX=991	4002119	1061026	2369728	3314348	4137221	5111220	4974180	5967995	4334056	6839259	3730257	4531327	2643759	7727021	6964703	6354844

Q08D86 GLPK5_BOVIN	3	3	109,3		0,57282		0,11284	LL	HL	58727	Putative glycerol kinase 5 OS=Bos taurus OX=9913 GN=GK5 PE=2 SV=1	885881	813651	573714	1714239	1051665	1831005	1248348	1552208	1033541	2369053	1658108	1727776	892988	424095	1248130	1839194
A0A3Q1M8R8 A0A3Q1M8F A0A3Q1MSN7 A0A3Q1MSN	5	2	372,78 93.82	0,453	-,	-,	0,11273	LL	HL	24754 65636	Transmembrane protein 263 OS=Bos taurus OX=9913 GN=TMEM263 PE=4	4365100 21913	2776695 75814	2439239 38538	1699710 18784	1684194 147496	2387345 52472	4822262 44116	2858689 108370	3065403 91278	2881585 92964	2961243 50495	2196388 53711	4163800 124427	5083917 39965	4118984 51381	1810357 91176
G3N2S41G3N2S4 BOVIN	4	3	235.87	-,	-,	-,	0.11207	LL	HL LL	34398	Coenzyme A synthase OS=Bos taurus OX=9913 GN=COASY PE=3 SV=1 Leucine rich repeat containing 26 OS=Bos taurus OX=9913 GN=LRRC26 PE:	326635	174593	137979	203269	598702	432356	542942	522597	149805	203084	36228	332823	603233	157288	317048	411297
Q76LV21HS90A BOVIN:A0A	13	5	1003.46	.,	.,.	,	0.11049	HI	LL	04670	Heat shock protein HSP 90-alpha OS=Bos taurus OX=9913 GN=HSP90AA1	1937635	1722759	2072921	739589	3109930	1837118	1658066	4094833	2977991	546055	1385644	630653	3747236	2343857	3023382	1075135
F1MGK8 F1MGK8 BOVIN	2	2	110.69	0,46087		1,13238	0,11045	II.	HL	42140	Oncostatin M receptor OS=Bos taurus OX=9913 GN=OSMR PE=4 SV=3	164731	283606	238046	165856	201750	51483	207227	160098	168637	271266	299063	298064	238344	31847	227994	316985
P68138 ACTS BOVIN;G8JKX	12	5	1005,34	0.4643	.,.	,	0.10954	HL	LL	42024	Actin, alpha skeletal muscle OS=Bos taurus OX=9913 GN=ACTA1 PE=1 SV=	13544638	18355798	8733833	14172765	18661697	22708149	17045928	19785706	13167254	20504513	22083120	18712412	10109555	10950581	15293174	14260464
A0A3Q1NJ45 A0A3Q1NJ45	2	2	137.42	0.46574			0.10914	HL	LL	43081	Palmitoyltransferase OS=Bos taurus OX=9913 GN=ZDHHC20 PE=3 SV=1	551885	309176	355325	321219	155605	206603	339736	345997	389484	56216	140563	310469	133885	470197	333620	339469
A0A3Q1MS82 A0A3Q1MS8	5	5	467,76	0,46677		1,17863	0,10886	LL	HL	71015	Dolichyl-diphosphooligosaccharideprotein glycosyltransferase subunit 2 (526441	986431	290805	1227796	1062458	924048	956911	1581004	1243013	2543871	1183404	1083130	1623092	432264	633551	1434047
A3KN51 A3KN51 BOVIN	3	3	204,55	0,46743	0,57282	1,03201	0,10868	LL	HL	44027	TSG101 protein OS=Bos taurus OX=9913 GN=TSG101 PE=2 SV=1	656273	418514	136968	179476	341710	316171	634837	353776	385279	510092	382486	407463	462706	303094	238658	299903
A0A452DIW1 A0A452DIW1	3	3	233,07	0,46938	0,57282	1,32962	0,10814	LL	HL	34517	60S ribosomal protein L10 OS=Bos taurus OX=9913 GN=RPL10 PE=4 SV=1	274831	215779	271668	173178	460338	185417	398478	768417	347318	303035	144108	153118	896783	606945	929757	685518
Q1JQD4 GIPC2_BOVIN;A0A	12	12	1008,21	0,46991	0,57282	1,07667	0,108	HL	LL	34478	PDZ domain-containing protein GIPC2 OS=Bos taurus OX=9913 GN=GIPC2	24156575	18731553	20683868	9702983	13178444	15738149	23520110	20193277	13428170	5699257	12742010	9841077	26400686	18034936	29829476	10688852
A0A3Q1M656 A0A3Q1M65	2	2	98,88	0,47071	0,57282	1,08745	0,10778	LL	HL	30395	40S ribosomal protein S2 OS=Bos taurus OX=9913 GN=RPS2 PE=3 SV=1	66272	64431	51362	19798	168852	30718	85331	242330	101640	178548	62056	39129	193035	125812	191307	289971
F1N480 F1N480_BOVIN	2	2	57,32	0,47074	0,57282	1,3131	0,10778	HL	LL	30837	Tetratricopeptide repeat domain 39C OS=Bos taurus OX=9913 GN=TTC39C	6828	20401	84733	16547	79683	15671	13475	73253	52552	3217	2917	19580	32961	17083	84217	3713
A0A140T856 A0A140T856_	8	8	474,54	0,47111	0,57282	-,	0,10768	LL	HL	138257	Coatomer subunit alpha OS=Bos taurus OX=9913 GN=COPA PE=4 SV=1	109388	141755	86453	122843	569718	137057	125764	615257	620108	451255	381540	191345	383507	128308	261083	157587
Q6EWQ7 IF5A1_BOVIN;F1N	2	2	175,18	0,47146	0,57282	-,	0,10758	LL	HL	16821	Eukaryotic translation initiation factor 5A-1 OS=Bos taurus OX=9913 GN=E	2037412	1684866	1481287	928981	2187940	1668968	1778909	2361375	1927061	1149145	792417	776689	3052732	3562657	3758783	1520208
Q17QZ0 Q17QZ0_BOVIN;A(3	3	186,21	0,47598	0,57609	-,	0,10637	HL	LL	64244	Non-specific serine/threonine protein kinase OS=Bos taurus OX=9913 GN=	722137	540243	644082	253066	446464	734355	767010	567182	535008	36894	136196	333370	708649	701997	1306522	172270
F6R0H3 F6R0H3_BOVIN	4	4	194,09	0,47645	-,	-,	0,10625	HL	LL	68692	Syntaxin-binding protein 1 OS=Bos taurus OX=9913 GN=STXBP1 PE=3 SV=1	79266	247073	128278	154547	390088	140678	97902	310519	87839	142066	40968	145516	127410	171756	277698	31115
Q2KJ46 PSMD3_BOVIN	4	4	236,99	0,47925	0,57761	,	0,10552 0.10524	HL	LL	31268	26S proteasome non-ATPase regulatory subunit 3 OS=Bos taurus OX=9913 STOM protein OS=Bos taurus OX=9913 GN=STOM PE=1 SV=1	113075 60373522	156298 91349651	80040	280821	511390	160373	267055	791264	364975	298997	286559	222471	419829	133036	435775	343803 69267585
A8E4P3 A8E4P3_BOVIN;F1P A5PJM4 AIFM2_BOVIN;A0A	2	2	812,36 155,65	0,48031	0,57797 0,58184	,	0.10524	HL	LL LL	40451	Apoptosis-inducing factor 2 OS=Bos taurus OX=9913 GN=S1OM PE=1 SV=1	140791	313468	45803924 202998	43134514 75011	39847355 271145	25209749 64003	144435301 225860	93181780 177576	19864629 128856	81614509 4932	30327742 11869	31838312 83330	67066620 204921	56668220 149209	98576100 491355	100302
Q58DW6 RAB25 BOVIN	6		303.63	0.4855	0.58227	1.05376	0.10421	HI	LL	23522	Ras-related protein Rab-25 OS=Bos taurus OX=9913 GN=RAB25 PE=2 SV=1	5047864	1783318	3110348	1868010	2112387	1669386	4357330	3551078	1960337	836751	1237432	2080896	4922255	3521649	5000819	2100148
A0A3Q1LMX0IA0A3Q1LMX	13	13	1031.05	0.49617	.,	-,	0.10122	HL	LL	31587	NADH-cytochrome b5 reductase OS=Bos taurus OX=9913 GN=CYB5R3 PE=	48945774	22467884	24836033	12809855	15500960	20073457	44437268	18138008	22849867	9369769	15504552	12491978	29385753	21111300	32602674	12730610
A0A140T886LA0A140T886	5	5	198.42	0.50173	0.59186	1.15597	0.09987	HI	LL	97337	Coatomer subunit gamma OS=Bos taurus OX=9913 GN=COPG1 PE=3 SV=1	11533	41491	66704	87039	294607	53841	36794	263784	160704	63856	76644	100806	66541	127465	155327	25560
Q3T0D7 SAR1A BOVIN	7	3	504.39	0.50176	0.59186	1.32939	0.09986	LL	HL	22395	GTP-binding protein SAR1a OS=Bos taurus OX=9913 GN=SAR1A PE=2 SV=1	6168849	3370327	5310904	805108	2583967	1740227	7634330	4739220	4901527	2012760	1896708	1508192	7998505	9629022	8519503	2941069
A0A3Q1ML89 A0A3Q1ML8	16	6	1057,09	0,50208	0,59186	1,04839	0,09979	LL	HL	138573	Uncharacterized protein OS=Bos taurus OX=9913 GN=LOC100299180 PE=	1531101	2346252	1064929	1373230	2252867	3462122	349561	958416	1177477	2324857	1421763	1063437	2569770	3413401	1223265	800798
A0A3Q1LMS5 A0A3Q1LMS!	13	10	1094,99	0,50385	0,59206	1,04587	0,09936	HL	LL	71720	Heat shock cognate 71 kDa protein OS=Bos taurus OX=9913 GN=HSPA8 PE	14052058	11078066	11955207	6117322	14415107	6326820	11445384	12064999	17909468	3651884	4215081	10563883	14311828	14816749	12424865	3998545
A0A140T888 A0A140T888_	3	3	150,06	0,50504	0,59206	1,33858	0,09908	LL	HL	235129	Phosphatidylinositol 4-kinase alpha OS=Bos taurus OX=9913 GN=PI4KA PE	112336	45241	103300	81442	179310	61323	185851	161970	175769	129863	359770	203565	144380	31431	44482	264051
F6PXR5 F6PXR5_BOVIN	7	7	450,19	0,50828	0,59295	1,10906	0,09831	HL	LL	99376	Toll like receptor 5 OS=Bos taurus OX=9913 GN=TLR5 PE=3 SV=1	656318	385818	1274207	427366	857929	349742	440053	1433580	706510	313342	684928	336954	661733	754843	1552446	112707
Q17QE5 CIB1_BOVIN;A0A3	5	5	291,96	0,50937	0,59301	1,11349	0,09805	LL	HL	21715	Calcium and integrin-binding protein 1 OS=Bos taurus OX=9913 GN=CIB1 F	265167	183733	417259	428224	248885	354553	631412	571397	297206	666838	143540	478809	422136	499323	790716	1026173
A0A3Q1MF86 A0A3Q1MF8	2	2	96,1	0,51261	0,5944	1,15497	0,0973	HL	LL	41429	Actin related protein 1A OS=Bos taurus OX=9913 GN=ACTR1A PE=1 SV=1	191938	107710	232921	252069	452020	135794	183952	262743	308385	249434	165431	108231	173004	120645	224291	213771
Q3ZC84 CNDP2_BOVIN;A0/	6	6	258,27	0,51293	0,5944	1,04325	0,09723	LL	HL		Cytosolic non-specific dipeptidase OS=Bos taurus OX=9913 GN=CNDP2 PE:	1282737	894065	806696	481506	2155611	685300	1067291	1620978	956320	1397613	821232	751984	1272702	855639	1746161	824225
F1MX65 F1MX65_BOVIN	2	2	134,64	0,51517	0,59537	,	0,09671	HL	LL	74218	Protein OS-9 OS=Bos taurus OX=9913 GN=OS9 PE=4 SV=2	45008	67773	58630	11090	151594	5891	39569	218347	90686	13223	6389	18021	166857	108513	143356	5305
Q3SWY3 IMDH2_BOVIN	2	2	120,64	0,51635	.,	,	0,09644	HL	LL	55728	Inosine-5'-monophosphate dehydrogenase 2 OS=Bos taurus OX=9913 GN=	76659	164622	31652	38016	639270	10468	81030	796480	276784	40862	6508	11796	574528	237172	219263	4392
A0A3Q1LRW8 A0A3Q1LRW	4	3	234,59	0,51671	-,	-,	0,09636	HL	LL	49223	60S ribosomal protein L3 OS=Bos taurus OX=9913 GN=RPL3 PE=1 SV=1	33139	257138	130663	54578	779114	273887	59626	724769	336010	15209	59783	29794	301483	339901	636034	194924
Q6QRN7 Q6QRN7_BOVIN	2	2	207,5	0,51975	0,5956	,	0,09567	LL	HL	33926	PP1201 protein OS=Bos taurus OX=9913 GN=TMBIM1 PE=2 SV=1	3370472	3089234	5843183	6582117	3440695	4106714	3422831	3065683	3264034	4091763	10676616	5215582	2099299	4647436	2161232	5113864
A0A3Q1MJY5 A0A3Q1MJY5	2	2	126,39	0,52015	0,5956	-,	0,09558	HL	LL	45486	Arrestin domain containing 1 OS=Bos taurus OX=9913 GN=ARRDC1 PE=4 S	280237	244679	357735	85660	267558	317503	409323	189169	206970	80911	94129	108331	273063	391600	301144	61788
A0A3Q1LM10 A0A3Q1LM1	2	2	111,72	0,52031	0,5956	1,05693	0,09554	LL	HL	//068	Erythrocyte membrane protein band 4.1 like 4A OS=Bos taurus OX=9913 €	27676	29560	93351	24527	39395	56816	13149 743480	29033	6631	3299	95426	67610	21765	92212	46755	23792
A0A3Q1MB98 A0A3Q1MB9	2	2	83,55	0,52172	0,59632	1,34309	0,09523	HL	LL	43744	Haptoglobin OS=Bos taurus OX=9913 GN=HP PE=3 SV=1	20091 11874	285530	1020	22740	83954	2843		3290	0	144280	0	3744	88792	47052	10667	718876
Q3T165 PHB_BOVIN E1BEI2 E1BEI2 BOVIN	2	2	83,8 91.7	0,53246	-,	-,	0.09287	LL	HL LL	29786 24872	Prohibitin OS=Bos taurus OX=9913 GN=PHB PE=2 SV=1 Signal peptidase complex subunit 2 OS=Bos taurus OX=9913 GN=SPCS2 PE	135671	20584 159671	1839 117867	15647	66227 39631	17803 325063	106700	118644 143388	10659 131922	4938 907	1886 53421	9056 16593	194518 3589	47652 223570	180651 163739	77754 37337
F1MLD7 F1MLD7 BOVIN	3	3	139.07	0,53430	-,	-,	0.09059	HI	LL	92780	Uncharacterized protein OS=Bos taurus OX=9913 GN=EFR3A PE=4 SV=3	178347	118961	295706	257086	357917	174148	268779	405775	332612	281574	490639	568182	216912	103423	157656	199377
A0A301M0I1 A0A301M0I1	9	2	509.75	0.54853	0.61341	-,	0.08951	HI	LL	134669	Uncharacterized protein OS=Bos taurus OX=9913 GN=LOC523126 PE=4 SV	1065745	1477946	646204	196696	1989193	1739839	407895	620399	855817	191091	227373	221424	2969060	1651339	748959	103564
O9TT94 LACOD BOVIN	6	6	586.17	0.54863	0.61341	-,	0.08949	11	HL	41678	Acyl-CoA desaturase OS=Bos taurus OX=9913 GN=SCD PE=2 SV=2	3630632	2946491	5747437	1492075	5180964	3113087	4626246	7881150	4043073	1727600	2442522	2836704	8153637	8443483	8810477	2158846
Q29455 DNJC5 BOVIN	3	2	335.38	0.54932	0,61341	,	0.08935	LL	HL	22118	DnaJ homolog subfamily C member 5 OS=Bos taurus OX=9913 GN=DNAJC	1308176	984098	832374	367905	858664	1291355	1474264	972871	681640	58893	431983	329303	1742903	1889869	2496823	483664
A0A3Q1LYA8 A0A3Q1LYA8	3	3	258,97	0,55361			0,08849	LL	HL	47844	Oxysterol-binding protein OS=Bos taurus OX=9913 PE=3 SV=1	2201329	2714295	2773410	2002752	3894743	4953606	3081049	2639453	1939456	7800893	8487524	3852569	2708286	783261	2423449	4186404
A0A3Q1M3K3 A0A3Q1M3K	2	2	142,16	0,55646			0,08792	LL	HL	52225	Mothers against decapentaplegic homolog OS=Bos taurus OX=9913 GN=SI	340383	505609	684289	1028252	415659	172371	443834	334296	513613	297640	713664	1057811	600635	260854	668248	371562
A0A3Q1M633 A0A3Q1M63	4	3	255,8	0,55648	0,61577	1,10562	0,08792	LL	HL	65604	Mucin-1 OS=Bos taurus OX=9913 GN=MUC1 PE=4 SV=1	32937354	12212498	12342770	10262314	36385894	29800963	15946485	13838021	8006172	16694669	30610284	14781640	54134426	16145773	31338311	16658913
A0A3Q1LUA4 A0A3Q1LUA4	3	3	199,63	0,55729	0,61577	1,22262	0,08776	LL	HL	51074	Proteasome 26S subunit, ATPase 1 OS=Bos taurus OX=9913 GN=PSMC1 PE	59095	89539	54810	61317	124732	107824	160777	234246	154404	198816	247658	107550	216988	14011	156556	146183
E1BPW1 E1BPW1_BOVIN	5	5	511,94	0,55758	0,61577	1,02408	0,0877	HL	LL	89082	Oxysterol-binding protein OS=Bos taurus OX=9913 GN=OSBP PE=3 SV=3	1646903	2377610	2174433	658696	2271451	993770	2314284	2038215	2124947	270630	1177295	761870	3048370	2170336	2951380	560370
A0A452DI48 A0A452DI48_E	3	3	251,69	0,56069	0,61806	1,13464	0,08709	LL	HL	41913	Tubulin beta chain OS=Bos taurus OX=9913 GN=TUBB2B PE=3 SV=1	681639	872258	957848	1086801	1636525	1024024	1027509	1341839	1151152	2741698	1459779	1292178	854334	886810	794909	1347549
A0A3Q1LPN6 A0A3Q1LPN6	3	3	234,03	0,56139	.,	1,02534	0,08696	LL	HL	43404	26S proteasome regulatory subunit 8 OS=Bos taurus OX=9913 GN=PSMC5	18156	67535	49881	43	191671	95938	12560	208420	137921	89870	60778	13177	98196	104504	99262	53798
A0A3Q1NHB5 A0A3Q1NHB	2	2	129,59	0,56211	-,	-,	0,08682	HL	LL	26262	Phosphomannomutase OS=Bos taurus OX=9913 GN=LOC782057 PE=3 SV=	589526	1029517	535552	258840	721975	872045	761289	494787	521161	183042	246167	297012	733106	876485	840218	263016
A0A3Q1LMB7 A0A3Q1LMB	2	2	103	0,56875	-,	-,	0,08555	HL	LL		Myosin-1 OS=Bos taurus OX=9913 GN=MYH1 PE=3 SV=1	219688	308099	84714	43202	221273	257751	140525	150592	280402	74573	84034	98772	357329	161677	174831	92328
A0A3Q1LWT4 A0A3Q1LWT	18	18	1469,59	0,57166	.,	1,20357	0,085	LL	HL		Acyl-CoA synthetase long chain family member 1 OS=Bos taurus OX=9913	92232224	105966818	78487739	123208931	70911409	86602355	97695277	42901902		227854949	109786938	132747080	57151521	56516954	44491906	146211325
Q5E954 DNJA1_BOVIN;A0A A5PKH1 A5PKH1 BOVIN	5	5	269,54	0,5729	-,	-,	0,08477	HL	LL HL	44853	DnaJ homolog subfamily A member 1 OS=Bos taurus OX=9913 GN=DNAJA	3466014 448727	3488045 216549	967006 242263	735815 79668	2052796 228427	726195 121464	3160813 220258	1999955 457108	3058838 287997	380588 121730	1309565 115806	308439 114901	3569657 342954	2080061 433123	2265210 517048	238723 189416
A0A3Q1LJA4 A0A3Q1LJA4	4	2	91,61 272,34	0,57338	0,62088	,	0.08468	LL	HL	120722	GRTP1 protein OS=Bos taurus OX=9913 GN=GRTP1 PE=2 SV=1 Dynactin subunit 1 OS=Bos taurus OX=9913 GN=DCTN1 PE=1 SV=1	130694	62027	61723	14415	201754	88971	119593	140183	287997	37106	35706	23110	246947	84366	128207	13400
A0A3Q1NNA0 A0A3Q1NNA	2	3	303,09	0,57371	0.62088		0.08439	HL	LL		Seipin OS=Bos taurus OX=9913 GN=BSCL2 PE=4 SV=1	2679941	3367688	4161972	1891451	3656691	3671687	2867332	3335340	3045523	1754831	4229038	2460065	4409893	3728225	2046348	776452
A0A3Q1N0D1 A0A3Q1N0D	2	2	121,11	0.57561	0.62088	,	0.08427	LL	HL		Synaptotagmin-like protein 2 OS=Bos taurus OX=9913 GN=SYTL2 PE=4 SV=	89064	163110	195946	13144	173887	89647	124358	113923	157282	142829	55231	162103	172904	91504	113761	74609
G5E507 G5E507_BOVIN;Q7	17	8	1297.47	0.5764	0,62088	,	0.08413	LL	HL	81671	Heat shock protein HSP 90-beta OS=Bos taurus OX=9913 GN=HSP90AB1 P	2165964	2656053	2799471	1343856	4322433	2075867	3825603	4976140	6162502	2218059	4335561	1235108	6363572	3574515	3578425	1408769
A0A3Q1MIA4 A0A3Q1MIA4	6	6	312,98	0,57703	0,62088	1,26465	0,08401	HL	LL	99582	26S proteasome non-ATPase regulatory subunit 2 OS=Bos taurus OX=9913	82766	162162	158205	71007	463441	40064	161964	910576	395577	49597	87125	100279	440528	185191	450104	67204
P37980 IPYR BOVIN	2	2	131,42	0,58513	0,62591	1,21889	0,08255	HL	LL	32793	Inorganic pyrophosphatase OS=Bos taurus OX=9913 GN=PPA1 PE=1 SV=2	41568	7860	86278	41249	213498	283072	53469	104013	49540	281129	43734	186330	4068	145724	139921	27462
E1BAT3 E1BAT3_BOVIN	4	4	199,9	0,58703	0,62591	1,23853	0,08221	HL	LL	123090	LIF receptor alpha OS=Bos taurus OX=9913 GN=LIFR PE=4 SV=2	80314	182319	137762	68447	152320	142748	136395	106952	99097	27171	40672	55973	100107	138121	185714	31528
A0A3Q1LZT9 A0A3Q1LZT9_	2	2	139,74	0,58901	0,62591	1,10583	0,08187	HL	LL	55791	WW domain binding protein 2 OS=Bos taurus OX=9913 GN=WBP2 PE=4 S\	261250	148292	342326	70697	207201	312973	247910	248405	176004	10710	153189	150893	187912	327338	300270	144044
A0A452DJG2 A0A452DJG2_	7	7	446,6	0,59096	0,62591	1,18158	0,08153	LL	HL	42145	Guanine nucleotide-binding protein subunit alpha-11 OS=Bos taurus OX=9!	9231667	5623221	9390527	17653928	9913264	11891035	9051586	16463690	7909995	49210929	21594494	22167875	6049802	6937945	7374048	19836901
E1BLZ8 E1BLZ8_BOVIN	3	3	304,38	0,59116	-,	-,	0,08149	LL	HL	40870	Eukaryotic translation initiation factor 3 subunit F OS=Bos taurus OX=9913	95198	229111	11596	66360	375510	73886	204906	609717	428141	293005	213237	121052	547658	49719	274499	141072
A7YY28 ABHEB_BOVIN	2	2	114,56	0,59256	-,	-,	0,08125	LL	HL	22441	Protein ABHD14B OS=Bos taurus OX=9913 GN=ABHD14B PE=2 SV=1	494414	202528	198543	25550	310280	300221	463073	591464	406555	301688	194495	172564	597399	256183	910275	146706
F1N6C2 F1N6C2_BOVIN	2	2	106,94	0,59758	.,.	,	0,08039	LL	HL	24984	Transmembrane p24 trafficking protein 4 OS=Bos taurus OX=9913 GN=TM	763787	800943	474037	684733	733847	504022	1313519	778044	870832	346928	1285175	801930	1250542	597192	705421	209906
Q0VCJ8 METL9_BOVIN	4	4	232,3	0,59766	.,.	1,14865	0,08038	LL	HL	36513	Methyltransferase-like protein 9 OS=Bos taurus OX=9913 GN=METTL9 PE=	3713559	1734740	2108129	667701	2395410	1592340	4978480	2754483	2661607	1264056	2312600	1519000	4998346	3418642	3271728	1531519
A6QL75 A6QL75_BOVIN;G5 A0A3Q1NLW9 A0A3Q1NLW	3	2	156,2 110.61	0,59792	0,62798	1,20914	0,08033	HL HL	LL LL	19115	PTP4A2 protein OS=Bos taurus OX=9913 GN=PTP4A2 PE=2 SV=1	563233 163797	231016 75320	306735 154212	384929 42180	238453 92066	462597 136297	1448922 16202	325287 149988	198355 78464	217317 8951	120784 34623	240188 31343	295518 101379	736064 232099	522412 127544	529546 43887
P61585 RHOA BOVIN;Q1RI	2	2	191.91	0.60702	.,	,	0,07882	HI	LL	31039	VPS37 C-terminal domain-containing protein OS=Bos taurus OX=9913 GN= Transforming protein RhoA OS=Bos taurus OX=9913 GN=RHOA PE=1 SV=1	9007613	2094431	3871108	2831882	1946600	1515539	7883258	3702601	78464 2146164	1927163	545277	2148576	5866321	3726098	4356393	43887 3362180
F1MG05 F1MG05 BOVIN	6	6	444.03	0.60978	.,	-,	0.07837	HL	LL	50330	Elongation factor 1-gamma OS=Bos taurus OX=9913 GN=EEF1G PE=4 SV=1	480627	855513	802553	780845	2112237	557363	780569	2391456	1047386	992930	447287	431051	1435238	1237736	1573634	623739
A0A3Q1LXL6 A0A3Q1LXL6	5	3	217.62	0.61043	.,	, .	0.07826	11	HI	46075	Casein kinase I isoform gamma-3 OS=Bos taurus OX=9913 GN=CSNK1G3 P	48721	106741	73195	83812	156274	69826	25366	158083	106586	167759	47750	145247	13467	116528	140262	82519
A0A3Q1LVE4 A0A3Q1LVE4	2	2	225.45		0.62836		0.07817	11	HL	55692	Sequestosome 1 OS=Bos taurus OX=9913 GN=SOSTM1 PF=1 SV=1	729260	615425	1042975	200782	367462	617165	1400582	258186	942148	428215	397438	123575	908422	628696	658112	569347
A5D977 A5D977_BOVIN	5	3	318,4	.,.	.,	,	0,07815	HL	LL	23424	RALB protein OS=Bos taurus OX=9913 GN=RALB PE=2 SV=1	1352498	407678	526221	210060	390626	381684	561779	752652	548400	77895	475404	294633	1019645	706688	680788	114478
F1N650 F1N650_BOVIN	3	3	210,55	0,61119			0,07814	LL	HL	38955	Annexin OS=Bos taurus OX=9913 GN=ANXA1 PE=3 SV=1	811366	1455216	400520	1291154	1066584	382265	4694573	792913	206252	3788864	932980	740594	1420121	151405	465353	4186541
A0A3Q1MW62 A0A3Q1MV	5	3	312,16			1,60715	0,078	LL	HL	25207	ADP-ribosylation factor 2 OS=Bos taurus OX=9913 GN=ARF2 PE=3 SV=1	838085	1787873	1059829	714753	969110	2724549	685343	1654886	1144034	502683	612362	677118	752419	2853352	3753320	1503067
A0A3Q1LSJ7 A0A3Q1LSJ7_E	2	2	186,06			1,18073	0,07785	LL	HL		Dynactin subunit 2 OS=Bos taurus OX=9913 GN=DCTN2 PE=1 SV=1	194442	285525	170277	98716	600917	77500	220662	386566	400244	17275	93240	35096	470129	617642	618796	42070
F1MK30 F1MK30_BOVIN	2	2	142,34				0,07781	LL	HL		60S ribosomal protein L13 OS=Bos taurus OX=9913 GN=RPL13 PE=3 SV=2	215655	166744	281849	575558	613284	235244	143688	679708	348312	185857	117169	383522	598449	658411	942082	321015
Q3T057 RL23_BOVIN	2	2	105,51	.,.	0,62836	,	0,07763	HL	LL		60S ribosomal protein L23 OS=Bos taurus OX=9913 GN=RPL23 PE=2 SV=2	205423	156713	48648	104326	288197	386139	2690124	713347	491479	247233	109906	192173	917804	312708	525596	165267
O2HJ33 OLA1_BOVIN;A0A3	3	3	149,29		0,62836		0,07728	HL	LL		Obg-like ATPase 1 OS=Bos taurus OX=9913 GN=OLA1 PE=2 SV=1	204674	150110	173984	259423	520722	157134	198615	493076	302142	215928	151903	427437	319609	170072	315580	151118
A4IFE6 A4IFE6_BOVIN	2	2	244,41	0,61929			0,07685	LL	HL		ABCE1 protein OS=Bos taurus OX=9913 GN=ABCE1 PE=2 SV=1	19667	36566	22577	1231	65729	21710	29896	73185	189151	0	0	1733	215226	41731	67962	7704
G3X7N4 G3X7N4_BOVIN	2	2	103,58			,	0,07658	HL	LL	43096	Phosphoglycerate kinase OS=Bos taurus OX=9913 GN=PGK1 PE=1 SV=2	64886	109210	34133	77255	183540	30151	151309	75846	113644	130237	28558	75044	36491	68298	56537	54502
A0A3Q1LN77 A0A3Q1LN77	3	3	231,62	0,62301	.,	,	0,07628	HL	LL		NBR1 autophagy cargo receptor OS=Bos taurus OX=9913 GN=NBR1 PE=4 !	725055	423251	827888	129377	363285	1459334	493895	273242	736727	75683	177415	460163	303598	825400	712589	311098
Q3MHH4 SYQ_BOVIN	3 1.4	3 12	101,44 895.4	0,6242	.,		0,07609	HL HL	LL	87588 60987	GlutaminetRNA ligase OS=Bos taurus OX=9913 GN=QARS PE=2 SV=1 EH domain containing 4 OS=Bos taurus OX=9913 GN=EHD4 PE=3 SV=1	9125	17771 25265097	21113 19100907	16657	392414 23245075	8406	40495 20009907	177775 17368036	154189	43624	16094	14723 12926388	217939	57496	110372 20294485	3247 9475827
E1BJV0 E1BJV0_BOVIN A0A3O1NA69 A0A3O1NA69	14	12 8	895,4 427.82	0,62469	.,	,	0,07602	HL	LL	33674	Gamma-soluble NSF attachment protein OS=Bos taurus OX=9913 GN=EHD4 PE=3 SV=1	20782693 3109396	25265097	2121419	8939703 802806	2935738	16082108 2105415	20009907	3388547	23239360 1741199	10527622 1066506	21946354 708769	1811629	21811025 2189561	11648266 5264303	4025204	9475827 674711
E1BIB8 E1BIB8 BOVIN	2	a n	427,82 52,63	0,63253	.,	,	0,07484	LL	HL	24243	Lysophospholipase 2 OS=Bos taurus OX=9913 GN=NAF Lysophospholipase 2 OS=Bos taurus OX=9913 GN=LYPLA2 PE=4 SV=3	133861	82438	2121419 94761	802806 68519	168048	2105415 154098	2308264	3388547 186544	1741199	133529	708769 43497	96780	142859	206606	4025204 326373	102646
Q0VCX2 BIP BOVIN	6	6	382,54	0.63723	.,	,	0.07414	HL	LL	72356	Endoplasmic reticulum chaperone BiP OS=Bos taurus OX=9913 GN=HSPA5	572346	346232	573653	895422	964068	566072	412065	2126841	499580	133529	824625	386661	692921	703074	680818	686967
Q3SZ54 IF4A1 BOVIN:A0A3	7	7	499,61	0,63725	.,	-,	0.07414	LL	HL		Eukaryotic initiation factor 4A-I OS=Bos taurus OX=9913 GN=EIF4A1 PE=2	548097	1098919	768564	562083	1416528	777638	707458	1335992	1150066	631810	912882	376135	1478776	634533	1109567	827065
Q0VCY1 VAPA BOVIN;A0A3	3	2	173,67		.,	-,	0,07414	LL	HL		Vesicle-associated membrane protein-associated protein A OS=Bos taurus	178971	130463	277847	73129	178945	300340	163803	236805	150646	52763	189999	115539	308993	777450	544498	136026
E1BJ18 E1BJ18_BOVIN	15	15		-,	-,	1,36018		LL	HL		Calpain 6 OS=Bos taurus OX=9913 GN=CAPN6 PE=3 SV=1	9421357	9327532	21992351	8510289	2847652	1779080	2319491	1589652	14297110	4303160	30605756	16206766	3661400	3085590	2607850	1182414
			,																								

A0A3Q1MSA1 A0A3Q1MSA	3	3	242,87	-,	0,63286	-,	0,07353	HL	LL		Lectin, mannose binding 1 OS=Bos taurus OX=9913 GN=LMAN1 PE=1 SV=1	1019398	2209016	437660	182709	924559	1615876	1082359	911079	984176	128320	734779	273637	1849892	1621569	915736	277342
E1BIE4 E1BIE4_BOVIN;F1M A0A3S5ZPB0 A0A3S5ZPB0	2	2	115,6 287.37	0,6424	1 0,63286 8 0.63286	1,25041	0,07339	LL HL	HL LL	108212 55620	EPH receptor B4 OS=Bos taurus OX=9913 GN=EPHB4 PE=3 SV=3 Fructose-bisphosphate aldolase OS=Bos taurus OX=9913 GN=ALDOC PE=1	62003 294489	26439 255725	63411 110672	15340 302863	90882 506334	39863 368105	34012 246247	50250 296909	98053 362698	28880 382851	77943 241463	63871 422968	45680 190030	19568 118613	91158 264872	27983 269578
O5E9R3 EHD1 BOVIN	4	3	275.11	0.6437	,	1,13283	0,07324	LL	HL	60644	EH domain-containing protein 1 OS=Bos taurus OX=9913 GN=EHD1 PE=1 S	472442	751860	1153038	600971	744703	470674	283198	679234	546653	793411	787700	610511	317755	737550	869415	438904
A0A3Q1MXV0IA0A3Q1MXV	2	2	248.21	0.6466	.,	1.11948	0.0728	HL	LL	42486	IGv domain-containing protein OS=Bos taurus OX=9913 GN=CEACAM19 PI	80191	62369	541125	37566	116481	133248	258103	122835	71753	5153	237968	46132	127386	297094	188152	106242
Q0IIG7 RAB5A_BOVIN	4	2	341,77	0,6476	8 0,63442	1,06083	0,07265	LL	HL	23674	Ras-related protein Rab-5A OS=Bos taurus OX=9913 GN=RAB5A PE=1 SV=1	3115387	1354030	1892520	747012	1308026	910916	3292361	1958250	2111636	261155	503270	800937	2531574	4128671	2953947	987443
Q863B3 SND1_BOVIN;A0A3	11	11	636,96	0,6478	,	1,11794	-,	HL	LL		Staphylococcal nuclease domain-containing protein 1 OS=Bos taurus OX=9	942955	2133009	2008000	1455160	2916953	1716543	997474	2434240	2936626	988732	628475	1290278	2025929	2162604	1981271	1005702
F6QH94 F6QH94_BOVIN	2	2	211,75	0,6546	,	1,25807	0,07168	LL	HL	48111	Protein disulfide isomerase family A member 6 OS=Bos taurus OX=9913 GI	160215	436321	225664	849714	351756	310769	177599	599070	324504	1129740	564994	432198	273673	188857	144232	1052149
Q3SYU2 EF2_BOVIN;A0A3C O1RMI2 O1RMI2 BOVIN	14	14	939,4	0,6548	,	1,04808	-,	HL	LL	95307	Elongation factor 2 OS=Bos taurus OX=9913 GN=EEF2 PE=2 SV=3	7183725	11073785	8917337	4414080	14781514	5831716	9421023	11144934	13042671	4797582	5294546	5303297	13935176	9690355	14420427	3619512
Q1RMI2 Q1RMI2_BOVIN Q3SYZ4 SYDC_BOVIN:F1MT	2	2	257,04 121.6	0,6556	,	1,54067	0,07155 0.07145	LL	HL LL	21267	Ras homolog family member G OS=Bos taurus OX=9913 GN=RHOG PE=1 S AspartatetRNA ligase, cytoplasmic OS=Bos taurus OX=9913 GN=DARS PE	1254600 27315	368131 93996	542606 41923	591257 74142	447326 312847	511550 56223	918334 46981	975324 277443	528647 150630	86182 134112	249528 52900	759617 53982	1370005 211317	1919086 83717	1601750 92014	1076456 96520
A0A3Q1M273 A0A3Q1M27	2	2	135,19	0,6582		1,02046	0.07143	HL	LL	90124	Pre-B-cell leukemia transcription factor-interacting protein 1 OS=Bos tauru	29341	71834	91420	182268	100253	147240	20845	90650	122127	25139	68967	112129	80233	36145	74241	182893
A0A3Q1LMK8 A0A3Q1LMK	3	3	107,06	0,6593		1,10981	0,07105	LL	HL	38351	Prostaglandin reductase 2 OS=Bos taurus OX=9913 GN=PTGR2 PE=1 SV=1	544989	693297	383030	172473	946078	287700	797223	820865	682592	509093	269110	582592	714746	1154935	711861	248653
Q0VCH9 Q0VCH9_BOVIN	2	2	201,77	0,6640	8 0,64057	1,46738	0,07042	LL	HL	17199	GLI pathogenesis-related 2 OS=Bos taurus OX=9913 GN=GLIPR2 PE=2 SV=1	141033	161777	386839	36081	133448	54638	227819	97279	201858	76665	193907	23681	196681	569137	68684	497167
Q3ZBA8 NDRG2_BOVIN;F1	3	3	369,09	0,6653	8 0,64057	1,26215	0,07025	HL	LL	39183	Protein NDRG2 OS=Bos taurus OX=9913 GN=NDRG2 PE=2 SV=1	2333883	682471	1393652	171935	833607	837400	1734455	114999	2028388	298733	723413	144302	983302	633629	222615	619059
E1BL67 E1BL67_BOVIN	2	2	126,78	0,6658	,	1,09597	0,07018	LL	HL	54949	Oxysterol-binding protein OS=Bos taurus OX=9913 GN=OSBPL2 PE=3 SV=1	32349	374619	250156	144199	177377	122468	30986	171947	136336	249397	149173	149985	25209	88888	313314	75283
F1MSE7 F1MSE7_BOVIN	5	5	320,05	0,6671	.,	1,07161	0,07002	HL	LL	89996	Sushi domain containing 2 OS=Bos taurus OX=9913 GN=SUSD2 PE=4 SV=1	58551	195537	347221	280605	846752	556197	80794	183068	110795	751923	169304	151767	162094	121958	103565	174264
Q2YDJ4 HINT3_BOVIN A0A3Q1MWU8 A0A3Q1MV	2	2	110,12 131,67	0,6674	.,	1,0373	0,06998	HL	HL LL	20457 64422	Histidine triad nucleotide-binding protein 3 OS=Bos taurus OX=9913 GN=H Syntaxin binding protein 3 OS=Bos taurus OX=9913 GN=STXBP3 PE=3 SV=1	219539 160725	201209 305100	434973 132936	139148 56564	335674 100523	437000 183203	103143 39490	389797 65944	270610 192979	203963 23927	334989 91639	300170 70758	352161 120671	491461 151923	527973 119118	250820 24551
E1BEV7 E1BEV7 BOVIN	2	2	84.01	0.6710	,	1.07428	-,	LL	HL	111699	Metalloendopeptidase OS=Bos taurus OX=9913 GN=BMP1 PE=4 SV=3	66958	60412	95830	14067	126131	21561	101184	109824	55064	12551	8263	17160	68824	24712	181411	7784
F1MQ96 F1MQ96 BOVIN	2	2	107.69	0.6744	,	1.25388	-,	LL	HL	68255	Protein kinase C OS=Bos taurus OX=9913 GN=PRKCI PE=3 SV=3	103502	192313	104102	268296	113938	234838	113392	102955	241154	443085	113873	319185	69749	76646	64509	179062
A4FV45 TM214_BOVIN	2	2	104,53	0,6772	0,64633	1,04106	0,06874	LL	HL	76967	Transmembrane protein 214 OS=Bos taurus OX=9913 GN=TMEM214 PE=2	4177	6362	13160	21602	70236	8546	3696	71197	28354	71521	0	9631	32381	56696	29117	0
Q2T9M8 Q2T9M8_BOVIN;#	6	6	684,79	0,6789	0,64719	1,12313	0,06852	LL	HL	23212	Synaptosomal-associated protein OS=Bos taurus OX=9913 GN=SNAP23 PE	5635039	2962044	5496460	3220168	2939193	3113544	5632162	4761244	2848559	1991414	3153270	3155983	4754673	6689147	7723499	4016365
Q2KIW9 KCY_BOVIN;A0A45	3	3	247,43	0,6854	,	1,04336	-,	LL	HL	22265	UMP-CMP kinase OS=Bos taurus OX=9913 GN=CMPK1 PE=2 SV=2	1125244	596455	1316237	483015	820209	825639	1320489	1318510	772124	193981	450097	336912	1011597	1739813	1808461	557426
A0A3Q1LSE5 A0A3Q1LSE5_	2	2	92,35	0,6856	,	1,12262		HL	LL	85456	N-ethylmaleimide sensitive factor, vesicle fusing ATPase OS=Bos taurus OX	54974	81617	140568	37598	135405	87283	75086	139627	115425	3761	50602	40325	171927	103212	116182	11782
F1N3M3 F1N3M3_BOVIN;A	3	3	177,25 469.3	0,6873	,	1,10207	0,0675	LL	HL		Protocadherin gamma subfamily A, 3 OS=Bos taurus OX=9913 GN=PCDHG	295705	22171 30476236	238006	484890	222996	168269	109037	274675	224702	153833	907333	202618	259681	246998	183797	139229 6420978
P18892 BT1A1_BOVIN A6OP05 DHR12_BOVIN:A0/	2	2	129.6	0,6875	,	1,12178		HL II	LL HL	59239 35043	Butyrophilin subfamily 1 member A1 OS=Bos taurus OX=9913 GN=BTN1A1 Dehydrogenase/reductase SDR family member 12 OS=Bos taurus OX=991:	23855104 31436	158335	33642721 177439	9601544 18184	25590865 192237	12476234 188002	14429006 23123	22677516 252307	38693052 159299	21363211 21589	15328410 58128	9191386 37591	14773589 121796	20692618 254150	21159283 301663	62510
A6QPG61A6QPG6 BOVIN	3	3	174.53	0.6933	,	1,16029	.,	II	HI	49135	LANCL2 protein OS=Bos taurus OX=9913 GN=LANCL2 PE=2 SV=1	437356	446958	414240	907155	661142	915640	559646	710054	744277	1340277	919434	1116700	262090	562165	477632	529013
A6QLS91A6QLS9 BOVIN	5	3	319.73	0.6940	,	1.15893	0.0667	LL	HL	22527	RAB10 protein OS=Bos taurus OX=9913 GN=RAB10 PE=1 SV=1	2517363	1620866	2818424	802049	1829274	2033900	2474059	3199170	1777649	276385	963052	894774	2692080	4984169	4519566	2017678
A0A3Q1MNH4 A0A3Q1MN	5	5	264,16	0,6953	5 0,65127	1,06086	0,06655	HL	LL	30512	Ethylmalonyl-CoA decarboxylase OS=Bos taurus OX=9913 GN=ECHDC1 PE	419891	250109	278907	182138	604808	428155	786045	401083	307388	164584	159046	314325	406623	714886	473729	425423
E1BDK9 E1BDK9_BOVIN	2	2	105,12	0,6958	4 0,65127	1,00728	0,0665	LL	HL	66734	Retinol saturase OS=Bos taurus OX=9913 GN=RETSAT PE=4 SV=1	23081	242591	223142	111365	172421	137323	93929	21742	97741	10440	91752	112030	213787	199944	74471	123870
A5PKL2 A5PKL2_BOVIN; A0/	5	4	285,2	0,6988	,	1,05106	-,	LL	HL	23385	RAS related 2 OS=Bos taurus OX=9913 GN=RRAS2 PE=2 SV=1	2741323	990606	2271980	688917	1109513	1325179	3143845	2314053	1232406	447457	867922	602520	2000524	3910900	3318367	1116200
A0A3Q1LTG9 A0A3Q1LTG9	3	3	185,19	0,7017	,	1,03397	-,	HL	LL		TBC1 domain family member 9B OS=Bos taurus OX=9913 GN=TBC1D9B PE	45371	58930	156802	17417	110323	213128	68138	69461	107464	14398	73412	27254	5594	289054	94815	29583
P63103 1433Z_BOVIN;E1BE A0A3O1LZC0 A0A3O1LZC0	5	2	422,8 87.71	0,7022	,	1,02774	-,	LL	HL HL	62044	14-3-3 protein zeta/delta OS=Bos taurus OX=9913 GN=YWHAZ PE=1 SV=1 Glycerol kinase OS=Bos taurus OX=9913 GN=GK PE=3 SV=1	2798671 67728	1926326 36274	2484904 12562	1805951 3112	3176037 44804	2594787 6130	3668015 95229	3916035 29228	2316213 42162	2805288 11954	2528040 52014	1953337 19360	4257735 94762	3766574 14140	4947371 23114	3843039 30932
A0A3Q1L2C0 A0A3Q1L2C0_ A0A3Q1M591 A0A3Q1M59	4	2	206.47	0,7030		1.06564	.,	11	HL	23074	Uncharacterized protein OS=Bos taurus OX=9913 GN=RAB43 PE=4 SV=1	791780	490001	651421	205050	388318	557607	733671	446795	481652	84128	201891	264686	736038	1044985	966638	466431
A0A452DIW4 A0A452DIW4	2	2	102.34	0.7103	.,	1,05141	.,	HL	LL	35833	Malate dehydrogenase OS=Bos taurus OX=9913 GN=MDH1 PE=1 SV=1	244939	209534	236543	97465	375100	362242	349548	177802	158091	105591	145162	208699	312422	435970	358336	284229
E1BJ42 E1BJ42_BOVIN	2	2	135,01	0,7114	0,65669	1,36431		LL	HL	69959	ZP domain-containing protein OS=Bos taurus OX=9913 GN=ENG PE=4 SV=	344426	597720	318736	832466	383772	570628	400056	315105	385809	2153397	613432	566091	297657	207687	182310	825449
A0A3Q1LRI7 A0A3Q1LRI7_E	4	4	197,79	0,7120	4 0,65669	1,09047	0,06469	LL	HL	82766	Uncharacterized protein OS=Bos taurus OX=9913 GN=LOC521224 PE=4 SV	478878	105466	96514	18636	353905	20113	280787	303974	532258	38451	322937	63805	341056	266666	207439	69652
Q1RMH8 SNX3_BOVIN	3	2	113,23	0,7121		1,65068	-,	LL	HL	18751	Sorting nexin-3 OS=Bos taurus OX=9913 GN=SNX3 PE=2 SV=3	81215	39803	87406	15020	54389	69629	86064	93060	49232	43654	21404	16601	123793	245745	205120	58105
Q0II86 SNP29_BOVIN	5	5	380,05	0,7125	.,	1,00027	0,06464	LL	HL	28472	Synaptosomal-associated protein 29 OS=Bos taurus OX=9913 GN=SNAP29	3865041	2847702	1999560	646371	1881200	816867	4787441	3315317	2922785	428001	1456492	648661	3779502	3866978	4980381	964713
F6QNX4 F6QNX4_BOVIN	3	3	244,01	0,7134	0,65671	1,08919	0,06454	HL	LL	32564	Endoplasmic reticulum-golgi intermediate compartment 1 OS=Bos taurus (Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=2	36175	104828	231925	37023	298555	236697	11888	516088	196932	112711	72153	40607	145035	207911	333148	43604
G3N0S9 G3N0S9_BOVIN A5D984 A5D984 BOVIN;Q1	2	2	106,72 154.07	0,7179	.,	1,53479	-,	HL	LL LL	21474 57912	Pyruvate kinase OS=Bos taurus OX=9913 GN=PKM PE=1 SV=1	817105 123790	90012 411282	121416 97051	42479 94245	32318 628817	20972 250152	551920 289976	106752 323055	27982 358627	87583 148425	25466 233003	24510 166248	108116 439593	39791 218791	85810 164524	578168 36042
A0A3O1LNT7 A0A3O1LNT7	8	7	339.87	0.7227	-,	1,12173	0.06356	HI	LL	113691	Unconventional myosin-Id OS=Bos taurus OX=9913 GN=MYO1D PE=3 SV=	1461534	1630468	1241404	636448	1274442	949143	795602	1160826	1100105	712253	981609	778238	1230195	1435321	1215905	309549
Q2TBQ5 RL7A_BOVIN	3	3	193,48	0,7228	3 0,65875	1,18932	0,06355	LL	HL	30007	60S ribosomal protein L7a OS=Bos taurus OX=9913 GN=RPL7A PE=2 SV=3	193130	283287	139807	106496	608888	150123	471547	683561	305388	170836	101781	105109	739830	476210	809728	279173
A0A3Q1MBN5 A0A3Q1MBI	3	3	209,44	0,7233	0,65875	1,45229	0,06349	HL	LL	13911	Histone H2B OS=Bos taurus OX=9913 PE=3 SV=1	420842	1963123	336584	233942	1755583	375631	8892989	1443285	211272	1989644	62946	631062	4716116	965530	1540189	3327804
A0A3Q1LYU9 A0A3Q1LYU9	4	2	238,65	0,7235	.,	1,05392	.,	LL	HL	58454	Casein kinase I isoform gamma-1 OS=Bos taurus OX=9913 GN=CSNK1G1 P	89885	638	100447	8320	164973	49385	2033	141177	3335	40528	47551	126431	6441	146709	188424	13863
F1MND1 F1MND1_BOVIN;	2	2	150,87	0,7244	,	1,05168		LL	HL	20823	Cell division control protein 42 homolog OS=Bos taurus OX=9913 GN=CDC	4077034	1753022	2500532	1012253	1888460	2192863	4135801	4001035	1938440	597471	936132	776171	3139481	5881261	4765304	1804314
A5PJY9 A5PJY9_BOVIN	2	2	241,08 262.41	0,7246	.,	1,43333		HL LL	LL HL	59579	CPNE3 protein OS=Bos taurus OX=9913 GN=CPNE3 PE=1 SV=1	188728 341238	462502 590218	31086 545780	58583 92522	192329 753316	128938 655183	77097 537925	156793 871584	332496 974139	39393 277543	164126 429444	76650 229401	159495 464381	112518	42819 1332841	138541 416330
Q3ZBG1 Q3ZBG1_BOVIN A0A452DII2 A0A452DII2 B(7	7	468.09	0,7246	,	1,38269	-,	II.	HL	40946	RAB14 protein OS=Bos taurus OX=9913 GN=RAB14 PE=1 SV=2 Protein FAM49A OS=Bos taurus OX=9913 GN=FAM49A PE=4 SV=1	1037847	487809	1933182	572840	509401	518362	494971	750545	612951	482816	1143939	458992	624875	1922231 1466821	824444	1211189
A0A3Q1N3F5 A0A3Q1N3F5	3	3	294.35	0.7267	.,	1.07069	.,	LL	HL	33916	Hydroxysteroid 17-beta dehydrogenase 7 OS=Bos taurus OX=9913 GN=HS	4962324	3696485	6128516	2206093	3621906	3350091	3637504	4193835	3020610	649793	2087957	3040388	5422342	5495813	6898964	5092902
A6QPT4 A6QPT4_BOVIN	3	3	126,72	0,7268	7 0,65875	1,51873		HL	LL	81840	MPO protein OS=Bos taurus OX=9913 GN=MPO PE=1 SV=1	15407	391865	25313	0	100721	4415	951076	16397	2352	256193	0	6081	167866	0	9243	644540
F1MJN4 F1MJN4_BOVIN	3	3	319,66	0,7322	4 0,66269	1,15954	0,0626	LL	HL	57142	Amino acid transporter OS=Bos taurus OX=9913 GN=SLC1A1 PE=3 SV=1	2831521	3728189	4396202	3186340	1729950	5850055	3037712	2176220	4401816	7935890	5829210	9566377	1379657	1917516	1888047	4091772
A4FUD7 A4FUD7_BOVIN;E1	3	2	147,71	0,7372	.,	1,18321	0,06211	LL	HL	25602	RAB33B protein OS=Bos taurus OX=9913 GN=RAB33B PE=2 SV=1	455706	339733	181125	23192	107518	168794	370756	190843	223536	24720	72041	35048	533853	538581	468349	95846
A0A3Q1MKR2 A0A3Q1MKF	2	2	150,06	-,	4 0,66778	-,	-,	HL	LL		Glutamyl-prolyl-tRNA synthetase OS=Bos taurus OX=9913 GN=EPRS1 PE=1	13034	14018	2253	79729	215505	74188	1934	128428	20851	77326	23394	55497	50595	42545	13701	32417
F6RFP6 F6RFP6_BOVIN	3	3	246,52	-,	0,66778	1,09826	-,	HL	LL	34876	Basigin OS=Bos taurus OX=9913 GN=BSG PE=1 SV=1	2010134	2792154	1896139	502689	638822	1654447	2129458	820467	2212628	1114246	2029907	416514	2078416	2073633	959751	754208
A0A3Q1LFR2 A0A3Q1LFR2_ Q58CS7 CHMP3_BOVIN;A0	3	4	139,14 174.6	0,7449	0,66778 0.66778	1,01756 1.02906	-,	LL	HL LL	25639 25001	Uncharacterized protein OS=Bos taurus OX=9913 GN=GSTM2 PE=1 SV=1 Charged multivesicular body protein 3 OS=Bos taurus OX=9913 GN=CHMP	389879 874397	108779 807021	321291 723362	212354 348624	211678 541504	177468 793972	332968 1029538	274244 692706	294864 645600	251288 212735	153178 362652	338614 472312	180402 1087237	619870 839616	448923 1112242	417063 346887
E1BNE1 E1BNE1 BOVIN;O3	3	3	338.86	0.7458	,	1,34105	.,	11	HL	37535	Lipid droplet associated hydrolase OS=Bos taurus OX=9913 GN=LDAH PE=	405270	112425	717586	124126	1041998	947063	276093	1110573	255448	298263	669797	681450	254730	1043458	2278955	173274
Q3T0K2 TCPG_BOVIN	2	2	127,37	0,7507	,	1,14566	.,	HL	LL	60547	T-complex protein 1 subunit gamma OS=Bos taurus OX=9913 GN=CCT3 PE	12852	49613	46812	7944	103303	10267	92556	195586	112663	44908	22673	1661	132550	48493	76782	15433
A0A3Q1MC55 A0A3Q1MC5	4	4	317,01	0,7508	2 0,66797	1,17303	0,06084	LL	HL	24715	Syntaxin-binding protein 6 OS=Bos taurus OX=9913 GN=STXBP6 PE=4 SV=1	898737	378094	870236	357293	554817	367962	945136	950522	750802	238498	292588	409719	1261925	970287	1342408	374475
Q95JH2 PLCA_BOVIN	3	3	134,63	0,7516	4 0,66797	1,27871	0,06076	LL	HL	31984	1-acyl-sn-glycerol-3-phosphate acyltransferase alpha OS=Bos taurus OX=9!	32281	7424	175389	15180	135311	119693	107986	212738	58527	31593	22437	29951	73183	277078	316517	56529
E1BG08 E1BG08_BOVIN	2	2	95,33	0,7542	7 0,66797	1,08181	0,06053	LL	HL	34973	Axin interactor, dorsalization associated OS=Bos taurus OX=9913 GN=AID/	335265	219468	290038	584964	316049	472295	424045	327124	101570	375082	321318	555172	431167	149282	405268	406677
F1MHS5 F1MHS5_BOVIN F1N0D6 F1N0D6 BOVIN	3	3	234,37 413.49	0,7546	,	1,3038 1.14067	0,06049	HL HL	LL LL	17118	Protein S100-A9 OS=Bos taurus OX=9913 GN=S100A9 PE=3 SV=3 Tyrosine-protein kinase OS=Bos taurus OX=9913 GN=JAK1 PE=3 SV=3	95719 345805	329894 410670	56048 973148	273302 411862	326210 761699	78600 360243	3763616 212914	66630 847670	32165 576231	1473632 103895	49705 292857	129427 482999	594652 414311	77419 413118	144371 839758	3816944 435585
A0A3Q1M010 A0A3Q1M01	9	9	516,36	0,7576	0,66797	1,14067	0.05955	HL	LL	55605	UTPelucose-1-phosphate uridylyltransferase OS=Bos taurus OX=9913 GN	1967407	3428961	1537530	1815702	4667790	1876143	3147189	3601117	4364206	2227383	1887651	1739748	4647910	2595357	2850601	924373
Q3MHP2 RB11B_BOVIN;A0	5	4	231,94	0,7712	.,.	1,13081	0,05907	LL	HL	24473	Ras-related protein Rab-11B OS=Bos taurus OX=9913 GN=RAB11B PE=2 SV	5866819	2411930	3296956	2980753	2581130	1950005	5663562	3386956	3053292	1765824	1918744	2950261	5734073	4564128	6312325	3377686
Q32LK2 CYTM1_BOVIN	2	2	165,73	0,7718	.,	1,27737	0,05902	LL	HL	11116	Cysteine-rich and transmembrane domain-containing protein 1 OS=Bos ta	745966	596290	1014398	437476	716191	702802	1211465	985286	648065	92395	239607	435114	1577150	1999004	1554338	760863
Q5E971 TMEDA_BOVIN	3	3	186,74	0,7742	0,6742	1,29887	0,05882	LL	HL	24812	Transmembrane emp24 domain-containing protein 10 OS=Bos taurus OX=	389517	356946	456692	562043	591518	623211	813363	1248525	488259	375417	273610	451960	1309976	754179	1724621	476981
A0A3Q1LYE8 A0A3Q1LYE8_	5	5	482,35	0,7745		1,03086	0,0588	LL	HL	27242	Lipocln_cytosolic_FA-bd_dom domain-containing protein OS=Bos taurus C	878264	755166	3721792	5434605	742951	1467700	3555265	5246344	312923	960248	2745754	4143844	3346542	4212368	3018859	3240637
A0A3Q1MFD0 A0A3Q1MFC	10	10	492,38	0,7805	,	1,08385	.,	HL	LL	96039	Major vault protein OS=Bos taurus OX=9913 GN=MVP PE=4 SV=1	1087311	843209	539989	1650592	966535	482857	469073	2093440	991610	1178480	608388	767034	995445	553117	1056009	1849049
A0A3Q1LI93 A0A3Q1LI93_E F1N720 F1N720 BOVIN;Q9	11 10	11 10	636,79 923,33		3 0,67563 1 0.67563			HL HL	LL		CD109 molecule OS=Bos taurus OX=9913 GN=CD109 PE=4 SV=1 Toll-like receptor 2 OS=Bos taurus OX=9913 GN=TLR2 PE=3 SV=1	5497286 10231176	1030915 7437956	510277 13435903	5139430 8225782	1405373 10640054	506746 8566482	377130 12512239	285264 11717669	1941227 13322024	1637747 18600191	1026893 16383247	4571880 16697628	1133364 8798905	216783 5961913	214511 6647430	385552 16290932
A0A3Q1LK11 A0A3Q1LK11	2	10 2	,	.,	3 0,67563	,	.,	LL	HL	43731	Casein kinase I isoform alpha OS=Bos taurus OX=9913 GN=TLR2 PE=3 SV=1	189037	7437956 89348	13435903 86673	8225782 89112	290968	292211	186957	140908	105554	73244	33407	84632	200760	487745	205573	16290932 85597
F1MDQ6 F1MDQ6 BOVIN;I	16	16	1126,66	0.7869		1.04522		LL	HL		cGMP-dependent protein kinase OS=Bos taurus OX=9913 GN=PRKG2 PE=3	14783733	14896016	13844379	6596546	15660105	14892698	11487872	15653823	16583144	4294769	6516778	10050128	23634977	17362543	22107666	5834750
Q3T0Y8 VAMP8_BOVIN	3	3	193,6	0,7929		1,22839		LL	HL	11350	Vesicle-associated membrane protein 8 OS=Bos taurus OX=9913 GN=VAM	696088	493938	682223	350797	207654	1077192	1311602	837703	632410	135028	157111	355600	1010926	1160648	1079847	582443
Q2LGB5 TOLIP_BOVIN	3	3	270,18	0,7937	.,	1,09093	.,	HL	LL		Toll-interacting protein OS=Bos taurus OX=9913 GN=TOLLIP PE=2 SV=1	2802123	927170	1949392	392757	1260292	1565586	2719967	1255319	1129835	1349735	1390484	587485	1956725	2013235	2396382	855009
A0A3Q1LP69 A0A3Q1LP69	2	2	73,89	0,7945	.,	1,23928		LL	HL		Uncharacterized protein OS=Bos taurus OX=9913 PE=4 SV=1	22073	24309	53445	33644	75277	90899	25720	196139	42601	11525	22713	20956	113875	164260	213709	103564
Q3T149 HSPB1_BOVIN	6	6	460,91	0,7950		1,16668	.,	LL	HL		Heat shock protein beta-1 OS=Bos taurus OX=9913 GN=HSPB1 PE=2 SV=1	2982691	941779	1610890	1217468	1308290	953899	2366542	4869469	1915783	1081269	1615285	912368	2081756	5122952	5966438	1823526
Q3ZBU9 UBXN4_BOVIN	3	3	178,13	0,7951	9 0,6769 7 0.67723	,	0,05722	LL	HL		UBX domain-containing protein 4 OS=Bos taurus OX=9913 GN=UBXN4 PE= SH3 domain binding protein 4 OS=Bos taurus OX=9913 GN=SH3BP4 PE=4 S	486329	565002 270293	1113148	461454	504571	588447 162236	441503	596105	613685	669395	732427	652448	234533	844509	662449	666564 44908
E1BB46 E1BB46_BOVIN A0A3Q1MJK1 A0A3Q1MJK1	2	3 2	129,6 87.17	-,	7 0,67723 3 0.67723	-,	-,	LL LL	HL HL		SH3 domain binding protein 4 OS=Bos taurus OX=9913 GN=SH3BP4 PE=4 S Serpin B6 OS=Bos taurus OX=9913 GN=SERPINB6 PE=3 SV=1	170351 533035	270293 305280	246117 157589	27952 126143	229751 436072	162236 224771	231067 230524	299481 417142	427775 555080	129112 333569	216608 112195	193153 338362	229876 262094	261504 409362	217716 343965	44908 140064
Q3T169 RS3 BOVIN:A0A3Q	3	3	133.49	.,	1 0.67772	, .	.,	LL	HL		40S ribosomal protein S3 OS=Bos taurus OX=9913 GN=RPS3 PE=2 SV=1	268741	261369	116118	99180	436882	211501	555799	1035364	271881	141365	19112	36144	1147617	680762	1018943	122978
G3N2D8 G3N2D8_BOVIN	2	2	286,01		1 0,67772			LL	HL		Uncharacterized protein OS=Bos taurus OX=9913 GN=GGT1 PE=1 SV=2	23237319	24964240	17968802	13598227	11086771	9296874	14002471	9806931	13727045	27342802	20406826	11300138	9955868	8991048	5079687	26496231
	32	32	3065,59	0,8085	3 0,68028	1,01041	0,05629	LL	HL	142244	Xanthine dehydrogenase/oxidase OS=Bos taurus OX=9913 GN=XDH PE=4 5		1993093885	1223964723		1762899098 1	561873882 1	799861198 1					2994314532			459377358 1	1821708249
A0A3Q1MDW8 A0A3Q1MD	2	2	68,01		4 0,68028			LL	HL		Phospholipid-transporting ATPase OS=Bos taurus OX=9913 GN=ATP11B PE	42241	38338	75867	52345	82550	145043	17764	93438	66470	188562	47713	187026	25884	54996	67216	35430
A0A3Q1LIW3 A0A3Q1LIW3	2	2	127,4		4 0,68028			HL	LL		AP-2 complex subunit alpha OS=Bos taurus OX=9913 GN=AP2A2 PE=3 SV=	11397	22050	5294	0	73971	150757	0	35580	12208	14447	23661	0	19720	46122	61575	3036
Q2TBH2 Q2TBH2_BOVIN	7	6	571,75		7 0,68028 7 0.68028	,	.,	LL	HL		RAS related OS=Bos taurus OX=9913 GN=RRAS PE=1 SV=1	12041277	5615964	7398919	3539345	4849853	2617451	10634895	9036721	4834688	4582285	4300828	3842957	9939178	10420144	10959600	6649535
A0A3Q1LXZ2 A0A3Q1LXZ2_ F1MGR1 F1MGR1_BOVIN	17 6	9 6	1126,51 236,61		7 0,68028 8 0,68028			HL LL	LL HL		Uncharacterized protein OS=Bos taurus OX=9913 GN=LOC521568 PE=4 SV Sodium/nucleoside cotransporter OS=Bos taurus OX=9913 GN=SLC28A3 P	636015 55066071	1157454 72995644	228280 124281671	566393 36590295	7201655 70145107	246780 61291653	70527 48294567	105086 68826645	136340 89889042	907416 57815418	379761 80335095	668263 61231348	5438518 52722908	1764562 94254495	192289 66208662	108242 43233342
F1N422 F1N422 BOVIN;Q2	2	2	95,4		5 0,68028			HL	LL		Ubiquitin carboxyl-terminal hydrolase MINDY-1 OS=Bos taurus OX=9913 GN=SEC28A3 P	215530	439433	164183	177553	162690	223868	146514	169952	211046	105829	96587	270547	310948	205125	257931	71500

A0A452DJ34 A0A452DJ34_	2	2	116,57	0,819	,	1,24076	0,05558	LL	HL	22938	60S ribosomal protein L28 OS=Bos taurus OX=9913 GN=RPL28 PE=4 SV=1	8937	18182	14399	5956	80567	23316	152985	165286	83630	4548	7199	4869	133367	134032	150070	18806
A4FV54 RAB8A_BOVIN;A0A	7	5	637,52	0,820	001 0,68028	1,17785	0,05554	LL	HL	23669	Ras-related protein Rab-8A OS=Bos taurus OX=9913 GN=RAB8A PE=2 SV=1	1490281	907426	1271873	333318	994427	1022840	1588174	2020224	938181	250822	594694	282298	1471683	3388392	2640053	1199162
F1MSQ2 F1MSQ2_BOVIN;A	2	2	91,04	0,820	0,68028	1,05969	0,05553	HL	LL	56740	Receptor protein serine/threonine kinase OS=Bos taurus OX=9913 GN=AC	169023	186168	99195	55660	78266	26293	125870	118622	123760	131741	84480	32835	94223	37115	61710	119890
Q08DI5 RAP2C_BOVIN;A0A	5	4	345,03	0,820	0,68028	1,04255	0,05552	LL	HL	20731	Ras-related protein Rap-2c OS=Bos taurus OX=9913 GN=RAP2C PE=2 SV=1	770145	250712	133633	180723	237494	143674	441792	512193	185701	135390	177824	98861	589205	585319	475241	200393
A0A3Q1NHI6 A0A3Q1NHI6	4	4	276,05	0,821	,	1,22051	0,05546	LL	HL	55258	Protein FAM114A2 OS=Bos taurus OX=9913 GN=FAM114A1 PE=4 SV=1	385053	633316	645274	1072746	476738	884263	331244	369591	377278	2182461	750876	808763	144027	690262	410456	655837
A0A3Q1M7E0 A0A3Q1M7E	2	2	81,8	0,823	,	1,28064	0,05532	HL	LL	63777	24-dehydrocholesterol reductase OS=Bos taurus OX=9913 GN=DHCR24 PE	807266	315761	126758	49241	310788	61224	516800	160040	290376	197820	171211	114973	173262	294184	274404	180272
P20000 ALDH2_BOVIN	5	5	268,42	0,824	,	1,03049	0,05529	HL	LL	56617	Aldehyde dehydrogenase, mitochondrial OS=Bos taurus OX=9913 GN=ALD	213332	478263	240601	512626	2267689	221503	1206959	1265348	345277	814012	221667	821377	1356782	388755	1383149	1721024
A0A3Q1LQ52 A0A3Q1LQ52	2	2	107,1	0,825		1,0557	0,0552	LL	HL	26217	SEA domain-containing protein OS=Bos taurus OX=9913 PE=4 SV=1	292622	141514	720866	992525	316867	796311	274160	266025	177304	1076566	811060	563645	257698	568999	151494	947055
A0A3Q1M1I0 A0A3Q1M1I0	4	3	173,45		,	1,14292	0,05473	HL	LL	40626	Calcium-binding protein 39 OS=Bos taurus OX=9913 GN=CAB39 PE=4 SV=1	684473	246652	452742	235328	221095	104893	787744	374600	246067	178320	173100	164042	395802	446636	553261	215646
A0A452DIP2 A0A452DIP2_E	3	3	132,06		,	1,0131	0,05473	LL	HL	54619	UDP-glucose 4-epimerase OS=Bos taurus OX=9913 GN=GALE PE=3 SV=1	320420	372030	221721	370036	539211	319069	468201	296443	472684	895673	623137	368712	713483	310971	289607	209266
F6QJJ8 F6QJJ8_BOVIN	2	2	90,21	0,833		1,17622	0,05472	LL	HL	26046	Progesterone receptor membrane component 2 OS=Bos taurus OX=9913	34917	3755	110523	11905	41522	43927	28922	56056	5679	44316	11914	14508	26410	83826	114449	60648
A0A3Q1LKB7 A0A3Q1LKB7	4	2	180,45	0,835		1,09729	0,05463	LL	HL	21628	HRas proto-oncogene, GTPase OS=Bos taurus OX=9913 GN=HRAS PE=4 SV	410253 131747	189053	359557	166697	570103	292610	401637 288076	437495 479448	261525	257619	143754	188979	501192	623364 139587	530861 130530	206110
A0A3Q1MIB0 A0A3Q1MIB0 A0A3Q1LPA4 A0A3Q1LPA4	3	3	248,28 63.56	0,837		1,03632	0,0545	LL LL	HL HL	93089	IQ motif containing GTPase activating protein 1 OS=Bos taurus OX=9913 G Ras GTPase-activating protein 3 OS=Bos taurus OX=9913 GN=RASA3 PE=4	27329	186543 44426	93591 18150	519818 7423	480190 17708	166164 28970	65589	479448 8335	425475 18117	804512 898	355905 7723	253022 15079	215985 88563	17498	56153	363143 8502
O95M18 FNPI BOVIN	9	7	585.57	0.843	,	1.1232	0,05417	HI	II.	92369	Findonlasmin OS=Bos taurus OX=9913 GN=HSP90B1 PF=2 SV=1	324611	554279	649159	357148	981346	403395	471066	1319702	1049491	250192	257521	235952	771545	611369	967063	249244
O3B7M5 LASP1 BOVIN	4	4	243.19	0.851	,	1 11134	0,05417	11	HI	29658	LIM and SH3 domain protein 1 OS=Bos taurus OX=9913 GN=I ASP1 PE=2 SV	119759	111410	264082	81575	273862	150272	231530	326495	155931	45056	70018	93527	176529	386139	581560	128711
A0A3Q1LZU8 A0A3Q1LZU8	4	4	191.12	0.854		1.0603	0,05375	HI	LL	106854	Glucosidase II alpha subunit OS=Bos taurus OX=9913 GN=GANAB PE=1 SV=	139449	186525	83304	230058	203364	78014	153500	323274	263977	224245	362232	151625	249835	161510	102580	61475
Q58DQ3 RL6 BOVIN;G3N2I	5	5	262.74	0.86	,	1.05324	0.05331	11	HL	32670	60S ribosomal protein L6 OS=Bos taurus OX=9913 GN=RPL6 PE=2 SV=3	387265	335045	406913	331498	999404	369817	687478	1096756	816912	279599	91580	212189	1330441	651008	1078816	506048
A0A140T841 A0A140T841	4	4	373.14	0.860	,	1.27774	0.0533	LL	HL	21467	Prostamide/prostaglandin F synthase OS=Bos taurus OX=9913 GN=PRXL2E	6248782	2637485	3800557	1846621	2124678	3839946	6912701	4065851	2409100	488719	989879	1963505	7099213	8246535	9887084	3101203
A0A3Q1LXR2 A0A3Q1LXR2	5	3	353.68	0.862		1.04341	0.05319	LL	HL	23476	Ras-related C3 botulinum toxin substrate 1 OS=Bos taurus OX=9913 GN=R	9740900	2437959	3411918	3591959	2734789	3567453	9582643	4841092	2526178	1834414	1728057	1748809	7436962	7686816	9057722	2291821
A0A3Q1MTL6 A0A3Q1MTL	2	2	90.93	0.864	162 0.69817	1.35656	0.0531	HL	LL	54654	T-complex protein 1 subunit theta OS=Bos taurus OX=9913 GN=CCT8 PE=1	21417	23113	58958	5414	60276	45169	26916	64857	24490	5589	10221	2528	39776	78643	66439	8069
A5D7A4 A5D7A4_BOVIN	4	4	163,86	0,865	19 0,69817	1,02855	0,05308	HL	LL	25040	RIT1 protein OS=Bos taurus OX=9913 GN=RIT1 PE=2 SV=1	1109904	645398	1326735	256724	537245	765463	2125604	954201	586207	219290	783076	409312	1162747	1449375	1427861	451956
A0A3Q1LMG1 A0A3Q1LMG	3	3	188,6	0,878	322 0,70519	1,16063	0,05251	HL	LL	39508	Fructose-bisphosphate aldolase OS=Bos taurus OX=9913 GN=ALDOA PE=1	295743	506708	78493	191423	467996	130242	460598	304904	415221	192709	73116	249471	402306	203777	246143	293013
Q3SZA1 RHOF_BOVIN	5	5	372,32	0,88	06 0,70519	1,15967	0,05241	LL	HL	23825	Rho-related GTP-binding protein RhoF OS=Bos taurus OX=9913 GN=RHOF	3375029	1583328	2845201	1265063	1674675	1679069	2320999	3660585	1680545	1058245	1135924	959840	3317892	3968358	5341940	1731751
Q2KJ25 PSD12_BOVIN	2	2	93,12	0,882	,	1,20444	0,05232	HL	LL	53019	26S proteasome non-ATPase regulatory subunit 12 OS=Bos taurus OX=991	0	0	5989	8137	37584	8671	0	40453	3648	11323	0	469	0	25161	36834	2716
A0A3Q1M739 A0A3Q1M73	3	3	118,54	0,884		1,05789	0,05227	HL	LL	67779	Tyrosine-protein phosphatase non-receptor type OS=Bos taurus OX=9913	56719	92241	121019	45654	132961	79947	40000	188034	99206	117571	31737	94746	33462	52228	155068	70073
A0A3Q1M9J5 A0A3Q1M9J5	6	6	419,89	0,885	0,70519	1,11895	0,05223	HL	LL	140481	Phospholipid-transporting ATPase OS=Bos taurus OX=9913 GN=ATP8B1 PE	454764	277805	525850	1319248	521579	416568	239745	663339	456912	475349	410222	764338	405337	513167	453319	377330
F1MZY2 F1MZY2_BOVIN;AC	6	6	218,15	0,885		1,08233	0,05223	LL	HL	76703	Glutaminefructose-6-phosphate transaminase 1 OS=Bos taurus OX=9913	55455	117881	185983	59506	341457	239019	40198	391702	311519	51673	37635	67627	133122	286250	403260	92120
A0A452DID1 A0A452DID1_	3	3	273,13	0,886	,	1,13476	0,05218	LL	HL	24628	Translationally-controlled tumor protein OS=Bos taurus OX=9913 GN=TPT	431286	311146	486583	238400	427007	512377	481505	597364	246037	162577	409937	396252	359634	475353	1069283	445596
F1MYV9 F1MYV9_BOVIN	2	2	104,27	0,888		1,10315	0,05211	LL	HL	57891	Oxidative stress responsive kinase 1 OS=Bos taurus OX=9913 GN=OXSR1 P	111537	219305	76397	140033	162147	47550	200694	110520	338761	118404	75929	38196	176839	266903	184882	18453
A0A3Q1LIQ7 A0A3Q1LIQ7_	2	2	86,67	0,89	,	1,17773	0,05187	HL	LL	51288	Adenylyl cyclase-associated protein OS=Bos taurus OX=9913 PE=3 SV=1	70516	144102	52609	480607	207999	262939	268729	229411	368043	564526	98333	254781	172199	130410	157418	476481
A0A3Q1LQ87 A0A3Q1LQ87	3	3	142,5 481.07	0,895	,	1,67341	0,05183	LL II	HL HI	19061	40S ribosomal protein S16 OS=Bos taurus OX=9913 GN=RPS16 PE=3 SV=1	20396 5413842	32932	49158 5514725	37092	144561	64666	84890	393074 6933327	164076	2945	9204 2974771	24551 1946661	439754 5908627	323666	446472 8601597	107181 2822409
A5D7E0 A5D7E0_BOVIN;A0 O3T0U2 RL14 BOVIN:G8JK	2	2	144.5	0,902	,	1,145//	0,05161	LL	HL	23011	RAB35 protein OS=Bos taurus OX=9913 GN=RAB35 PE=2 SV=1 60S ribosomal protein L14 OS=Bos taurus OX=9913 GN=RPL14 PE=2 SV=3	29627	3558884 73115	143426	1795402 163139	3570426 279116	3573476 179708	5403875 148641	347918	4616260 159993	2162631 45466	44637	81970	294250	10062452 298108	528606	187002
E1B7R4 E1B7R4 BOVIN	2	2	185.83	0,902	,	1.82774	0,05161	HL	LL	165040	Eukarvotic translation initiation factor 3 subunit A OS=Bos taurus OX=9913	13353	37585	9630	3629	130891	744	16844	166066	47155	26765	5240	5735	79087	3255	41888	3273
A0A3Q1NNJ3 A0A3Q1NNJ3	2	2	150,21	0.90		1.16084	0.05132	LL	HL	20498	Flavin reductase (NADPH) OS=Bos taurus OX=9913 GN=BLVRB PE=1 SV=1	450904	448480	711736	252787	442653	319550	637190	611359	437625	117079	270789	197254	660097	797974	902811	542319
A0A3Q1MRR6 A0A3Q1MRF	2	2	85.42	0.909	.,	1.02747	0.05138	11	HL	77769	Protein kinase C delta type OS=Bos taurus OX=9913 GN=PRKCD PE=3 SV=1	79148	85209	117088	24109	254761	170066	74863	160431	99234	130910	31966	47749	184726	229141	230753	46307
F1ML75 F1ML75 BOVIN	3	3	211.43	0.918		1.00355	0.05112	11	HL	65789	Interleukin 1 receptor type 1 OS=Bos taurus OX=9913 GN=IL1R1 PE=4 SV=	745598	215630	380301	58361	397289	106366	388639	705519	243777	100494	155919	313782	338021	722993	670409	80680
P50227 ST1A1 BOVIN	2	2	269,91	0,92	25 0,71796	1,02424	0,05101	HL	LL	34162	Sulfotransferase 1A1 OS=Bos taurus OX=9913 GN=SULT1A1 PE=1 SV=2	1533717	1018439	430070	575273	647941	1286626	2074483	1710008	677953	758940	452774	594304	1411249	1474204	1704938	870575
Q3T000 YKT6 BOVIN	9	9	528,37	0,924	174 0,71796	1,18641	0,05095	LL	HL	22452	Synaptobrevin homolog YKT6 OS=Bos taurus OX=9913 GN=YKT6 PE=2 SV=	12283736	6914050	8486935	2737061	6564642	5951974	15605423	11402113	7171128	2789022	2900256	5536297	14788419	19778834	19812737	5599113
F1MZK4 F1MZK4_BOVIN;A(4	4	246,15	0,925	549 0,71796	1,09908	0,05093	HL	LL	48013	Basic leucine zipper and W2 domains 1 OS=Bos taurus OX=9913 GN=BZW1	73525	120406	139277	55345	149227	186162	20106	163075	95241	111784	25890	41632	86311	147336	140319	35156
F1MDN4 F1MDN4_BOVIN	3	3	134,9	0,925	599 0,71796	1,09843	0,05092	LL	HL	34379	60S acidic ribosomal protein PO OS=Bos taurus OX=9913 GN=RPLPO PE=3 5	108239	139643	48168	39881	433943	59372	209528	456019	206837	242329	21019	25863	361377	267095	336399	154890
A0A452DHZ7 A0A452DHZ7	4	4	182,97	0,932	231 0,71903	1,00589	0,05077	HL	LL	46063	Adipocyte plasma membrane-associated protein OS=Bos taurus OX=9913	112246	175274	419612	152248	602221	287990	88349	427553	183186	174469	165899	189745	173762	602271	481100	113073
Q9N287 DJC12_BOVIN	2	2	161,32			1,09966	0,05076	LL	HL	23254	DnaJ homolog subfamily C member 12 OS=Bos taurus OX=9913 GN=DNAJ	662692	553009	779233	227975	614119	679631	828853	644000	477730	188142	402774	285491	995415	1025403	949184	695447
A0A3Q1MW68 A0A3Q1MV	2	2	122,39	.,	,	1,35574	0,05072	LL	HL		PATJ crumbs cell polarity complex component OS=Bos taurus OX=9913 GN	8516	11964	110349	159947	201602	274898	27756	158115	25447	325898	258921	203180	875	104909	153394	49248
A0A3Q1LS90 A0A3Q1LS90_	2	2	94,78	0,935	0,71303	1,00339	0,05071	LL	HL	40579	Par-6 family cell polarity regulator beta OS=Bos taurus OX=9913 GN=PARC	170169 62092	140383 36397	150835 48798	192186 302245	137603 323514	129066 133054	113725 51818	136947 244846	80876 168320	70440 413274	113171 278892	181484 265141	85039 94452	189993 58850	289262 60009	198635 248070
A0A3Q1LMB5 A0A3Q1LMB	2	2	130,5	0,935		1,13623	0,0507	HL HI	LL	100000	AP complex subunit beta OS=Bos taurus OX=9913 GN=AP1B1 PE=3 SV=1	31679	12721	48798 56223	302245 18204	104270	133054 33152	51818 648219	244846 268813	113430		278892 6947		238990	160521	232795	73269
A0A3Q1LZK3 A0A3Q1LZK3_ E1BP91 E1BP91 BOVIN	10	2 10	79,1 864.97	0,943	,	1,14725	0,05053	HL	LL	19482	40S ribosomal protein S18 OS=Bos taurus OX=9913 GN=RPS18 PE=1 SV=1 Aminopeptidase OS=Bos taurus OX=9913 GN=NPEPPS PE=1 SV=2	31679 4816886	12/21 5507986	2825800	18204 8542255	7511997	33152 3697718	6106691	268813 3707258	6574516	129843 4420679	6006347	7645 11217777	238990 4166073	4446127	232/95 4233477	73269 3924586
A0A3O1LN74 A0A3O1LN74	2	20	136.89	0,945	,	1 00000	0.05049	LL	HL	84604	Synaptotagmin like 4 OS=Bos taurus OX=9913 GN=SYTL4 PE=4 SV=1	10655	38783	89265	45748	122660	93096	19573	55534	44339	16748	20518	40239	132745	70810	51770	15721
A0A3Q1MQ59 A0A3Q1MQ	5	5	392.15	0,55	578 0.72663	1 00557	0.05033	LL	HL	61955	Solute carrier family 3 member 2 OS=Bos taurus OX=9913 GN=SLC3A2 PE=	4051631	4702129	1951235	3290180	2666505	2383447	3078058	2818978	4462594	4360721	4194046	2815376	3472651	1458738	1699089	2141884
A0A3Q1MQ35 A0A3Q1MQ A0A3Q1M124 A0A3Q1M12	2	2	76,71	0.956	,	1.02037	0.05033	LL	HL	82169	Calpain-1 catalytic subunit OS=Bos taurus OX=9913 GN=CAPN1 PE=3 SV=1	133907	85921	133620	21600	91739	98255	129835	105240	118952	77205	65897	25149	157103	137812	46779	97201
A0A452DHW7 A0A452DHW	5	2	262,01	0.95	65 0.72663	1.67573	0.05032	HL	LL	29203	Beta-casein OS=Bos taurus OX=9913 GN=CSN2 PE=1 SV=1	97534	2007771	79096	162031	2264924	89589	6989242	57704	56368	2815256	78481	79623	2827077	114269	247073	4475751
Q5E9F1 Q5E9F1 BOVIN	3	3	240,48	0,961	179 0,72808	1,30732	0,05024	LL	HL	27884	B-cell receptor-associated protein 31 OS=Bos taurus OX=9913 GN=BCAP31	451198	265452	488671	163354	471846	772829	623397	848786	432012	73672	321817	181032	967323	1081594	1110385	356075
A0A3Q1LHD8 A0A3Q1LHD8	5	5	232,95	0,96	28 0,72808	1,01691	0,05023	HL	LL	81760	Ribosomal protein S6 kinase OS=Bos taurus OX=9913 GN=RPS6KA3 PE=3 S	104229	129253	239472	236689	545320	274318	101932	436799	443996	148753	641194	153347	304185	156054	317987	84606
A6QNL0 A6QNL0_BOVIN	4	4	315,71	0,963	325 0,72808	1,07412	0,05023	HL	LL	39897	Monocyte differentiation antigen CD14 OS=Bos taurus OX=9913 GN=CD14	4638270	2979343	6350325	3721216	6554719	8128909	5892880	4351173	3200357	11837650	3958086	10175430	5392445	2534943	4535977	11061551
A0A3Q1M4Y8 A0A3Q1M4Y	2	2	195,25	0,967	773 0,72927	2,32315	0,05017	LL	HL	48150	Phenylalanine-4-hydroxylase OS=Bos taurus OX=9913 GN=PAH PE=4 SV=1	7916	116136	0	2837	20018	0	326201	5520	23644	399	0	8512	1071624	9	22813	5804
F1MMK7 F1MMK7_BOVIN	3	3	187,04	0,972	211 0,72992	1,00203	0,05013	HL	LL	33238	GTP-binding protein OS=Bos taurus OX=9913 GN=RRAD PE=3 SV=1	549201	473271	713822	231671	723886	339077	675273	504653	603745	258749	312838	430740	776321	419746	614270	364542
F1MPU0 F1MPU0_BOVIN;P	26	26	1783,41	0,972	,	1,15392	0,05012	HL	LL	191247	Clathrin heavy chain OS=Bos taurus OX=9913 GN=CLTC PE=1 SV=3	2806312	3248922	3618902	5775701	9470983	3353409	3663002	12686089	8860684	7115658	4150534	3881072	6817825	4203970	5626705	4036194
P08037 B4GT1_BOVIN	7	7	444,46	0,972	,	1,18155	0,05012	HL	LL	44814	Beta-1,4-galactosyltransferase 1 OS=Bos taurus OX=9913 GN=B4GALT1 PE	1588869	1739075	607706	3690883	2645132	1457021	1384375	6897257	2430393	3505470	1317051	1752733	2110383	1098510	2077978	1497001
A0A3Q1MBS7 A0A3Q1MBS	4	4	246,41	.,.	,	1,06235	0,05012	LL	HL	23548	Uncharacterized protein OS=Bos taurus OX=9913 GN=RAB6A PE=4 SV=1	2901290	1415275	1712767	1294217	1159246	595167	2614049	2189353	1936809	1483855	761848	697729	2468594	3073542	2999000	1038071
A0A3Q1LM20 A0A3Q1LM2	2	2	147,8		,	1,05345	0,0501	LL	HL	14997	Histone H4 OS=Bos taurus OX=9913 GN=LOC112445649 PE=3 SV=1	131312	605724	272461	368495	472734	300120	4393523	540515	80707	558267	58462	342889	2315805	518000	570771	3480476
A0A3Q1LU21 A0A3Q1LU21 A0A3O1LW84 A0A3O1LW8	4	4	197,16 95.22	-,		1,03315	0,05007	HL HI	LL	117912 64814	SEC24 homolog C, COPII coat complex component OS=Bos taurus OX=991 Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alph	178148 35635	245809 89712	203069 71568	353024 18492	361434 124681	368721 178177	120084 43636	250280 42439	273763 85785	568317 80000	110203 80296	452856 63561	214831 47493	212566 89545	288921 81122	154633 16317
G5E554 G5E554 BOVIN:G3	2	2	150.14	0,979		1,21//3	0.05007	HL	HI	29196	PNPLA domain-containing protein OS=Bos taurus OX=9913 PE=4 SV=2	4793513	6228737	71568 15400107	18492 1015592	124681 2941278	7128657	43636 4638224	42439 1755639	85785 3264784	1058100	6639682	2174398	47493 3010860	89545 18757204	7503241	3507820
Q5E9F9 PRS7_BOVIN	2	2	202.78	-,	,	1,10037	0,05000	HL	LL	48603	26S proteasome regulatory subunit 7 OS=Bos taurus OX=9913 PE=4 SV=2	4/93513 3600	50048	15400107	1015592 33818	2941278 169754	/12865/ 26723	4638224 19832	1755639	96385	186655	9801	2174398 6149	126389	24696	7503241 62067	112224
F1N632 F1N632 BOVIN	2	2	147.51	0,984	.,	1 03777	0,05004	HL	LL	60314	Dolichyl-diphosphooligosaccharideprotein glycosyltransferase 48 kDa sul	51961	113448	108693	98704	258141	68664	54090	318902	86374	281946	44904	72910	157183	123894	165928	64108
P53619 COPD BOVIN	5	5	242.92	0,987	.,	1.06155	0.05003	LL	HL	57238	Coatomer subunit delta OS=Bos taurus OX=9913 GN=ARCN1 PE=1 SV=1	35966	74370	119247	44273	234543	83092	66364	419635	209732	145015	24489	23190	223152	172022	246187	37425
A0A3Q1LWM01A0A3Q1LWI	2	2	105.6	0.99	,	1.29787	0.05001	LL	HL	20239	RAB22A, member RAS oncogene family OS=Bos taurus OX=9913 GN=RAB2	195070	43918	159602	21279	103915	56065	272525	153791	86511	9402	14464	41777	237571	283158	299011	28058
A0A3S5ZPF7 A0A3S5ZPF7 E	3	3	166,28	0,995	579 0,73284	1,2209	0,05	HL	LL	47946	Phosphoserine aminotransferase OS=Bos taurus OX=9913 GN=PSAT1 PE=1	80313	46529	156080	116223	524678	181109	52626	706548	169052	123403	52925	150437	241532	288585	478508	17079
F1MD34 F1MD34_BOVIN	7	7	407,22	0,996	517 0,73284	1,06926	0,05	LL	HL	110052	Family with sequence similarity 129 member B OS=Bos taurus OX=9913 GI	871954	1100561	1254262	986809	1226313	1632583	638203	1219310	1163000	2900082	1520525	1442623	729229	747887	705079	1047508
O5E9A3 PCBP1_BOVIN;A0A	3	3	193,51	0,997	733 0,73284	1,01026	0,05	LL	HL	37474	Poly(rC)-binding protein 1 OS=Bos taurus OX=9913 GN=PCBP1 PE=2 SV=1	997824	909816	1230730	932879	1399949	1434999	1245714	1358635	737544	902494	1062392	991519	1439026	1381778	1204509	1037876
Q3MHG1 SPTC1_BOVIN	4	4	223,7	-,	373 0,73284	1,0697	0,05	LL	HL		Serine palmitoyltransferase 1 OS=Bos taurus OX=9913 GN=SPTLC1 PE=2 S\	107179	125574	142391	24067	172365	232817	63842	222425	203438	131112	134511	23838	116656	261579	200954	29690
F1N3B0 F1N3B0_BOVIN;A0	2	2	148,96	0,999	975 0,73284	1,0023	0,05	LL	HL	57923	Nicotinate phosphoribosyltransferase OS=Bos taurus OX=9913 GN=NAPRT	33144	12172	45777	250927	82458	42776	0	31851	56365	109542	238539	130442	0	51928	42123	12311

sPLS_Lipolysis_	Enrichment_GO	_BP_of_15prot_	_contributing_to	_HL_group
GO_BP	Name			Function

O_BP	_Enrichment_GO_BP_of_15prot_contributing_to_HL_go Name	Function Gene Name		Term frequency P-		Query with no gene
O:0010873	positive regulation of cholesterol esterification	Any process that increases the frequency, rate or extent of cholest APOA1 APOA4 APOE	23.08 3/13	37.50 3/8	6,0673E-06	•
0:0034433	steroid esterification very-low-density lipoprotein particle remodeling	A lipid modification process in which a steroid ester is formed by the APOA1 APOA4 APOE The acquisition, loss or modification of a protein or lipid within a v€ APOA1 APOA4 APOE	23.08 3/13 23.08 3/13	25.00 3/12 30.00 3/10	6,0673E-06 6,0673E-06	
0:0034370	triglyceride-rich lipoprotein particle remodeling	The acquisition, loss or modification of a protein or lipid within a tr APOA1 APOA4 APOE	23.08 3/13	30.00 3/10	6,0673E-06	
0:0034434	sterol esterification	A lipid modification process in which a sterol ester is formed by the APOA1 APOA4 APOE	23.08 3/13	25.00 3/12	6,0673E-06	
0:0010872 0:0034435	regulation of cholesterol esterification cholesterol esterification	Any process that modulates the frequency, rate or extent of choles APOA1 APOA4 APOE A lipid modification process in which a sterol ester is formed by thε APOA1 APOA4 APOE	23.08 3/13 23.08 3/13	33.33 3/9 25.00 3/12	6,0673E-06 6,0673E-06	
0:0034435	reverse cholesterol transport	The directed movement of peripheral cell cholesterol, cholest-5-en APOA1 APOA4 APOE	23.08 3/13	27.27 3/11	6,0673E-06	
0:0033700	phospholipid efflux	The directed movement of a phospholipid out of a cell or organelle APOA1 APOA4 APOE	23.08 3/13	23.08 3/13	7,00849E-06	
0:0045940	positive regulation of steroid metabolic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE	23.08 3/13	15.79 3/19	2,13232E-05	
0:0065005 0:0034369	protein-lipid complex assembly plasma lipoprotein particle remodeling	The aggregation, arrangement and bonding together of proteins ar APOA1 APOA4 APOE The acquisition, loss or modification of a protein or lipid within a pl APOA1 APOA4 APOE	23.08 3/13 23.08 3/13	15.00 3/20 13.64 3/22	2,27971E-05 2,60387E-05	
0:0034368	protein-lipid complex remodeling	The acquisition, loss or modification of a protein or lipid within a pr APOA1 APOA4 APOE	23.08 3/13	13.64 3/22	2,60387E-05	
:1903494	response to dehydroepiandrosterone	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13	100.00 2/2	2,69778E-05	
0:1903496	response to 11-deoxycorticosterone	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13	100.00 2/2	2,69778E-05	
0:0034367	protein-containing complex remodeling plasma lipoprotein particle organization	The acquisition, loss, or modification of macromolecules within a c APOA1 APOA4 APOE A protein-lipid complex subunit organization process that results in APOA1 APOA4 APOE	23.08 3/13 23.08 3/13	12.50 3/24 9.68 3/31	2,77849E-05 5,79248E-05	
:1902995	positive regulation of phospholipid efflux	Any process that activates or increases the frequency, rate or exter APOA1 APOE	15.38 2/13	66.67 2/3	5,95205E-05	
:1902994	regulation of phospholipid efflux	Any process that modulates the frequency, rate or extent of phosp APOA1 APOE	15.38 2/13	66.67 2/3	5,95205E-05	
:0071825	protein-lipid complex subunit organization	Any process in which macromolecules aggregate, disaggregate, or APOA1 APOA4 APOE Any process that results in a change in state or activity of a cell or a APOA1 APOA4 APOE BS	23.08 3/13	8.82 3/34	5,95205E-05 5.95205E-05	
:0010033	response to organic substance regulation of triglyceride metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE	23.08 3/13	0.41 9/2222 8.82 3/34	5,95205E-05	
:0032374	regulation of cholesterol transport	Any process that modulates the frequency, rate or extent of the dii APOA1 APOA4 APOE	23.08 3/13		0,000115493	
:0033344	cholesterol efflux	The directed movement of cholesterol, cholest-5-en-3-beta-ol, out APOA1 APOA4 APOE	23.08 3/13		0,000115493	
:0032371	regulation of sterol transport	Any process that modulates the frequency, rate or extent of the dia APOA1 APOA4 APOE	23.08 3/13		0,000115493	
:0120009	intermembrane lipid transfer regulation of plasma lipoprotein particle levels	The transport of lipids between membranes in which a lipid moleci APOA1 APOA4 APOE Any process involved in the maintenance of internal levels of plasm APOA1 APOA4 APOE	23.08 3/13 23.08 3/13		0,000127189 0,000139447	
:0032489	regulation of Cdc42 protein signal transduction	Any process that modulates the frequency, rate or extent of Cdc42 APOA1 APOE	15.38 2/13	33.33 2/6	0,00021647	
:0046889	positive regulation of lipid biosynthetic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE	23.08 3/13	5.17 3/58	0,000230753	
:0051385	response to mineralocorticoid	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13		0,000282751	
:0042632 :0055092	cholesterol homeostasis sterol homeostasis	Any process involved in the maintenance of an internal steady state APOA1 APOA4 APOE Any process involved in the maintenance of an internal steady state APOA1 APOA4 APOE	23.08 3/13 23.08 3/13		0,000304784 0,000309204	
:0034380	high-density lipoprotein particle assembly	The non-covalent aggregation and arrangement of proteins and lip APOA1 APOE	15.38 2/13		0,000335406	
:0051129		Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA4 APOE CLI	38.46 5/13	0.99 5/507	0,000335406	
:0019218	regulation of steroid metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE	23.08 3/13		0,000352439	
0:0051006 0:2001140	positive regulation of lipoprotein lipase activity positive regulation of phospholipid transport	Any process that activates or increases the activity of the enzyme li APOA1 APOA4 Any process that activates or increases the frequency, rate or exter APOA1 APOE	15.38 2/13 15.38 2/13		0,000392726 0,000392726	
0:2001140		Any process that activates or increases the frequency, rate or exter APOA1 APOA Any process that increases the frequency, rate, or extent of the chr APOA1 APOA4	15.38 2/13		0,000392726	
:0061365		Any process that increases the activity of triglyceride lipase. APOA1 APOA4	15.38 2/13	20.00 2/10	0,000422255	
:2001138	regulation of phospholipid transport	Any process that modulates the frequency, rate or extent of phosp APOA1 APOE	15.38 2/13		0,000422255	
:0030301	cholesterol transport		23.08 3/13		0,000422255	
:0042221	response to chemical negative regulation of amyloid fibril formation	Any process that results in a change in state or activity of a cell or a APOA1 APOA4 APOE BS Any process that stops, prevents or reduces the frequency, rate or APOE CLU	76.92 10/13 15.38 2/13		0,000422255 0,000422255	
0:0006641	triglyceride metabolic process		23.08 3/13		0,000422233	
:0032368	regulation of lipid transport	Any process that modulates the frequency, rate or extent of the dii APOA1 APOA4 APOE	23.08 3/13		0,000454776	
:0032488	Cdc42 protein signal transduction	A series of molecular signals within the cell that are mediated by th APOA1 APOE	15.38 2/13		0,000482255	
):0034375):0032570	high-density lipoprotein particle remodeling response to progesterone	The acquisition, loss or modification of a protein or lipid within a hi APOA1 APOE Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13 15.38 2/13		0,000543077 0,000543077	
1:1905906	regulation of amyloid fibril formation	Any process that modulates the frequency, rate or extent of amylo APOE CLU	15.38 2/13		0,000543077	
0:0098869	cellular oxidant detoxification		23.08 3/13		0,000555547	
:0015918	sterol transport	The directed movement of sterols into, out of or within a cell, or be APOA1 APOA4 APOE	23.08 3/13		0,000562399	
0:0010896	regulation of triglyceride catabolic process	Any process that modulates the frequency, rate, or extent of the chaPOA1 APOA1	15.38 2/13		0,000582178	
0:0051004	regulation of lipoprotein lipase activity cholesterol metabolic process	Any process that modulates the activity of the enzyme lipoprotein APOA1 APOA4 The chemical reactions and pathways involving cholesterol, cholest APOA1 APOA4 APOE	15.38 2/13 23.08 3/13		0,000582178 0,000582178	
0:0008203	phospholipid transport	The directed movement of phospholipids into, out of or within a ce APOA1 APOA4 APOE	23.08 3/13		0,000582178	
0:1902652	secondary alcohol metabolic process	The chemical reactions and pathways involving secondary alcohol. APOA1 APOA4 APOE	23.08 3/13	2.97 3/101	0,00063511	
0:0016125	sterol metabolic process		23.08 3/13		0,000661667	
D:1902903 D:0045834	regulation of supramolecular fiber organization positive regulation of lipid metabolic process	Any process that modulates the frequency, rate or extent of suprar APOA1 APOE CLU CSN1: Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE	30.77 4/13 23.08 3/13		0,000665794 0,000665794	
0:1990748	cellular detoxification	Any process carried out at the cellular level that reduces or remove APOA4 APOE CSN1S1	23.08 3/13		0,000665794	
0:1905952	regulation of lipid localization	Any process that modulates the frequency, rate or extent of lipid Ic APOA1 APOA4 APOE	23.08 3/13		0,000740408	
0:0097237	cellular response to toxic substance	Any process that results in a change in state or activity of a cell (in 1 APOA4 APOE CSN1S1	23.08 3/13		0,000740408	
0:0034377	plasma lipoprotein particle assembly lipid transport	The non-covalent aggregation and arrangement of proteins and lip APOA1 A	15.38 2/13		0,000760008	
0:0006869 0:0006639	acylglycerol metabolic process	The directed movement of lipids into, out of or within a cell, or bet APOA1 APOA4 APOE LBI The chemical reactions and pathways involving acylglycerol, any m APOA1 APOA4 APOE	23.08 3/13		0,000760008 0,000765313	
0:0006638	neutral lipid metabolic process		23.08 3/13		0,000773799	
1990000	amyloid fibril formation	The generation of amyloid fibrils, insoluble fibrous protein aggrega APOE CLU	15.38 2/13	11.76 2/17	0,000793252	
0:0031331	positive regulation of cellular catabolic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE CLI			0,000793252	
0:0010875 0:0098754	positive regulation of cholesterol efflux detoxification	Any process that increases the frequency, rate or extent of cholest APOA1 APOE Any process that reduces or removes the toxicity of a toxic substan APOA4 APOE CSN1S1	15.38 2/13 23.08 3/13		0,000793252 0,000808629	
0:0055088	lipid homeostasis	Any process involved in the maintenance of an internal steady stat APOA1	23.08 3/13		0,000838202	
0:0046890	regulation of lipid biosynthetic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE	23.08 3/13		0,0000911385	
0:0045723	positive regulation of fatty acid biosynthetic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4	15.38 2/13	10.00 2/20	0,001020122	
0:0010876	lipid localization	Any process in which a lipid is transported to, or maintained in, a si APOA1 APOA4 APOE LB			0,001020122	
0:0060416 0:0042157	response to growth hormone lipoprotein metabolic process	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2 The chemical reactions and pathways involving any conjugated, wa APOA1 APOA4 APOE	15.38 2/13 23.08 3/13	10.00 2/20 2.24 3/134	0,001020122 0,00108753	
0:0042157		Any process that increases the frequency, rate or extent of the che APOA1 APOA4 APOA1 APOA1 AP	23.08 3/13 15.38 2/13		0,00108753	
:0002385	mucosal immune response	An immune response taking place in mucosal tissues, including tho APOA4 PIGR	15.38 2/13	9.09 2/22	0,001145662	
:0055090	acylglycerol homeostasis	Any process involved in the maintenance of an internal steady stat APOA1 APOE	15.38 2/13		0,001145662	
0:0070328 0:1902904	triglyceride homeostasis	Any process involved in the maintenance of an internal steady state APOA1 APOE Any process that stops, prevents or reduces the frequency, rate or APOE CLU CSN1S1	15.38 2/13 23.08 3/13		0,001145662 0,001145662	
0:0009896	positive regulation of catabolic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE CLI			0,001145662	
:0015748	organophosphate ester transport	The directed movement of organophosphate esters into, out of or APOA1 APOA4 APOE	23.08 3/13		0,001208571	
0:0050996	positive regulation of lipid catabolic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4	15.38 2/13	8.70 2/23	0,001209518	
0:0050821	protein stabilization	Any process involved in maintaining the structure and integrity of a APOA1 APO	23.08 3/13		0,001280069	
0:0002376	immune system process response to toxic substance	Any process involved in the development or functioning of the imn APOA1 APOA4 APOE CLI Any process that results in a change in state or activity of a cell or a APOA4 APOE CSN1S1		0.34 7/2045 1.99 3/151	0,001338684	
:0009636	organ or tissue specific immune response	An immune response taking place in an organ or tissues such as the APOA4 PIGR	15.38 2/13	8.00 2/25	0,00135265	
0:0010874	regulation of cholesterol efflux	Any process that modulates the frequency, rate or extent of choles APOA1 APOE	15.38 2/13	8.00 2/25	0,00135265	
:0032376	positive regulation of cholesterol transport	Any process that activates or increases the frequency, rate or exter APOA1 APOE	15.38 2/13		0,001432643	
0:0032373	positive regulation of sterol transport	Any process that activates or increases the frequency, rate or exter APOA1 APOA1	15.38 2/13		0,001432643	
:0019433 :0045923	triglyceride catabolic process positive regulation of fatty acid metabolic process	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA4 Any process that activates or increases the frequency, rate or exter APOA1 APOA4	15.38 2/13 15.38 2/13		0,001529878 0,001873565	
:0043923	response to lipid	Any process that results in a change in state or activity of a cell or a APOA4 CSN1S1 CSN1S2			0,001873303	
:0032355	response to estradiol	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13		0,002089795	
:0030258	lipid modification		23.08 3/13		0,002308728	
:0046461	neutral lipid catabolic process	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA	15.38 2/13		0,002493052	
):1902653):0042304	secondary alcohol biosynthetic process regulation of fatty acid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4	15.38 2/13 15.38 2/13		0,002493052 0,002493052	
:0006695	cholesterol biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13		0,002493052	
:0046464	acylglycerol catabolic process	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA4	15.38 2/13		0,002493052	
0:0015850	organic hydroxy compound transport	The directed movement of an organic hydroxy compound (organic APOA1 APOA4 APOE	23.08 3/13	1.52 3/198	0,002571093	
0:0016126	sterol biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13		0,002872222	
0:0070887	cellular response to chemical stimulus	Any process that results in a change in state or activity of a cell (in I APOA1 APOA4 APOE BS			0,002882097	
0:0031960 0:0043113	response to corticosteroid receptor clustering	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2 The receptor metabolic process that results in grouping of a set of APOE PIGR	15.38 2/13 15.38 2/13	4.88 2/41 4.76 2/42	0,003115623 0,00323936	
D:0043113 D:0050727	regulation of inflammatory response	Any process that modulates the frequency, rate or extent of the ini APOA1 APOE LBP	23.08 3/13		0,003251371	
0:0060193	positive regulation of lipase activity	Any process that increases the frequency, rate or extent of lipase a APOA1 APOA4	15.38 2/13		0,003231371	
0:0008202	steroid metabolic process	The chemical reactions and pathways involving steroids, compount APOA1 APOA4 APOE	23.08 3/13	1.31 3/229	0,003686906	
0:0031647	regulation of protein stability	Any process that affects the structure and integrity of a protein, alt APOA1	23.08 3/13		0,003747571	
	regulation of small molecule metabolic process	Any process that modulates the rate, frequency or extent of a smal APOA1 APOA APOE	23.08 3/13		0,003953914	
0:0062012 0:0046470	phosphatidylcholine metabolic process	The chemical reactions and pathways involving phosphatidylcholin APOA1 APOA4	15.38 2/13	4.08 2/49	0,004139829	

CO-001031C		A	22.00.2/12	1 22 2/246	0.004246252
GO:0019216 GO:0031329	regulation of lipid metabolic process regulation of cellular catabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE CL	23.08 3/13	1.22 3/246 0.65 4/613	0,004346252 0,004476717
GO:0051323	regulation of lipase activity	Any process that modulates the frequency, rate or extent of lipase APOA1 APOA4 APOA4 APOA4 APOA5 APOA4 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APOA5 APO	15.38 2/13	3.85 2/52	0,004503354
GO:0032370	positive regulation of lipid transport	Any process that activates or increases the frequency, rate or exter APOA1 APOE	15.38 2/13	3.85 2/52	0,004503354
GO:0046503	glycerolipid catabolic process	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA4	15.38 2/13	3.70 2/54	0,004815256
GO:0097435	supramolecular fiber organization	A process that is carried out at the cellular level which results in the APOA1 APOE CLU CSN1		0.63 4/636	0,004972967
GO:0006066	alcohol metabolic process	The chemical reactions and pathways involving alcohols, any of a cl APOA1 APOA4 APOE	23.08 3/13	1.13 3/266	0,004986179
GO:1903000	regulation of lipid transport across blood-brain barrier	Any process that modulates the frequency, rate or extent of lipid tr APOE	7.69 1/13	100.00 1/1	0,004986179
GO:1905853	regulation of heparan sulfate binding	Any process that modulates the frequency, rate or extent of hepari APOE	7.69 1/13	100.00 1/1	0,004986179
GO:1905855	positive regulation of heparan sulfate binding	Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	100.00 1/1	0,004986179
GO:1905858	regulation of heparan sulfate proteoglycan binding	Any process that modulates the frequency, rate or extent of hepar: APOE	7.69 1/13	100.00 1/1	0,004986179
GO:0060265		Any process that increases the rate, frequency or extent of a phase LBP	7.69 1/13	100.00 1/1	0,004986179
GO:0090731		Any process that results in a change in state or activity of a cell (in I APOE	7.69 1/13	100.00 1/1	0,004986179
GO:0045919	positive regulation of cytolysis	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	100.00 1/1	0,004986179
GO:1903002		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	100.00 1/1	0,004986179
GO:1905890		Any process that modulates the frequency, rate or extent of cellula APOE	7.69 1/13	100.00 1/1	0,004986179
GO:0006952	defense response	Reactions, triggered in response to the presence of a foreign body APOA1 APOA4 APOE CS		0.43 5/1172	0,004986179
GO:0042268	regulation of cytolysis	Any process that modulates the frequency, rate or extent of the ru LBP	7.69 1/13	100.00 1/1	0,004986179
GO:0150201		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	100.00 1/1	0,004986179
GO:0150200	regulation of transport across blood-brain barrier	Any process that modulates the frequency, rate or extent of transp APOE	7.69 1/13	100.00 1/1	0,004986179
GO:0032805 GO:1905860		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13 7.69 1/13	100.00 1/1 100.00 1/1	0,004986179
GO:1905860 GO:0071831	intermediate-density lipoprotein particle clearance	Any process that activates or increases the frequency, rate or exter APOE The process in which a intermediate-density lipoprotein particle is APOE	7.69 1/13	100.00 1/1	0,004986179
GO:0071831 GO:0016042	lipid catabolic process	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA4 APOE	23.08 3/13	1.06 3/284	0,004580175
GO:0010042 GO:0051241		Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA4 APOE LB		0.58 4/686	0,005703479
GO:0031241	positive regulation of endocytosis	Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13	3.12 2/64	0,005737915
GO:0016192	vesicle-mediated transport	A cellular transport process in which transported substances are m APOA1 APOE CD5L CLU		0.39 5/1276	0,006401248
GO:0019217	regulation of fatty acid metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4		2.90 2/69	0,006524187
GO:0019915	lipid storage	The accumulation and maintenance in cells or tissues of lipids, com APOA1 APOE	15.38 2/13	2.90 2/69	0,006524187
GO:0006955	immune response	Any immune system process that functions in the calibrated respor APOA1 APOA4 APOE LB		0.39 5/1288	0,006540511
GO:1905954	positive regulation of lipid localization	Any process that activates or increases the frequency, rate or exter APOA1 APOE	15.38 2/13	2.82 2/71	0,006809794
GO:0009894	regulation of catabolic process	Any process that modulates the frequency, rate, or extent of the ch APOA1 APOA4 APOE CL	30.77 4/13	0.55 4/732	0,006923904
GO:0035023	regulation of Rho protein signal transduction	Any process that modulates the frequency, rate or extent of Rho pi APOA1 APOE	15.38 2/13	2.63 2/76	0,007689011
GO:1901654	response to ketone	A response that results in a state of tolerance to ketone. CSN1S1 CSN1S2	15.38 2/13	2.60 2/77	0,007837493
GO:0034444	regulation of plasma lipoprotein oxidation	Any process that modulates the frequency, rate or extent of lipopri APOA4	7.69 1/13	50.00 1/2	0,008421342
GO:1903365	regulation of fear response	Any process that modulates the frequency, rate or extent of fear r∈ APOE	7.69 1/13	50.00 1/2	0,008421342
GO:2000822	regulation of behavioral fear response	Any process that modulates the frequency, rate or extent of behav APOE	7.69 1/13	50.00 1/2	0,008421342
GO:0002434	immune complex clearance	A process directed at removing immune complexes from the body. CLU	7.69 1/13	50.00 1/2	0,008421342
GO:0050896	response to stimulus	Any process that results in a change in state or activity of a cell or a APOA1 APOA4 APOE BS	84.62 11/13	0.14 11/7978	0,008421342
GO:0034445	negative regulation of plasma lipoprotein oxidation	Any process that stops, prevents, or reduces the frequency, rate or APOA4	7.69 1/13	50.00 1/2	0,008421342
GO:0006982	response to lipid hydroperoxide	Any process that results in a change in state or activity of a cell or a APOA4	7.69 1/13	50.00 1/2	0,008421342
GO:0046486	glycerolipid metabolic process	The chemical reactions and pathways involving glycerolipids, any li APOA1 APOA4 APOE	23.08 3/13	0.86 3/347	0,008421342
GO:0002415		The process of transporting polymeric IgA and polymeric IgM immι PIGR	7.69 1/13	50.00 1/2	0,008421342
GO:0015920	lipopolysaccharide transport	The directed movement of lipopolysaccharides into, out of or withi LBP	7.69 1/13	50.00 1/2	0,008421342
GO:0010877	lipid transport involved in lipid storage	The directed movement of lipids into cells that is part of their accui APOE	7.69 1/13	50.00 1/2	0,008421342
GO:0002414	immunoglobulin transcytosis in epithelial cells	The process of transporting immunoglobulin, via transcytosis, from PIGR	7.69 1/13	50.00 1/2	0,008421342
GO:0097114 GO:1902952	NMDA glutamate receptor clustering	The receptor clustering process in which N-methyl-D-aspartate (NN APOE Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13 7.69 1/13	50.00 1/2 50.00 1/2	0,008421342
GO:1902952 GO:0062013	positive regulation of dendritic spine maintenance				
GO:0002013 GO:0097305	response to alcohol	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2		2.33 2/86 2.30 2/87	0,008854576 0,009004036
GO:0097303 GO:0098542	defense response to other organism	Reactions triggered in response to the presence of another organis APOA4 APOE CSN152 LB		0.49 4/812	0,009004030
GO:0038542 GO:0043534	blood vessel endothelial cell migration	The orderly movement of an endothelial cell into the extracellular APOA1 APOE		2.22 2/90	0,009512196
GO:0050728	negative regulation of inflammatory response	Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOE		2.20 2/91	0,00966384
GO:0031728	regulation of defense response	Any process that modulates the frequency, rate or extent of a defe APOA1 APOE LBP	23.08 3/13	0.80 3/376	0,010133212
GO:0031547	lipoprotein biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13	2.08 2/96	0,010550927
GO:1990266	neutrophil migration	The movement of a neutrophil within or between different tissues GP2 LBP	15.38 2/13	2.08 2/96	0,010550927
GO:0060627	regulation of vesicle-mediated transport	Any process that modulates the rate, frequency, or extent of vesicl APOA1 APOE CLU		0.78 3/385	0,01065243
GO:0010565	regulation of cellular ketone metabolic process	Any process that modulates the chemical reactions and pathways i APOA1 APOA4	15.38 2/13	2.04 2/98	0,010860945
GO:0061771	response to caloric restriction	A change in state or activity of a cell or an organism (in terms of mc APOE	7.69 1/13	33.33 1/3	0,011551973
GO:0071830	triglyceride-rich lipoprotein particle clearance	The process in which a triglyceride-rich lipoprotein particle is remo APOE	7.69 1/13	33.33 1/3	0,011551973
GO:1901615	organic hydroxy compound metabolic process	The chemical reactions and pathways involving organic hydroxy co APOA1 APOA4 APOE	23.08 3/13	0.75 3/398	0,011551973
GO:0034382	chylomicron remnant clearance	The process in which a chylomicron remnant is removed from the I APOE	7.69 1/13	33.33 1/3	0,011551973
GO:0034441	plasma lipoprotein particle oxidation	The modification of a lipid or protein within a plasma lipoprotein pi APOA4	7.69 1/13	33.33 1/3	0,011551973
GO:0051716	cellular response to stimulus	Any process that results in a change in state or activity of a cell (in I APOA1 APOA4 APOE BS	76.92 10/13	0.15 10/6878	0,012172433
GO:0080134	regulation of response to stress	Any process that modulates the frequency, rate or extent of a resp APOA1 APOE CLU LBP	30.77 4/13	0.44 4/909	0,012591759
GO:0046165	alcohol biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13	1.83 2/109	0,012797411
GO:1903364		Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13	1.75 2/114	0,013748188
GO:0001935	endothelial cell proliferation	The multiplication or reproduction of endothelial cells, resulting in APOA1 APOE		1.75 2/114	0,013748188
GO:0007266	Rho protein signal transduction	A series of molecular signals within the cell that are mediated by a APOA1 APOE	15.38 2/13	1.75 2/114	0,013748188
GO:0003360	brainstem development	The progression of the brainstem from its formation to the mature CNTFR	7.69 1/13	25.00 1/4	0,013826807
GO:0032802	granulocyte migration	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	25.00 1/4	0,013826807
GO:0097530 GO:0045541		The movement of a granulocyte within or between different tissue GP2 LBP Any process that stops, prevents, or reduces the frequency, rate or APOE	15.38 2/13 7.69 1/13	1.69 2/118 25.00 1/4	0,013826807
GO:0045541 GO:1900223	positive regulation of amyloid-beta clearance		7.69 1/13	25.00 1/4	0,013826807
GO:1900223 GO:0090206		Any process that activates or increases the frequency, rate or exter APOE Any process that decreases the rate, frequency, or extent of choles APOE	7.69 1/13	25.00 1/4	0,013826807
GO:0032799		The chemical reactions and pathways involving low-density lipopro APOE	7.69 1/13	25.00 1/4	0,013826807
GO:0032733		Any process that decreases the rate, frequency or extent of very-lo APOA1	7.69 1/13	25.00 1/4	0,013826807
GO:0060264		Any process that modulates the rate, frequency or extent of a phas LBP	7.69 1/13	25.00 1/4	0,013826807
GO:0044283	small molecule biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOA4 APOE	23.08 3/13	0.69 3/437	0,013826807
GO:0006694	steroid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13	1.72 2/116	0,013826807
GO:0106119	negative regulation of sterol biosynthetic process	Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13	25.00 1/4	0,013826807
GO:2000646	positive regulation of receptor catabolic process	Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	25.00 1/4	0,013826807
GO:0032803		Any process that modulates the frequency, rate or extent of the ch APOE	7.69 1/13	25.00 1/4	0,013826807
GO:0002252	immune effector process	Any process of the immune system that executes a component of a APOA1 CLU LBP	23.08 3/13	0.66 3/454	0,014705774
GO:0006633	fatty acid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOA4		1.61 2/124	0,014907769
GO:0006897	endocytosis	A vesicle-mediated transport process in which cells take up extern: APOE CD5L CLU		0.64 3/466	0,015675041
GO:0006954	inflammatory response	The immediate defensive reaction (by vertebrate tissue) to infectic APOA1 APOE LBP	23.08 3/13	0.64 3/472	0,016031837
GO:0045088	regulation of innate immune response	Any process that modulates the frequency, rate or extent of the ini APOE LBP	15.38 2/13	1.54 2/130	0,016031837
GO:0030100	regulation of endocytosis	Any process that modulates the frequency, rate or extent of endoc APOE CLU The powertransmitter gated ion changed clustering process in which APOE	15.38 2/13	1.54 2/130	0,016031837
GO:0097688	glutamate receptor clustering	The neurotransmitter-gated ion channel clustering process in which APOE	7.69 1/13	20.00 1/5	0,016203623
GO:0010901		Any process that modulates the rate, frequency or extent of very-k APOA1	7.69 1/13	20.00 1/5	0,016203623
GO:1990379 GO:0034447	lipid transport across blood-brain barrier	The directed movement of lipid molecules passing through the blo- APOE The process in which a very-low-density lipoprotein particle is rem- APOE	7.69 1/13 7.69 1/13	20.00 1/5 20.00 1/5	0,016203623
GO:0034447 GO:0097113	very-low-density lipoprotein particle clearance AMPA glutamate receptor clustering		7.69 1/13 7.69 1/13	20.00 1/5	0,016203623
GO:0097113 GO:0002536	respiratory burst involved in inflammatory response	The glutamate receptor clustering process in which alpha-amino-3· APOE A phase of elevated metabolic activity, during which oxygen consul LBP	7.69 1/13	20.00 1/5	0,016203623 0,016203623
GO:0002536 GO:0060354		A priase of elevated metabolic activity, during which oxygen consultable Any process that decreases the rate, frequency or extent of cell adl APOA1	7.69 1/13	20.00 1/5	0,016203623
GO:0000354 GO:1901700	response to oxygen-containing compound	Any process that decreases the rate, frequency of extent of cell and APOA1 Any process that results in a change in state or activity of a cell or a APOA4 CSN1S1 CSN1S2		0.39 4/1028	0,016724838
GO:0051128	regulation of cellular component organization	Any process that results in a change in state of activity of a central a AFOA4 CSN131 CSN132 Any process that modulates the frequency, rate or extent of a proc APOA1 APOA4 APOE CL		0.29 5/1732	0,016729878
GO:0051128 GO:0051707	response to other organism	Any process that modulates the nequency, rate of extent of a proc Ar OAT Ar OAT Ar OE CE Any process that results in a change in state or activity of a cell or a APOA4 APOE CSN152 LB		0.38 4/1066	0,018390714
GO:0002232		The movement of an immune cell in response to an external stimul LBP	7.69 1/13	16.67 1/6	0,018390714
GO:1902950	regulation of dendritic spine maintenance	Any process that modulates the frequency, rate or extent of dendri APOE	7.69 1/13	16.67 1/6	0,018390714
GO:0034115	negative regulation of heterotypic cell-cell adhesion	Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13	16.67 1/6	0,018390714
GO:0031348	negative regulation of defense response	Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOE	15.38 2/13	1.37 2/146	0,018390714
GO:0060267	positive regulation of respiratory burst	Any process that increases the rate frequency or extent of a phase LBP	7.69 1/13	16.67 1/6	0,018390714
GO:0090209	negative regulation of triglyceride metabolic process	Any process that decreases the frequency, rate or extent of the chr APOE	7.69 1/13	16.67 1/6	0,018390714
GO:0070587		Any process that modulates the frequency, rate, or extent of attacl APOA1	7.69 1/13	16.67 1/6	0,018390714
GO:0043207	response to external biotic stimulus	Any process that results in a change in state or activity of a cell or a APOA4 APOE CSN1S2 LB $$		0.37 4/1068	0,018390714
GO:1900272		Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13	16.67 1/6	0,018390714
GO:0002682	regulation of immune system process	Any process that modulates the frequency, rate, or extent of an im APOA1 APOE LBP PIGR		0.37 4/1077	0,018724267
GO:0008610	lipid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOA4 APOE	23.08 3/13	0.57 3/525	0,019577955
GO:0048545	response to steroid hormone	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13	1.32 2/152	0,019628779
GO:0072330	monocarboxylic acid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOA4	15.38 2/13	1.31 2/153	0,01963209
GO:0061136					
	regulation of proteasomal protein catabolic process	Any process that modulates the rate, frequency, or extent of the ct APOE CLU	15.38 2/13	1.31 2/153	0,01963209
GO:0009607	regulation of proteasomal protein catabolic process response to biotic stimulus	Any process that results in a change in state or activity of a cell or a APOA4 APOE CSN1S2 LE	3 30.77 4/13	0.36 4/1098	0,01963209
	regulation of proteasomal protein catabolic process				

GO:0070391	response to lipoteichoic acid	Any process that results in a change in state or activity of an organi LBP	7.69 1/13	14.29 1/7	0,020249368
GO:2000644 GO:0070586	regulation of receptor catabolic process cell-cell adhesion involved in gastrulation	Any process that modulates the frequency, rate or extent of recept APOE The attachment of one cell to another cell affecting gastrulation. APOA1	7.69 1/13 7.69 1/13	14.29 1/7 14.29 1/7	0,020249368 0,020249368
GO:0070120	ciliary neurotrophic factor-mediated signaling pathway	A series of molecular signals initiated by the binding of a ciliary neu CNTFR	7.69 1/13	14.29 1/7	0,020249368
GO:0030300 GO:0071223	regulation of intestinal cholesterol absorption cellular response to lipoteichoic acid	Any process that modulates the frequency, rate or extent of absort APOA1 Any process that results in a change in state or activity of a cell (in I LBP	7.69 1/13 7.69 1/13	14.29 1/7 14.29 1/7	0,020249368 0.020249368
GO:0046578	regulation of Ras protein signal transduction	Any process that modulates the frequency, rate or extent of Ras pr APOA1 APOE	15.38 2/13	1.25 2/160	0,020677805
GO:0045087 GO:0097529	innate immune response myeloid leukocyte migration	Innate immune responses are defense responses mediated by gerr APOA4 APOE LBP The movement of a myeloid leukocyte within or between different GP2 LBP	23.08 3/13 15.38 2/13	0.54 3/558 1.20 2/166	0,021945498 0,022026717
GO:0044093	positive regulation of molecular function	Any process that activates or increases the rate or extent of a mole APOA1 APOA4 APOE CLU	30.77 4/13	0.35 4/1149	0,022040865
GO:0043542 GO:0009967	endothelial cell migration positive regulation of signal transduction	The orderly movement of an endothelial cell into the extracellular I APOA1 APOE Any process that activates or increases the frequency, rate or exter APOA1 APOE CLU LBP	15.38 2/13 30.77 4/13	1.18 2/169 0.34 4/1161	0,02261672 0,022685293
GO:0042180	cellular ketone metabolic process	The chemical reactions and pathways involving any of a class of org APOA1 APOA4	15.38 2/13	1.18 2/170	0,022687777
GO:0006950 GO:0044419	response to stress hiological process involved in interspecies interaction h	Any process that results in a change in state or activity of a cell or a APOA1 APOA4 APOE CLI Any process evolved to enable an interaction with an organism of a APOA4 APOE CSN1S2 LB		0.21 6/2809 0.34 4/1167	0,022750495 0,022822023
GO:0006898	receptor-mediated endocytosis	An endocytosis process in which cell surface receptors ensure spec APOE CLU	15.38 2/13	1.16 2/173	0,023098847
GO:0051050 GO:1903050	positive regulation of transport regulation of proteolysis involved in cellular protein cat	Any process that activates or increases the frequency, rate or exter APOA1 APOE CLU Any process that modulates the frequency, rate or extent of protex APOE CLU	23.08 3/13 15.38 2/13	0.52 3/576 1.15 2/174	0,023098847 0,023254174
GO:0055089	fatty acid homeostasis	Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13	11.11 1/9	0,023392718
GO:0035376 GO:0001818	sterol import negative regulation of cytokine production	The directed movement of a sterol into a cell or organelle. Sterols a APOA1 Any process that stops, prevents, or reduces the rate of productior APOA1 LBP	7.69 1/13 15.38 2/13	11.11 1/9 1.10 2/181	0,023392718 0,023392718
GO:0032490	detection of molecule of bacterial origin	The series of events in which a stimulus from a molecule of bacteri LBP	7.69 1/13	11.11 1/9	0,023392718
GO:0070508 GO:0034384	cholesterol import high-density lipoprotein particle clearance	The directed movement of cholesterol into a cell or organelle. APOA1 The process in which a high-density lipoprotein particle is removed APOE	7.69 1/13 7.69 1/13	11.11 1/9 11.11 1/9	0,023392718 0,023392718
GO:0016127	sterol catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	11.11 1/9	0,023392718
GO:1901617 GO:0045732	organic hydroxy compound biosynthetic process positive regulation of protein catabolic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13 15.38 2/13	1.14 2/175 1.11 2/180	0,023392718 0,023392718
GO:0051049	regulation of transport	Any process that modulates the frequency, rate or extent of the dii APOA1 APOA4 APOE CLU	30.77 4/13	0.33 4/1201	0,023392718
GO:0002679 GO:0001967	respiratory burst involved in defense response suckling behavior	A phase of elevated metabolic activity, during which oxygen consul LBP Specific behavior of a newborn or infant mammal that results in the CNTFR	7.69 1/13 7.69 1/13	11.11 1/9 11.11 1/9	0,023392718 0,023392718
GO:1904478	regulation of intestinal absorption	Any process that modulates the frequency, rate or extent of intesti APOA1	7.69 1/13	11.11 1/9	0,023392718
GO:0006707	cholesterol catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	11.11 1/9	0,023392718 0,023392718
GO:0016477 GO:0006810	cell migration transport	The controlled self-propelled movement of a cell from one site to a APOA1 APOE GP2 LBP The directed movement of substances (such as macromolecules, si APOA1 APOA4 APOE CD	30.77 4/13 53.85 7/13	0.33 4/1202 0.18 7/3886	0,023392718
GO:0060353	regulation of cell adhesion molecule production	Any process that modulates the rate, frequency or extent of cell ad APOA1	7.69 1/13	11.11 1/9	0,023392718
GO:0072578 GO:0034374	neurotransmitter-gated ion channel clustering low-density lipoprotein particle remodeling	The receptor clustering process in which neurotransmitter-gated ic APOE The acquisition, loss or modification of a protein or lipid within a lo APOE	7.69 1/13 7.69 1/13	11.11 1/9 10.00 1/10	0,023392718 0,024955793
GO:0009605	response to external stimulus	Any process that results in a change in state or activity of a cell or a APOA1 APOA4 APOE CSI		0.25 5/2004	0,024955793
GO:0044242 GO:0034145	cellular lipid catabolic process positive regulation of toll-like receptor 4 signaling path	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA4 Any process that activates or increases the frequency, rate, or exte LBP	15.38 2/13 7.69 1/13	1.06 2/188 10.00 1/10	0,024955793
GO:1900221	regulation of amyloid-beta clearance	Any process that modulates the frequency, rate or extent of amylo APOE	7.69 1/13	10.00 1/10	0,024955793
GO:0106118 GO:0045540	regulation of sterol biosynthetic process regulation of cholesterol biosynthetic process	Any process that modulates the frequency, rate or extent of a sterc APOE Any process that modulates the frequency, rate or extent of the ch APOE	7.69 1/13 7.69 1/13	10.00 1/10 10.00 1/10	0,024955793 0,024955793
GO:0050776	regulation of immune response	Any process that modulates the frequency, rate or extent of the im APOE LBP PIGR	23.08 3/13	0.49 3/616	0,02507701
GO:0061024 GO:0051056	membrane organization regulation of small GTPase mediated signal transduction	A process which results in the assembly, arrangement of constitue APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of small (APOA1 APOE	23.08 3/13 15.38 2/13	0.48 3/620 1.04 2/193	0,025437538 0,025523705
GO:0032879	regulation of localization	Any process that modulates the frequency, rate or extent of any pr APOA1 APOA4 APOE CLU	38.46 5/13	0.24 5/2055	0,0261192
GO:0044794 GO:0002523	positive regulation by host of viral process	A process in which a host organism activates or increases the frequ APOE The movement of a leukocyte within or between different tissues a LBP	7.69 1/13 7.69 1/13	9.09 1/11 9.09 1/11	0,0261192 0,0261192
GO:0033194	response to hydroperoxide	Any process that results in a change in state or activity of a cell or a APOA4	7.69 1/13	9.09 1/11	0,0261192
GO:1902931 GO:0051234	negative regulation of alcohol biosynthetic process establishment of localization	Any process that stops, prevents or reduces the frequency, rate or APOE Any process that localizes a substance or cellular component. This APOA1 APOA4 APOE CD	7.69 1/13	9.09 1/11 0.17 7/4033	0,0261192 0,0261192
GO:1903362	regulation of cellular protein catabolic process	Any process that todalizes a substance of cellular component. This FAPOAT APOAT APOA	15.38 2/13	1.02 2/196	0,0261192
GO:0097062 GO:0030299	dendritic spine maintenance	The organization process that preserves a dendritic spine in a stabl APOE	7.69 1/13	9.09 1/11	0,0261192
GO:0050299 GO:0060263	intestinal cholesterol absorption regulation of respiratory burst	Uptake of cholesterol into the blood by absorption from the small i APOA1 Any process that modulates the rate frequency or extent of a phasi LBP	7.69 1/13 7.69 1/13	9.09 1/11 9.09 1/11	0,0261192 0,0261192
GO:0018206	peptidyl-methionine modification	The modification of peptidyl-methionine. APOA1	7.69 1/13	9.09 1/11	0,0261192
GO:0032101 GO:0010647	regulation of response to external stimulus positive regulation of cell communication	Any process that modulates the frequency, rate or extent of a resp APOA1 APOE LBP Any process that increases the frequency, rate or extent of cell con APOA1 APOE CLU LBP	23.08 3/13 30.77 4/13	0.47 3/642 0.31 4/1286	0,026741073 0,027281672
GO:0060352	cell adhesion molecule production	The appearance of a cell adhesion molecule due to biosynthesis or APOA1	7.69 1/13	8.33 1/12	0,027681859
GO:0051044 GO:0043117	positive regulation of membrane protein ectodomain p positive regulation of vascular permeability	Any process that activates or increases the frequency, rate or exter APOE Any process that increases the extent to which blood vessels can b APOE	7.69 1/13 7.69 1/13	8.33 1/12 8.33 1/12	0,027681859 0,027681859
GO:1902430	negative regulation of amyloid-beta formation	Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13	8.33 1/12	0,027681859
GO:0023056 GO:0038093	positive regulation of signaling Fc receptor signaling pathway	Any process that activates, maintains or increases the frequency, r: APOA1 APOE CLU LBP A series of molecular signals initiated by the binding of the Fc porti PIGR	30.77 4/13 7.69 1/13	0.31 4/1293 8.33 1/12	0,027681859 0,027681859
GO:0010243	response to organonitrogen compound	Any process that results in a change in state or activity of a cell or a APOE CSN1S1 CSN1S2	23.08 3/13	0.46 3/658	0,027842254
GO:0071345 GO:0002831	cellular response to cytokine stimulus regulation of response to biotic stimulus	Any process that results in a change in state or activity of a cell (in 1 APOA1 BSPRY CNTFR Any process that modulates the frequency, rate, or extent of a rest APOE LBP	23.08 3/13 15.38 2/13	0.45 3/660 0.95 2/211	0,027980979 0,028067229
GO:0035641	locomotory exploration behavior	The specific movement from place to place of an organism in respc APOE	7.69 1/13	7.69 1/13	0,029182936
GO:0044241 GO:0018158	lipid digestion protein oxidation	The whole of the physical, chemical, and biochemical processes car APOA1 The modification of a protein amino acid by oxidation. APOA1	7.69 1/13 7.69 1/13	7.69 1/13 7.69 1/13	0,029182936 0,029182936
GO:0098856	intestinal lipid absorption	Any process in which lipids are taken up from the contents of the ir APOA1	7.69 1/13	7.69 1/13	0,029182936
GO:0010544 GO:0010232	negative regulation of platelet activation vascular transport	Any process that decreases the rate or frequency of platelet actival APOE The directed movement of substances, into, out of or within a cell, APOE	7.69 1/13 7.69 1/13	7.69 1/13 7.14 1/14	0,029182936 0,030604986
GO:0150104	transport across blood-brain barrier	The directed movement of substances (e.g. macromolecules, small APOE	7.69 1/13	7.14 1/14	0,030604986
GO:0055091 GO:0048870	phospholipid homeostasis cell motility	Any process involved in the maintenance of an internal steady state APOA1 Any process involved in the controlled self-propelled movement of APOA1 APOE GP2 LBP	7.69 1/13 30.77 4/13	7.14 1/14 0.30 4/1350	0,030604986 0.030604986
GO:0032691	negative regulation of interleukin-1 beta production	Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13	7.14 1/14	0,030604986
GO:0051000 GO:0051674	positive regulation of nitric-oxide synthase activity localization of cell	Any process that activates or increases the activity of the enzyme r APOE Any process in which a cell is transported to, and/or maintained in, APOA1 APOE GP2 LBP	7.69 1/13 30.77 4/13	7.14 1/14 0.30 4/1350	0,030604986 0,030604986
GO:0031074 GO:0045056	transcytosis	The directed movement of endocytosed material through the cell a PIGR	7.69 1/13	7.14 1/14	0,030604986
GO:0051179 GO:0043434	localization response to peptide hormone	Any process in which a cell, a substance, or a cellular entity, such a: APOA1 APOA4 APOE CD Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	61.54 8/13 15.38 2/13	0.15 8/5413 0.87 2/229	0,030904237 0,031271859
GO:0010804	negative regulation of tumor necrosis factor-mediated	Any process that decreases the rate or extent of the tumor necrosi APOA1	7.69 1/13	6.67 1/15	0,032055113
GO:0002281 GO:0043032	macrophage activation involved in immune response positive regulation of macrophage activation	A change in morphology and behavior of a macrophage resulting fr LBP Any process that stimulates, induces or increases the rate of macro LBP	7.69 1/13 7.69 1/13	6.67 1/15 6.67 1/15	0,032055113 0,032055113
GO:0030325	adrenal gland development	The process whose specific outcome is the progression of the adre APOA1	7.69 1/13	6.67 1/15	0,032055113
GO:1902992 GO:0034097	negative regulation of amyloid precursor protein catab- response to cytokine	Any process that stops, prevents or reduces the frequency, rate or APOE Any process that results in a change in state or activity of a cell or a APOA1 BSPRY CNTFR	7.69 1/13 23.08 3/13	6.67 1/15 0.42 3/713	0,032055113 0.032140446
GO:0010631	epithelial cell migration	The orderly movement of an epithelial cell from one site to anothe APOA1 APOE	15.38 2/13	0.85 2/235	0,032140446
GO:0090132 GO:0046394	epithelium migration carboxylic acid biosynthetic process	The process in which the population of cells that make up an epith APOA1 APOE The chemical reactions and pathways resulting in the formation of APOA1 APOA4	15.38 2/13 15.38 2/13	0.84 2/237 0.84 2/239	0,032564831 0,032990424
GO:0007263	nitric oxide mediated signal transduction	Any intracellular signal transduction in which the signal is passed o APOE	7.69 1/13	6.25 1/16	0,032990424
GO:0002719		Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13	6.25 1/16	0,033065378
GO:0002227 GO:0016053	innate immune response in mucosa organic acid biosynthetic process	Any process of the innate immune response that takes place in the APOA4 The chemical reactions and pathways resulting in the formation of APOA1 APOA4	7.69 1/13 15.38 2/13	6.25 1/16 0.83 2/242	0,033065378 0,033065378
GO:0008283	cell population proliferation	The multiplication or reproduction of cells, resulting in the expansic APOA1 APOE CLU CNTFF		0.28 4/1409	0,033065378
GO:0019430 GO:0006656	removal of superoxide radicals phosphatidylcholine biosynthetic process	Any process, acting at the cellular level, involved in removing super APOA4 The chemical reactions and pathways resulting in the formation of APOA1	7.69 1/13 7.69 1/13	6.25 1/16 6.25 1/16	0,033065378 0,033065378
GO:0090130	tissue migration	The process in which the population of cells that make up a tissue I APOA1 APOE	15.38 2/13	0.82 2/243	0,033226039
GO:0007166 GO:1902533	cell surface receptor signaling pathway positive regulation of intracellular signal transduction	A series of molecular signals initiated by activation of a receptor on APOA1 APOE CNTFR LBF Any process that activates or increases the frequency, rate or exter APOA1 APOE CLU	38.46 5/13 23.08 3/13	0.22 5/2259 0.40 3/741	0,033649856 0,034146314
GO:0042159	lipoprotein catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	5.88 1/17	0,034146314
GO:1901698 GO:0071450	response to nitrogen compound cellular response to oxygen radical	Any process that results in a change in state or activity of a cell or a APOE CSN1S1 CSN1S2 Any process that results in a change in state or activity of a cell (in I APOA4	23.08 3/13 7.69 1/13	0.40 3/741 5.88 1/17	0,034146314 0,034146314
GO:0071451	cellular response to superoxide	Any process that results in a change in state or activity of a cell (in I APOA4	7.69 1/13	5.88 1/17	0,034146314
GO:0051043 GO:0090023	regulation of membrane protein ectodomain proteolys positive regulation of neutrophil chemotaxis	Any process that modulates the frequency, rate or extent of the pr APOE Any process that increases the frequency, rate, or extent of neutro LBP	7.69 1/13 7.69 1/13	5.88 1/17 5.88 1/17	0,034146314 0,034146314
GO:0002697	regulation of immune effector process	Any process that modulates the frequency, rate, or extent of an im APOA1 LBP	15.38 2/13	0.79 2/252	0,034669907
GO:0034114 GO:0032692	regulation of heterotypic cell-cell adhesion negative regulation of interleukin-1 production	Any process that modulates the frequency, rate, or extent of heter APOA1 Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13 7.69 1/13	5.56 1/18 5.56 1/18	0,035718919 0,035718919
GO:0098581	detection of external biotic stimulus	The series of events in which an external biotic stimulus is detected LBP	7.69 1/13	5.56 1/18	0,035718919
GO:0044087 GO:0051130	regulation of cellular component biogenesis	Any process that modulates the frequency, rate or extent of cellula APOA1 APOE CLU Any process that activates or increases the frequency, rate or exter APOA1 APOE CLU	23.08 3/13 23.08 3/13	0.39 3/762 0.39 3/763	0,035871075 0,035893842
GO:0051235	maintenance of location	Any process that activates of increases the frequency, rate of exter APOAT APOE CLO Any process in which a cell, substance or cellular entity, such as a p APOA1 APOE	15.38 2/13	0.76 2/262	0,0336585695

GO:0006650 GO:0040011	al acceptance to a limit acceptance and acceptance	The sheariest residues and eathers are involving absorbable ADOM ADOM	15.38 2/13	0.76 2/262	0,036585695
	glycerophospholipid metabolic process locomotion	The chemical reactions and pathways involving glycerophospholipi APOA1 APOA4 Self-propelled movement of a cell or organism from one location to APOA1 APOE GP2 LBP	30.77 4/13	0.76 2/262	0,036726162
GO:0000303	response to superoxide	Any process that results in a change in state or activity of a cell or a APOA4	7.69 1/13	5.26 1/19	0,036720102
GO:0035640	exploration behavior	The specific behavior of an organism in response to a novel enviror APOE	7.69 1/13	5.26 1/19	0,036825582
GO:0033040	regulation of toll-like receptor 4 signaling pathway	Any process that modulates the frequency, rate, or extent of toll-lil LBP	7.69 1/13	5.26 1/19	0,036825582
GO:0032102	negative regulation of response to external stimulus	Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOE	15.38 2/13	0.75 2/266	0,037119143
GO:0000305	response to oxygen radical	Any process that results in a change in state or activity of a cell or a APOA4	7.69 1/13	5.00 1/20	0,037669754
GO:0033036	macromolecule localization	Any process in which a macromolecule is transported to, or mainta APOA1 APOA4 APOE LB		0.21 5/2363	0,037669754
GO:0045939	negative regulation of steroid metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	5.00 1/20	0,037669754
GO:0010894	negative regulation of steroid biosynthetic process	Any process that decreases the frequency, rate or extent of the chr APOE	7.69 1/13	5.00 1/20	0,037669754
GO:0008211	glucocorticoid metabolic process	The chemical reactions and pathways involving glucocorticoids, ho APOA1	7.69 1/13	5.00 1/20	0,037669754
GO:0060999	positive regulation of dendritic spine development	Any process that increases the rate, frequency, or extent of dendrii APOE	7.69 1/13	5.00 1/20	0,037669754
GO:0071624	positive regulation of granulocyte chemotaxis	Any process that increases the rate, frequency or extent of granulc LBP	7.69 1/13	5.00 1/20	0,037669754
GO:0006706	steroid catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	5.00 1/20	0,037669754
GO:0090181	regulation of cholesterol metabolic process	Any process that modulates the rate, frequency, or extent of chole APOE	7.69 1/13	5.00 1/20	0,037669754
GO:0042742	defense response to bacterium	Reactions triggered in response to the presence of a bacterium tha CSN1S2 LBP	15.38 2/13	0.73 2/273	0,03791638
GO:1901652	response to peptide	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13	0.73 2/274	0,038075223
GO:0006979	response to oxidative stress	Any process that results in a change in state or activity of a cell or a APOA4 APOE	15.38 2/13	0.73 2/275	0,038128387
GO:0045862	positive regulation of proteolysis	Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13	0.73 2/275	0,038128387
GO:0007265	Ras protein signal transduction	A series of molecular signals within the cell that are mediated by a APOA1 APOE	15.38 2/13	0.72 2/276	0,038286961
GO:1902230	negative regulation of intrinsic apoptotic signaling path	Any process that stops, prevents or reduces the frequency, rate or CLU	7.69 1/13	4.76 1/21	0,038783126
GO:0055094	response to lipoprotein particle	Any process that results in a change in state or activity of a cell or a APOE	7.69 1/13	4.76 1/21	0,038783126
GO:1900271	regulation of long-term synaptic potentiation	Any process that modulates the frequency, rate or extent of long-ti APOE	7.69 1/13	4.55 1/22	0,03985352
GO:0048519	negative regulation of biological process	Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA4 APOE CL	1 53.85 7/13	0.15 7/4543	0,03985352
GO:0050999	regulation of nitric-oxide synthase activity	Any process that modulates the activity of the enzyme nitric-oxide APOE	7.69 1/13	4.55 1/22	0,03985352
GO:0071402	cellular response to lipoprotein particle stimulus	Any process that results in a change in state or activity of a cell (in 1 APOE	7.69 1/13	4.55 1/22	0,03985352
GO:0051788	response to misfolded protein	Any process that results in a change in state or activity of a cell or a CLU	7.69 1/13	4.55 1/22	0,03985352
GO:0032801	receptor catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	4.55 1/22	0,03985352
GO:0002021	response to dietary excess	The physiological process in which dietary excess is sensed by the c APOE	7.69 1/13	4.55 1/22	0,03985352
GO:0050900	leukocyte migration	The movement of a leukocyte within or between different tissues a GP2 LBP	15.38 2/13	0.69 2/289	0,040667112
GO:0019934	cGMP-mediated signaling	Any intracellular signal transduction in which the signal is passed o APOE	7.69 1/13	4.35 1/23	0,041319408
GO:0007616	long-term memory	The memory process that deals with the storage, retrieval and mor APOE	7.69 1/13	4.35 1/23	0,041319408
GO:0002701	negative regulation of production of molecular mediate	Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13	4.17 1/24	0,042447919
GO:0034123	positive regulation of toll-like receptor signaling pathwa	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	4.17 1/24	0,042447919
GO:1902624	positive regulation of neutrophil migration	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	4.17 1/24	0,042447919
GO:0043085	positive regulation of catalytic activity	Any process that activates or increases the activity of an enzyme. APOA1 APOA4 APOE	23.08 3/13	0.36 3/845	0,042447919
GO:0019835	cytolysis	The rupture of cell membranes and the loss of cytoplasm. LBP	7.69 1/13	4.17 1/24	0,042447919
GO:0045730	respiratory burst	A phase of elevated metabolic activity, during which oxygen consul LBP	7.69 1/13	4.17 1/24	0,042447919
GO:0044255	cellular lipid metabolic process	The chemical reactions and pathways involving lipids, as carried ou APOA1 APOA4 APOE	23.08 3/13	0.35 3/852	0,043284516
GO:0002764	immune response-regulating signaling pathway	The cascade of processes by which a signal interacts with a receptc LBP PIGR	15.38 2/13	0.66 2/303	0,043321258
GO:0090022	regulation of neutrophil chemotaxis	Any process that modulates the frequency, rate, or extent of neutr LBP	7.69 1/13	4.00 1/25	0,043381743
GO:0032770	positive regulation of monooxygenase activity	Any process that activates or increases the activity of a monooxyge APOE	7.69 1/13	4.00 1/25	0,043381743
GO:0001662	behavioral fear response	An acute behavioral change resulting from a perceived external thr APOE	7.69 1/13	4.00 1/25	0,043381743
GO:0034381	plasma lipoprotein particle clearance	The process in which a lipoprotein particle is removed from the blc APOE	7.69 1/13	4.00 1/25	0,043381743
GO:0050892	intestinal absorption	Any process in which nutrients are taken up from the contents of ti APOA1	7.69 1/13	4.00 1/25	0,043381743
GO:0042176	regulation of protein catabolic process	Any process that modulates the frequency, rate or extent of the ch APOE CLU	15.38 2/13	0.65 2/310	0,043860115
GO:0042311	vasodilation	An increase in the internal diameter of blood vessels, especially art APOE	7.69 1/13	3.85 1/26	0,043860115
GO:0050673	epithelial cell proliferation	The multiplication or reproduction of epithelial cells, resulting in th APOA1 APOE	15.38 2/13	0.65 2/308	0,043860115
GO:0044788	modulation by host of viral process	A process in which a host organism modulates the frequency, rate APOE	7.69 1/13	3.85 1/26	0,043860115
GO:0043537	negative regulation of blood vessel endothelial cell mig	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	3.85 1/26	0,043860115
GO:0048584	positive regulation of response to stimulus	Any process that activates, maintains or increases the rate of a resi APOA1 APOE CLU LBP	30.77 4/13	0.25 4/1617	0,043860115
GO:0044058	regulation of digestive system process	Any process that modulates the frequency, rate or extent of a dige: APOA1	7.69 1/13	3.85 1/26	0,043860115
GO:1902003	regulation of amyloid-beta formation	Any process that modulates the frequency, rate or extent of amylo APOE	7.69 1/13	3.85 1/26	0,043860115
GO:0002209	behavioral defense response	A behavioral response seeking to protect an organism from an a pe APOE	7.69 1/13	3.85 1/26	0,043860115
GO:0006953	acute-phase response	An acute inflammatory response that involves non-antibody protei LBP	7.69 1/13	3.85 1/26	0,043860115
GO:0097242	amyloid-beta clearance	The process in which amyloid-beta is removed from extracellular b APOE	7.69 1/13	3.85 1/26	0,043860115
GO:1902930	regulation of alcohol biosynthetic process	Any process that modulates the frequency, rate or extent of alcohc APOE	7.69 1/13	3.70 1/27	0,044858905
GO:0006631	fatty acid metabolic process	The chemical reactions and pathways involving fatty acids, aliphati APOA1 APOA4	15.38 2/13	0.63 2/316	0,044858905
GO:0009595	detection of biotic stimulus	The series of events in which a biotic stimulus, one caused or prod LBP	7.69 1/13	3.70 1/27	0,044858905
00.0005353					
GO:0003333 GO:0042744	hydrogen peroxide catabolic process	The chemical reactions and pathways resulting in the breakdown o APOA4	7.69 1/13	3.70 1/27	0,044858905
GO:0042744 GO:0001941	postsynaptic membrane organization	A process which results in the assembly, arrangement of constitue APOE	7.69 1/13	3.70 1/27	0,044858905
GO:0042744 GO:0001941 GO:0043114	postsynaptic membrane organization regulation of vascular permeability	A process which results in the assembly, arrangement of constitue APOE Any process that modulates the extent to which blood vessels can APOE	7.69 1/13 7.69 1/13		0,044858905 0,044858905
GO:0042744 GO:0001941 GO:0043114 GO:0048662	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation	A process which results in the assembly, arrangement of constituer APOE Any process that modulates the extent to which blood vessels can I APOE Any process that stops, prevents or reduces the rate or extent of sr APOE	7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28	0,044858905 0,044858905 0,046277957
GO:0042744 GO:0001941 GO:0043114	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development	A process which results in the assembly, arrangement of constitue APOE Any process that modulates the extent to which blood vessels can APOE	7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28	0,044858905 0,044858905 0,046277957 0,046277957
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0048878	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis	A process which results in the assembly, arrangement of constitue: APOE Any process that modulates the extent to which blood vessels can : APOE Any process that stops, prevents or reduces the rate or extent of sir APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0048878 GO:0043254	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that tops, prevents or reduces the rate or extent of sr APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any biological process involved in the maintenance of an internal s APOA1 APO4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0048878 GO:0043254 GO:0035025	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction	A process which results in the assembly, arrangement of constitue: APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of sa POE Any process that modulates the rate, frequency, or extent of dendi APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly	A process which results in the assembly, arrangement of constitue: APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of sir APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1902229	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in regulation of intrinsic apoptotic signaling pathway in re	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of sr APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE APOA APOA APOE Any process that activates or increases the frequency, rate or extent APOAL Alate phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955
GO:0042744 GO:0001941 GO:0048114 GO:0048662 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic appototic signaling pathway in reregulation of platelet activation	A process which results in the assembly, arrangement of constitue: APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of s APOE Any process that stops, prevents or reduces the rate or extent of s APOE Any biological process involved in the maintenance of an internals APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or exten APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the rate or frequency of platelet active APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,047334955
G0:0042744 G0:0001941 G0:0043114 G0:0048662 G0:0060998 G0:0048878 G0:0043254 G0:0035025 G0:019068 G0:1902229 G0:0010543 G0:0044057	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction wirion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of system process	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE APOE APOE Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the rate or frequency of platelet activa APOE Any process that modulates the requency, rate or extent of a systi APOA1 APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,047334955 0,04836565
G0:0042744 G0:0001941 G0:0043114 G0:0048662 G0:0060998 G0:0048254 G0:0035025 G0:0019068 G0:1902229 G0:0010543 G0:0010543 G0:004057 G0:0050795	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Protein-sontaining complex assembly virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of sr APOE Any process that stops, prevents or reduces the rate or extent of sr APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE APOA1 Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the rate or frequency of platelet active APOE Any process that modulates the frequency, rate or extent of a systix APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,04836565 0,04836565
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0043254 GO:0035025 GO:019068 GO:1902229 GO:0010543 GO:004057 GO:0050795 GO:0042596	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of system process regulation of behavior fear response	A process which results in the assembly, arrangement of constitue: APOE Any process that modulates the extent to which blood vessels can I APOE Any process that stops, prevents or reduces the rate or extent of s APOE Any process that stops, prevents or reduces the rate or extent of sa APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any biological process involved in the maintenance of an internals APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or exten APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APOA1 APOE Any process that modulates the frequency, rate or extent of a syst APOA1 APOE The response of an organism to a perceived external threat. APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 3.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:0010543 GO:0044057 GO:0050795 GO:0042599 GO:1902299	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces regulation of amyloid precursor protein catabolic proces	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of sr APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent APOAL A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of wast APOAL APOE Any process that modulates the frequency, rate or extent of spst APOAL APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of any or APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565
G0:0042744 G0:0001941 G0:0043114 G0:0048662 G0:0060998 G0:0043254 G0:0035025 G0:0019068 G0:1902229 G0:0010543 G0:0042596 G0:1902291 G0:0042596 G0:1902291 G0:0001667	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Protein-containing complex assembly positive regulation of Abo protein signal transduction virion assembly assembly assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proceameboidal-type cell migration	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of st APOE Any process that stops, prevents or reduces the rate or extent of sta APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of proteit APOE CAL Any process that activates or increases the frequency, rate or extent APOAL A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systix APOAL APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE The response of an organism to a perceived external threat. APOE Cell migration that is accomplished by extension and retraction of a APOAL APOE Cell migration that is accomplished by extension and retraction of a APOAL APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565
GO:0042744 GO:0001941 GO:0043114 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0044057 GO:004057 GO:004057 GO:004057 GO:001667 GO:0001667 GO:0001667	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proce ameboidal-type cell migration phospholipid metabolic process	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevent or reduces the rate or extent of denda APDE Any bloogical process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systic APDE Any process that modulates the frequency, rate or extent of a systic APDA1 APDE Any process that modulates the frequency, rate or extent of a systic APDA1 APDE Any process that modulates the frequency are or extent of APDA1 APDE Any process that modulates the frequency, rate or extent of APDA1 APDE Cell migration that is accomplished by extension and retraction of a PDA1 APDA1 APDA1 The chemical reactions and pathways involving phospholipids, any APDA1 APDA1 The chemical reactions and pathways involving phospholipids, any APDA1 APDA1	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/337	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0043254 GO:0019068 GO:0019068 GO:0010543 GO:004057 GO:0042596 GO:0042596 GO:0006644 GO:0006644 GO:00066928	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE APOE APOE Any process that activates or increases the frequency, rate or extent APOAL Alate phase of the virall life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of anylo APOE Cell migration that is accomplished by extension and retraction of a APOAL APOE Cell migration that is accomplished by extension and retraction of a APOAL APOE The chemical reactions and pathways involving phospholipids, any APOAL APOE GPL LBP	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/338	0,044858905 0,044858905 0,046277957 0,046277957 0,046227957 0,047334955 0,047334955 0,047334955 0,04835665 0,04835665 0,04835665 0,04835665 0,04835665 0,04835665
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0004057 GO:0050795 GO:0050795 GO:0006928 GO:0006928 GO:190002644 GO:0006928 GO:19000264	postsynaptic membrane organization regulation of vascular permeability negative regulation of swoth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of horothmuscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly assembly assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent co	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of st APOE Any process that stops, prevents or reduces the rate or extent of stop. Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of proteit APOE CAI Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systs APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of behav APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or exten APOA1	7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/338 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,04836934 0,049543195 0,049543195 0,05106943
GO:0042744 GO:0001941 GO:0043114 GO:0060998 GO:0060998 GO:0048878 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0044057 GO:0044057 GO:0044057 GO:0044057 GO:0044057 GO:0006928 GO:1902991 GO:0006644 GO:0006928 GO:1900026 GO:0006644 GO:0006928	postsynaptic membrane organization regulation of vascular permeability negative regulation of swooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent copositive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent copositive regulation of substrate adhesion-dependent copositive regulation of substrate adhesion-dependent copositive regulation of receptor-mediated endocytosis	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE APOE APOE Any process that activates or increases the frequency, rate or extent APOE APOE Any process that activates or increases the frequency, rate or extent of protei APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systic APOE Any process that modulates the frequency, rate or extent of a systic APOE Any process that modulates the frequency, rate or extent of behav APOE For exponse of an organism to a perceived external threat. APOE Any process of an organism to a perceived external threat. APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent CLU Any process that activates or increases the frequency, rate or extent CLU	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32	0,044858905 0,046277957 0,046277957 0,046277957 0,046220218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04851673 0,04869334 0,049543195
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0060998 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0004057 GO:0050795 GO:0050795 GO:0006928 GO:0006928 GO:190002644 GO:0006928 GO:19000264	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of protein-containing complex assembly positive regulation of Protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in regulation of platelet activation regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that activates or increases the frequency, rate or extent APOE Any process that activates or increases the frequency, rate or extent APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of six APOE Any process that modulates the frequency, rate or extent of six syst APOAL APOE Any process that modulates the frequency, rate or extent of swist APOE Any process that modulates the frequency, rate or extent of any APOE Any process that modulates the frequency, rate or extent of any APOE Cell migration that is accomplished by extension and retraction of aPOAL APOE Cell migration that is accomplished by extension and retraction of aPOAL APOE The directed, self-propelled movement of a cell or subcellular com aPOAL APOE GP2 LBP Any process that activates or increases the frequency, rate or extent POAL Any process that activates or increases the frequency, rate or extent POAL Any process that activates or increases the frequency, rate or extent POAL The series of events required for a bitter taste stimulus to be receip PIGR	7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/338 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,0483659 0,04836934 0,049543195 0,049543195 0,05106943
GO:0042744 GO:0001941 GO:0045114 GO:00486698 GO:0048878 GO:0045254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:004057 GO:0050795 GO:0042596 GO:1902291 GO:0006642 GO:0006642 GO:0048260 GO:0048260 GO:0048260 GO:0048260	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of protein-containing complex assembly positive regulation of Protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in regulation of platelet activation regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevent in the maintenance of an internal s APDA1 APDA4 APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systr APDA1 APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of amylo APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA The directed, self-propelled movement of a cell or subcellular com; APDA1 APDE GP2 LBP Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 APDE Any process that activates or increases the frequency, rate or extent APDA1 APDE ANY process that activates or increases the frequency, rat	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 30.77 4/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04851473 0,049543195 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:004862 GO:0060998 GO:0048254 GO:0035025 GO:0019068 GO:0010543 GO:00050795 GO:0005256 GO:0006644 GO:0006928 GO:0006646 GO:0006664 GO:0006664 GO:0006664 GO:0006664 GO:0006664 GO:0006664	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of patelet activation regulation of patelet activation regulation of system process regulation of amyloid precursor protein catabolic proces regulation of amyloid precursor protein catabolic proces meboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of system adhesion-dependent copositive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that activates or increases the frequency, rate or extent APOE Any process that activates or increases the frequency, rate or extent APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of six APOE Any process that modulates the frequency, rate or extent of six syst APOAL APOE Any process that modulates the frequency, rate or extent of swist APOE Any process that modulates the frequency, rate or extent of any APOE Any process that modulates the frequency, rate or extent of any APOE Cell migration that is accomplished by extension and retraction of aPOAL APOE Cell migration that is accomplished by extension and retraction of aPOAL APOE The directed, self-propelled movement of a cell or subcellular com aPOAL APOE GP2 LBP Any process that activates or increases the frequency, rate or extent POAL Any process that activates or increases the frequency, rate or extent POAL Any process that activates or increases the frequency, rate or extent POAL The series of events required for a bitter taste stimulus to be receip PIGR	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 30.77 4/13 7.69 1/13 15.38 2/13 30.77 4/13 7.69 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836567 0,04856934 0,049543195 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:0060998 GO:0060998 GO:0048578 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0044057 GO:0044057 GO:0042596 GO:1902991 GO:0001667 GO:0006928 GO:1900906644 GO:0006928 GO:0001803 GO:0001803 GO:0010803 GO:0010803	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of response regulation of response dendocytosis detection of chemical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that tops, prevents or reduces the rate or extent of si APOE Any process that tops, prevents or reduces the rate or extent of si APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of sixty APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IRG Any process that modulates the rate or extent of the tumor necros APOA1 Any process that stoys, prevents, or reduces the frequency, rate or APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 23.08 3/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 3.35 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04835665 0,04836565 0,04836565 0,04836565 0,04851673 0,048669334 0,049543195 0,052031715 0,052031715 0,052031715
GO:0042744 GO:001941 GO:0043114 GO:0048162 GO:0060998 GO:0048878 GO:0035025 GO:0019068 GO:1900229 GO:0010543 GO:004057 GO:0050795 GO:0042596 GO:1900294 GO:0006644 GO:0006644 GO:0006928 GO:1900026 GO:0048260 GO:00048260 GO:0001580 GO:0001580 GO:0001580	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of protein-containing complex assembly positive regulation of Protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in regulation of platelet activation regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of treceptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that activates or increases the frequency, rate or extent APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of six APOE Any process that modulates the frequency, rate or extent of a syst APOE Any process that modulates the frequency, rate or extent of a syst APOE Any process that modulates the frequency, rate or extent of a syst APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of anylo APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The directed, self-propelled movement of a cell or subcellular com APOA1 APOE The directed, self-propelled movement of a cell or subcellular com APOA1 APOE Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that modulates the rate or extent of the tumor necros APOA1 Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 23.08 3/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 0.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04851473 0,048669334 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:0043114 GO:004862 GO:0060998 GO:0048254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:004057 GO:0050795 GO:0042596 GO:0042596 GO:0006644 GO:0006928 GO:0006644 GO:0006928 GO:0048260 GO:00015803 GO:00010803 GO:0031425 GO:0304205 GO:034205	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of system process regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proce ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent ce positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that tops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that modulates the rate, frequency, or extent of denda APDE Any biological process involved in the maintenance of an internals APDGA APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDGA1 Alate phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of soystic APDE Any process that modulates the frequency, rate or extent of saystic APDGA1 APDE Any process that modulates the frequency, rate or extent of saystic APDGA1 APDE Any process that modulates the frequency, rate or extent of saystic APDGA1 APDE Cell migration that is accomplished by extension and retraction of a APDGA1 APDGA1 The demical reactions and pathways involving phospholipids, any APDGA1 APDGA1 APDGA1 Any process that activates or increases the frequency, rate or exter APDGA1 Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that opposition of the demonstration of the tumor necros APDGA1 Any process that stops, prevents, or reduces the frequency, rate or exter CLU Th	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:001941 GO:0043114 GO:0048662 GO:006998 GO:0048254 GO:0035025 GO:0019068 GO:0035025 GO:0010543 GO:0050795 GO:0042596 GO:0005674 GO:000667 GO:000667 GO:000667 GO:000667 GO:0006928 GO:1900026 GO:0001580 GO:001580 GO:001580 GO:0001580	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent copositive regulation of record-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of them corrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of six APDE Any process that stops, prevents or reduces the rate or extent of six APDE Any process that modulates the rate, frequency, or extent of dendix APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of behav APDE Any process that modulates the frequency, rate or extent of behav APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of amylo APDE Cell migration that is accomplished by extension and retraction of aPDA1 APDE Cell migration that is accomplished by extension and retraction of aPDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA4 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDE Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IPGR Any process that stobays prevents, or reduces the frequency, rate or are or CPUE The generation of amyloid-beta by cleavage of the amyloid precurs APDE The generation of amyloid-beta by cleavage of the amyloid precurs APDE The chemical reactions and pathways resulting in the breakdown o APDA1 APDA4 APDR DE The chemical teactions in the process that of the tumor necros APDA1 APDR DE The chemical teactions and pathways resulting in the breakdown o APDA1 APDA4 APDR DE The demical teactions and	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04851673 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:004862 GO:0060998 GO:0048878 GO:0035025 GO:0019068 GO:0010543 GO:00405795 GO:00405795 GO:00405796 GO:0006928 GO:0006928 GO:0006928 GO:00006928 GO:00006928 GO:00006928 GO:00006928 GO:00006928 GO:00006928 GO:00006928 GO:00048260 GO:0001580	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of patelet activation regulation of system process regulation of amyloid precursor protein catabolic proces regulation of amyloid precursor protein catabolic proces movement of cell or subcellular component positive regulation of system process movement of cell or subcellular component positive regulation of subtrate adhesion-dependent copositive regulation of teceptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of ordenostasis negative regulation of ordenostasis negative regulation of ordenostasis negative regulation of ordenostasis	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevent in the maintenance of an internal s APDA1 APDA4 APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of amylo APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE GP2 LBP Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that though a by cleavage of the tumor necros APDA1 Any process that though a process that the process that activates or increases the frequency, rate or exter APDA1 Any process that though a process that stops, prevents, or reduces the frequency, rate or APDE The demical reactions and pathways resulting in the breakdown on APDA1 APDA4 APDE CL Any process that stops, prevents, or reduces the frequency, rate or APDE Any process that stops, prev	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 15.38 2/13 15.3	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 3.33 1/30 3.33 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 2.24 1/1742 2.94 1/34	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836567 0,048669334 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:004862 GO:0060998 GO:0048878 GO:003525 GO:0019068 GO:1902229 GO:0010543 GO:004057 GO:0050795 GO:0042596 GO:1902991 GO:000624 GO:0006928 GO:0006928 GO:00048260 GO:0001580 GO:0001803 GO:003405 GO:0034205 GO:1900047 GO:000137	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of system process regulation of patielet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent ce positive regulation of substrate adhesion-dependent ce regulation of tumor necrosis factor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent of Portei APOE APOE Any process that activates or increases the frequency, rate or extent of Portei Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APOA1 APOE Any process that modulates the frequency, rate or extent of a syst APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Enterpense of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOB The demical reactions and pathways involving phospholipids, any APOA1 APOB GP2 LBP Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive PIGR Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be received. Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be received. Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be received. Any process that stops, prevents, or reduces the frequency and process that stops. Prevents or reduces t	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.34 1/34 2.94 1/34 2.94 1/34	0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:0060998 GO:0048878 GO:0035025 GO:0019068 GO:1900229 GO:0010543 GO:00360795 GO:004057 GO:0050795 GO:004057 GO:0050795 GO:0040596 GO:1900291 GO:000667 GO:000667 GO:000667 GO:000667 GO:000667 GO:0001580 GO:0001580 GO:0001580 GO:0001580 GO:0001580 GO:0001580 GO:0001580 GO:0001580 GO:0001991 GO:0001991 GO:0001991 GO:0001991 GO:0001991 GO:0001991 GO:0001997	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent constitive regulation of remore mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of signaling pathway negative regulation of signaling pathway negative regulation of signal transduction	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of dendix APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent of protei APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of spats APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of apost APOA1 APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IPIGR Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IPIGR Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The generation	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04835665 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836669334 0,085669334 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,05203173 0,0530393937 0,053093937 0,053093937 0,053093937
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:0060998 GO:0048254 GO:0035025 GO:0010563 GO:0010543 GO:004057 GO:0050795 GO:0042596 GO:1902299 GO:0006644 GO:0006644 GO:0006928 GO:0001580 GO:0001580 GO:0010803 GO:0001580 GO:00001580 GO:0001580 GO:00001580 GO:0001580 GO:00001580 GO:0001580	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of system process regulation of behavior fear response regulation of system process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of response-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per organic substance catabolic process negative regulation of ordothelial cell proliferation toll-like receptor 4 signaling pathway negative regulation of signal transduction regulation of neutrophil migration regulation of monooxygenase activity	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any brocess that stops, prevent of the maintenance of an internal s APDA1 APDA4 APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent of protei APDE CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of saysts APDA1 APDE Any process that modulates the frequency, rate or extent of a systs APDA1 APDE Any process that modulates the frequency, rate or extent of a systs APDA1 APDE Any process that modulates the frequency, rate or extent of a hope and application that is accomplished by extension and retraction of a APDA1 APDE Clell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA4 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA6 The directed self-propelled movement of a cell or subcellular com, APDA1 APDA6 The series of events required for a bitter taste stimulus to be receip IPGR Any process that activates or increases the frequency, rate or extent APDA1 Any process that stops, prevents by cleavage of the amyloid precurs APDA6 Any process that stops, prevents or reduces the frequency, rate or APDA1 APDA6 APDA6 APDE The chemical reactions and pathways resulting in the breakdown on APDA1 APDA6 APDE The chemical reactions and pathways resulting in the breakdown of APDA1 APDA6 APDE The chemical reactions and pathways resulting in the breakdown of APDA1 APDA6 APDE The chemica	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13 15.38 2/13 15.38	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33	0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046270218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:006998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:0050795 GO:0042596 GO:0050795 GO:0042596 GO:0005674 GO:0006674 GO:0006674 GO:0006928 GO:0001580 GO:001580 GO:001580 GO:001580 GO:001580 GO:001580 GO:0016803 GO:0016803 GO:0034205 GO:003405 GO:003405 GO:003405 GO:003405 GO:003405 GO:003405 GO:003405 GO	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of system process regulation of behavior fear response regulation of system process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of response-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per organic substance catabolic process negative regulation of ordothelial cell proliferation toll-like receptor 4 signaling pathway negative regulation of signal transduction regulation of neutrophil migration regulation of monooxygenase activity	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that tops, prevents or reduces the rate or extent of si APOE Any process that tops, prevents or reduces the rate or extent of si APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE CLI Any process that modulates the frequency, rate or extent of protei APOE CLI Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of spats the APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of anylo APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOB The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB GP2 LBP Any process that activates or increases the frequency, rate or extent CLI The series of events required for a bitter taste stimulus to be receip IRA Any process that activates or increases the frequency, rate or extent CLI The series of events required for a bitter taste stimulus to be receip IRA Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The generation and pathways resulting in the breakdown or APOA1 APOB APOE Any process that stops, prevents, or reduces the frequency, rate or aPOE Any process that stops, prevents, or reduce	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/31 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.96 1/35	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04835665 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,048366934 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052
GO:0042744 GO:001941 GO:0043114 GO:0048562 GO:006998 GO:0048878 GO:0035025 GO:0019068 GO:190229 GO:0010543 GO:004057 GO:0050795 GO:0050795 GO:0006647 GO:0006647 GO:0006648 GO:0006828 GO:190026 GO:0001580 GO:0001580 GO:0001580 GO:00034126 GO:0034146 GO:00034146 GO:00034146 GO:00034146 GO:00034166 GO:0034166 GO:0034166 GO:0034166 GO:0034166 GO:0034166	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of fintrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent consitive regulation of substrate adhesion-dependent consitive regulation of substrate adhesion-dependent or chemical stimulus involved in sensory per regulation of chemical stimulus involved in sensory per regulation of them corrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of neutrophil migration regulation of monooxygenase activity positive regulation of pattern recognition receptor sign	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systi APDA1 APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of amylo APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The series of events required for a bitter taste stimulus to be receive PIGR Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that stops, prevents, or reduces the frequency, rate or APDE The generation of amyloid-beta by cleavage of the amyloid precurs APDE The generation of amyloid-beta by cleavage of the amyloid precurs APDE The generation of amyloid-beta by cleavage of the amyloid precurs APDE Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CL Any process that stops, prevents, or reduces the requency, rate or aPDA1 APDA4 APDE CL Any process that	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 3.33 1/30 3.31 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.32 1/32 3.33 1/30 3.32 1/32 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.34 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.96 1/35 2.86 1/35 2.86 1/35	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712 0,052031712
GO:0042744 GO:0001941 GO:0043114 GO:0043114 GO:004862 GO:0060998 GO:0048254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0050795 GO:004256 GO:1902991 GO:0046260 GO:0010803	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of histories apoptotic signaling pathway in reregulation of system process regulation of patelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cell positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of hemostasis negative regulation of meutrophil migration regulation of neutrophil migration regulation of meutrophil migration regulation of monoxygenase activity positive regulation of monoxygenase activition of mercophage activation	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of sn APOE Any process that stops, prevents or reduces the rate or extent of sn APOE Any process that modulates the rate, frequency, or extent of denda APOE Any process that modulates the frequency, rate or extent of protei APOE ALO Any process that modulates the frequency, rate or extent of protei APOE ALO Any process that activates or increases the frequency, rate or extent APOA1 Ala tel phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systic APOE Any process that modulates the frequency, rate or extent of says APOE Any process that modulates the frequency, rate or extent of behav APOE Cell migration that is accomplished by extension and retraction of aPOEA1 APOE Cell migration that is accomplished by extension and retraction of aPOEA1 APOEA1 Any process that activates or increases the frequency, rate or extent APOA1 Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that activates or increases the frequency, rate or extent OPOA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOEA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOEA1 Any process that stops, prevents, or reduces the frequency or or extent of the APOE Any process that	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.50 2/337 0.50 2/337 0.50 2/337 3.03 1/33 3.03 1/32 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.96 1/35 2.86 1/35 2.86 1/35 2.86 1/35	0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0
GO:0042744 GO:001941 GO:0043114 GO:0048162 GO:006998 GO:0048254 GO:0035025 GO:0019068 GO:0035025 GO:0019068 GO:0048254 GO:0005795 GO:005795 GO:005795 GO:005624 GO:0006624 GO:000564 GO:000564 GO:000564 GO:000564 GO:000564 GO:0005667 GO:0005667 GO:0005667 GO:0005667 GO:0005667 GO:0005667 GO:0005667 GO:0005667 GO:0005667 GO:00048260 GO:00048260 GO:0018803 GO:00018803 GO:00048266 GO:0018803 GO:00048266 GO:0009968 GO:0009968 GO:0009968 GO:00022768 GO:0062208 GO:00042030 GO:0042030	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of records factor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themoreneous factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of signal transduction regulation of neonooxygenase activity positive regulation of pattern recognition receptor sign regulation of monooxygenase activity positive regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of coagulation	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that tops, prevents or reduces the rate or extent of six APOE Any process that tops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of proteix APOE CLI Any process that includates the frequency, rate or extent of proteix APOE CLI Any process that activates or increases the frequency, rate or extent APOAL Alate phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of behav APOE Enterpoise of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of behav APOE Cell migration that is accomplished by extension and retraction of aPOAL APOE Cell migration that is accomplished by extension and retraction of aPOAL APOE The chemical reactions and pathways involving phospholipids, any APOAL APOAA The directed, self-propelled movement of a cell or subcellular com, APOAL APOE The series of events required for a bitter taste stimulus to be receive IPIGR Any process that activates or increases the frequency, rate or extent CLI The series of events required for a bitter taste stimulus to be receive IPIGR Any process that other so increases the frequency, rate or APOAL APOE GP2 LBP Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The chemical reactions and pathways resulting in the breakdown o APOAL APOA APOE CLI Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, prevents, o	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 3/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.96 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35	0,044858905 0,046277957 0,046277957 0,046270957 0,046920218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,049543195 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031712 0,052011214 0,054011214 0,054011214 0,054011214 0,055283676
GO:0042744 GO:001941 GO:0043114 GO:0043114 GO:004862 GO:0060998 GO:0048278 GO:0035025 GO:0019068 GO:19002229 GO:00405795 GO:00405795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:00405796 GO:0006928 GO:0006928 GO:0006928 GO:0006928 GO:0006928 GO:00048260 GO:0001580 GO:0010803 GO:003195 GO:0034125 GO:0034125 GO:0034126 GO:0034126 GO:0032768 GO:1902622 GO:0032768 GO:0032768 GO:0032768 GO:0050819 GO:0050819 GO:0050819	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of system process regulation of amyloid precursor protein catabolic proces regulation of amyloid precursor protein catabolic proces meboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cell positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of signal transduction regulation of neutrophil migration regulation of neutrophil migration regulation of monoxygenase activity positive regulation of monoxygenase activity positive regulation of macrophage activation negative regulation of parephage activation negative regulation of macrophage activation negative regulation of memostasis	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevent or the war and any bloogical process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systic APDA1 APDE Any process that modulates the frequency, rate or extent of a systic APDA1 APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of amylo APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA The directed, self-propelled movement of a cell or subcellular com APDA1 APDE GP2 LBP Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or extent APDA1 Any process that totops, prevents, or reduces the frequency, rate or APDA1 APDA1 Any process that stops, prevents or reduces the frequency, rate or APDA1 APDA2 The elmical reactions and pathways resulting in the breakdown o APDA1 APDA4 APDE The chemical reactions and pathways resulting in the breakdown or APDA1 APDA4 APDE The chemical reactions and pathways resulting in the breakdown or APDA1 APDA4 APDE CLA Any pro	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 23.08 3/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046270317 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,04836563 0,04865934 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031714 0,05401214 0,05401214 0,05401214 0,05401214 0,05401214 0,05401214 0,055283676
G0:0042744 G0:0001941 G0:0043114 G0:0048662 G0:006998 G0:0048878 G0:0043254 G0:0035025 G0:00105048 G0:00405795 G0:0042596 G0:00050795 G0:0042596 G0:0005667 G0:0006644 G0:0006648 G0:0006648 G0:0001580 G0:000580 G0:000580 G0:000580 G0:000580 G0:000580	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of historias apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of behavior phospholipid metabolic process movement of cell or subcellular component phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of themical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of hemostasis norganic substance catabolic process negative regulation of hemostasis negative regulation of peatron process negative regulation of menotrophil migration regulation of meutrophil migration regulation of meutrophil migration regulation of meautrophil migration regulation of macrophage activation negative regulation of to describation sensory perception of bitter taste membrane protein ectodomain proteolysis	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can IAPOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE APOE Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process and modulates the frequency, rate or extent of anylo APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOB The demical reactions and pathways involving phospholipids, any APOA1 APOB GP2 LBP Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive IRG Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IRG Any process that activates or increases the frequency, rate or extent OA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 Any process that stops, prevents or reduces the frequency, rate or APOA1 APOA4 APOA4 APOE CL Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA9 APOA6 ECL Any process th	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/31 3.03 1/33 3.03 1/34 3.03	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1900229 GO:0010543 GO:004057 GO:0050795 GO:0042596 GO:1900229 GO:001667 GO:0006644 GO:0006644 GO:0006928 GO:1900026 GO:001580 GO:0001580 GO:00030195 GO:0030195 GO:000509968 GO:00050913 GO:00050913	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of pitaletel activation regulation of phatelet activation regulation of shealwid fear response regulation of shealwid fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of meutrophil migration regulation froeutrophil migration regulation of monoxygenase activity positive regulation of pattern recognition receptor sign regulation of monoxygenase activity positive regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activati	A process that modulates the extent to which blood vessels can APOE Any process that tops, prevents or reduces the rate or extent of sr APOE Any process that stops, prevents or reduces the rate or extent of sr APOE Any process that stops, prevents or reduces the rate or extent of sr APOE Any process that tops, prevents or reduces the rate or extent of denda APOE Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APOA1 APOE Any process that modulates the frequency, rate or extent of a syst APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent APOA1 APOE GP2 LBP Any process that activates or increases the frequency, rate or extent APOA1 APOE GP2 LBP Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE ANY process that stops, prevents, or reduces the req	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.32 1/30 3.32 1/30 3.33 1/30 3.32 1/30 3.32 1/32 3.33 1/30 3.33 1/30 3.31 1/30 3.32 1/32 3.33 1/30 3.31 1/33 3.33 1/33 3.33 1/33 3.33 1/33 3.34 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.95 1/35 2.86 1/35	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836567 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052031716 0,052
GO:0042744 GO:0001941 GO:0043114 GO:0043114 GO:004862 GO:0060998 GO:00482878 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:00050795 GO:0050818 GO:00050818 GO:00050818 GO:00050818 GO:00050818 GO:00050818 GO:00050818 GO:00050818 GO:00050818 GO:00050818 GO:0050818 GO:0050819 GO:0050819 GO:00050913 GO:0050913 GO:0050913	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of pitaletel activation regulation of phatelet activation regulation of shealwid fear response regulation of shealwid fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of meutrophil migration regulation froeutrophil migration regulation of monoxygenase activity positive regulation of pattern recognition receptor sign regulation of monoxygenase activity positive regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of pattern recognition receptor sign regulation of macrophage activati	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 Alate phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of saystic APDA1 APDE Any process that modulates the frequency, rate or extent of saystic APDA1 APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of amylo APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA4 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA6 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA6 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA6 The demical reactions and pathways involving phospholipids, any APDA1 APDA6 The demical reactions and pathways involving phospholipids, any APDA1 APDA6 The demical reactions and pathways involving phospholipids, any APDA1 APDA6 The demical reactions and pathways involving phospholipids, any APDA1 APDA6 The generation of amyloid-beta by cleavage of the amyloid precurs APDA1 Any process	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 2.24 1/1742 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.96 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.78 1/36 2.70 1/37 0.53 2/378 0.72 1/370	0,044858905 0,044875905 0,046277957 0,046277957 0,046277957 0,04627057 0,04627057 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,05203171
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:006998 GO:0048254 GO:00035025 GO:0019068 GO:0035025 GO:00105043 GO:00050795 GO:0050795 GO:0005046 GO:0050918	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent oc positive regulation of substrate adhesion-dependent oc positive regulation of record-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per organic substance catabolic process negative regulation of of endothelial cell proliferation toll-like receptor 4 signaling pathway negative regulation of signal transduction regulation of monooxygenase activity positive regulation of pattern recognition receptor sign regulation of macrophage activation negative regulation of bitler taste membrane protein ectodomain proteolysis small GIPase mediated signal transduction cellular catabolic process	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that tops, prevents or reduces the rate or extent of six APOE Any process that tops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of proteix APOE ALAPOA4 APOE Any process that modulates the frequency, rate or extent of proteix APOE CLU Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of six syst APOA1 APOE Any process that modulates the frequency, rate or extent of spath APOE Any process that modulates the frequency, rate or extent of spath APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of anylo APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE Gell process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IPGA Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receive IPGA Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The peneration and pathways resulting in the breakdown or APOA1 APOE CL Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that modulates the rate, frequency	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/31 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/32 2.94 1/34 2.94 1/34 2.95 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.78 1/36 2.78 1/36 2.78 1/36 2.79 1/37 0.53 2/378 0.53 2/378 0.53 2/378 0.53 2/378 0.53 2/378 0.53 2/378 0.53 2/378	0,044858905 0,044858905 0,046277957 0,046277957 0,04692018 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,048366934 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0520
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:004057 GO:0050795 GO:004057 GO:0050795 GO:00508167 GO:0050818 GO:0032768 GO:0050913 GO:0050913 GO:0050913 GO:0050913 GO:0050913 GO:0007264 GO:004248 GO:0007264 GO:004248	postsynaptic membrane organization regulation of vascular permeability regulation of vascular permeability regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of system process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cell positive regulation of tell process in the positive regulation of substrate adhesion-dependent cell positive regulation of temporary per regulation of temporary per regulation of temporary per regulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of memostasis negative regulation of neutrophil migration regulation of memostasis negative regulation of neutrophil migration negative regulation of neutrophil m	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevent or the warm of the any brocess that modulates the rate, frequency, or extent of denda APDE Any brocess that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA2 The directed, self-propelled movement of a cell or subcellular com APDA1 APDA3 Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receib PIGR Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receib PIGR Any process that activates or increases the frequency, rate or APDA1 APDA2 APDA3 Approcess that tops, prevents, or reduces the frequency, rate or APDA1 APDA3 APDA4 APDA4 APDE CLA Approcess that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDA4 APDE CLA Approcess that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDA5 Approcess that modulates the frequency, rate or extent of A	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 0.23 4/1707 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.95 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.87 1/36 2.70 1/37 0.52 2/378 0.22 4/1814 2.94 1/34	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,04627031 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836533 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,05
GO:0042744 GO:0001941 GO:0043114 GO:0048612 GO:006998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:0050795 GO:0042596 GO:0050795 GO:0042596 GO:0050816 GO:0050816 GO:0050816 GO:0050816 GO:0050816 GO:0050816 GO:0050819 GO:0050819 GO:0005091 GO:0005091 GO:0050819 GO:0050819 GO:0005091 GO:0005091 GO:0050819 GO:0050819 GO:0050819 GO:0005091	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of historiac activation signal transduction virion assembly regulation of platelet activation regulation of system process regulation of behavior fear response regulation of system process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cerpositive regulation of substrate adhesion-dependent cerpositive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation for tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of pattern recognition receptor sign regulation of meutrophil migration regulation of meutrophil migration regulation of meautrophil migration regulation of macrophage activation negative regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process detection of chemical stimulus involved in sensory perception of better taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process detection of chemical stimulus involved in sensory perception of bitter taste	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood exsels can IAPOE Any process that stops, prevents or reduces the rate or extent of sin APOE Any process that stops, prevents or reduces the rate or extent of sin APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that modulates the frequency, rate or extent of protei APOE AND Ala tale phase of the virall life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of since APOE Any process that modulates the frequency, rate or extent of saysit APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of saysit APOA1 APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB GP2 LBP Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive PIGR Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive PIGR Any process that activates or increases the frequency, rate or extent ORA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA4 APOE CL Any process that stops, prevents, or reduces the frequency or actent of a APOE Any proces	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13	3.70 1/27 3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.51 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.50 2/335 3.33 1/30 0.50 2/335 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0,055031715 0
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:006998 GO:0048878 GO:0035025 GO:0019068 GO:1900229 GO:0010543 GO:0050795 GO:004057 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0045596 GO:190026 GO:0001580 GO:00050912 GO:0004226 GO:00050912 GO:0004226 GO:0004228 GO:00050912 GO:0004228 GO:00050912 GO:0004228 GO:00050912 GO:0004228 GO:000428	postsynaptic membrane organization regulation of vascular permeability negative regulation of shoot muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in re regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of record-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themore necrosis factor-mediated signaling negative regulation of brodoco acquilation amyloid-beta formation organic substance catabolic process negative regulation of endothelial cell proliferation toll-like receptor 4 signaling pathway negative regulation of pattern recognition receptors ign regulation of monooxygenase activity positive regulation of pattern recognition receptor sign regulation of monooxygenase activity positive regulation of bottler taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cellular process heterotypic cell-cell adhesion negative regulation of or cellular process heterotypic cell-cell adhesion negative regulation of protein secretion	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood exsels can APOE Any process that tops, prevents or reduces the rate or extent of six APOE Any process that tops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of proteix APOE CLI Any process that modulates the frequency, rate or extent of proteix APOE Any process that activates or increases the frequency, rate or extent APOAL Alate phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of a APOAI APOE The chemical reactions and pathways involving phospholipids, any APOAI APOE Cell migration that is accomplished by extension and retraction of a APOAI APOE The chemical reactions and pathways involving phospholipids, any APOAI APOE Any process that activates or increases the frequency, rate or exter CLI The series of events required for a bitter taste stimulus to be receive PIGR Any process that activates or increases the frequency, rate or extent CLI The series of events required for a bitter taste stimulus to be receive PIGR Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The peneration of amyloid-beta by cleavage of the amyloid precurs APOE The chemical reactions and pathways resulting in the breakdown on APOAI APOA4 APOE CLI Any process that stops, prevents, or reduces the	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.99 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 2.24 1/174 2.94 1/34 2.94 1/34 2.96 1/35 2.86 1/36 2.86 1/36	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836693 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0530393937 0,053093937 0,053093937 0,053093937 0,053093937 0,057824709 0,057824709 0,057824709 0,057824709 0,057824709 0,057824709 0,057824709 0,057824709 0,057824709 0,05853875 0,059026748
GO:0042744 GO:0001941 GO:0043114 GO:0043114 GO:004862 GO:0048253 GO:0048253 GO:0019068 GO:0010543 GO:0010803	postsynaptic membrane organization regulation of vascular permeability regulation of vascular permeability regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of signal transduction regulation of neutrophil migration regulation of monoxygenase activity positive regulation of formation organic substance catabolic process negative regulation of receptor-signal pathway negative regulation of path receptor-signal p	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of systix APDA1 APDE Any process that modulates the frequency, rate or extent of saystix APDA1 APDE Any process that modulates the frequency, rate or extent of behav APDE The response of an organism to a perceived external threat. APDE Any process that modulates the frequency, rate or extent of anylo APDE Cell migration that is accomplished by extension and retraction of raPDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA2 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA3 Any process that activates or increases the frequency, rate or extent APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that modulates the rate or extent of the tumor necros APDA1 Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA3 Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE The chemical reactions and pathways resulting in the breakdown on APDA1 APDA4 APDE CLA Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CLA Any process that stops, prevents, or reduces the frequenc	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.51 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.50 2/335 3.33 1/30 0.50 2/335 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,04627031 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:006998 GO:0048254 GO:00035025 GO:0019068 GO:0035025 GO:00105043 GO:00050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0006248 GO:0006208 GO:00050918 GO:00050918 GO:00050918 GO:00050918 GO:00050918 GO:00050918 GO:00050918 GO:00050918 GO:00050918 GO:0050913 GO:0050915 GO:0050916 GO:0050915 GO:0050915 GO:0050916 GO:0050916 GO:0050916 GO:0050916 GO:0050916 GO:0050916 GO:0050916 GO:005095 GO:0051055 GO:0051065	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or spotitive regulation of substrate adhesion-dependent or regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per cegulation of themical stimulus involved in sensory per cegulation of themical stimulus involved in sensory per cegulation of memostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of pattern recognition regulation of meutrophil migration regulation of meutrophil migration regulation of meutrophil migration regulation of meautrophil migration regulation of macrophage activation negative regulation of to dealular process heterotypic cell-cell adhesion negative regulation of cellular process detection of chemical stimulus involved in sensory per negative regulation of protein secretion negative regulation of protein secretion negative regulation of cellular process heterotypic cell-cell adhesion negative regulation of cellular process negative regulation of cell communication negative regulation of cellular catabolic process negative regulation of cell communication	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE CLI Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOB The chemical reactions and pathways involving phospholipids, any APOA1 APOB The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB Any process that activates or increases the frequency, rate or exter CLI The series of events required for a bitter taste stimulus to be receive plica Any process that attivates or increases the frequency, rate or extent ORA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA4 APOA4 APOB CLI Any process that sto	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/32 3.31 1/32 3.31 1/32 3.31 1/32 3.31 1/33 3.31 1/33 3.32 1/34 1/34 2.94 1/34 2.94 1/34 2.86 1/35 2.86 1	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,047334955 0,04835665 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:006998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1900229 GO:0010543 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:00050795 GO:000664 GO:000664 GO:000664 GO:000664 GO:000667 GO:00067 GO:000667	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of system process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substemprocess movement of cell or subcellular component positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of signal transduction regulation of neutrophil migration regulation of neutrophil migration regulation of neutrophil migration regulation of monoxygenase activity positive regulation of pagnate recognition receptor sign regulation of macrophage activation negative regulation of pagnate recognition receptor sign regulation of macrophage activation negative regulation of cellular process detection of chemical stimulus involved in sensory per negative regulation of cellular process heterotypic cell-cell adhesion negative regulation of cellular process heterotypic cell-cell adhesion negative regulation of cellular process negative regulation of cell communication amyloid-beta metabolic process negative regulation of cell communication amyloid-beta metabolic process	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevent or the warrange of an internal s APDA1 APDA4 APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent of protei APDE CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of application and application application and application application and application application and applic	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.99 1/13 15.99 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 2.24 1/1742 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,04627031 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04851473 0,04866934 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0048878 GO:0043254 GO:0035025 GO:0015068 GO:0035025 GO:0015068 GO:003607 GO:0050795 GO:0042596 GO:0050795 GO:0042596 GO:0050795 GO:0042596 GO:0006248 GO:0034205 GO:0034205 GO:003405 GO:003	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of historiac activation regulation of patelet activation regulation of system process regulation of behavior fear response regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cerpositive regulation of substrate adhesion-dependent cerpositive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation for tumor necrosis factor-mediated signaling negative regulation of hemostasis negative regulation of pattern recognition receptor sign regulation of meutrophil migration regulation of meutrophil migration regulation of meutrophil migration regulation of meutrophil migration regulation of monoxygenase activity positive regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process detection of chemical stimulus involved in sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction negative regulation of figlio bisynthetic process heterotypic cell-cell adhesion negative regulation of figlio bisynthetic process negative regulation of cell communication amyloid-beta metabolic process negative regulation of cell communication amyloid-beta metabolic process negative regulation of cell communication amyloid-beta metabolic process negative	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood vessels can APOE Any process that stops, prevents or reduces the rate or extent of sn APOE Any process that stops, prevents or reduces the rate or extent of sn APOE Any process that stops, prevents or reduces the rate or extent of denda APOE Any biological process involved in the maintenance of an internals a APOA1 APOA4 APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of saystic APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of saystic APOA1 APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOA4 Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive PiGR Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA9 APOE CL Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA9 APOE CL Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA9 APOE CLU Any process that modulates the frequency,	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.99 1/13 15.99 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.67 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/32 3.31 1/32 3.31 1/32 3.31 1/33 3.31	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:006998 GO:0048878 GO:0035025 GO:0019068 GO:0035025 GO:00105086 GO:00050795 GO:0004057 GO:0005045	postsynaptic membrane organization regulation of vascular permeability negative regulation of shooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent or positive regulation of substrate adhesion-dependent or positive regulation of record-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of them as simulus involved in sensory per regulation of them as the process negative regulation of platelet active more considered as a considerable process negative regulation of modot coagulation amyloid-beta formation organic substance catabolic process negative regulation of signal transduction regulation of monoxygenase activity positive regulation of pattern recognition receptor signification of monoxygenase activity positive regulation of pattern recognition receptor signification of monoxygenase activation negative regulation of bitlet taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process detection of chemical stimulus involved in sensory per negative regulation of reclival process heterotypic cell-cell adhesion negative regulation of signal ing cellular response to organic substance	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood exsels can APOE Any process that tops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of sayst APOA1 APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of samylo APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receip PIGR Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, prevents, or redu	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/30 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/32 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.95 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86	0,044858905 0,044858905 0,046277957 0,046277957 0,046920218 0,047334955 0,047334955 0,047334955 0,04835665 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,048366934 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052
GO:0042744 GO:0001941 GO:0043114 GO:0048162 GO:006998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:00405795 GO:0050795 GO:0040579 GO:0050795 GO:0042596 GO:00042596 GO:00042596 GO:00042596 GO:00042596 GO:00042596 GO:00042596 GO:0005091 GO:005091 GO:0005091 GO:0005091 GO:0005091 GO:0005091 GO:0005091 GO:0005091	postsynaptic membrane organization regulation of vascular permeability regulation of vascular permeability regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of patelet activation regulation of system process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of subcellular component positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor nercosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of signal transduction regulation of motovygenase activity positive regulation of formation organic substance catabolic process negative regulation of receptor 4 signaling pathway negative regulation of motovygenase activity positive regulation of neutrophil migration regulation of motovygenase activity positive regulation of formation organic substance catabolic process negative regulation of recordinary receptor of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cell communication amyloid-beta metabolic process negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of organic substance alcohol catabolic process negative regulation of organic substance alcohol catabolic process	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of systix APDA1 APDE Any process that modulates the frequency, rate or extent of saysts APDA1 APDE Any process that modulates the frequency, rate or extent of saysts APDA1 APDE Any process that modulates the frequency, rate or extent of a systix APDA1 APDE CEll migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA2 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA3 Any process that activates or increases the frequency, rate or extent CLU The series of events required for a bitter taste stimulus to be receip IRGA Any process that modulates the rate or extent of the tumor necros APDA1 Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA2 Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA3 Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDA4 APDA5 The generation of amyloid-beta by cleavage of the amyloid precurs APDE The chemical reactions and pathways resulting in the breakdown o APDA1 APDA4 APDA4 APDA5 APDA5 The process that stops, prevents, or reduces the frequency, rate or APDA4 APDA6 APDA6 APDA7 Approcess tha	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.67 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0048878 GO:0048254 GO:0035025 GO:00150543 GO:0050795 GO:0050795 GO:0042596 GO:0042596 GO:00050643 GO:0005043 GO:0005093	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of frotein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substential administration phospholipid metabolic process movement of cell or subcellular component positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of memostasis negative regulation of memostasis negative regulation of memostasis negative regulation of patholical cell proliferation toll-like receptor 4 signaling pathway negative regulation of memosygenase activity positive regulation of memosygenase activity positive regulation of patholical process negative regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cell communication amyloid-beta metabolic process negative regulation of of endothelial cell migration hydrogen peroxide metabolic process negative regulation of of nedothelial cell migration hydrogen peroxide metabolic process	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood exsels can APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that stops, prevents or reduces the rate or extent of six APOE Any process that modulates the rate, frequency, or extent of dendix APOE Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that modulates the frequency, rate or extent of protei APOE ALA Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the virall life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE Any process that activates or increases the frequency, rate or extent APOA1 APOA4 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB Cell migration that is activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive PIGR Any process that activates or increases the frequency, rate or extent ORA1 Any process that stops, prevents, or reduces the frequency, rate or APOE The generation of amyloid-beta by cleavage of the amyloid precurs APOE The chemical reactions and pathways resulting in the breakdown or APOA1 APOA4 APOE CL Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that stops, pr	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13 15.99 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/30 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.47 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1/30 3.51 1	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0520317
GO:0042744 GO:001941 GO:0043114 GO:0048162 GO:006998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1900229 GO:0010543 GO:004057 GO:0050795 GO:004596 GO:190026 GO:0004596 GO:190026 GO:0004596 GO:0004654	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of frotein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of system process regulation of behavior fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substential administration phospholipid metabolic process movement of cell or subcellular component positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of memostasis negative regulation of memostasis negative regulation of memostasis negative regulation of patholical cell proliferation toll-like receptor 4 signaling pathway negative regulation of memosygenase activity positive regulation of memosygenase activity positive regulation of patholical process negative regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cell communication amyloid-beta metabolic process negative regulation of of endothelial cell migration hydrogen peroxide metabolic process negative regulation of of nedothelial cell migration hydrogen peroxide metabolic process	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of sr APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 A late phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of a syst APDA1 APDE Any process that modulates the frequency, rate or extent of application and APDA1 APDE Any process that modulates the frequency, rate or extent of application and APDA1 APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA4 The directed, self-propelled movement of a cell or subcellular com APDA1 APDE GP2 LBP Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that totops, prevents, or reduces the frequency, rate or APDE The series of events required for a bitter taste stimulus to be receive PiGR Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CL Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CL Any process that stop	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13 16.9 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/378 0.22 4/1814 0.61 6/355 0.56 1/39 0.59 2/378 0.22 4/1814 0.66 6/3556 0.56 1/39 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.59 3/1021 0.44 1/41 0.44 1/41	0,044858905 0,044858905 0,046277957 0,046227957 0,046227957 0,046220218 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0
GO:0042744 GO:0001941 GO:0043114 GO:0043114 GO:004862 GO:0048278 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:00405795 GO:00405795 GO:0050918 GO:0006044 GO:0006044 GO:0006044 GO:0006044 GO:0006044 GO:0006044 GO:0006046 GO:0006048 GO:00060918 GO:0	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of intrinsic apoptotic signaling pathway in reregulation of patelet activation regulation of system process regulation of behavior fear response regulation of manyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cell positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of thom contains factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of meutrophil migration regulation of neutrophil migration regulation of neutrophil migration regulation of monoxygenase activity positive regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cell communication amyloid-beta metabolic process heterotypic cell-cell adhesion negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of of odothelial cell migration hydrogen peroxide metabolic process negative regulation of of odothelial cell migration hydrogen peroxide metabolic process negative regulation of of monomylation endothelial cell migration hydrogen peroxide metabolic process ne	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of sn APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 Alate phase of the viral life cycle during which all the components APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of saysts APDA1 APDE Any process that modulates the frequency, rate or extent of saysts APDA1 APDE Any process that modulates the frequency, rate or extent of saysts APDA1 APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDA2 The directed, self-propelled movement of a cell or subcellular com, APDA1 APDA3 Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that activates or increases the frequency, rate or exter APDA1 Any process that modulates the rate or extent of the tumor necros APDA4 Any process that modulates the rate or extent of the tumor necros APDA4 Any process that stops, prevents, or reduces the frequency, rate or APDA4 APDA6 Any process that stops, prevents, or reduces the frequency, rate or APDA4 APDE The chemical reactions and pathways resulting in the breakdown on APDA1 APDA4 APDE CL Any process that stops, prevents, or reduces the frequency, r	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13 16.99 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 2.50 1/32 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.95 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.86 1/35 2.78 1/36 2.70 1/37 0.53 2/378 0.52 2/31814 2.63 1/38 0.16 6/3856 2.50 1/40 0.29 3/1021 0.29 3/1021 0.29 3/1021 0.29 3/1021 0.29 3/1021 0.29 3/1021 0.29 3/1023 0.22 4/184 2.44 1/41 2.44 1/41 2.44 1/41	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,0520317
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:006998 GO:0048278 GO:0035025 GO:0019068 GO:0035025 GO:0010596 GO:003607 GO:00050795 GO:0005064 GO:0005064 GO:0005064 GO:00050667 GO:00050667 GO:000667 GO:000667 GO:000667 GO:000667 GO:000667 GO:000667 GO:0001580 GO:00001580 GO:0001580 GO:0	postsynaptic membrane organization regulation of vascular permeability regulation of vascular permeability regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of patelet activation regulation of system process regulation of sheahoir fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of subcellular component positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per megulation explained in the process negative regulation of holoco coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of signal transduction regulation of neutrophil migration regulation of momoxygenase activity positive regulation of for coagulation regulation of momoxygenase activity positive regulation of neutrophil migration regulation of macrophage activation negative regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cell communication amyloid-beta metabolic process heterotypic cell-cell adhesion negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of of modothelial cell migration hydrogen percyde metabolic process negative regulation of tumor necrosis factor production regulation of granulocyte chemotaxis negative regulation of thumor necrosis factor production reg	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood exsels can APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of si APOE Any process that stops, prevents or reduces the rate or extent of dendi APOE Any process that modulates the rate, frequency, or extent of dendi APOE Any process that modulates the frequency, rate or extent of protei APOE CLI Any process that activates or increases the frequency, rate or extent APOA1 A late phase of the viral life cycle during which all the components APOE Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of intrins CLI Any process that modulates the frequency, rate or extent of sayst APOA1 APOE Any process that modulates the frequency, rate or extent of behav APOE Any process that modulates the frequency, rate or extent of sayst APOA1 APOE The response of an organism to a perceived external threat. APOE Any process that modulates the frequency, rate or extent of amylo APOE Cell migration that is accomplished by extension and retraction of aPOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOE The chemical reactions and pathways involving phospholipids, any APOA1 APOB The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB The generation of amyloid-beta by cleavage of the amyloid precurs APOE That process that activates or increases the frequency, rate or exter CLI The series of events required for a bitter taste stimulus to be receive plica Any process that stops, prevents, or reduces the frequency, rate or APOA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOA4 APOB CLI Any process that stops, preve	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.63 1/900 0.61 2/330 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.33 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/30 3.31 1/32 3.03 1/33 3.03 1/34 3.04 1/742 2.94 1/34 2.94 1/34 2.96 1/35 2.86 1/35 2.97 1/36 2.97 1/36 2.97 1/40 2.93 1/1021 2.50 1/40 2.20 1/40 2	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04835665 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,05
GO:0042744 GO:0001941 GO:0043114 GO:0048114 GO:0048162 GO:0060998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0050795 GO:0050795 GO:0050795 GO:0050795 GO:0006647 GO:0006667 GO:0006667 GO:0006667 GO:0006667 GO:000667 GO:00067	postsynaptic membrane organization regulation of vascular permeability regulation of vascular permeability regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of patelet activation regulation of system process regulation of sheahoir fear response regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of subcellular component positive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of themical stimulus involved in sensory per regulation of themical stimulus involved in sensory per megulation explained in the process negative regulation of holoco coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of signal transduction regulation of neutrophil migration regulation of momoxygenase activity positive regulation of for coagulation regulation of momoxygenase activity positive regulation of neutrophil migration regulation of macrophage activation negative regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GTPase mediated signal transduction cellular catabolic process heterotypic cell-cell adhesion negative regulation of cell communication amyloid-beta metabolic process heterotypic cell-cell adhesion negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of of modothelial cell migration hydrogen percyde metabolic process negative regulation of tumor necrosis factor production regulation of granulocyte chemotaxis negative regulation of thumor necrosis factor production reg	A process which results in the assembly, arrangement of constituei APDE Any process that modulates the extent to which blood vessels can APDE Any process that stops, prevents or reduces the rate or extent of st APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any brocess that stops, prevents or reduces the rate or extent of denda APDE Any biological process involved in the maintenance of an internal s APDA1 APDA4 APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent of protei APDE Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of saystic APDE Any process that modulates the frequency, rate or extent of saystic APDA1 APDE Any process that modulates the frequency, rate or extent of a systic APDA1 APDE Any process that modulates the frequency, rate or extent of a systic APDA1 APDE Any process that modulates the frequency, rate or extent of any process that modulates the frequency, rate or extent of any process that modulates the frequency, rate or extent of any process that modulates the frequency, rate or extent of any process that modulates the frequency, rate or extent of any process that activates or increases the frequency, rate or extent of application that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDA The directed, self-propelled movement of a cell or subcellular com APDA1 APDA Any process that activates or increases the frequency, rate or exter APDA1 Any process that modulates the rate or extent of the tumor necros APDA1 Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CL Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CL Any process that modulates the frequency, rate	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.69 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13 16.91 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.31 1/30 0.60 2/335 3.33 1/30 0.59 2/338 0.23 4/1707 3.12 1/32 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 3.03 1/33 2.24 4/1742 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/34 2.94 1/41 2.44 1/41 2.44 1/41 2.44 1/41 2.44 1/41 2.44 1/41 2.48 1/42 2.38 1/42 2.38 1/42	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,04836563 0,048365934 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031
GO:0042744 GO:0001941 GO:0043114 GO:0048662 GO:0048878 GO:0048878 GO:0048254 GO:0050456 GO:0050755 GO:0050755 GO:0042596 GO:0042596 GO:0042596 GO:0050648 GO:0046506 GO:0050648 GO:00506509	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of protein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of histories apoptotic signaling pathway in reregulation of patient activation regulation of system process regulation of behavior fear response regulation of behavior fear response regulation of method process movement of cell or subcellular component phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent cerpositive regulation of substrate adhesion-dependent cerpositive regulation of substrate adhesion-dependent cerpositive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation for tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of menotypali migration regulation of neutrophil migration regulation of meutrophil migration regulation of menoxypages activation negative regulation of coagulation sensory perception of bitter taste membrane protein ectodomain proteolysis small GiPase mediated signal transduction cellular crabolic process heterotypic cell-cell adhesion negative regulation of protein secretion negative regulation of gipal transduction engative regulation of gipal transduction engative regulation of gipal process heterotypic cell-cell adhesion negative regulation of gipal process negative regulation of gipal process negative regulation of redothelial cell migration hydrogen peroxide metabolic process negative regulation of granulocyte chemotaxis ne	A process which results in the assembly, arrangement of constituei APOE Any process that modulates the extent to which blood exsels can APOE Any process that stops, prevents or reduces the rate or extent of sn APOE Any process that stops, prevents or reduces the rate or extent of sn APOE Any process that modulates the rate, frequency, or extent of denda APOE Any process that modulates the frequency, rate or extent of protei APOE ALO Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that modulates the frequency, rate or extent of protei APOE CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of systix APOA1 APOE Any process that modulates the frequency, rate or extent of systix APOA1 APOE Any process that modulates the frequency, rate or extent of saystix APOA1 APOE Any process that modulates the frequency, rate or extent of saystix APOA1 APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOE Cell migration that is accomplished by extension and retraction of a APOA1 APOA1 The directed, self-propelled movement of a cell or subcellular com, APOA1 APOB Cell migration that is activates or increases the frequency, rate or extent APOA1 Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter APOA1 Any process that activates or increases the frequency, rate or exter CLU The series of events required for a bitter taste stimulus to be receive PiGR Any process that activates or increases the requency, rate or extent OPOA1 Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOB The chemical reactions and pathways resulting in the breakdown or APOA1 APOA4 APOE CLU Any process that stops, prevents, or reduces the frequency, r	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13 15.38 2/13 7.69 1/13 15.38 2/13 7.69 1/13 15.38 2/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.61 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/337 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37 0.50 2/37	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,0483669334 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052
GO:0042744 GO:0001941 GO:0043114 GO:0048612 GO:006998 GO:0048878 GO:0043254 GO:0035025 GO:0019068 GO:1902229 GO:0010543 GO:0050795 GO:0042596 GO:1902991 GO:00050667 GO:00050667 GO:00050667 GO:0001580 GO:00050912 GO:00042488 GO:0050913 GO:00050913 GO:00	postsynaptic membrane organization regulation of vascular permeability negative regulation of smooth muscle cell proliferation regulation of dendritic spine development chemical homeostasis regulation of frotein-containing complex assembly positive regulation of Rho protein signal transduction virion assembly regulation of Intrinsic apoptotic signaling pathway in reregulation of platelet activation regulation of platelet activation regulation of platelet activation regulation of platelet activation regulation of platelet process regulation of amyloid precursor protein catabolic proces ameboidal-type cell migration phospholipid metabolic process movement of cell or subcellular component positive regulation of substrate adhesion-dependent copositive regulation of receptor-mediated endocytosis detection of chemical stimulus involved in sensory per regulation of tumor necrosis factor-mediated signaling negative regulation of blood coagulation amyloid-beta formation organic substance catabolic process negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of hemostasis negative regulation of memostasis negative regulation of senting pathway negative regulation of memostasis negative regulation of sentrophil migration regulation of memostagiate negativation of memostagiate negativation of neutrophil migration regulation of memostagiate negativation of cellular process heterotypic cell-cell adhesion negative regulation of sentrophil migration cellular catabolic process heterotypic cell-cell adhesion negative regulation of signaling cellular response to organic substance alcohol catabolic process negative regulation of signaling negative regulation of rumor necrosis factor production regulation of granulocyte chemotaxis negative regulation of apoptotic process negative regulation of apoptotic process negative regulation	A process which results in the assembly, arrangement of constituei APDE Any process that toops, prevents or reduces the rate or extent of six APDE Any process that stops, prevents or reduces the rate or extent of six APDE Any process that stops, prevents or reduces the rate or extent of denda APDE Any process that modulates the rate, frequency, or extent of denda APDE Any process that modulates the frequency, rate or extent of protei APDE CLU Any process that activates or increases the frequency, rate or extent APDA1 APDE Any process that activates or increases the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of intrins CLU Any process that modulates the frequency, rate or extent of a systi APDA1 APDE Any process that modulates the frequency, rate or extent of a systi APDA1 APDE Any process that modulates the frequency, rate or extent of a systi APDA1 APDE Any process that modulates the frequency, rate or extent of application of aPDA1 APDE Any process that modulates the frequency, rate or extent of application of aPDA1 APDE Cell migration that is accomplished by extension and retraction of a APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The chemical reactions and pathways involving phospholipids, any APDA1 APDE The series of events required for a bitter tast estimulus to be receive PIGR Any process that activates or increases the frequency, rate or exter APDA1 Any process that modulates the rate or extent of the tumor necros APDA1 Any process that stops, prevents, or reduces the frequency, rate or APDE Any process that stops, prevents or reduces the frequency, rate or APDA1 APDE CLA Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CLA Any process that stops, prevents, or reduces the frequency, rate or APDA1 APDA4 APDE CLA Any process tha	7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 16.9 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13 7.69 1/13	3.70 1/27 3.70 1/27 3.70 1/27 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.57 1/28 3.33 1/30 3.45 1/29 3.45 1/29 3.45 1/29 3.45 1/29 3.33 1/30 0.60 2/335 3.33 1/30 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.59 2/337 0.50 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/33 0.31 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91 1/34 0.91	0,044858905 0,044858905 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,046277957 0,04627957 0,047334955 0,047334955 0,047334955 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836565 0,04836371 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,052031715 0,05203171

GO:0010629		Any process that decreases the frequency, rate or extent of gene e APOA1 APOE LBP	23.08 3/13	0.29 3/1043	0,061528017
GO:0010629 GO:0051353	negative regulation of gene expression positive regulation of oxidoreductase activity	Any process that activates or increases the frequency, rate or extent of gene e APOAT APOE LBP	7.69 1/13	2.33 1/43	0,062330041
GO:0031333	amyloid precursor protein catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	2.33 1/43	0,062330041
GO:0051180	vitamin transport	The directed movement of vitamins into, out of or within a cell, or APOA1	7.69 1/13	2.33 1/43	0,062330041
GO:0031100 GO:0019221	cytokine-mediated signaling pathway	A series of molecular signals initiated by the binding of a cytokine t APOA1 CNTFR	15.38 2/13	0.49 2/408	0,062596225
GO:0013221	cellular component maintenance	The organization process that preserves a cellular component in a : APOE	7.69 1/13	2.27 1/44	0,063077938
GO:0032757	positive regulation of interleukin-8 production	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	2.27 1/44	0,063077938
GO:0031663	lipopolysaccharide-mediated signaling pathway	A series of molecular signals initiated by the binding of a lipopolysa LBP	7.69 1/13	2.27 1/44	0,063077938
GO:1900024		Any process that modulates the frequency, rate or extent of substr APOA1	7.69 1/13	2.27 1/44	0,063077938
GO:0043067	regulation of programmed cell death	Any process that modulates the frequency, rate or extent of progra APOE CLU CNTFR	23.08 3/13	0.28 3/1065	0,063716124
GO:1902532	negative regulation of intracellular signal transduction	Any process that stops, prevents or reduces the frequency, rate or APOE CLU	15.38 2/13	0.48 2/415	0,063774319
GO:0050919	negative chemotaxis	The directed movement of a motile cell or organism towards a low APOA1	7.69 1/13	2.22 1/45	0,064080681
GO:0009719	response to endogenous stimulus	Any process that results in a change in state or activity of a cell or a APOE CSN1S1 CSN1S2	23.08 3/13	0.28 3/1076	0,064885454
GO:0051345	positive regulation of hydrolase activity	Any process that activates or increases the frequency, rate or exter APOA1 APOA4	15.38 2/13	0.48 2/420	0,064885454
GO:0007610	behavior	The internally coordinated responses (actions or inactions) of anim APOE CNTFR	15.38 2/13	0.48 2/421	0,064937264
GO:0097061	dendritic spine organization	A process that is carried out at the cellular level which results in the APOE	7.69 1/13	2.13 1/47	0,066324433
GO:0033619	membrane protein proteolysis	The proteolytic cleavage of a transmembrane protein leading to th APOE	7.69 1/13	2.08 1/48	0,0670086
GO:0050766	positive regulation of phagocytosis	Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13	2.08 1/48	0,0670086
GO:0006801	superoxide metabolic process	The chemical reactions and pathways involving superoxide, the sur APOA4	7.69 1/13	2.08 1/48	0,0670086
GO:0051239	regulation of multicellular organismal process	Any process that modulates the frequency, rate or extent of a mult APOA1 APOA4 APOE LI		0.21 4/1943	0,0670086
GO:0030193	regulation of blood coagulation	Any process that modulates the frequency, rate or extent of blood APOE	7.69 1/13	2.08 1/48	0,0670086
GO:0050135	negative regulation of wound healing	Any process that decreases the rate, frequency, or extent of the se APOE	7.69 1/13	2.04 1/49	0,0682418
GO:0046579		Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13	2.00 1/50	0,068332543
GO:0048844	artery morphogenesis	The process in which the anatomical structures of arterial blood ve APOE	7.69 1/13	2.00 1/50	0,068332543
GO:0065008	regulation of biological quality	Any process that modulates a qualitative or quantitative trait of a b APOA1 APOA4 APOE C		0.17 5/2959	0,068332543
GO:0001960		Any process that stops, prevents, or reduces the frequency, rate or APOA1	7.69 1/13	2.00 1/50	0,068332543
GO:0033555	multicellular organismal response to stress	Any process that results in a change in state or activity of a multice APOE	7.69 1/13	2.00 1/50	0,068332543
GO:0010770		Any process that increases the frequency, rate or extent of cell mo APOA1	7.69 1/13	2.00 1/50	0,068332543
GO:0050810	regulation of steroid biosynthetic process	Any process that modulates the frequency, rate or extent of the ch APOE	7.69 1/13	2.00 1/50	0,068332543
GO:1900046	regulation of hemostasis	Any process that modulates the frequency, rate or extent of hemo: APOE	7.69 1/13	2.00 1/50	0,068332543
GO:0071702	organic substance transport	The directed movement of organic substances into, out of or within APOA1 APOA4 APOE LI		0.20 4/1968	0,068332543
GO:2001244		Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	1.96 1/51	0,068973218
GO:0019935	cyclic-nucleotide-mediated signaling	Any intracellular signal transduction in which the signal is passed o APOE	7.69 1/13	1.96 1/51	0,068973218
GO:0106027	neuron projection organization	A process that is carried out at the cellular level which results in the APOE	7.69 1/13	1.96 1/51	0,068973218
GO:0099175	regulation of postsynapse organization	Any process that modulates the physical form of a postsynapse. APOE	7.69 1/13	1.96 1/51	0,068973218
GO:0060761		Any process that decreases the rate, frequency, or extent of a resp APOA1	7.69 1/13	1.96 1/51	0,068973218
GO:0048583	regulation of response to stimulus	Any process that modulates the frequency, rate or extent of a resp APOA1 APOE CLU LBP		0.17 5/2982	0,069120741
GO:0006629	lipid metabolic process	The chemical reactions and pathways involving lipids, compounds: APOA1 APOA4 APOE	23.08 3/13	0.27 3/1124	0,069125283
GO:0050818	regulation of coagulation	Any process that modulates the frequency, rate or extent of coagul APOE	7.69 1/13	1.92 1/52	0,069880346
GO:0030818 GO:0032233		Any process that includes the frequency, fate or extent of coagul AFOE Any process that activates or increases the frequency, rate or extent of coagul AFOE	7.69 1/13	1.89 1/53	0,003880340
GO:0032233 GO:0010633	negative regulation of epithelial cell migration	Any process that activates of increases the frequency, rate of exter AFORI	7.69 1/13	1.89 1/53	0,070917637
GO:0060996	dendritic spine development	The process whose specific outcome is the progression of the denc APOE	7.69 1/13	1.85 1/54	0,070954481
GO:0000550 GO:0032611	interleukin-1 beta production	The appearance of interleukin-1 beta due to biosynthesis or secret APOA1	7.69 1/13	1.85 1/54	0,070954481
GO:0032651	regulation of interleukin-1 beta production	Any process that modulates the frequency, rate, or extent of interl APOA1	7.69 1/13	1.85 1/54	0,070954481
GO:0032031 GO:0010941	regulation of miterieuxin-1 beta production		23.08 3/13	0.26 3/1142	0,070954481
		Any process that modulates the rate or frequency of cell death. Cel APOE CLU CNTFR The chamical reactions and nathways involving applied procured APOE			
GO:0042982	amyloid precursor protein metabolic process	The chemical reactions and pathways involving amyloid precursor APOE	7.69 1/13	1.85 1/54	0,070954481
GO:0051057 GO:0032722	positive regulation of small GTPase mediated signal tra positive regulation of chemokine production	Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13 7.69 1/13	1.85 1/54 1.85 1/54	0,070954481
		Any process that activates or increases the frequency, rate, or exte LBP			
GO:0051851	modulation by host of symbiont process	The process in which an organism effects a change in the structure APOE	7.69 1/13	1.85 1/54	0,070954481
GO:0002532		The synthesis or release of any molecular mediator of the inflamm; LBP	7.69 1/13	1.85 1/54	0,070954481
GO:0010498	proteasomal protein catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE CLU	15.38 2/13	0.43 2/464	0,072181144
GO:0009893	positive regulation of metabolic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE C		0.16 5/3040	0,072184268
GO:0042127	regulation of cell population proliferation	Any process that modulates the frequency, rate or extent of cell pr APOE CLU CNTFR	23.08 3/13	0.26 3/1156	0,072184268
GO:0032787	monocarboxylic acid metabolic process	The chemical reactions and pathways involving monocarboxylic aci APOA1 APOA4	15.38 2/13	0.43 2/470	0,073467859
GO:0072657	protein localization to membrane	A process in which a protein is transported to, or maintained in, a s APOE PIGR	15.38 2/13	0.42 2/473	0,073752568
GO:0034121	regulation of toll-like receptor signaling pathway	Any process that modulates the frequency, rate, or extent of toll-lil LBP	7.69 1/13	1.75 1/57	0,073752568
GO:0060291	long-term synaptic potentiation	A process that modulates synaptic plasticity such that synapses are APOE	7.69 1/13	1.75 1/57	0,073752568
GO:0050865	regulation of cell activation	Any process that modulates the frequency, rate or extent of cell ac APOE LBP	15.38 2/13	0.42 2/472	0,073752568
GO:0002526	acute inflammatory response	Inflammation which comprises a rapid, short-lived, relatively unifor LBP	7.69 1/13	1.72 1/58	0,074650289
GO:1901616		The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	1.72 1/58	0,074650289
GO:0015909	long-chain fatty acid transport	The directed movement of long-chain fatty acids into, out of or wit APOE	7.69 1/13	1.69 1/59	0,075189028
GO:0032677	regulation of interleukin-8 production	Any process that modulates the frequency, rate, or extent of interli LBP	7.69 1/13	1.69 1/59	0,075189028
GO:0031638	zymogen activation	The proteolytic processing of an inactive enzyme to an active form. CD5L	7.69 1/13	1.69 1/59	0,075189028
GO:0050909	sensory perception of taste	The series of events required for an organism to receive a gustator PIGR	7.69 1/13	1.69 1/59	0,075189028
GO:0032637	interleukin-8 production	The appearance of interleukin-8 due to biosynthesis or secretion fc LBP	7.69 1/13	1.69 1/59	0,075189028
GO:0042116	macrophage activation	A change in morphology and behavior of a macrophage resulting fr LBP	7.69 1/13	1.67 1/60	0,076294813
GO:0009725	response to hormone	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13	0.41 2/488	0,076744769
GO:0014070	response to organic cyclic compound	Any process that results in a change in state or activity of a cell or a CSN1S1 CSN1S2	15.38 2/13	0.40 2/495	0,077874217
GO:1903035	negative regulation of response to wounding	Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13	1.61 1/62	0,077874217
GO:0032760	positive regulation of tumor necrosis factor production	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	1.61 1/62	0,077874217
GO:0002367	cytokine production involved in immune response	The appearance of a cytokine due to biosynthesis or secretion follc APOA1	7.69 1/13	1.61 1/62	0,077874217
GO:0061077	chaperone-mediated protein folding	The process of inhibiting aggregation and assisting in the covalent : CLU	7.69 1/13	1.61 1/62	0,077874217
GO:0002718	regulation of cytokine production involved in immune r	Any process that modulates the frequency, rate, or extent of cytok APOA1	7.69 1/13	1.61 1/62	0,077874217
GO:0009056	catabolic process	The chemical reactions and pathways resulting in the breakdown o APOA1 APOA4 APOE C		0.19 4/2106	0,078066328
GO:0048259	regulation of receptor-mediated endocytosis	Any process that modulates the frequency, rate or extent of recept CLU	7.69 1/13	1.59 1/63	0,078100545
GO:0032652	regulation of interleukin-1 production	Any process that modulates the frequency, rate, or extent of interl APOA1	7.69 1/13	1.59 1/63	0,078100545
GO:0010769	regulation of cell morphogenesis involved in differentia	Any process that modulates the frequency, rate or extent of cell mi APOA1	7.69 1/13	1.59 1/63	0,078100545
GO:0032612	interleukin-1 production	The appearance of interleukin-1 due to biosynthesis or secretion fc APOA1	7.69 1/13	1.59 1/63	0,078100545
GO:0007631	feeding behavior	Behavior associated with the intake of food. CNTFR	7.69 1/13	1.59 1/63	0,078100545
GO:0006935	chemotaxis	The directed movement of a motile cell or organism, or the directe APOA1 LBP	15.38 2/13	0.40 2/503	0,079137945
GO:1903557		Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	1.54 1/65	0,079789134
GO:0002275		A change in the morphology or behavior of a myeloid cell resulting LBP	7.69 1/13	1.54 1/65	0,079789134
GO:2001021		Any process that stops, prevents or reduces the frequency, rate or CLU	7.69 1/13	1.54 1/65	0,079789134
GO:0042330	taxis	The directed movement of a motile cell or organism in response to APOA1 LBP	15.38 2/13	0.40 2/506	0,079789134
GO:0048585	negative regulation of response to stimulus	Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOE CLU	23.08 3/13	0.24 3/1236	0,080494961
GO:0022600	digestive system process	A physical, chemical, or biochemical process carried out by living or APOA1	7.69 1/13	1.52 1/66	0,080694822
GO:0009617	response to bacterium	Any process that results in a change in state or activity of a cell or a CSN1S2 LBP	15.38 2/13	0.39 2/514	0,081254242
GO:0001817	regulation of cytokine production	Any process that modulates the frequency, rate, or extent of produ APOA1 LBP	15.38 2/13	0.39 2/515	0,081295375
GO:0050829	defense response to Gram-negative bacterium	Reactions triggered in response to the presence of a Gram-negativ LBP	7.69 1/13	1.49 1/67	0,081295375
GO:0050764	regulation of phagocytosis	Any process that modulates the frequency, rate or extent of phago APOA1	7.69 1/13	1.49 1/67	0,081295375
GO:0043535		Any process that modulates the frequency, rate or extent of the mi APOE	7.69 1/13	1.47 1/68	0,082184286
GO:0051492	regulation of stress fiber assembly	Any process that modulates the frequency, rate or extent of the as APOA1	7.69 1/13	1.47 1/68	0,082184286
GO:0032602	chemokine production	The appearance of a chemokine due to biosynthesis or secretion fc LBP	7.69 1/13	1.45 1/69	0,082320393
GO:0001816	cytokine production	The appearance of a cytokine due to biosynthesis or secretion folic APOA1 LBP	15.38 2/13	0.38 2/522	0,082320393
GO:0062014		Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13	1.45 1/69	0,082320393
GO:0060840	artery development	The progression of the artery over time, from its initial formation ti APOE	7.69 1/13	1.45 1/69	0,082320393
GO:0032642	regulation of chemokine production	Any process that modulates the frequency, rate, or extent of chem LBP	7.69 1/13	1.45 1/69	0,082320393
GO:0030168	platelet activation	A series of progressive, overlapping events triggered by exposure c APOE	7.69 1/13	1.45 1/69	0,082320393
GO:0007613	memory	The activities involved in the mental information processing system APOE	7.69 1/13	1.45 1/69	0,082320393
GO:0032755	positive regulation of interleukin-6 production	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	1.43 1/70	0,08318993
GO:0051341	regulation of oxidoreductase activity	Any process that modulates the frequency, rate or extent of oxidor APOE	7.69 1/13	1.43 1/70	0,08318993
GO:0007165	signal transduction	The cellular process in which a signal is conveyed to trigger a chang APOA1 APOE CLU CNTI		0.12 7/5642	0,08325862
GO:1902531	regulation of intracellular signal transduction	Any process that modulates the frequency, rate or extent of intract APOA1 APOE CLU	23.08 3/13	0.24 3/1270	0,083444285
GO:0015908	fatty acid transport	The directed movement of fatty acids into, out of or within a cell, a APOE	7.69 1/13	1.41 1/71	0,08345751
GO:0048660	regulation of smooth muscle cell proliferation	Any process that modulates the frequency, rate or extent of smoot APOE	7.69 1/13	1.41 1/71	0,08345751
GO:0045833	negative regulation of lipid metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	1.41 1/71	0,08345751
GO:0051702		An interaction between two organisms living together in more or le APOE	7.69 1/13	1.41 1/71	0,08345751
GO:0032436		Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	1.39 1/72	0,08445835
GO:1901264	carbohydrate derivative transport	The directed movement of a carbohydrate derivative into, out of o LBP	7.69 1/13	1.37 1/73	0,085154604
GO:0048659	smooth muscle cell proliferation	The multiplication or reproduction of smooth muscle cells, resultin APOE	7.69 1/13	1.37 1/73	0,085154604
GO:0032092		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	1.37 1/73	0,085154604
	positive regulation of protein binding				0.005336353
GO:0051668	localization within membrane	Any process in which a substance or cellular entity, such as a prote APOE PIGR	15.38 2/13	0.37 2/541	0,085236353
GO:0051668 GO:0033209	localization within membrane tumor necrosis factor-mediated signaling pathway	A series of molecular signals initiated by the binding of a tumor net APOA1	7.69 1/13	1.35 1/74	0,085842875
GO:0051668 GO:0033209 GO:0110020	localization within membrane tumor necrosis factor-mediated signaling pathway regulation of actomyosin structure organization	A series of molecular signals initiated by the binding of a tumor net APOA1 Any process that modulates the frequency, rate or extent of the as APOA1	7.69 1/13 7.69 1/13	1.35 1/74 1.35 1/74	0,085842875 0,085842875
GO:0051668 GO:0033209	localization within membrane tumor necrosis factor-mediated signaling pathway	A series of molecular signals initiated by the binding of a tumor net APOA1	7.69 1/13	1.35 1/74	0,085842875
GO:0051668 GO:0033209 GO:0110020	localization within membrane tumor necrosis factor-mediated signaling pathway regulation of actomyosin structure organization	A series of molecular signals initiated by the binding of a tumor net APOA1 Any process that modulates the frequency, rate or extent of the as APOA1	7.69 1/13 7.69 1/13	1.35 1/74 1.35 1/74	0,085842875 0,085842875

GO:0010976	positive regulation of neuron projection development	Any process that increases the rate, frequency or extent of neuron APOE	7.69 1/13	1.33 1/75	0,086674025
GO:0043086	negative regulation of catalytic activity	Any process that stops or reduces the activity of an enzyme. APOA1 APOE	15.38 2/13	0.36 2/555	0,088470115
GO:0002690	positive regulation of leukocyte chemotaxis	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	1.30 1/77	0,088470115
GO:0045089 GO:0048522	positive regulation of innate immune response positive regulation of cellular process	Any process that activates or increases the frequency, rate or exter LBP Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE CL	7.69 1/13 I 46 15 6/13	1.30 1/77 0.13 6/4480	0,088470115 0,08855188
GO:0002698	negative regulation of immune effector process	Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13	1.28 1/78	0,088975658
GO:0050729	positive regulation of inflammatory response	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	1.28 1/78	0,088975658
GO:0030593	neutrophil chemotaxis	The directed movement of a neutrophil cell, the most numerous pc LBP	7.69 1/13	1.28 1/78	0,088975658
GO:0007173 GO:0030038	epidermal growth factor receptor signaling pathway contractile actin filament bundle assembly	A series of molecular signals initiated by binding of a ligand to the t PIGR Assembly of actin filament bundles in which the filaments are loost APOA1	7.69 1/13 7.69 1/13	1.27 1/79 1.25 1/80	0,089934828 0,09027069
GO:0030038 GO:0051224	negative regulation of protein transport	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	1.25 1/80	0,09027069
GO:2000060		a Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	1.25 1/80	0,09027069
GO:0062207		1 Any process that modulates the rate, frequency or extent of a patti LBP	7.69 1/13	1.25 1/80	0,09027069
GO:0043149	stress fiber assembly regulation of signal transduction	The aggregation, arrangement and bonding together of a set of cor APOA1	7.69 1/13	1.25 1/80	0,09027069
GO:0009966 GO:0012501	programmed cell death	Any process that modulates the frequency, rate or extent of signal APOA1 APOE CLU LBP A process which begins when a cell receives an internal or external APOE CLU CNTFR	30.77 4/13 23.08 3/13	0.18 4/2282 0.22 3/1343	0,091127281 0,091432903
GO:2001243		Any process that stops, prevents or reduces the frequency, rate or CLU	7.69 1/13	1.22 1/82	0,092002344
GO:0032231	regulation of actin filament bundle assembly	Any process that modulates the frequency, rate or extent of the as APOA1	7.69 1/13	1.20 1/83	0,092469774
GO:0042592	homeostatic process	Any biological process involved in the maintenance of an internal s APOA1 APOA4 APOE	23.08 3/13	0.22 3/1352	0,092469774
GO:1904950 GO:0007586	negative regulation of establishment of protein localization	a Any process that stops, prevents or reduces the frequency, rate or APOE The whole of the physical, chemical, and biochemical processes cai APOA1	7.69 1/13 7.69 1/13	1.20 1/83 1.20 1/83	0,092469774 0,092469774
GO:0007380 GO:0071901		Any process that decreases the rate, frequency, or extent of protei APOE	7.69 1/13	1.19 1/84	0,092403774
GO:1990830	cellular response to leukemia inhibitory factor	Any process that results in a change in state or activity of a cell (in 1 BSPRY	7.69 1/13	1.19 1/84	0,093242151
GO:0010977		Any process that decreases the rate, frequency or extent of neuror APOE	7.69 1/13	1.18 1/85	0,094008716
GO:1990823	response to leukemia inhibitory factor	Any process that results in a change in state or activity of a cell or a BSPRY	7.69 1/13	1.18 1/85	0,094008716
GO:0038127 GO:1903531	ERBB signaling pathway negative regulation of secretion by cell	A series of molecular signals initiated by binding of a ligand to a me PIGR Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13 7.69 1/13	1.16 1/86 1.15 1/87	0,094927738 0,095843053
GO:0007229	integrin-mediated signaling pathway	A series of molecular signals initiated by the binding of extracellula APOA1	7.69 1/13	1.14 1/88	0,09675468
GO:0050830	defense response to Gram-positive bacterium	Reactions triggered in response to the presence of a Gram-positive LBP	7.69 1/13	1.12 1/89	0,097662638
GO:0035296	regulation of tube diameter	Any process that modulates the diameter of a tube. APOE	7.69 1/13	1.11 1/90	0,098078989
GO:0061041 GO:0010811	regulation of wound healing	Any process that modulates the rate, frequency, or extent of the se APOE Any process that increases the frequency, rate or extent of cell-sub APOA1	7.69 1/13	1.11 1/90	0,098078989 0,098078989
GO:0010811 GO:0097746	positive regulation of cell-substrate adhesion blood vessel diameter maintenance	Any process that modulates the diameter of blood vessels. APOE	7.69 1/13 7.69 1/13	1.11 1/90 1.11 1/90	0,098078989
GO:0035150	regulation of tube size	Ensuring that a tube is of the correct length and diameter. Tube siz APOE	7.69 1/13	1.10 1/91	0,098813226
GO:0008630		A series of molecular signals in which an intracellular signal is conv CLU	7.69 1/13	1.10 1/91	0,098813226
GO:0034446	substrate adhesion-dependent cell spreading	The morphogenetic process that results in flattening of a cell as a c APOA1	7.69 1/13	1.09 1/92	0,099705469
GO:1901800 GO:0030162	regulation of proteolysis	Any process that activates or increases the frequency, rate or exter CLU Any process that modulates the frequency, rate or extent of the hy APOE CLU	7.69 1/13 15.38 2/13	1.08 1/93 0.32 2/620	0,100594155 0,101345243
GO:00002224	toll-like receptor signaling pathway	Any series of molecular signals generated as a consequence of binc LBP	7.69 1/13	1.06 1/94	0,101345243
GO:0034614	cellular response to reactive oxygen species	Any process that results in a change in state or activity of a cell (in 1 APOA4	7.69 1/13	1.05 1/95	0,102193945
GO:0008219	cell death	Any biological process that results in permanent cessation of all vit APOE CLU CNTFR	23.08 3/13	0.21 3/1432	0,102814184
GO:0050806	positive regulation of synaptic transmission granulocyte chemotaxis	Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	1.03 1/97	0,103944398
GO:0071621 GO:0023052	signaling	The movement of a granulocyte in response to an external stimulu LBP The entirety of a process in which information is transmitted withir APOA1 APOE CLU CNTF	7.69 1/13 5 5 3 8 5 7/1 3	1.02 1/98 0.12 7/6020	0,104814427 0,104815771
GO:0035270	endocrine system development	Progression of the endocrine system over time, from its formation APOA1	7.69 1/13	1.01 1/99	0,105339557
GO:0051048	negative regulation of secretion	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	1.01 1/99	0,105339557
GO:1903052		Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	1.00 1/100	0,10593642
GO:0065009 GO:0002688	regulation of molecular function regulation of leukocyte chemotaxis	Any process that modulates the frequency, rate or extent of a mole APOA1 APOA4 APOE CL Any process that modulates the frequency, rate, or extent of leuko LBP	7.69 1/13	0.16 4/2439 1.00 1/100	0,10593642 0,10593642
GO:0002088 GO:0001959	regulation of cytokine-mediated signaling pathway	Any process that modulates the frequency, rate, or extent of fedo EBF Any process that modulates the frequency, rate or extent of the cy APOA1	7.69 1/13	0.99 1/101	0,106202928
GO:0050680	negative regulation of epithelial cell proliferation	Any process that stops, prevents or reduces the rate or extent of e APOE	7.69 1/13	0.99 1/101	0,106202928
GO:0044281	small molecule metabolic process	The chemical reactions and pathways involving small molecules, ar APOA1 APOA4 APOE	23.08 3/13	0.21 3/1460	0,106202928
GO:0001936	regulation of endothelial cell proliferation	Any process that modulates the frequency, rate, or extent of endot APOE	7.69 1/13	0.99 1/101	0,106202928
GO:0043066 GO:0007154	negative regulation of apoptotic process cell communication	Any process that stops, prevents, or reduces the frequency, rate or CLU CNTFR Any process that mediates interactions between a cell and its surre APOA1 APOE CLU CNTF	15.38 2/13	0.31 2/646 0.12 7/6065	0,106391557 0,106849976
GO:0007134 GO:0002833	positive regulation of response to biotic stimulus	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	0.97 1/103	0,107725513
GO:0043524	negative regulation of neuron apoptotic process	Any process that stops, prevents, or reduces the frequency, rate or CNTFR	7.69 1/13	0.96 1/104	0,108052023
GO:0032640	tumor necrosis factor production	The appearance of tumor necrosis factor due to biosynthesis or sec LBP	7.69 1/13	0.96 1/104	0,108052023
GO:0032680	regulation of tumor necrosis factor production	Any process that modulates the frequency, rate or extent of tumor LBP	7.69 1/13	0.96 1/104	0,108052023
GO:0098609 GO:0032635	cell-cell adhesion interleukin-6 production	The attachment of one cell to another cell via adhesion molecules. APOA1 APOA4 The appearance of interleukin-6 due to biosynthesis or secretion fc LBP	15.38 2/13 7.69 1/13	0.31 2/655 0.94 1/106	0,108052023 0,109545519
GO:0032675	regulation of interleukin-6 production	Any process that modulates the frequency, rate, or extent of interl LBP	7.69 1/13	0.94 1/106	0,109545519
GO:0099173	postsynapse organization	A process that is carried out at the cellular level which results in the APOE	7.69 1/13	0.94 1/106	0,109545519
GO:0043069	negative regulation of programmed cell death	Any process that stops, prevents, or reduces the frequency, rate or CLU CNTFR	15.38 2/13	0.30 2/663	0,109632964
GO:0060759	regulation of response to cytokine stimulus	Any process that modulates the rate, frequency, or extent of a rest APOA1	7.69 1/13	0.93 1/107	0,109683911
GO:1903555 GO:0071706		n Any process that modulates the frequency, rate or extent of tumor LBP The appearance of any member of the TNF superfamily due to bios LBP	7.69 1/13 7.69 1/13	0.93 1/107 0.93 1/107	0,109683911 0,109683911
GO:2001235	positive regulation of apoptotic signaling pathway	Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	0.93 1/107	0,109683911
GO:0002687	positive regulation of leukocyte migration	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	0.92 1/109	0,111493948
GO:0032434		Any process that modulates the frequency, rate or extent of the br CLU	7.69 1/13	0.91 1/110	0,112134172
GO:0033002 GO:0065003	muscle cell proliferation protein-containing complex assembly	The expansion of a muscle cell population by cell division. APOE The aggregation, arrangement and bonding together of a set of ma APOA1 APOA4 APOE CL	7.69 1/13	0.91 1/110 0.16 4/2520	0,112134172 0,112900694
GO:1903034	regulation of response to wounding	Any process that modulates the frequency, rate or extent of respor APOE	7.69 1/13	0.89 1/112	0,112300034
GO:0050921	positive regulation of chemotaxis	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	0.88 1/113	0,114379623
GO:0035966	response to topologically incorrect protein	Any process that results in a change in state or activity of a cell or a CLU	7.69 1/13	0.88 1/113	0,114379623
GO:0031345 GO:0051603	negative regulation of cell projection organization	Any process that stops, prevents, or reduces the frequency, rate or APOE the hydrolysis of a peptide bond or bonds within a protein as part. APOE CLU	7.69 1/13 15.38 2/13	0.87 1/115 0.29 2/696	0,116155859 0,117004369
GO:0031003	regulation of cell migration	Any process that modulates the frequency, rate or extent of cell mi APOE LBP	15.38 2/13	0.29 2/697	0,117004303
GO:0002700		n Any process that modulates the frequency, rate, or extent of the pi APOA1	7.69 1/13	0.85 1/117	0,11721475
GO:0010646	regulation of cell communication	Any process that modulates the frequency, rate or extent of cell co APOA1 APOE CLU LBP $$	30.77 4/13	0.16 4/2562	0,11721475
GO:0010605		Any process that decreases the frequency, rate or extent of the chr APOA1 APOE CLU LBP	30.77 4/13	0.16 4/2563	0,11721475
GO:0023051 GO:0031333	regulation of signaling negative regulation of protein-containing complex asso	Any process that modulates the frequency, rate or extent of a sign; APOA1 APOE CLU LBP any process that stops, prevents, or reduces the frequency, rate or CLU	30.77 4/13 7.69 1/13	0.16 4/2573 0.83 1/120	0,118422427 0,119553112
GO:0090090	negative regulation of canonical Wnt signaling pathwa	Any process that decreases the rate, frequency, or extent of the W APOE	7.69 1/13	0.83 1/120	0,119553112
GO:0000302	response to reactive oxygen species	Any process that results in a change in state or activity of a cell or a APOA4	7.69 1/13	0.83 1/121	0,120330555
GO:0048518 GO:0060548	positive regulation of biological process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE CL	1 46.15 6/13 15.38 2/13	0.12 6/4958 0.28 2/719	0,120330683
GO:0000548 GO:0048167	negative regulation of cell death regulation of synaptic plasticity	Any process that decreases the rate or frequency of cell death. Cell CLU CNTFR A process that modulates synaptic plasticity, the ability of synapses APOE	7.69 1/13	0.79 1/126	0,121959776 0,123987015
GO:0031328	positive regulation of cellular biosynthetic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE	23.08 3/13	0.19 3/1596	0,123987015
GO:0051017	actin filament bundle assembly	The assembly of actin filament bundles; actin filaments are on the : APOA1	7.69 1/13	0.79 1/126	0,123987015
GO:0051092		Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	0.79 1/126	0,123987015
GO:0043409 GO:0031325	negative regulation of MAPK cascade positive regulation of cellular metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE CL	7.69 1/13	0.79 1/127 0.15 4/2631	0,124499498 0,124499498
GO:0031323	cellular protein catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE CLU	15.38 2/13	0.27 2/732	0,124499498
GO:0061572	actin filament bundle organization	A process that results in the assembly, arrangement of constituent APOA1	7.69 1/13	0.78 1/128	0,124939733
GO:0010594	regulation of endothelial cell migration	Any process that modulates the rate, frequency, or extent of the oi APOE	7.69 1/13	0.78 1/128	0,124939733
GO:0019752	carboxylic acid metabolic process	The chemical reactions and pathways involving carboxylic acids, an APOA1 APOA4 The progression of a skeletal muscle organ over time from its initia CNTER	15.38 2/13	0.27 2/736	0,125120083
GO:0060538 GO:0071222	skeletal muscle organ development cellular response to lipopolysaccharide	The progression of a skeletal muscle organ over time from its initia CNTFR Any process that results in a change in state or activity of a cell (in I LBP	7.69 1/13 7.69 1/13	0.78 1/129 0.78 1/129	0,125130411 0,125130411
GO:0003018	vascular process in circulatory system	A circulatory process that occurs at the level of the vasculature. APOE	7.69 1/13	0.78 1/129	0,125130411
GO:1901215	negative regulation of neuron death	Any process that stops, prevents or reduces the frequency, rate or CNTFR	7.69 1/13	0.77 1/130	0,125318278
GO:0009891	positive regulation of biosynthetic process	Any process that activates or increases the frequency, rate or exter APOA1 APOA4 APOE	23.08 3/13	0.19 3/1617	0,125318278
GO:2000058 GO:0043112	regulation of ubiquitin-dependent protein catabolic pr receptor metabolic process	c Any process that modulates the frequency, rate or extent of ubiqui CLU The chemical reactions and pathways involving a receptor moleculi APOE	7.69 1/13 7.69 1/13	0.77 1/130 0.77 1/130	0,125318278 0,125318278
GO:0043112 GO:2000145	receptor metabolic process regulation of cell motility	Any process that modulates the frequency, rate or extent of cell mi APOE LBP	15.38 2/13	0.77 1/130	0,125318278
GO:0051099	positive regulation of binding	Any process that activates or increases the rate or extent of bindini APOE	7.69 1/13	0.76 1/131	0,125503385
GO:0002221	pattern recognition receptor signaling pathway	Any series of molecular signals generated as a consequence of a pa LBP	7.69 1/13	0.76 1/131	0,125503385
	bland annulation	The sequential process in which the multiple coagulation factors of APOE	7.69 1/13	0.76 1/131 0.27 2/745	0,125503385
GO:0007596	blood coagulation				0,125535906
GO:0043436	oxoacid metabolic process	The chemical reactions and pathways involving any oxoacid; an oxc APOA1 APOA4 Any process that modulates the occurrence or rate of cell death by CNTFR	15.38 2/13 7.69 1/13		
		The chemical reactions and pathways involving any oxoacid; an oxx APOA1 APOA4 Any process that modulates the occurrence or rate of cell death by CNTFR The stopping of bleeding (loss of body fluid) or the arrest of the cin APOE	7.69 1/13 7.69 1/13	0.76 1/132 0.75 1/133	0,126053821 0,126785581
GO:0043436 GO:0043523 GO:0007599 GO:0043933	oxoacid metabolic process regulation of neuron apoptotic process	Any process that modulates the occurrence or rate of cell death by CNTFR The stopping of bleeding (loss of body fluid) or the arrest of the cin APOE Any process in which macromolecules aggregate, disaggregate, or APOA1 APOA4 APOE CL	7.69 1/13 7.69 1/13 I 30.77 4/13	0.76 1/132 0.75 1/133 0.15 4/2678	0,126053821 0,126785581 0,127309365
GO:0043436 GO:0043523 GO:0007599 GO:0043933 GO:0050817	oxoacid metabolic process regulation of neuron apoptotic process hemostasis protein-containing complex organization coagulation	Any process that modulates the occurrence or rate of cell death by CNTFR The stopping of bleeding (loss of body fluid) or the arrest of the cin APDE Any process in which macromolecules aggregate, disaggregate, or APOA1 APOA4 APOE CL The process in which a fluid solution, or part of it, changes into a sc APOE	7.69 1/13 7.69 1/13 I 30.77 4/13 7.69 1/13	0.76 1/132 0.75 1/133 0.15 4/2678 0.75 1/134	0,126053821 0,126785581 0,127309365 0,127309365
GO:0043436 GO:0043523 GO:0007599 GO:0043933 GO:0050817 GO:1903828	oxoacid metabolic process regulation of neuron apoptotic process hemostasis protein-containing complex organization coagulation negative regulation of protein localization	Any process that modulates the occurrence or rate of cell death by CNTFR The stopping of bleeding (loss of body fluid) or the arrest of the cin APOE Any process in which macromolecules aggregate, disaggregate, or APOA1 APOA4 APOE CL The process in which a fluid solution, or part of it, changes into a sc APOE Any process that stops, prevents or reduces the frequency, rate or APOE	7.69 1/13 7.69 1/13 1 30.77 4/13 7.69 1/13 7.69 1/13	0.76 1/132 0.75 1/133 0.15 4/2678 0.75 1/134 0.75 1/134	0,126053821 0,126785581 0,127309365 0,127309365 0,127309365
GO:0043436 GO:0043523 GO:0007599 GO:0043933 GO:0050817	oxoacid metabolic process regulation of neuron apoptotic process hemostasis protein-containing complex organization coagulation	Any process that modulates the occurrence or rate of cell death by CNTFR The stopping of bleeding (loss of body fluid) or the arrest of the cin APDE Any process in which macromolecules aggregate, disaggregate, or APOA1 APOA4 APOE CL The process in which a fluid solution, or part of it, changes into a sc APOE	7.69 1/13 7.69 1/13 I 30.77 4/13 7.69 1/13	0.76 1/132 0.75 1/133 0.15 4/2678 0.75 1/134	0,126053821 0,126785581 0,127309365 0,127309365

GO:0022408	negative regulation of cell-cell adhesion	Any process that stops, prevents or reduces the rate or extent of cr APOA1	7.69 1/13	0.73 1/137	0,129497658
GO:0022408	protein metabolic process	The chemical reactions and pathways involving a protein. Includes APOA1 APOA4 APOE BS		0.12 6/5108	0,130185757
GO:0009892	negative regulation of metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOA1 APOE CLU LBP		0.15 4/2707	0,130364418
GO:2001242	regulation of intrinsic apoptotic signaling pathway	Any process that modulates the frequency, rate or extent of intrins CLU	7.69 1/13	0.72 1/139	0,130364418
GO:0050807	regulation of synapse organization	Any process that modulates the physical form of a synapse, the jun APOE	7.69 1/13	0.72 1/139	0,130364418
GO:0043405	regulation of MAP kinase activity	Any process that modulates the frequency, rate or extent of MAP k APOE	7.69 1/13	0.72 1/139	0,130364418
GO:0040012	regulation of locomotion	Any process that modulates the frequency, rate or extent of locom APOE LBP	15.38 2/13	0.26 2/773	0,131292122
GO:0006082	organic acid metabolic process	The chemical reactions and pathways involving organic acids, any a APOA1 APOA4	15.38 2/13	0.26 2/774	0,131395627
GO:0007369	gastrulation	A complex and coordinated series of cellular movements that occu APOA1	7.69 1/13	0.71 1/141	0,131593151
GO:0006508	proteolysis	The hydrolysis of proteins into smaller polypeptides and/or amino APOE CD5L CLU	23.08 3/13	0.18 3/1674	0,131834103
GO:1902905	positive regulation of supramolecular fiber organization	Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13	0.70 1/142	0,132108189
GO:0002440	production of molecular mediator of immune response	The synthesis or release of any molecular mediator of the immune APOA1	7.69 1/13	0.70 1/143	0,13280921
GO:0034249	negative regulation of cellular amide metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.69 1/144	0,133317515
GO:0050803	regulation of synapse structure or activity	Any process that modulates the physical form or the activity of a sy APOE	7.69 1/13	0.69 1/144	0,133317515
GO:0051270	regulation of cellular component movement	Any process that modulates the frequency, rate or extent of the mi APOE LBP	15.38 2/13	0.25 2/788	0,134158391
GO:0030178	negative regulation of Wnt signaling pathway	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.68 1/146	0,134705499
GO:0019637	organophosphate metabolic process	The chemical reactions and pathways involving organophosphates, APOA1 APOA4	15.38 2/13	0.25 2/793	0,134822032
GO:0001775	cell activation	A change in the morphology or behavior of a cell resulting from ext APOE LBP	15.38 2/13	0.25 2/793	0,134822032
GO:0050866	negative regulation of cell activation	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.68 1/147	0,134822032
GO:0070374	positive regulation of ERK1 and ERK2 cascade	Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	0.68 1/147	0,134822032
GO:0002274	myeloid leukocyte activation	A change in the morphology or behavior of a myeloid leukocyte res LBP	7.69 1/13	0.67 1/149	0,136190891
GO:0043393	regulation of protein binding	Any process that modulates the frequency, rate or extent of protei APOE	7.69 1/13	0.67 1/149	0,136190891
GO:0071356	cellular response to tumor necrosis factor	Any process that results in a change in state or activity of a cell (in I APOA1	7.69 1/13	0.66 1/151	0,137743424
GO:0007626	locomotory behavior	The specific movement from place to place of an organism in respc APOE	7.69 1/13	0.65 1/153	0,138899335
GO:0050708 GO:1901701	regulation of protein secretion cellular response to oxygen-containing compound	Any process that modulates the frequency, rate or extent of the co APOE Any process that results in a change in state or activity of a cell (in 1 APOA4 LBP	7.69 1/13 15.38 2/13	0.65 1/153 0.25 2/811	0,138899335 0,138899335
GO:0044092	negative regulation of molecular function	Any process that stops or reduces the rate or extent of a molecular APOA1 APOE	15.38 2/13	0.25 2/816	0,140029785
GO:0044032 GO:0016358	dendrite development	The process whose specific outcome is the progression of the denc APOE	7.69 1/13	0.65 1/155	0,140023783
GO:0010338	regulation of cell-substrate adhesion	Any process that modulates the frequency, rate or extent of cell-su APOA1	7.69 1/13	0.65 1/155	0,140043497
GO:0010010	regulation of hydrolase activity	Any process that modulates the frequency, rate or extent of ten-so Ar OA1 Any process that modulates the frequency, rate or extent of hydrol APOA1 APOA4	15.38 2/13	0.24 2/819	0,140320408
GO:0031330	glycerophospholipid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1	7.69 1/13	0.64 1/156	0,140513436
GO:0031032	actomyosin structure organization	A process that is carried out at the cellular level which results in the APOA1	7.69 1/13	0.64 1/157	0,141176059
GO:0006469	negative regulation of protein kinase activity	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.63 1/158	0,141639878
GO:0051495	positive regulation of cytoskeleton organization	Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13	0.63 1/158	0,141639878
GO:0071216	cellular response to biotic stimulus	Any process that results in a change in state or activity of a cell (in LBP	7.69 1/13	0.63 1/159	0,142100623
GO:0031349	positive regulation of defense response	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	0.63 1/159	0,142100623
GO:0007611	learning or memory	The acquisition and processing of information and/or the storage a APOE	7.69 1/13	0.62 1/161	0,143604767
GO:0051248	negative regulation of protein metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE CLU	15.38 2/13	0.24 2/839	0,144590764
GO:0007186	G protein-coupled receptor signaling pathway	A series of molecular signals that proceeds with an activated recep APOA1 APOE GNB2	23.08 3/13	0.17 3/1776	0,145417166
GO:0051402	neuron apoptotic process	Any apoptotic process in a neuron, the basic cellular unit of nervou CNTFR	7.69 1/13	0.61 1/164	0,145548879
GO:0072593	reactive oxygen species metabolic process	The chemical reactions and pathways involving a reactive oxygen s APOA4	7.69 1/13	0.60 1/167	0,147877068
GO:0030163	protein catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE CLU	15.38 2/13	0.23 2/855	0,148478489
GO:0002685	regulation of leukocyte migration	Any process that modulates the frequency, rate, or extent of leuko LBP	7.69 1/13	0.59 1/169	0,148743611
GO:0034612	response to tumor necrosis factor	Any process that results in a change in state or activity of a cell or a APOA1	7.69 1/13	0.59 1/169	0,148743611
GO:0002699	positive regulation of immune effector process	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	0.59 1/169	0,148743611
GO:0033673	negative regulation of kinase activity	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.58 1/172	0,150983994
GO:0001932	regulation of protein phosphorylation	Any process that modulates the frequency, rate or extent of additic APOA1 APOE	15.38 2/13	0.23 2/867	0,150983994
GO:2001234	negative regulation of apoptotic signaling pathway	Any process that stops, prevents or reduces the frequency, rate or CLU	7.69 1/13	0.57 1/174	0,152295279
GO:0010632	regulation of epithelial cell migration	Any process that modulates the frequency, rate or extent of epithe APOE	7.69 1/13	0.57 1/176	0,153746068
GO:0051651	maintenance of location in cell	Any process in which a substance or cellular entity, such as a prote APOE	7.69 1/13	0.56 1/177	0,154364585
GO:0050920	regulation of chemotaxis	Any process that modulates the frequency, rate or extent of the dii LBP	7.69 1/13	0.56 1/178	0,154980931
GO:1901214	regulation of neuron death	Any process that modulates the frequency, rate or extent of neuro CNTFR	7.69 1/13	0.56 1/179	0,155385135
GO:0006457	protein folding	The process of assisting in the covalent and noncovalent assembly CLU	7.69 1/13	0.56 1/179	0,155385135
GO:0017038	protein import	The targeting and directed movement of proteins into a cell or org; APOE	7.69 1/13	0.55 1/181	0,156817033
GO:0044403 GO:0030595	biological process involved in symbiotic interaction leukocyte chemotaxis	A process carried out by gene products in an organism that enable APOE	7.69 1/13 7.69 1/13	0.55 1/182	0,157424785 0,158030411
GO:0030393 GO:0002768		The movement of a leukocyte in response to an external stimulus. LBP	7.69 1/13	0.55 1/183 0.54 1/184	0,158421274
GO:0002768 GO:2001020	regulation of response to DNA damage stimulus	A series of molecular signals initiated by the binding of an extracell PIGR Any process that modulates the frequency, rate or extent of respor CLU	7.69 1/13	0.54 1/184	0,158421274
GO:2001020 GO:0008654	phospholipid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1	7.69 1/13	0.54 1/185	0,158601739
GO:0008654 GO:0050790	regulation of catalytic activity	Any process that modulates the activity of an enzyme. APOA1 APOA4 APOE	23.08 3/13	0.16 3/1868	0,158601739
GO:0098742	,	The attachment of one cell to another cell via adhesion molecules (APOA1	7.69 1/13	0.54 1/185	0,158601739
GO:0096742 GO:0006909	phagocytosis	A vesicle-mediated transport process that results in the engulfmen APOA1	7.69 1/13	0.53 1/188	0,160384562
GO:0034599	cellular response to oxidative stress	Any process that results in a change in state or activity of a cell (in 1 APOA4	7.69 1/13	0.53 1/188	0,160384562
GO:0032496	response to lipopolysaccharide	Any process that results in a change in state or activity of an organi LBP	7.69 1/13	0.53 1/188	0,160384562
GO:0032268	regulation of cellular protein metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE CLU	23.08 3/13	0.16 3/1884	0,160762609
GO:0050890	cognition	The operation of the mind by which an organism becomes aware c APOE	7.69 1/13	0.53 1/189	0,160762609
GO:0045017	glycerolipid biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1	7.69 1/13	0.53 1/190	0,161351601
GO:0016485	protein processing	Any protein maturation process achieved by the cleavage of a pept CD5L	7.69 1/13	0.52 1/192	0,16273845
GO:0051348	negative regulation of transferase activity	Any process that stops or reduces the rate of transferase activity, t APOE	7.69 1/13	0.51 1/196	0,165714026
GO:0030336	negative regulation of cell migration	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.51 1/197	0,166290792
GO:0051094	positive regulation of developmental process	Any process that activates or increases the rate or extent of develo APOA1 APOE	15.38 2/13	0.21 2/946	0,16919499
GO:0002237	response to molecule of bacterial origin	Any process that results in a change in state or activity of an organi LBP	7.69 1/13	0.49 1/204	0,171392867
GO:0007548	sex differentiation	The establishment of the sex of an organism by physical differentia CNTFR	7.69 1/13	0.49 1/205	0,171956085
GO:0019932	second-messenger-mediated signaling	Any intracellular signal transduction in which the signal is passed o APOE	7.69 1/13	0.49 1/206	0,172291246
GO:0010720	positive regulation of cell development	Any process that increases the rate, frequency or extent of the pro APOA1	7.69 1/13	0.49 1/206	0,172291246
GO:2000146	negative regulation of cell motility	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.48 1/207	0,17285013
GO:0007162	negative regulation of cell adhesion	Any process that stops, prevents, or reduces the frequency, rate or APOA1	7.69 1/13	0.48 1/208	0,173407081
GO:0070372	regulation of ERK1 and ERK2 cascade	Any process that modulates the frequency, rate or extent of signal APOE	7.69 1/13	0.47 1/211	0,17506641
GO:0031346	positive regulation of cell projection organization	Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13	0.47 1/211	0,17506641
GO:0051271		Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.47 1/211 0.47 1/213	0,17506641
GO:0070997	neuron death	The process of cell death in a neuron. CNTFR	7.69 1/13		0,176163105
GO:0060828 GO:0051091	regulation of canonical Wnt signaling pathway	Any process that modulates the rate, frequency, or extent of the W APOE Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13 7.69 1/13	0.47 1/213 0.47 1/215	0,176163105 0,177482151
GO:0051091 GO:0044265	cellular macromolecule catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE CLU	15.38 2/13	0.47 1/215	0,177482151
GO:0044203	regulation of phosphorylation	Any process that modulates the frequency, rate or extent of additic APOA1 APOE	15.38 2/13	0.20 2/986	0,177901885
GO:0019058	viral life cycle	A set of processes which all viruses follow to ensure survival; inclu: APOE	7.69 1/13	0.46 1/217	0,178333911
GO:0002366	leukocyte activation involved in immune response	A change in morphology and behavior of a leukocyte resulting from LBP	7.69 1/13	0.45 1/222	0,181705455
GO:0062197	cellular response to chemical stress	Any process that results in a change in state or activity of a cell (in 1 APOA4	7.69 1/13	0.45 1/222	0,181705455
GO:0007517	muscle organ development	The process whose specific outcome is the progression of the musi CNTFR	7.69 1/13	0.45 1/224	0,182529035
GO:0070371	ERK1 and ERK2 cascade	An intracellular protein kinase cascade containing at least ERK1 or I APOE	7.69 1/13	0.45 1/224	0,182529035
GO:0002263	cell activation involved in immune response	A change in the morphology or behavior of a cell resulting from ext LBP	7.69 1/13	0.45 1/224	0,182529035
GO:0051246	regulation of protein metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE CLU	23.08 3/13	0.15 3/2025	0,182785027
GO:0022604	regulation of cell morphogenesis	Any process that modulates the frequency, rate or extent of cell mi APOA1	7.69 1/13	0.44 1/228	0,185094999
GO:0009306	protein secretion	The controlled release of proteins from a cell. APOE	7.69 1/13	0.44 1/229	0,185614539
GO:0051240		Any process that activates or increases the frequency, rate or exter APOE LBP	15.38 2/13	0.20 2/1022	0,186265341
GO:0110053	regulation of actin filament organization	Any process that modulates the frequency, rate or extent of actin f APOA1	7.69 1/13	0.43 1/231	0,18641051
GO:0035592		The directed movement of a protein to a specific location within th APOE	7.69 1/13	0.43 1/231	0,18641051
GO:0040013	negative regulation of locomotion	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.43 1/232	0,186924371
GO:0071692	protein localization to extracellular region	Any process in which a protein is transported from one specific loc APOE	7.69 1/13	0.42 1/236	0,189682612
GO:0097193	intrinsic apoptotic signaling pathway	A series of molecular signals in which an intracellular signal is conv CLU	7.69 1/13	0.42 1/237	0,190188758
GO:0001933	negative regulation of protein phosphorylation	Any process that stops, prevents or reduces the rate of addition of APOE	7.69 1/13	0.41 1/242	0,193670523
GO:0035556	intracellular signal transduction	The process in which a signal is passed on to downstream compon APOA1 APOE CLU	23.08 3/13	0.14 3/2097	0,195003374
GO:0050878	regulation of body fluid levels	Any process that modulates the levels of body fluids. APOE	7.69 1/13	0.41 1/246	0,196143493
GO:0032270		Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13	0.19 2/1072	0,199004659
GO:0031667	response to nutrient levels	Any process that results in a change in state or activity of a cell or a APOE	7.69 1/13	0.40 1/252	0,20006821
GO:0051604	protein maturation	Any process leading to the attainment of the full functional capacit CD5L	7.69 1/13	0.39 1/254	0,20128396
GO:0015849	organic acid transport	The directed movement of organic acids, any acidic compound con APOE	7.69 1/13	0.39 1/255	0,201763048
GO:0007155	cell adhesion	The attachment of a cell, either to another cell or to an underlying APOA1 APOA4	15.38 2/13	0.18 2/1087	0,201984547
GO:0050678	regulation of epithelial cell proliferation	Any process that modulates the frequency, rate or extent of epithe APOE The chamical reactions and nathways involving organizations are APOAL A	7.69 1/13	0.39 1/256	0,201984547
GO:1901564		The chemical reactions and pathways involving organonitrogen cor APOA1 APOA4 APOE BS		0.10 6/5915	0,201984547
	organonitrogen compound metabolic process	The establishment of a colling property of the colling of the coll			
GO:0022610 GO:0051174	biological adhesion	The attachment of a cell or organism to a substrate, another cell, o APOA1 APOA4 Any process that modulates the frequency rate or extent of the ch APOA1 APOA	15.38 2/13	0.18 2/1092	0,203227085
GO:0051174	biological adhesion regulation of phosphorus metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE	15.38 2/13	0.18 2/1094	0,203316999
GO:0051174 GO:0019220	biological adhesion regulation of phosphorus metabolic process regulation of phosphate metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE Any process that modulates the frequency, rate or extent of the ch APOA1 APOE	15.38 2/13 15.38 2/13	0.18 2/1094 0.18 2/1094	0,203316999 0,203316999
GO:0051174 GO:0019220 GO:0060070	biological adhesion regulation of phosphorus metabolic process regulation of phosphate metabolic process canonical Wnt signaling pathway	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE Any process that modulates the frequency, rate or extent of the ch APOA1 APOE The series of molecular signals initiated by binding of a Wnt proteir APOE	15.38 2/13 15.38 2/13 7.69 1/13	0.18 2/1094 0.18 2/1094 0.38 1/260	0,203316999 0,203316999 0,203371287
GO:0051174 GO:0019220	biological adhesion regulation of phosphorus metabolic process regulation of phosphate metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE Any process that modulates the frequency, rate or extent of the ch APOA1 APOE	15.38 2/13 15.38 2/13	0.18 2/1094 0.18 2/1094	0,203316999 0,203316999

GO:0009593	detection of chemical stimulus	The series of events in which a chemical stimulus is received by a c LBP PIGR	15.38 2/13	0.18 2/1107	0,206436292
GO:0051098 GO:0031589	regulation of binding cell-substrate adhesion	Any process that modulates the frequency, rate or extent of bindin APOE The attachment of a cell to the underlying substrate via adhesion n APOA1	7.69 1/13 7.69 1/13	0.37 1/267 0.37 1/268	0,207900797 0,208359481
GO:0031303	regulation of Wnt signaling pathway	Any process that modulates the frequency, rate or extent of the ac APOE	7.69 1/13	0.37 1/269	0,208816595
GO:0051051	negative regulation of transport	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.37 1/272	0,209920074
GO:0031326	regulation of cellular biosynthetic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE CL		0.12 4/3385	0,209920074
GO:0042326 GO:0050794	negative regulation of phosphorylation regulation of cellular process	Any process that stops, prevents or decreases the rate of addition APOE Any process that modulates the frequency, rate or extent of a cellu APOA1 APOA4 APOE CL	7.69 1/13 1 69.23 9/13	0.37 1/271 0.09 9/10398	0,209920074 0,209920074
GO:0009991	response to extracellular stimulus	Any process that results in a change in state or activity of a cell or a APOE	7.69 1/13	0.37 1/273	0,210370081
GO:1901565	organonitrogen compound catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE CLU	15.38 2/13	0.18 2/1129	0,210677743
GO:0060326 GO:0016032	cell chemotaxis viral process	The directed movement of a motile cell guided by a specific chemic LBP A multi-organism process in which a virus is a participant. The othe APOE	7.69 1/13 7.69 1/13	0.36 1/275 0.36 1/276	0,211266796 0,211712862
GO:0009057	macromolecule catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE CLU	15.38 2/13	0.18 2/1142	0,213766539
GO:0002696	positive regulation of leukocyte activation	Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13	0.36 1/280	0,214004591
GO:0051247	positive regulation of protein metabolic process	Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13	0.17 2/1145	0,21413537
GO:0010975 GO:0071900	regulation of neuron projection development regulation of protein serine/threonine kinase activity	Any process that modulates the rate, frequency or extent of neuro APOE Any process that modulates the rate, frequency, or extent of prote APOE	7.69 1/13 7.69 1/13	0.36 1/281 0.35 1/282	0,214181715 0,214618966
GO:0009889	regulation of biosynthetic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE CL		0.12 4/3433	0,215348593
GO:0050867	positive regulation of cell activation	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	0.35 1/286	0,216616035
GO:2001233	regulation of apoptotic signaling pathway	Any process that modulates the frequency, rate or extent of apopti CLU	7.69 1/13 7.69 1/13	0.35 1/286	0,216616035
GO:0032103 GO:0044282	positive regulation of response to external stimulus small molecule catabolic process	Any process that activates, maintains or increases the rate of a res LBP The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	0.35 1/287 0.35 1/289	0,217046107 0,218165997
GO:0002683	negative regulation of immune system process	Any process that stops, prevents, or reduces the frequency, rate, o APOA1	7.69 1/13	0.34 1/294	0,221347817
GO:0050808	synapse organization	A process that is carried out at the cellular level which results in the APOE	7.69 1/13	0.34 1/296	0,222185296
GO:0032956 GO:0007159	regulation of actin cytoskeleton organization leukocyte cell-cell adhesion	Any process that modulates the frequency, rate or extent of the fol APOA1 The attachment of a leukocyte to another cell via adhesion molecu APOA4	7.69 1/13 7.69 1/13	0.34 1/296 0.34 1/298	0,222185296 0,223017081
GO:0007139 GO:0050804	modulation of chemical synaptic transmission	Any process that modulates the frequency or amplitude of synaptic APOE	7.69 1/13	0.34 1/298	0,223017081
GO:0099177	regulation of trans-synaptic signaling	Any process that modulates the frequency, rate or extent of trans-: APOE	7.69 1/13	0.33 1/299	0,223430852
GO:0031399	regulation of protein modification process	Any process that modulates the frequency, rate or extent of the co APOA1 APOE	15.38 2/13	0.17 2/1192	0,224361059
GO:0010035 GO:0048732	response to inorganic substance	Any process that results in a change in state or activity of a cell or a APOA4 The process whose specific outcome is the progression of a gland c APOA1	7.69 1/13 7.69 1/13	0.33 1/304 0.33 1/306	0,226290751 0,227373454
GO:0003008	system process	A multicellular organismal process carried out by any of the organs APOA1 APOE PIGR	23.08 3/13	0.13 3/2314	0,228258451
GO:0051606	detection of stimulus	The series of events in which a stimulus is received by a cell or orga LBP PIGR	15.38 2/13	0.16 2/1215	0,230084939
GO:0051223	regulation of protein transport	Any process that modulates the frequency, rate or extent of the dii APOE	7.69 1/13	0.32 1/314	0,231938893
GO:0051346 GO:0006874	negative regulation of hydrolase activity cellular calcium ion homeostasis	Any process that stops or reduces the rate of hydrolase activity, the APOA1 Any process involved in the maintenance of an internal steady state APOE	7.69 1/13 7.69 1/13	0.32 1/317 0.32 1/317	0,233392136 0,233392136
GO:0000874 GO:0008015	blood circulation	The flow of blood through the body of an animal, enabling the tran APOE	7.69 1/13	0.31 1/320	0,235352130
GO:0045936	negative regulation of phosphate metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.31 1/321	0,23522024
GO:0010563	$negative \ regulation \ of \ phosphorus \ metabolic \ process$	Any process that decreases the frequency, rate or extent of the cht APOE	7.69 1/13	0.31 1/321	0,23522024
GO:0032970	regulation of actin filament-based process	Any process that modulates the frequency, rate or extent of any ce APOA1	7.69 1/13	0.31 1/324 0.31 1/326	0,236929371
GO:0009611 GO:0055074	response to wounding calcium ion homeostasis	Any process that results in a change in state or activity of a cell or a APOE Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13 7.69 1/13	0.30 1/328	0,237970511 0,239007586
GO:0033074	regulation of cellular amide metabolic process	Any process that modulates the frequency, rate or extent of the ch APOE	7.69 1/13	0.30 1/329	0,239383041
GO:0001819	positive regulation of cytokine production	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	0.30 1/330	0,239757211
GO:0051090		Any process that modulates the frequency, rate or extent of the ac CLU	7.69 1/13	0.30 1/333	0,24144015
GO:0070201 GO:0006796	regulation of establishment of protein localization phosphate-containing compound metabolic process	Any process that modulates the frequency, rate or extent of the dii APOE The chemical reactions and pathways involving the phosphate grot APOA1 APOA4 APOE	7.69 1/13 23.08 3/13	0.30 1/336 0.12 3/2404	0,242957053 0,242957053
GO:0008798 GO:0003013	circulatory system process	A organ system process carried out by any of the organs or tissues APOE	7.69 1/13	0.12 3/2404	0,242957053
GO:0022607	cellular component assembly	The aggregation, arrangement and bonding together of a cellular c APOA1 APOA4 APOE CL		0.11 4/3663	0,246154629
GO:0006793	phosphorus metabolic process	The chemical reactions and pathways involving the nonmetallic ele APOA1 APOA4 APOE	23.08 3/13	0.12 3/2425	0,246523915
GO:0045785	positive regulation of cell adhesion	Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13	0.29 1/345	0,247515849
GO:0022407 GO:0071396	regulation of cell-cell adhesion cellular response to lipid	Any process that modulates the frequency, rate or extent of attach APOA1 Any process that results in a change in state or activity of a cell (in LBP	7.69 1/13 7.69 1/13	0.29 1/346 0.29 1/347	0,247870716 0,24793472
GO:0072503	cellular divalent inorganic cation homeostasis	Any process involved in the maintenance of an internal steady state APOE	7.69 1/13	0.29 1/347	0,24793472
GO:0043065	positive regulation of apoptotic process	Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	0.29 1/349	0,248928016
GO:0032501	multicellular organismal process	Any biological process, occurring at the level of a multicellular orga APOA1 APOA4 APOE CN		0.09 6/6399	0,250398406
GO:0016055	Wnt signaling pathway	The series of molecular signals initiated by binding of a Wnt protein APOE	7.69 1/13	0.28 1/355	0,252177649
GO:1903530 GO:0198738	regulation of secretion by cell cell-cell signaling by wnt	Any process that modulates the frequency, rate or extent of secret APOE Any process that mediates the transfer of information from one ce APOE	7.69 1/13 7.69 1/13	0.28 1/357 0.28 1/357	0,252862676 0,252862676
GO:0043068	positive regulation of programmed cell death	Any process that activates or increases the frequency, rate or exter CLU	7.69 1/13	0.28 1/360	0,254469765
GO:0060284	regulation of cell development	Any process that modulates the rate, frequency or extent of the pr APOA1	7.69 1/13	0.28 1/361	0,254807102
GO:0072507	divalent inorganic cation homeostasis	Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13	0.27 1/364	0,256403624
GO:0006468 GO:0043410	protein phosphorylation positive regulation of MAPK cascade	The process of introducing a phosphate group on to a protein. APOA1 APOE Any process that activates or increases the frequency, rate or exter APOE	15.38 2/13 7.69 1/13	0.15 2/1340 0.27 1/373	0,258358008 0,261451749
GO:0090066	regulation of anatomical structure size	Any process that modulates the size of an anatomical structure. APOE	7.69 1/13	0.26 1/379	0,264888846
GO:0044089	positive regulation of cellular component biogenesis	Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13	0.26 1/382	0,266445924
GO:1901361	organic cyclic compound catabolic process	The chemical reactions and pathways resulting in the breakdown o APOE	7.69 1/13	0.26 1/386	0,268614067
GO:0010942 GO:0031400	positive regulation of cell death negative regulation of protein modification process	Any process that increases the rate or frequency of cell death. Cell CLU Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13 7.69 1/13	0.26 1/388 0.26 1/388	0,269230092 0,269230092
GO:0031400 GO:0043161		The chemical reactions and pathways resulting in the breakdown o CLU	7.69 1/13	0.26 1/391	0.27076494
GO:0030335	positive regulation of cell migration	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	0.25 1/393	0,271680698
GO:0007015	actin filament organization	A process that is carried out at the cellular level which results in the APOA1	7.69 1/13	0.25 1/396	0,272891771
GO:0050778 GO:0010638	positive regulation of immune response positive regulation of organelle organization	Any process that activates or increases the frequency, rate or exter LBP Any process that increases the frequency, rate or extent of a proce APOA1	7.69 1/13 7.69 1/13	0.25 1/396 0.25 1/398	0,272891771 0,273798258
GO:0010038	regulation of secretion	Any process that increases the frequency, rate or extent of a proce AFOAT Any process that modulates the frequency, rate or extent of the co APOE	7.69 1/13	0.25 1/400	0,2747012
GO:0044085	cellular component biogenesis	A process that results in the biosynthesis of constituent macromole APOA1 APOA4 APOE CL		0.10 4/3907	0,280759789
GO:0034613	cellular protein localization	Any process in which a protein is transported to, and/or maintaine APOE PIGR	15.38 2/13	0.14 2/1432	0,280980247
GO:2000147	positive regulation of cell motility	Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13	0.24 1/412	0,280998782
GO:0070727 GO:0051272	cellular macromolecule localization positive regulation of cellular component movement	Any process in which a macromolecule is transported to, and/or m APOE PIGR Any process that activates or increases the frequency, rate or exter LBP	15.38 2/13 7.69 1/13	0.14 2/1438 0.24 1/417	0,282093234 0,283353704
GO:0034645	cellular macromolecule biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13	0.14 2/1449	0,2846592
GO:0050789	regulation of biological process	Any process that modulates the frequency, rate or extent of a biolc APOA1 APOA4 APOE CL		0.08 9/11175	0,285250534
GO:1905114 GO:0040017	cell surface receptor signaling pathway involved in cell- positive regulation of locomotion	Any cell surface receptor signaling pathway that is involved in cell-(APOE Any process that activates or increases the frequency, rate or exter LBP	7.69 1/13 7.69 1/13	0.24 1/424 0.24 1/425	0,286552791 0,286821692
GO:0040017 GO:0033554	cellular response to stress	Any process that activates or increases the frequency, rate or exter LBP Any process that results in a change in state or activity of a cell (in 1 APOA4 CLU	15.38 2/13	0.24 1/425	0,286821692
GO:0120035		: Any process that modulates the frequency, rate or extent of a proc APOE	7.69 1/13	0.23 1/433	0,290888498
GO:0006875	cellular metal ion homeostasis	Any process involved in the maintenance of an internal steady stati APOE	7.69 1/13	0.23 1/435	0,291734768
GO:0051493	regulation of cytoskeleton organization	Any process that modulates the frequency, rate or extent of the fol APOA1 The chemical reactions and pathways resulting in the biosynthesis APOA1	7.69 1/13	0.23 1/437	0,292577709
GO:0090407 GO:0031344	organophosphate biosynthetic process regulation of cell projection organization	Any process that modulates the frequency, rate or extent of a proc APOE	7.69 1/13 7.69 1/13	0.23 1/439 0.23 1/441	0,293417335 0,294253657
GO:0002694	regulation of leukocyte activation	Any process that modulates the frequency, rate, or extent of leuko LBP	7.69 1/13	0.23 1/444	0,295667245
GO:0061061	muscle structure development	The progression of a muscle structure over time, from its formatioi CNTFR	7.69 1/13	0.22 1/445	0,295916443
GO:0048514	blood vessel morphogenesis	The process in which the anatomical structures of blood vessels ari APOE	7.69 1/13	0.22 1/448	0,29732078
GO:0097190 GO:0008285	apoptotic signaling pathway negative regulation of cell population proliferation	A series of molecular signals which triggers the apoptotic death of CLU Any process that stops, prevents or reduces the rate or extent of α APOE	7.69 1/13 7.69 1/13	0.22 1/459 0.21 1/469	0,303315344 0,308685376
GO:0008283		Any process that stops, prevents or reduces the rate of extent of the APOE CLU LBP	23.08 3/13	0.21 1/409	0,311072191
GO:1901566	organonitrogen compound biosynthetic process	The chemical reactions and pathways resulting in the formation of APOA1 APOE	15.38 2/13	0.13 2/1575	0,315851788
GO:0030003	cellular cation homeostasis	Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13	0.20 1/491	0,320051181
GO:0048468 GO:0048598	cell development embryonic morphogenesis	The process whose specific outcome is the progression of the cell c APOA1 APOE The process in which anatomical structures are generated and org: APOA1	15.38 2/13 7.69 1/13	0.13 2/1592 0.20 1/494	0,320052147 0,321015759
GO:0055065	metal ion homeostasis	Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13	0.20 1/494	0,321063025
GO:0045859	regulation of protein kinase activity	Any process that modulates the frequency, rate or extent of protei APOE	7.69 1/13	0.20 1/496	0,321063025
GO:0007169		A series of molecular signals initiated by the binding of an extracell PIGR	7.69 1/13	0.20 1/496	0,321063025
GO:0016310 GO:0080135	phosphorylation regulation of cellular response to stress	The process of introducing a phosphate group into a molecule, usu APOA1 APOE Any process that modulates the frequency, rate or extent of a cellu CLU	15.38 2/13 7.69 1/13	0.12 2/1608 0.20 1/503	0,322877391 0,32422243
GO:0080135 GO:0006873	cellular ion homeostasis	Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13	0.20 1/503	0,32422243
GO:0098916	anterograde trans-synaptic signaling	Cell-cell signaling from pre to post-synapse, across the synaptic cle APOE	7.69 1/13	0.20 1/508	0,325897401
GO:0007268	chemical synaptic transmission	The vesicular release of classical neurotransmitter molecules from APOE	7.69 1/13	0.20 1/508	0,325897401
GO:0001568	blood vessel development	The process whose specific outcome is the progression of a blood \ APOE	7.69 1/13	0.19 1/516	0,329544752
GO:0099537 GO:0034330	trans-synaptic signaling cell junction organization	Cell-cell signaling in either direction across the synaptic cleft. APOE A process that is carried out at the cellular level which results in the APOE	7.69 1/13 7.69 1/13	0.19 1/516 0.19 1/522	0,329544752 0,332437581
GO:0034330 GO:0043408	regulation of MAPK cascade	Any process that is carried out at the cellular level which results in thi APOE Any process that modulates the frequency, rate or extent of signal APOE	7.69 1/13	0.19 1/522	0,332437381
GO:0099536	synaptic signaling	Cell-cell signaling to, from or within a synapse. APOE	7.69 1/13	0.18 1/541	0,341913202
GO:0001944	vasculature development	The process whose specific outcome is the progression of the vasci APOE	7.69 1/13	0.18 1/544	0,343138517
GO:0032940	secretion by cell	The controlled release of a substance by a cell. APOE	7.69 1/13	0.18 1/545	0,34329622

CO-00104C9		And an analysis of the second state the fractions of the second of the second ADOS CILLIDO	20 77 4/12	0.00.4/4240	0.245270150
GO:0010468 GO:0000904		Any process that modulates the frequency, rate or extent of gene APOA1 APOE CLU LBP The change in form (cell shape and size) that occurs when relativel APOA1	30.77 4/13 7.69 1/13		0,345279159 0,346253185
GO:0055080		Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13		0,347983958
GO:0098771		Any process involved in the maintenance of an internal steady stat APOE	7.69 1/13		0,352322678
GO:0030155		Any process that modulates the frequency, rate or extent of attach APOA1	7.69 1/13		0,356106743
GO:0055082		Any biological process involved in the maintenance of an internal s APOE	7.69 1/13		0,362439936
GO:0140352		The directed movement of some substance from a cell, into the ext APOE	7.69 1/13	0.17 1/587	0,362562147
GO:0043549		Any process that modulates the frequency, rate or extent of kinase APOE	7.69 1/13		0,362683779
GO:0006511	ubiquitin-dependent protein catabolic process	The chemical reactions and pathways resulting in the breakdown o CLU	7.69 1/13	0.17 1/589	0,362804833
GO:0000165		An intracellular protein kinase cascade containing at least a MAPK, APOE	7.69 1/13		0,363436429
GO:0044267	cellular protein metabolic process	The chemical reactions and pathways involving a specific protein, r APOA1 APOE BSPRY CLU	30.77 4/13	0.09 4/4461	0,363621939
GO:0032880	regulation of protein localization	Any process that modulates the frequency, rate or extent of any pr APOE	7.69 1/13	0.17 1/594	0,363791845
GO:0045597		Any process that activates or increases the frequency, rate or exter APOA1	7.69 1/13		0,363791845
GO:0050801		Any process involved in the maintenance of an internal steady stati APOE	7.69 1/13		0,367454167
GO:0019941		The chemical reactions and pathways resulting in the breakdown o CLU	7.69 1/13		0,367564965
GO:0030036		A process that is carried out at the cellular level which results in the APOA1	7.69 1/13		0,370796073
GO:0043632		The chemical reactions and pathways resulting in the breakdown o CLU	7.69 1/13		0,370796073
GO:0065007		Any process that modulates a measurable attribute of any biologic; APOA1 APOA4 APOE CL			0,371110441
GO:0050793		Any process that modulates the frequency, rate or extent of develc APOA1 APOE	15.38 2/13	0.11 2/1822	0,37196899
GO:0050877		A organ system process carried out by any of the organs or tissues APOE PIGR	15.38 2/13		0,372955229
GO:0019222		Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE CL			0,376657959
GO:0046903 GO:0035239		The controlled release of a substance by a cell or a tissue. APOE The process in which the anatomical structures of a tube are gener APOE	7.69 1/13 7.69 1/13		0,385588701
GO:0035239 GO:0008284		Any process that activates or increases the rate or extent of cell pri CNTFR	7.69 1/13		0,385666206 0,387686058
GO:0008284 GO:0036211		The covalent alteration of one or more amino acids occurring in pri APOA1 APOE BSPRY	23.08 3/13		0,388693709
GO:0006464		The covalent alteration of one or more amino acids occurring in pri APOA1 APOE BSPRY	23.08 3/13		0,388693709
GO:0019725		Any process involved in the maintenance of an internal steady stati APOE	7.69 1/13		0,390795323
GO:0003006		A developmental process in which a progressive change in the stat CNTFR	7.69 1/13		0,393259156
GO:0006974		Any process that results in a change in state or activity of a cell (in 1 CLU	7.69 1/13		0,393799491
GO:0022603		Any process that modulates the frequency, rate or extent of anator APOA1	7.69 1/13		0,394813775
GO:0051172		Any process that stops, prevents, or reduces the frequency, rate or APOE CLU	15.38 2/13		0,395060766
GO:0030029		Any cellular process that depends upon or alters the actin cytoskel APOA1	7.69 1/13		0,395880714
GO:0051338		Any process that modulates the frequency, rate or extent of transfi APOE	7.69 1/13		0,395937736
GO:0002684		Any process that activates or increases the frequency, rate, or exte LBP	7.69 1/13		0,395994347
GO:0008104		Any process in which a protein is transported to, or maintained in, APOE PIGR	15.38 2/13		0,405004369
GO:0031175		The process whose specific outcome is the progression of a neuror APOE	7.69 1/13		0,406393709
GO:0016567		The process in which one or more ubiquitin groups are added to a BSPRY	7.69 1/13	0.14 1/702	0,406431971
GO:0045321	leukocyte activation	A change in morphology and behavior of a leukocyte resulting from LBP	7.69 1/13	0.14 1/713	0,411084482
GO:0043412	macromolecule modification	The covalent alteration of one or more monomeric units in a polyp APOA1 APOE BSPRY	23.08 3/13	0.09 3/3413	0,420547459
GO:0080090	regulation of primary metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOA4 APOE CL	30.77 4/13	0.08 4/4857	0,42410368
GO:0032446		A protein modification process in which one or more groups of a sr BSPRY	7.69 1/13		0,430150421
GO:0016043		A process that results in the assembly, arrangement of constituent APOA1 APOA4 APOE CL			0,430796145
GO:0007167		Any series of molecular signals initiated by the binding of an extrac PIGR	7.69 1/13		0,438101381
GO:0009653		The process in which anatomical structures are generated and org: APOA1 APOE	15.38 2/13	0.09 2/2107	0,43827074
GO:0032269		Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13		0,443306075
GO:1901362		The chemical reactions and pathways resulting in the formation of APOA1 APOE CLU	23.08 3/13		0,446397462
GO:0035295		The process whose specific outcome is the progression of a tube o APOE	7.69 1/13		0,446649717
GO:0000902		The developmental process in which the size or shape of a cell is gt APOA1	7.69 1/13		0,446649717
GO:0072359		The process whose specific outcome is the progression of the circu APOE	7.69 1/13		0,446649717
GO:0031323		Any process that modulates the frequency, rate or extent of the ch APOA1 APOA APOE CL			0,450445619
GO:0048731 GO:0048666		The process whose specific outcome is the progression of an organ APOA1 APOE CNTFR The process whose specific outcome is the progression of a neuror APOE	23.08 3/13 7.69 1/13		0,456320018 0,456320018
GO:0048666 GO:0071840		A process that results in the biosynthesis of constituent macromok APOA1 APOA4 APOE CL			0,450520018
GO:0071840 GO:0044249		The chemical reactions and pathways resulting in the formation of APOA1 APOA4 APOE CL			0,460658644
GO:0010628		Any process that increases the frequency, rate or extent of gene ex LBP	7.69 1/13		0,466167228
GO:0010028		The process whose specific outcome is the progression of an embr APOA1	7.69 1/13		0,400107228
GO:1901576		The chemical reactions and pathways resulting in the formation of APOA1 APOA4 APOE CL			0,472186037
GO:0070647		A protein modification process in which one or more groups of a sr BSPRY	7.69 1/13		0,472924217
GO:0006518		The chemical reactions and pathways involving peptides, compoun APOE	7.69 1/13		0,480520167
GO:0009058		The chemical reactions and pathways resulting in the formation of APOA1 APOA4 APOE CL			0,481937985
GO:0033043		Any process that modulates the frequency, rate or extent of a proc APOA1	7.69 1/13		0,481937985
GO:0044260		The chemical reactions and pathways involving macromolecules, a APOA1 APOE BSPRY CLU			0,494496024
GO:0007275		The biological process whose specific outcome is the progression c APOA1 APOE CNTFR	23.08 3/13	0.08 3/3871	0,503073785
GO:0051641	cellular localization	A cellular localization process whereby a substance or cellular entit APOE PIGR	15.38 2/13	0.08 2/2418	0,507309426
GO:0051173	positive regulation of nitrogen compound metabolic pr	Any process that activates or increases the frequency, rate or exter APOE CLU	15.38 2/13	0.08 2/2473	0,520095882
GO:0030182	neuron differentiation	The process in which a relatively unspecialized cell acquires special APOE	7.69 1/13	0.10 1/1022	0,524497076
GO:0022414	reproductive process	A biological process that directly contributes to the process of proc CNTFR	7.69 1/13	0.10 1/1021	0,524497076
GO:0000003		The production of new individuals that contain some portion of ger CNTFR	7.69 1/13	0.10 1/1024	0,524700345
GO:0060255	regulation of macromolecule metabolic process	Any process that modulates the frequency, rate or extent of the ch APOA1 APOE CLU LBP	30.77 4/13	0.07 4/5552	0,534251272
GO:0050907		The series of events in which a chemical stimulus is received and α PIGR	7.69 1/13		0,545578724
GO:0048513	animal organ development	Development of a tissue or tissues that work together to perform a APOA1 CNTFR	15.38 2/13	0.08 2/2612	0,549636105
GO:0043603		The chemical reactions and pathways involving an amide, any derit APOE	7.69 1/13		0,553902636
GO:0045595	•	Any process that modulates the frequency, rate or extent of cell dil APOA1	7.69 1/13		0,557134281
GO:0018193		The alteration of an amino acid residue in a peptide. APOA1	7.69 1/13	0.09 1/1125	0,55725833
GO:0050906		The series of events involved in sensory perception in which a sens PIGR	7.69 1/13		0,559428443
GO:0007267		Any process that mediates the transfer of information from one ce APOE	7.69 1/13		0,560563984
GO:0048699		The process in which nerve cells are generated. This includes the p APOE	7.69 1/13		0,562704087
GO:0007606		The series of events required for an organism to receive a sensory PIGR	7.69 1/13		0,565495908
GO:0120036 GO:0030030		A process that is carried out at the cellular level which results in the APOE A process that is carried out at the cellular level which results in the APOE	7.69 1/13 7.69 1/13		0,566264143 0,575595382
GO:0030030		The directed movement of proteins into, out of or within a cell, or I APOE	7.69 1/13		0.575997775
GO:0015031 GO:0009059		The chemical reactions and pathways resulting in the formation of APOA1 APOE CLU	23.08 3/13		0,575997775
GO:0048856		The biological process whose specific outcome is the progression c APOA1 APOE CNTFR	23.08 3/13		0,588043902
GO:0007010		A process that is carried out at the cellular level which results in the APOA1	7.69 1/13		0,590303082
GO:0022008		Generation of cells within the nervous system. APOE	7.69 1/13		0,590303082
GO:0010467		The process in which a gene's sequence is converted into a mature APOA1 APOE CD5L CLU			0,592935623
GO:1903506		Any process that modulates the frequency, rate or extent of nuclei APOE CLU	15.38 2/13		0,598834421
GO:0006355	regulation of transcription, DNA-templated	Any process that modulates the frequency, rate or extent of cellula APOE CLU	15.38 2/13	0.07 2/2881	0,598834421
GO:0009890		Any process that stops, prevents, or reduces the rate of the chemic APOE	7.69 1/13		0,598834421
GO:2001141	regulation of RNA biosynthetic process	Any process that modulates the frequency, rate or extent of RNA b APOE CLU	15.38 2/13	0.07 2/2884	0,598873483
GO:0045184	establishment of protein localization	The directed movement of a protein to a specific location. APOE	7.69 1/13	0.08 1/1286	0,599425856
GO:1902680		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13		0,619564812
GO:0045893		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13		0,619564812
GO:1903508		Any process that activates or increases the frequency, rate or exter APOE	7.69 1/13		0,619564812
GO:0006351	transcription, DNA-templated	The cellular synthesis of RNA on a template of DNA. APOE CLU	15.38 2/13		0,623076713
GO:0097659		The cellular synthesis of RNA on a template of nucleic acid (DNA or APOE CLU	15.38 2/13		0,623076713
GO:0032774		The chemical reactions and pathways resulting in the formation of APOE CLU	15.38 2/13		0,624671372
GO:0030154		The process in which relatively unspecialized cells, e.g. embryonic (APOA1 APOE	15.38 2/13		0,637526399
GO:0051171		Any process that modulates the frequency, rate or extent of the ch APOA1 APOE CLU	23.08 3/13		0,639275541
GO:0007600		The series of events required for an organism to receive a sensory PIGR	7.69 1/13		0,642140251
GO:0051252		Any process that modulates the frequency, rate or extent of the ch APOE CLU	15.38 2/13		0,642229693
GO:0051254		Any process that activates or increases the frequency, rate or exter APOE A biological process whose specific outcome is the progression of APOAL APOE CNITER	7.69 1/13		0,642229693
GO:0032502		A biological process whose specific outcome is the progression of a APOA1 APOE CNTFR	23.08 3/13		0,642240252
GO:0043170		The chemical reactions and pathways involving macromolecules, at APOA1 APOA APOE BS			0,642971788
GO:0048869 GO:0010557		A biological process whose specific outcome is the progression of a APOA1 APOE	15.38 2/13		0,645488616 0,657822923
		Any process that increases the rate, frequency or extent of the che APOE Any process that modulates the rate, frequency or extent of the ch APOE CLU	7.69 1/13 15.38 2/13		0,657822923
GO:nnineee	regulation of macromolecule bioconthetic process	Any process that modulates the rate, frequency or extent of the ch APOE CLU	7.69 1/13		0,65362095
GO:0010556 GO:0071705		The directed movement of nitrogen-containing compounds into a ADDE			0,011303033
GO:0071705	nitrogen compound transport	The directed movement of nitrogen-containing compounds into, or APOE Any cellular process that activates or increases the frequency, rate APOE			0.673163562
GO:0071705 GO:0045935	nitrogen compound transport positive regulation of nucleobase-containing compound	Any cellular process that activates or increases the frequency, rate APOE	7.69 1/13	0.06 1/1597	0,673163562
GO:0071705 GO:0045935 GO:0019219	nitrogen compound transport positive regulation of nucleobase-containing compound regulation of nucleobase-containing compound metabo	Any cellular process that activates or increases the frequency, rate APOE Any cellular process that modulates the frequency, rate or extent c APOE CLU	7.69 1/13 15.38 2/13	0.06 1/1597 0.06 2/3342	0,675453838
GO:0071705 GO:0045935 GO:0019219 GO:0034654	nitrogen compound transport positive regulation of nucleobase-containing compount regulation of nucleobase-containing compound metabrucleobase-containing compound biosynthetic process	Any cellular process that activates or increases the frequency, rate APOE Any cellular process that modulates the frequency, rate or extent c APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU	7.69 1/13 15.38 2/13 15.38 2/13	0.06 1/1597 0.06 2/3342 0.06 2/3364	0,675453838 0,678698589
GO:0071705 GO:0045935 GO:0019219	nitrogen compound transport positive regulation of nucleobase-containing compount regulation of nucleobase-containing compound metable nucleobase-containing compound biosynthetic process heterocycle biosynthetic process	Any cellular process that activates or increases the frequency, rate APOE Any cellular process that modulates the frequency, rate or extent c APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU	7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13	0.06 1/1597 0.06 2/3342 0.06 2/3364 0.06 2/3434	0,675453838 0,678698589 0,690236036
GO:0071705 GO:0045935 GO:0019219 GO:0034654 GO:0018130	nitrogen compound transport positive regulation of nucleobase-containing compount regulation of nucleobase-containing compound metabrunucleobase-containing compound biosynthetic process heterocycle biosynthetic process aromatic compound biosynthetic process aromatic compound biosynthetic process	Any cellular process that activates or increases the frequency, rate APOE Any cellular process that modulates the frequency, rate or extent c APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU	7.69 1/13 15.38 2/13 15.38 2/13	0.06 1/1597 0.06 2/3342 0.06 2/3364 0.06 2/3434 0.06 2/3441	0,675453838 0,678698589
GO:0071705 GO:0045935 GO:0019219 GO:0034654 GO:0018130 GO:0019438	nitrogen compound transport positive regulation of nucleobase-containing compount regulation of nucleobase-containing compound metabrucleobase-containing compound biosynthetic process heterocycle biosynthetic process aromatic compound biosynthetic process nervous system development	Any cellular process that activates or increases the frequency, rate APOE Any cellular process that modulates the frequency, rate or extent c APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The process whose specific outcome is the progression of nervous APOE The process whose specific outcome is the progression of nervous APOE	7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13	0.06 1/1597 0.06 2/3342 0.06 2/3364 0.06 2/3434 0.06 2/3441 0.06 1/1710	0,675453838 0,678698589 0,690236036 0,690767929
GO:0071705 GO:0045935 GO:0019219 GO:0034654 GO:0018130 GO:0019438 GO:0007399	nitrogen compound transport positive regulation of nucleobase-containing compount regulation of nucleobase-containing compound metabrucleobase-containing compound biosynthetic process heterocycle biosynthetic process aromatic compound biosynthetic process nervous system development	Any cellular process that activates or increases the frequency, rate APOE Any cellular process that modulates the frequency, rate or extent c APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU The chemical reactions and pathways resulting in the formation of APOE CLU	7.69 1/13 15.38 2/13 15.38 2/13 15.38 2/13 15.38 2/13 7.69 1/13	0.06 1/1597 0.06 2/3342 0.06 2/3364 0.06 2/3434 0.06 2/3441 0.06 1/1710	0,675453838 0,678698589 0,690236036 0,690767929 0,696425723

GO:0031324	negative regulation of cellular metabolic process	Any process that stops, prevents, or reduces the frequency, rate or APOE	7.69 1/13	0.05 1/2035	0,761153639
GO:0044271	cellular nitrogen compound biosynthetic process	The chemical reactions and pathways resulting in the formation of APOE CLU	15.38 2/13	0.05 2/4213	0,801554622
GO:0071704	organic substance metabolic process	The chemical reactions and pathways involving an organic substant APOA1 APOA4 APOE E	SI 53.85 7/13	0.06 7/12360	0,813612225
GO:0006807	nitrogen compound metabolic process	The chemical reactions and pathways involving organic or inorgania APOA1 APOA4 APOE E	SI 46.15 6/13	0.05 6/10926	0,817432796
GO:0044238	primary metabolic process	The chemical reactions and pathways involving those compounds v APOA1 APOA4 APOE E	SI 46.15 6/13	0.05 6/11429	0,863735743
GO:0008152	metabolic process	The chemical reactions and pathways, including anabolism and cat APOA1 APOA4 APOE E	SI 53.85 7/13	0.05 7/12915	0,865498758
GO:0006996	organelle organization	A process that is carried out at the cellular level which results in the APOA1	7.69 1/13	0.03 1/3330	0,9128581
GO:0016070	RNA metabolic process	The cellular chemical reactions and pathways involving RNA, riboni APOE CLU	15.38 2/13	0.03 2/5843	0,934248931
GO:0009987	cellular process	Any process that is carried out at the cellular level, but not necessa APOA1 APOA4 APOE E	SI 84.62 11/13	0.06 11/18706	0,949011927
GO:0090304	nucleic acid metabolic process	Any cellular metabolic process involving nucleic acids. APOE CLU	15.38 2/13	0.03 2/6311	0,953583437
GO:0044237	cellular metabolic process	The chemical reactions and pathways by which individual cells tran APOA1 APOA4 APOE E	SI 38.46 5/13	0.04 5/11581	0,95708073
GO:0006139	nucleobase-containing compound metabolic process	Any cellular metabolic process involving nucleobases, nucleosides, APOE CLU	15.38 2/13	0.03 2/6721	0,965715164
GO:0046483	heterocycle metabolic process	The chemical reactions and pathways involving heterocyclic compc APOE CLU	15.38 2/13	0.03 2/6828	0,967847786
GO:0006725	cellular aromatic compound metabolic process	The chemical reactions and pathways involving aromatic compoun APOE CLU	15.38 2/13	0.03 2/6891	0,968619603
GO:0034641	cellular nitrogen compound metabolic process	The chemical reactions and pathways involving various organic and APOE CLU	15.38 2/13	0.03 2/7596	0,982311673
GO:0008150	biological_process	A biological process represents a specific objective that the organis APOA1 APOA4 APOE E	SI 100.00 13/13	0.06 13/20110	1

0.42 2/473

0,161700279

	phagocytosis, engulfment	The internalization of bacteria, immune complexes and other particulate matter or o ALOX15 A protein elycosylation process in which a carbohydrate or carbohydrate derivative u RPN1	7.14 1/14	1.61 1/62	0,162969827
	protein N-linked glycosylation regulation of cellular macromolecule biosynthetic process	Any process that modulates the frequency, rate or extent of cellular macromolecule RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	1.59 1/63 0.42 2/480	0,163110603 0,163110603
	organic substance biosynthetic process	The chemical reactions and pathways resulting in the formation of an organic substar ALOX15 COASY FASN MYO6 RAB3GAP1		0.14 7/5165 0.15 6/4033	0,165118173
	establishment of localization limbic system development	Any process that localizes a substance or cellular component. This may occur via mov ABCG2 ALOX15 MYO6 RAB3GAP1 RAB3 The progression of the limbic system over time from its initial formation until its mat. RAB3GAP1	7.14 1/14	1.49 1/67	0,165746843 0,167845322
	regulation of protein modification process renal system process	Any process that modulates the frequency, rate or extent of the covalent alteration c RAB3GAP1 RAB3GAP2 STK38 A organ system process carried out by any of the organs or tissues of the renal system ABCG2	21.43 3/14 7.14 1/14	0.25 3/1192 1.45 1/69	0,167845322 0.167845322
GO:0001676	long-chain fatty acid metabolic process	The chemical reactions and pathways involving long-chain fatty acids, A long-chain fa ALOX15	7.14 1/14	1.47 1/68	0,167845322
	biosynthetic process regulation of phagocytosis	The chemical reactions and pathways resulting in the formation of substances; typica ALOX15 COASY FASN MYO6 RAB3GAP1 Any process that modulates the frequency, rate or extent of phagocytosis, the proces ALOX15	50.00 7/14 7.14 1/14	0.13 7/5231 1.49 1/67	0,167845322 0,167845322
GO:0051049	regulation of transport	Any process that modulates the frequency, rate or extent of the directed movement ALOX15 MYO6 SURF4	21.43 3/14	0.25 3/1201	0,167845322
GO:0099024 GO:0032273	plasma membrane invagination positive regulation of protein polymerization	An infolding of the plasma membrane. ALOX15 Any process that activates or increases the frequency, rate or extent of the process o ALOX15	7.14 1/14 7.14 1/14	1.43 1/70 1.41 1/71	0,168440961 0,168484318
	cellular response to calcium ion	Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15	7.14 1/14	1.41 1/71	0,168484318
	columnar/cuboidal epithelial cell differentiation carbohydrate derivative biosynthetic process	The process in which a relatively unspecialized cell acquires specialized features of a FASN The chemical reactions and pathways resulting in the formation of carbohydrate deri COASY RPN1	7.14 1/14 14.29 2/14	1.39 1/72 0.38 2/521	0,169656074 0,170716373
	lipid biosynthetic process	The chemical reactions and pathways resulting in the formation of lipids, compounds ALOX15 FASN Any process that modulates the frequency, rate or extent of signal transduction medi ALOX15 STK38	14.29 2/14	0.38 2/525	0,170799473
	regulation of MAPK cascade membrane invagination	The infolding of a membrane. ALOX15	14.29 2/14 7.14 1/14	0.38 2/524 1.32 1/76	0,170799473 0,17417539
	localization within membrane endothelial cell differentiation	Any process in which a substance or cellular entity, such as a protein complex or org: RAB3GAP1 RAB3GAP2 The process in which a mesodermal, bone marrow or neural crest cell acquires specii FASN	14.29 2/14 7.14 1/14	0.37 2/541 1.23 1/81	0,177896317 0,181772047
GO:0016192	vesicle-mediated transport	A cellular transport process in which transported substances are moved in membrani ALOX15 MYO6 SURF4	21.43 3/14	0.24 3/1276	0,181772047
	ribonucleoside bisphosphate metabolic process fatty acid oxidation	The chemical reactions and pathways involving a ribonucleoside bisphosphate, a com COASY The removal of one or more electrons from a fatty acid, with or without the concomi ALOX15	7.14 1/14 7.14 1/14	1.16 1/86 1.19 1/84	0,184408033 0,184408033
GO:0006690	icosanoid metabolic process	The chemical reactions and pathways involving icosanoids, any of a group of C20 poly ALOX15	7.14 1/14	1.16 1/86	0,184408033
	regulation of lipid transport purine nucleoside bisphosphate metabolic process	Any process that modulates the frequency, rate or extent of the directed movement SURF4 The chemical reactions and pathways involving a purine nucleoside bisphosphate, a c COASY	7.14 1/14 7.14 1/14	1.19 1/84 1.16 1/86	0,184408033 0,184408033
	nucleoside bisphosphate metabolic process	The chemical reactions and pathways involving a nucleoside bisphosphate, a compou COASY	7.14 1/14	1.16 1/86	0,184408033
GO:0036211	negative regulation of protein serine/threonine kinase activity protein modification process	Any process that decreases the rate, frequency, or extent of protein serine/threonint STK38 The covalent alteration of one or more amino acids occurring in proteins, peptides at RAB3GAP1 RAB3GAP2 RPN1 STK38 UBA	7.14 1/14 35.71 5/14	1.19 1/84 0.15 5/3236	0,184408033 0,188120909
	positive regulation of cell-substrate adhesion endothelium development	Any process that increases the frequency, rate or extent of cell-substrate adhesion. C ALOX15 The process whose specific outcome is the progression of an endothelium over time, FASN	7.14 1/14 7.14 1/14	1.11 1/90 1.12 1/89	0,188120909 0.188120909
GO:0006464	cellular protein modification process	The covalent alteration of one or more amino acids occurring in proteins, peptides at RAB3GAP1 RAB3GAP2 RPN1 STK38 UBA		0.15 5/3236	0,188120909
	lipid oxidation MAPK cascade	The removal of one or more electrons from a lipid, with or without the concomitant i ALOX15 An intracellular protein kinase cascade containing at least a MAPK, a MAPKK and a M ALOX15 STK38	7.14 1/14 14.29 2/14	1.10 1/91 0.34 2/591	0,189018224 0,189706905
GO:0033559	unsaturated fatty acid metabolic process	The chemical reactions and pathways involving an unsaturated fatty acid, any fatty ac ALOX15	7.14 1/14	1.08 1/93	0,190777301
	bone mineralization regulation of cellular catabolic process	The deposition of hydroxyapatite, a form of calcium phosphate with the formula Ca1 ALOX15 Any process that modulates the frequency, rate or extent of the chemical reactions a RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	1.05 1/95 0.33 2/613	0,193616032 0,198814088
GO:0051592	response to calcium ion cellular detoxification	Any process that results in a change in state or activity of a cell or an organism (in ter ALOX15	7.14 1/14	0.96 1/104 0.95 1/105	0,208903999
	cellular response to toxic substance	Any process carried out at the cellular level that reduces or removes the toxicity of a ABCG2 Any process that results in a change in state or activity of a cell (in terms of movemer ABCG2	7.14 1/14 7.14 1/14	0.95 1/105	0,209633292 0,21050944
	metabolic process regulation of lipid localization	The chemical reactions and pathways, including anabolism and catabolism, by which ABCG2 ALOX15 COASY FASN MYO6 RAE Any process that modulates the frequency, rate or extent of lipid localization. SURF4	85.71 12/14 7.14 1/14	0.09 12/1291! 0.91 1/110	0,21050944
GO:0034645	cellular macromolecule biosynthetic process	The chemical reactions and pathways resulting in the formation of a macromolecule, RAB3GAP1 RAB3GAP2 RPN1	21.43 3/14	0.21 3/1449	0,21050944
	macromolecule modification cellular response to cytokine stimulus	The covalent alteration of one or more monomeric units in a polypeptide, polynuclec RAB3GAP1 RAB3GAP2 RPN1 STK38 UBA Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15 FASN	35.71 5/14 14.29 2/14	0.15 5/3413 0.30 2/660	0,21050944
GO:0120254	olefinic compound metabolic process	The chemical reactions and pathways involving an olefinic compound, any compounc ALOX15	7.14 1/14	0.89 1/112	0,21050944
	Golgi organization signal transduction by p53 class mediator	A process that is carried out at the cellular level which results in the assembly, arrang SURF4 An intracellular signaling process that is induced by the cell cycle regulator phosphop MYO6	7.14 1/14 7.14 1/14	0.88 1/113 0.90 1/111	0,21050944 0,21050944
GO:0033036	macromolecule localization	Any process in which a macromolecule is transported to, or maintained in, a specific MYO6 RAB3GAP1 RAB3GAP2 SURF4	28.57 4/14	0.17 4/2363	0,21050944
	mammary gland development negative regulation of immune response	The process whose specific outcome is the progression of the mammary gland over t FASN Any process that stops, prevents, or reduces the frequency, rate or extent of the imm ALOX15	7.14 1/14 7.14 1/14	0.89 1/112 0.88 1/113	0,21050944 0,21050944
	cellular response to stress	Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15 MYO6 UBA1	21.43 3/14	0.21 3/1463	0,211100224
	cellular response to DNA damage stimulus detoxification		14.29 2/14 7.14 1/14	0.30 2/668 0.85 1/118	0,211396823 0,215988336
	lipid homeostasis primary metabolic process	Any process involved in the maintenance of an internal steady state of lipid within an SURF4 The chemical reactions and pathways involving those compounds which are formed a ALOX15 COASY FASN MYO6 RAB3GAP1	7.14 1/14	0.83 1/120 0.10 11/11429	0,21835313 0,22137561
GO:0031214	biomineral tissue development	Formation of hard tissues that consist mainly of inorganic compounds, and also conta ALOX15	7.14 1/14	0.80 1/125	0,22355731
	sensory perception of sound organonitrogen compound metabolic process	The series of events required for an organism to receive an auditory stimulus, conver MYO6 The chemical reactions and pathways involving organonitrogen compound. COASY RAB3GAP1 RAB3GAP2 RPN1 STK	7.14 1/14	0.80 1/125	0,22355731
GO:0110148	biomineralization	The process where mineral crystals are formed and deposited in an organized fashior ALOX15	7.14 1/14	0.79 1/127	0,223755991
	negative regulation of MAPK cascade response to cytokine	Any process that stops, prevents, or reduces the frequency, rate or extent of signal tr STK38 Any process that results in a change in state or activity of a cell or an organism (in ter ALOX15 FASN	7.14 1/14 14.29 2/14	0.79 1/127 0.28 2/713	0,223755991 0.224681351
GO:0003018	vascular process in circulatory system	A circulatory process that occurs at the level of the vasculature. ABCG2	7.14 1/14	0.78 1/129	0,224681351
	regulation of endocytosis cellular response to metal ion	Any process that modulates the frequency, rate or extent of endocytosis. ALOX15 Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15	7.14 1/14 7.14 1/14	0.77 1/130 0.76 1/131	0,225128826 0,225654031
	regulation of actin filament polymerization electron transport chain	Any process that modulates the frequency, rate or extent of the assembly of actin file ALOX15 A process in which a series of electron carriers operate together to transfer electrons SDHA	7.14 1/14 7.14 1/14	0.76 1/132 0.75 1/133	0,22617294 0,22668565
GO:0019752	carboxylic acid metabolic process	The chemical reactions and pathways involving carboxylic acids, any organic acid cont ALOX15 FASN	14.29 2/14	0.27 2/736	0,226949411
	cellular metabolic process sensory perception of mechanical stimulus	The chemical reactions and pathways by which individual cells transform chemical su ABCG2 ALOX15 COASY FASN MYO6 RAE The series of events required for an organism to receive a sensory mechanical stimul MYO6	78.57 11/14 7.14 1/14	0.09 11/1158: 0.74 1/136	0,226949411
GO:0033365	protein localization to organelle	A process in which a protein is transported to, or maintained in, a location within an RAB3GAP1 RAB3GAP2	14.29 2/14	0.27 2/729	0,226949411
	regulation of catabolic process nitrogen compound transport	Any process that modulates the frequency, rate, or extent of the chemical reactions a RAB3GAP1 RAB3GAP2 The directed movement of nitrogen-containing compounds into, out of or within a ce ABCG2 MYO6 SURF4	14.29 2/14 21.43 3/14	0.27 2/732 0.19 3/1587	0,226949411 0,228405969
GO:0043436	oxoacid metabolic process regulation of MAP kinase activity	The chemical reactions and pathways involving any oxoacid; an oxoacid is a compour ALOX15 FASN	14.29 2/14	0.27 2/745	0,228405969
	positive regulation of supramolecular fiber organization	Any process that modulates the frequency, rate or extent of MAP kinase activity. STK38 Any process that activates or increases the frequency, rate or extent of supramolecul ALOX15	7.14 1/14 7.14 1/14	0.72 1/139 0.70 1/142	0,228405969 0,229327675
	cellular response to inorganic substance positive regulation of cellular biosynthetic process	Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15 Any process that activates or increases the frequency, rate or extent of the chemical MYO6 RAB3GAP1 RAB3GAP2	7.14 1/14 21.43 3/14	0.70 1/143 0.19 3/1596	0,229327675 0,229327675
GO:0042770	signal transduction in response to DNA damage	A cascade of processes induced by the detection of DNA damage within a cell. MYO6	7.14 1/14	0.70 1/143	0,229327675
	positive regulation of ERK1 and ERK2 cascade regulation of actin polymerization or depolymerization	Any process that activates or increases the frequency, rate or extent of signal transdu ALOX15 Any process that modulates the frequency, rate or extent of the assembly or disasser ALOX15	7.14 1/14 7.14 1/14	0.68 1/147 0.68 1/147	0,230065715 0,230065715
GO:0009152	purine ribonucleotide biosynthetic process	The chemical reactions and pathways resulting in the formation of a purine ribonucle COASY	7.14 1/14	0.68 1/146	0,230065715
	positive regulation of biosynthetic process regulation of actin filament length	7,	21.43 3/14 7.14 1/14	0.19 3/1617 0.68 1/147	0,230065715 0,230065715
	positive regulation of protein-containing complex assembly	Any process that activates or increases the frequency, rate or extent of protein comp ALOX15	7.14 1/14	0.68 1/148	0,230504212
	actin filament polymerization positive regulation of protein modification process	Assembly of actin filaments by the addition of actin monomers to a filament. ALOX15 Any process that activates or increases the frequency, rate or extent of the covalent (RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	0.67 1/149 0.26 2/774	0,230576642 0,230576642
	regulation of adaptive immune response response to toxic substance	Any process that modulates the frequency, rate, or extent of an adaptive immune re: ALOX15 Any process that results in a change in state or activity of a cell or an organism (in ter ABCG2	7.14 1/14 7.14 1/14	0.66 1/151 0.66 1/151	0,230755608
GO:0006469	negative regulation of protein kinase activity	Any process that stops, prevents, or reduces the frequency, rate or extent of protein STK38	7.14 1/14	0.63 1/158	0,232606043
	positive regulation of cytoskeleton organization organelle assembly	Any process that activates or increases the frequency, rate or extent of the formation ALOX15 The aggregation, arrangement and bonding together of a set of components to form RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	0.63 1/158 0.25 2/786	0,232606043 0,232606043
GO:0046474	glycerophospholipid biosynthetic process ribonucleotide biosynthetic process	The chemical reactions and pathways resulting in the formation of glycerophospholic ALOX15 The chemical reactions and pathways resulting in the formation of a ribonucleotide, i COASY	7.14 1/14 7.14 1/14	0.64 1/156 0.63 1/158	0,232606043
GO:0010810	regulation of cell-substrate adhesion	Any process that modulates the frequency, rate or extent of cell-substrate adhesion. ALOX15	7.14 1/14	0.65 1/155	0,232606043
	myeloid leukocyte differentiation organophosphate metabolic process	The process in which a relatively unspecialized myeloid precursor cell acquires the sp FASN The chemical reactions and pathways involving organophosphates, any phosphate-cc ALOX15 COASY	7.14 1/14 14.29 2/14	0.64 1/157 0.25 2/793	0,232606043 0,232606043
GO:0002064	epithelial cell development	The process whose specific outcome is the progression of an epithelial cell over time, FASN	7.14 1/14	0.62 1/161	0,2357793
	purine nucleotide biosynthetic process regulation of hydrolase activity	The chemical reactions and pathways resulting in the formation of a purine nucleotid COASY Any process that modulates the frequency, rate or extent of hydrolase activity, the ca RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	0.61 1/163 0.24 2/819	0,237536347 0,238615353
GO:0046390	ribose phosphate biosynthetic process	The chemical reactions and pathways resulting in the formation of ribose phosphate, COASY	7.14 1/14	0.61 1/165	0,238615353
GO:0072522	aerobic respiration purine-containing compound biosynthetic process	The enzymatic release of energy from inorganic and organic compounds (especially c SDHA The chemical reactions and pathways resulting in the formation of a purine-containir COASY	7.14 1/14 7.14 1/14	0.59 1/169 0.58 1/172	0,242697197 0,244704036
GO:0033673	negative regulation of kinase activity actin polymerization or depolymerization	Any process that stops, prevents, or reduces the frequency, rate or extent of kinase a STK38 Assembly or disassembly of actin filaments by the addition or removal of actin monoi ALOX15	7.14 1/14 7.14 1/14	0.58 1/172 0.57 1/174	0,244704036 0,246360704
GO:1901617	organic hydroxy compound biosynthetic process	The chemical reactions and pathways resulting in the formation of organic hydroxy cr ALOX15	7.14 1/14	0.57 1/175	0,246669739
GO:0044255	cellular lipid metabolic process regulation of protein polymerization	The chemical reactions and pathways involving lipids, as carried out by individual cell ALOX15 FASN Any process that modulates the frequency, rate or extent of the process of creating pt ALOX15	14.29 2/14 7.14 1/14	0.23 2/852 0.56 1/178	0,248595335 0,248595335
GO:0019538	protein metabolic process	The chemical reactions and pathways involving a protein. Includes protein modificati RAB3GAP1 RAB3GAP2 RPN1 STK38 UBA	42.86 6/14	0.12 6/5108	0,251179609
	carbohydrate derivative metabolic process phospholipid biosynthetic process	The chemical reactions and pathways involving carbohydrate derivative. COASY RPN1 The chemical reactions and pathways resulting in the formation of a phospholipid, a I ALOX15	14.29 2/14 7.14 1/14	0.23 2/870 0.54 1/185	0,254247743 0,254651631
GO:0030258	lipid modification	The covalent alteration of one or more fatty acids in a lipid, resulting in a change in tl ALOX15	7.14 1/14	0.53 1/187	0,256199111
GO:0006909 GO:0045017	phagocytosis glycerolipid biosynthetic process	A vesicle-mediated transport process that results in the engulfment of external partic ALOX15 The chemical reactions and pathways resulting in the formation of glycerolipids, any ALOX15	7.14 1/14 7.14 1/14	0.53 1/188 0.53 1/190	0,256448824 0,257971654
GO:0044248	cellular catabolic process	The chemical reactions and pathways resulting in the breakdown of substances, carri RAB3GAP1 RAB3GAP2 UBA1	21.43 3/14 7.14 1/14	0.17 3/1814	0,26024157 0,260971001
GO:0051348	response to metal ion negative regulation of transferase activity	Any process that results in a change in state or activity of a cell or an organism (in ter ALOX15 Any process that stops or reduces the rate of transferase activity, the catalysis of the STK38	7.14 1/14	0.52 1/194 0.51 1/196	0,262447894
	macromolecule glycosylation protein glycosylation	The covalent attachment of a glycosyl residue to one or more monomeric units in a p RPN1 A protein modification process that results in the addition of a carbohydrate or carbc RPN1	7.14 1/14 7.14 1/14	0.49 1/203 0.49 1/203	0,269080263 0.269080263
GO:0043547	positive regulation of GTPase activity	Any process that activates or increases the activity of a GTPase. RAB3GAP1	7.14 1/14	0.48 1/207	0,269784649
	cellular respiration regulation of catalytic activity	The enzymatic release of energy from inorganic and organic compounds (especially c SDHA Any process that modulates the activity of an enzyme. RAB3GAP1 RAB3GAP2 STK38	7.14 1/14 21.43 3/14	0.49 1/206 0.16 3/1868	0,269784649 0,269784649
GO:0030522	intracellular receptor signaling pathway	Any series of molecular signals initiated by a ligand binding to an receptor located wi ALOX15	7.14 1/14	0.49 1/205	0,269784649
GO:0032268	regulation of ERK1 and ERK2 cascade regulation of cellular protein metabolic process	Any process that modulates the frequency, rate or extent of signal transduction medi ALOX15 Any process that modulates the frequency, rate or extent of the chemical reactions a RAB3GAP1 RAB3GAP2 STK38	7.14 1/14 21.43 3/14	0.47 1/211 0.16 3/1884	0,272535417 0,272535417
GO:0009165	nucleotide biosynthetic process regulation of inflammatory response	The chemical reactions and pathways resulting in the formation of nucleotides, any n COASY Any process that modulates the frequency, rate or extent of the inflammatory respor ALOX15	7.14 1/14 7.14 1/14	0.46 1/217 0.46 1/218	0,278679013 0,278806018
GO:0070085	glycosylation	The covalent attachment and further modification of carbohydrate residues to a subs RPN1	7.14 1/14	0.45 1/220	0,279054825
	nucleoside phosphate biosynthetic process ERK1 and ERK2 cascade	The chemical reactions and pathways resulting in the formation of a nucleoside phos COASY An intracellular protein kinase cascade containing at least ERK1 or ERK2 (MAPKs), a N ALOX15	7.14 1/14 7.14 1/14	0.45 1/220 0.45 1/224	0,279054825 0,281633931
GO:0034976	response to endoplasmic reticulum stress	Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15	7.14 1/14	0.45 1/224	0,281633931
GO:0071704 GO:0051179	organic substance metabolic process localization	The chemical reactions and pathways involving an organic substance, any molecular r ABCG2 ALOX15 COASY FASN MYO6 RAE Any process in which a cell, a substance, or a cellular entity, such as a protein comple ABCG2 ALOX15 MYO6 RAB3GAP1 RAB3		0.09 11/1236(0.11 6/5413	0,285763876 0,285763876

	regulation of actin filament organization	Any process that modulates the frequency, rate or extent of actin filament organizati ALOX15	7.14 1/14	0.43 1/231	0,2865579
GO:0071702	protein polymerization organic substance transport	The process of creating protein polymers, compounds composed of a large number c ALOX15 The directed movement of organic substances into, out of or within a cell, or betwee ABCG2 MYO6 SURF4	7.14 1/14 21.43 3/14	0.43 1/234 0.15 3/1968	0,28786274 0,28786274
GO:0001933 GO:0051246	negative regulation of protein phosphorylation regulation of protein metabolic process	Any process that stops, prevents or reduces the rate of addition of phosphate groups STK38 Any process that modulates the frequency, rate or extent of the chemical reactions a RAB3GAP1 RAB3GAP2 STK38	7.14 1/14 21.43 3/14	0.41 1/242 0.15 3/2025	0,295857355 0.303727112
GO:0030900	forebrain development	The process whose specific outcome is the progression of the forebrain over time, frc RAB3GAP1	7.14 1/14	0.38 1/260	0,310489732
GO:0051716 GO:0042060	cellular response to stimulus wound healing	Any process that results in a change in state or activity of a cell (in terms of movemer ABCG2 ALOX15 FASN GNG12 MYO6 STI The series of events that restore integrity to a damaged tissue, following an injury. ALOX15	7.14 1/14	0.10 7/6878 0.38 1/260	0,310489732 0,310489732
GO:0032879	regulation of localization	Any process that modulates the frequency, rate or extent of any process in which a o ALOX15 MYO6 SURF4 The chemical reactions and pathways involving glycerophospholipids, any derivative ALOX15	21.43 3/14 7.14 1/14	0.15 3/2055 0.38 1/262	0,310489732 0,311060407
	glycerophospholipid metabolic process camera-type eye development	The process whose specific outcome is the progression of the camera-type eye over t RAB3GAP1	7.14 1/14	0.38 1/264	0,311060407
GO:0032270 GO:0009101	positive regulation of cellular protein metabolic process glycoprotein biosynthetic process	Any process that activates or increases the frequency, rate or extent of the chemical RAB3GAP1 RAB3GAP2 The chemical reactions and pathways resulting in the formation of glycoproteins, a pr RPN1	14.29 2/14 7.14 1/14	0.19 2/1072 0.38 1/263	0,311060407 0.311060407
GO:0031589	cell-substrate adhesion	The attachment of a cell to the underlying substrate via adhesion molecules. ALOX15	7.14 1/14	0.37 1/268	0,313430852
	negative regulation of phosphorylation intracellular signal transduction	Any process that stops, prevents or decreases the rate of addition of phosphate grou STK38 The process in which a signal is passed on to downstream components within the cel ALOX15 MYO6 STK38	7.14 1/14 21.43 3/14	0.37 1/271 0.14 3/2097	0,314677943 0,314677943
GO:0009056 GO:0015980	catabolic process energy derivation by oxidation of organic compounds	The chemical reactions and pathways resulting in the breakdown of substances, inclu RAB3GAP1 RAB3GAP2 UBA1 The chemical reactions and pathways by which a cell derives energy from organic cor SDHA	21.43 3/14 7.14 1/14	0.14 3/2106 0.36 1/280	0,316443963
GO:0032535	regulation of cellular component size	A process that modulates the size of a cellular component. ALOX15	7.14 1/14	0.35 1/289	0,321965047
	regulation of protein serine/threonine kinase activity myeloid cell differentiation	Any process that modulates the rate, frequency, or extent of protein serine/threonin STK38 The process in which a relatively unspecialized myeloid precursor cell acquires the sp FASN	7.14 1/14 7.14 1/14	0.35 1/282 0.34 1/290	0,321965047 0,321965047
GO:0006629 GO:0018193	lipid metabolic process peptidyl-amino acid modification	The chemical reactions and pathways involving lipids, compounds soluble in an orgar ALOX15 FASN The alteration of an amino acid residue in a pertide. RPN1 STK38	14.29 2/14 14.29 2/14	0.18 2/1124 0.18 2/1125	0,321965047 0.321965047
GO:0018193 GO:0018105	peptidyl-serine phosphorylation	The phosphorylation of an amino acid residue in a peptide. The phosphorylation of peptidyl-serine to form peptidyl-O-phospho-L-serine. STK38	7.14 1/14	0.18 2/1125	0,321965047
GO:0048522 GO:0044267	positive regulation of cellular process cellular protein metabolic process	Any process that activates or increases the frequency, rate or extent of a cellular prov ALOX15 MYO6 RAB3GAP1 RAB3GAP2 RAB3GAP2 The chemical reactions and pathways involving a specific protein, rather than of prob RAB3GAP1 RAB3GAP2 RPN1 STK38 UB/		0.11 5/4480 0.11 5/4461	0,321965047 0,321965047
GO:0001503	ossification	The formation of bone or of a bony substance, or the conversion of fibrous tissue or ALOX15	7.14 1/14	0.35 1/289	0,321965047
GO:0002683 GO:0051247	negative regulation of immune system process positive regulation of protein metabolic process	Any process that stops, prevents, or reduces the frequency, rate, or extent of an imm ALOX15 Any process that activates or increases the frequency, rate or extent of the chemical RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	0.34 1/294 0.17 2/1145	0,324892169 0,325252644
	regulation of actin cytoskeleton organization organelle organization	Any process that modulates the frequency, rate or extent of the formation, arrangerr ALOX15 A process that is carried out at the cellular level which results in the assembly, arrang ALOX15 RAB3GAP1 RAB3GAP2 SURF4	7.14 1/14 28.57 4/14	0.34 1/296 0.12 4/3330	0,325252644 0,327557611
GO:0009150	purine ribonucleotide metabolic process	The chemical reactions and pathways involving a purine ribonucleotide, a compound COASY	7.14 1/14	0.33 1/301	0,327557611
GO:0015711 GO:0048732	organic anion transport gland development	The directed movement of organic anions into, out of or within a cell, or between cel ABCG2 The process whose specific outcome is the progression of a gland over time, from its FASN	7.14 1/14 7.14 1/14	0.33 1/306 0.33 1/306	0,328008547 0.328008547
	response to inorganic substance peptidyl-serine modification	Any process that results in a change in state or activity of a cell or an organism (in ter ALOX15	7.14 1/14 7.14 1/14	0.33 1/304 0.33 1/306	0,328008547 0,328008547
GO:0001654	eye development	The modification of peptidyl-serine. STK38 The process whose specific outcome is the progression of the eye over time, from its RAB3GAP1	7.14 1/14	0.32 1/309	0,329825804
GO:0150063 GO:0045936	visual system development negative regulation of phosphate metabolic process	The process whose specific outcome is the progression of the visual system over time RAB3GAP1 Any process that stops, prevents, or reduces the frequency, rate or extent of the chei STK38	7.14 1/14 7.14 1/14	0.32 1/312 0.31 1/321	0,331625508 0,332874665
GO:0002250	adaptive immune response	An immune response mediated by cells expressing specific receptors for antigen proi ALOX15	7.14 1/14	0.31 1/325	0,332874665
	regulation of supramolecular fiber organization ribose phosphate metabolic process	Any process that modulates the frequency, rate or extent of supramolecular fiber ore ALOX15 The chemical reactions and pathways involving ribose phosphate, any phosphorylate COASY	7.14 1/14 7.14 1/14	0.32 1/315 0.31 1/327	0,332874665 0,332874665
GO:0006163	purine nucleotide metabolic process response to wounding	The chemical reactions and pathways involving a purine nucleotide, a compound con COASY Any process that results in a change in state or activity of a cell or an organism (in ter ALOX15	7.14 1/14 7.14 1/14	0.31 1/323 0.31 1/326	0,332874665 0,332874665
GO:0010563	negative regulation of phosphorus metabolic process	Any process that decreases the frequency, rate or extent of the chemical reactions ar STK38	7.14 1/14	0.31 1/321	0,332874665
	regulation of actin filament-based process sensory system development	Any process that modulates the frequency, rate or extent of any cellular process that ALOX15 The process whose specific outcome is the progression of a sensory system over time RAB3GAP1	7.14 1/14 7.14 1/14	0.31 1/324 0.32 1/317	0,332874665 0,332874665
GO:0009100	glycoprotein metabolic process	The chemical reactions and pathways involving glycoproteins, a protein that contains RPN1	7.14 1/14	0.31 1/325	0,332874665
GO:0015031 GO:0009259	protein transport ribonucleotide metabolic process	The directed movement of proteins into, out of or within a cell, or between cells, by I MYO6 SURF4 The chemical reactions and pathways involving a ribonucleotide, a compound consist COASY	14.29 2/14 7.14 1/14	0.17 2/1193 0.31 1/318	0,332874665 0,332874665
	regulation of protein-containing complex assembly lipid transport	Any process that modulates the frequency, rate or extent of protein complex assemb ALOX15 The directed movement of lipids into, out of or within a cell, or between cells, by me. SURF4	7.14 1/14 7.14 1/14	0.30 1/330 0.30 1/332	0,334559013 0,335323418
GO:0048585	negative regulation of response to stimulus	Any process that stops, prevents, or reduces the frequency, rate or extent of a respoi ALOX15 STK38	14.29 2/14	0.16 2/1236	0,338622473
GO:0006644 GO:0003013	phospholipid metabolic process circulatory system process	The chemical reactions and pathways involving phospholipids, any lipid containing pt ALOX15 A organ system process carried out by any of the organs or tissues of the circulatory: ABCG2	7.14 1/14 7.14 1/14	0.30 1/338 0.29 1/342	0,338622473 0,341139127
GO:0045785	positive regulation of cell adhesion	Any process that activates or increases the frequency, rate or extent of cell adhesion. ALOX15	7.14 1/14	0.29 1/345	0,342402026
GO:0072521	glycerolipid metabolic process purine-containing compound metabolic process	The chemical reactions and pathways involving glycerolipids, any lipid with a glycerol ALOX15 The chemical reactions and pathways involving a purine-containing compound, i.e. at COASY	7.14 1/14 7.14 1/14	0.29 1/347 0.29 1/346	0,342402026 0,342402026
GO:1903131 GO:1902531	mononuclear cell differentiation regulation of intracellular signal transduction	The process in which a relatively unspecialized cell acquires the specialized features (FASN Any process that modulates the frequency, rate or extent of intracellular signal transi ALOX15 STK38	7.14 1/14 14.29 2/14	0.29 1/349 0.16 2/1270	0,343106388 0,346325081
GO:0070887	cellular response to chemical stimulus	Any process that results in a change in state or activity of a cell (in terms of movemer ABCG2 ALOX15 FASN	21.43 3/14	0.13 3/2376	0,351908037
	lipid localization positive regulation of MAPK cascade	Any process in which a lipid is transported to, or maintained in, a specific location. SURF4 Any process that activates or increases the frequency, rate or extent of signal transdu. ALOX15	7.14 1/14 7.14 1/14	0.27 1/373 0.27 1/373	0,358463952 0,358463952
GO:0006796 GO:0031347	phosphate-containing compound metabolic process regulation of defense response	The chemical reactions and pathways involving the phosphate group, the anion or sa ALOX15 COASY STK38 Any process that modulates the frequency, rate or extent of a defense response. ALOX15	21.43 3/14 7.14 1/14	0.12 3/2404 0.27 1/376	0,358463952 0,359922713
GO:0090066	regulation of anatomical structure size	Any process that modulates the size of an anatomical structure. ALOX15	7.14 1/14	0.26 1/379	0,360289038
GO:0006793 GO:0065009	phosphorus metabolic process regulation of molecular function	The chemical reactions and pathways involving the nonmetallic element phosphorus ALOX15 COASY STK38 Any process that modulates the frequency, rate or extent of a molecular function, an RAB3GAP1 RAB3GAP2 STK38	21.43 3/14 21.43 3/14	0.12 3/2425 0.12 3/2439	0,360289038 0,362888591
GO:0060627	regulation of vesicle-mediated transport	Any process that modulates the rate, frequency, or extent of vesicle-mediated transp ALOX15	7.14 1/14 7.14 1/14	0.26 1/385 0.26 1/386	0,362888591 0,362888591
GO:0031400	generation of precursor metabolites and energy negative regulation of protein modification process	The chemical reactions and pathways resulting in the formation of precursor metabo SDHA Any process that stops, prevents, or reduces the frequency, rate or extent of the cox; STK38	7.14 1/14	0.26 1/388	0,362888591
	actin filament organization positive regulation of nitrogen compound metabolic process	A process that is carried out at the cellular level which results in the assembly, arrang ALOX15 Any process that activates or increases the frequency, rate or extent of the chemical MYO6 RAB3GAP1 RAB3GAP2	7.14 1/14 21.43 3/14	0.25 1/396 0.12 3/2473	0,367859268 0.367859268
GO:1901615	organic hydroxy compound metabolic process	The chemical reactions and pathways involving organic hydroxy compound. ALOX15	7.14 1/14	0.25 1/398	0,368405099
	regulation of secretion nucleotide metabolic process	Any process that modulates the frequency, rate or extent of the controlled release of MYO6 The chemical reactions and pathways involving a nucleotide, a nucleoside that is este COASY	7.14 1/14 7.14 1/14	0.25 1/400 0.25 1/402	0,368945616 0,369480867
GO:0048518 GO:0006753	positive regulation of biological process nucleoside phosphate metabolic process	Any process that activates or increases the frequency, rate or extent of a biological pi ALOX15 MYO6 RAB3GAP1 RAB3GAP2 S The chemical reactions and pathways involving any phosphorylated nucleoside. COASY	35.71 5/14 7.14 1/14	0.10 5/4958 0.24 1/412	0,371419844
GO:1902532	negative regulation of intracellular signal transduction	Any process that stops, prevents or reduces the frequency, rate or extent of intracelli STK38	7.14 1/14	0.24 1/415	0,376595525
	positive regulation of hydrolase activity regulation of cytoskeleton organization	Any process that activates or increases the frequency, rate or extent of hydrolase act: RAB3GAP1 Any process that modulates the frequency, rate or extent of the formation, arrangem ALOX15	7.14 1/14 7.14 1/14	0.24 1/420 0.23 1/437	0,379443534
GO:0009888	tissue development	The process whose specific outcome is the progression of a tissue over time, from its ALOX15 FASN	14.29 2/14	0.14 2/1431	0,387147008 0.387147008
	leukocyte differentiation cellular macromolecule localization	The process in which a relatively unspecialized hemopoietic precursor cell acquires tl FASN Any process in which a macromolecule is transported to, and/or maintained in, a spe RAB3GAP1 RAB3GAP2	7.14 1/14 14.29 2/14	0.23 1/437 0.14 2/1438	0,387147008
	cellular protein localization animal organ development	Any process in which a protein is transported to, and/or maintained in, a specific loca RAB3GAP1 RAB3GAP2 Development of a tissue or tissues that work together to perform a specific function (ALOX15 FASN RAB3GAP1	14.29 2/14	0.14 2/1432 0.11 3/2612	0,387147008 0.393979871
GO:0006820	anion transport	The directed movement of anions, atoms or small molecules with a net negative char ABCG2	7.14 1/14	0.22 1/449	0,394057858
GO:0031325 GO:0007420	positive regulation of cellular metabolic process brain development	Any process that activates or increases the frequency, rate or extent of the chemical MYO6 RAB3GAP1 RAB3GAP2 The process whose specific outcome is the progression of the brain over time, from il RAB3GAP1	21.43 3/14 7.14 1/14	0.11 3/2631 0.22 1/463	0,397235582 0,401731499
GO:0006810	transport sensory organ development	The directed movement of substances (such as macromolecules, small molecules, ior ABCG2 ALOX15 MYO6 SURF4 The process whose specific outcome is the progression of sensory organs over time, I RAB3GAP1	28.57 4/14 7.14 1/14	0.10 4/3886 0.21 1/472	0,401731499
	inflammatory response	The immediate defensive reaction (by vertebrate tissue) to infection or injury caused ALOX15	7.14 1/14	0.21 1/472	0,404447914
	epithelial cell differentiation nucleobase-containing small molecule metabolic process	The process in which a relatively unspecialized cell acquires specialized features of ar FASN The cellular chemical reactions and pathways involving a nucleobase-containing smal COASY	7.14 1/14 7.14 1/14	0.21 1/470 0.21 1/477	0,404447914 0,406969069
GO:0045859	regulation of protein kinase activity response to stimulus	Any process that modulates the frequency, rate or extent of protein kinase activity. STK38 Any process that results in a change in state or activity of a cell or an organism (in ter ABCG2 ALOX15 FASN GNG12 MYO6 STI	7.14 1/14	0.20 1/496	0,419526731 0.422196861
GO:0060322	head development	The biological process whose specific outcome is the progression of a head from an ii RAB3GAP1	7.14 1/14	0.20 1/503	0,422196861
GO:0044260 GO:0010604	cellular macromolecule metabolic process positive regulation of macromolecule metabolic process	The chemical reactions and pathways involving macromolecules, any molecule of hig RAB3GAP1 RAB3GAP2 RPN1 STK38 UB/ Any process that increases the frequency, rate or extent of the chemical reactions an MYOG RAB3GAP1 RAB3GAP2	35.71 5/14 21.43 3/14	0.09 5/5305 0.11 3/2795	0,422907028 0,431608859
GO:0006950	response to stress	Any process that results in a change in state or activity of a cell or an organism (in ter ALOX15 MYO6 UBA1	21.43 3/14	0.11 3/2809	0,433232234
	phosphorylation negative regulation of catalytic activity	The process of introducing a phosphate group into a molecule, usually with the form COASY STK38 Any process that stops or reduces the activity of an enzyme. STK38	14.29 2/14 7.14 1/14	0.12 2/1608 0.18 1/555	0,433232234 0,452200249
GO:0006508		The hydrolysis of proteins into smaller polypeptides and/or amino acids by cleavage (UBA1 UQCRC2 Any process that modulates the frequency, rate or extent of attachment of a cell to a ALOX15	14.29 2/14 7.14 1/14	0.12 2/1674 0.17 1/573	0,455234821 0,461780117
GO:0043549	regulation of kinase activity	Any process that modulates the frequency, rate or extent of kinase activity, the cataly STK38	7.14 1/14	0.17 1/588	0,469810606
	ubiquitin-dependent protein catabolic process modification-dependent protein catabolic process	The chemical reactions and pathways resulting in the breakdown of a protein or pept UBA1 The chemical reactions and pathways resulting in the breakdown of a protein or pept UBA1	7.14 1/14 7.14 1/14	0.17 1/589 0.17 1/603	0,469810606 0,477629579
GO:0030036	actin cytoskeleton organization	A process that is carried out at the cellular level which results in the assembly, arrang ALOX15	7.14 1/14	0.16 1/611	0,480214438
GO:0050776	modification-dependent macromolecule catabolic process regulation of immune response	The chemical reactions and pathways resulting in the breakdown of a macromolecule UBA1 Any process that modulates the frequency, rate or extent of the immune response, tl ALOX15	7.14 1/14 7.14 1/14	0.16 1/611 0.16 1/616	0,480214438 0,482120952
	membrane organization positive regulation of metabolic process	A process which results in the assembly, arrangement of constituent parts, or disasse ALOX15 Any process that activates or increases the frequency, rate or extent of the chemical MYO6 RAB3GAP1 RAB3GAP2	7.14 1/14 21.43 3/14	0.16 1/620 0.10 3/3040	0,483348368 0,483348368
GO:0009059	macromolecule biosynthetic process	The chemical reactions and pathways resulting in the formation of a macromolecule, MYO6 RAB3GAP1 RAB3GAP2 RPN1	28.57 4/14	0.09 4/4337	0,483348368
	supramolecular fiber organization regulation of response to external stimulus	A process that is carried out at the cellular level which results in the assembly, arrang ALOX15 Any process that modulates the frequency, rate or extent of a response to an externa ALOX15	7.14 1/14 7.14 1/14	0.16 1/636 0.16 1/642	0,48954283 0,491963693
GO:0046903		The controlled release of a substance by a cell or a tissue. MYO6 The process whose specific outcome is the progression of the central nervous system RAB3GAP1	7.14 1/14 7.14 1/14	0.16 1/645 0.15 1/649	0,492521705 0,493682569
GO:0071310	cellular response to organic substance	Any process that results in a change in state or activity of a cell (in terms of movemer ALOX15 FASN	14.29 2/14	0.11 2/1848	0,498915984
GO:0030097 GO:0030029	hemopoiesis actin filament-based process	The process whose specific outcome is the progression of the myeloid and lymphoid FASN Any cellular process that depends upon or alters the actin cytoskeleton, that part of t ALOX15	7.14 1/14 7.14 1/14	0.15 1/670 0.15 1/675	0,503769836 0,504739906
GO:0051338	regulation of transferase activity	Any process that modulates the frequency, rate or extent of transferase activity, the I STK38	7.14 1/14	0.15 1/676	0,504739906
GO:0016567		The hydrolysis of a peptide bond or bonds within a protein as part of the chemical re UBA1 The process in which one or more ubiquitin groups are added to a protein. UBA1	7.14 1/14 7.14 1/14	0.14 1/696 0.14 1/702	0,515179963 0,517343183
	hematopoietic or lymphoid organ development cellular protein catabolic process	The process whose specific outcome is the progression of any organ involved in hem. FASN The chemical reactions and pathways resulting in the breakdown of a protein by indi UBA1	7.14 1/14 7.14 1/14	0.14 1/705 0.14 1/732	0,517754171 0,531127928
GO:0010556	regulation of macromolecule biosynthetic process	Any process that modulates the rate, frequency or extent of the chemical reactions a MYO6 RAB3GAP1 RAB3GAP2	21.43 3/14	0.09 3/3278	0,531127928
GO:0032446	positive regulation of intracellular signal transduction protein modification by small protein conjugation	Any process that activates or increases the frequency, rate or extent of intracellular s ALOX15 A protein modification process in which one or more groups of a small protein, such UBA1	7.14 1/14 7.14 1/14	0.13 1/741 0.13 1/758	0,534165758 0,540864506
GO:0002520	immune system development	The process whose specific outcome is the progression of an organismal system who: FASN Any process that modulates the frequency, rate or extent of the chemical reactions a MYO6 RAB3GAP1 RAB3GAP2 STK38	7.14 1/14 28.57 4/14	0.13 1/758 0.08 4/4722	0,540864506 0,549284873
GO:0002376	regulation of nitrogen compound metabolic process immune system process	Any process involved in the development or functioning of the immune system, an or ALOX15 FASN	14.29 2/14	0.10 2/2045	0,549284873
	regulation of cellular biosynthetic process negative regulation of cellular protein metabolic process	Any process that modulates the frequency, rate or extent of the chemical reactions a MYO6 RAB3GAP1 RAB3GAP2 Any process that stops, prevents, or reduces the frequency, rate or extent of the chei STK38	21.43 3/14 7.14 1/14	0.09 3/3385 0.13 1/792	0,551220836 0,553745871
GO:0009889	regulation of biosynthetic process	Any process that modulates the frequency, rate or extent of the chemical reactions a MYO6 RAB3GAP1 RAB3GAP2	21.43 3/14 7.14 1/14	0.09 3/3433 0.12 1/816	0,560942758 0,563586532
GG.0044032	negative regulation of molecular function	Any process that stops or reduces the rate or extent of a molecular function, an elem STK38	1/14	U.12 1/010	0,503300332

CRAINED Springerspression of the process of protecting of the process o						
Segment of the control of the contro	GO:0051248	negative regulation of protein metabolic process	Any process that stops, prevents, or reduces the frequency, rate or extent of chemica STK38	7.14 1/14	0.12 1/839	0,572619405
Segent personal perso						
SCHEAMER Application of primary interprintation (see). Application of primary interprintation (see). Application of primary interprintation (see). Application (see						
COMESSION Simplified and sequency of control and services of control and services. Control and sequency of control and services. Control and sequency of control and services. Control and sequency of cont						
CROSCORD Separation of prescription of the production of any grant of prescription of the CROST SAME SAME SAME SAME SAME SAME SAME SAME				7.14 1/14		
Section Section Processing Processing Process						
SCHOOLED Symmeth configuration of the programment						
SIGNESSI. Manufactur geneman promote programs of professor promote programs and professor profes						
Segment Segm	GO:0032501			35.71 5/14	0.08 5/6399	0,592544291
Water Performance Performance March Performance						
SCHEAMER Separation of part animachine Asymptotic of part animachine Asymptotic of part animachine Common part anim						
Seminar Semi						
Segent S				14.29 2/14		0,604252289
Section Sect						
Author Security Author Sec						
Second S						
Separate polition of positions of position	GO:0010648	negative regulation of cell communication		7.14 1/14		0,629712767
Martinatur Mar						
Company Temperatury of means around means (and pulsage in integrand any pulsage integrand any pulsage in integrand an						
Company Comp						-,
Description of planetines Part September of some part of part on sendency and management of personal production of planetine in management of personal production and part of personal production of planetine in management of personal production and part of personal production and pa	GO:0044085					0,637866152
Semigrate Ambrenom Personal Programmer in Sumplement work or their programmer in Agriculture of the Company of the Sumplement of Sumplemen						
Magneting of photogene members process Magneting of photogene members proc						
Secondary Part Pa						
Separate Perspect						
Company Comp						
Microsoft Controller process The Semental recolors and pathways recolors and pathways recolors the SEMENT 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 19						
Separation of protein protein of protein protein of protein						
Company Comp						
Commonstrate Comm	GO:0009967	positive regulation of signal transduction	Any process that activates or increases the frequency, rate or extent of signal transdi. ALOX15	7.14 1/14	0.09 1/1161	0,661288298
Semanticistant						
Seminated Semi						
Contention Property Cont						
Company Comp						
Marchanis Stutumer development control of the planting process when selections in the progression of an automated at ADDISTANS ADMISSARY 7.11/14 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.11/15 07.	GO:0010647	positive regulation of cell communication	Any process that increases the frequency, rate or extent of cell communication. Cell c ALOX15	7.14 1/14	0.08 1/1286	0,69752737
Controlled Part Controlled Part Pa			Any process that activates, maintains or increases the frequency, rate or extent of a s ALOX15			
Controlled Con						
Section Sect						
Controlled Instrument Controlled Process Proce						
Composition Instrument						
Continued Part		ion transport	The directed movement of charged atoms or small charged molecules into, out of or ABCG2			
Continosity Expertment management on temporal process that modulates the frequency, and or extent of the chemical reactions on wise of a PADE Continosity Continos						
Controlled Con						
0.00000000000000000000000000000000000	GO:0023052	signaling				
Controlled Con						
Concession Con						
CO000057 power regulation of max commodescle biosynthetic process An opposite process than services the refuse frequency or settent of the chronic of the process of the services of unit regulation of nucleoblese-containing compound metabols. Any original process whose segretic outcome is the progression of an integrated to the chronic of the process of the services of the process of the proces						
0.0003696 cellular compound inducibative containing compound metabolic. Any cellular process that activates or increases the frequency, rate or extent. of the cl Novo (1997) (2765) 2216. 00003460 cellular compound registration of registration of pages when the progression of the cell over time, from its ASM 1826AP1 MB36AP2 SMR 25 1/41 (2006) 40750 (2765) 2216. 00003450 cellular compound registration of registration of process that calcular, minimals or increases the rate of a responsible to stand, ACMS (2006) 2216. 00003450 cellular compound registration of registration of received the reg						
Concess Content		developmental process				
App						
Co.0003799 Co.000379 Co.0003799 Co.0003799 Co.0003799 Co.0003799 Co.000379 Co.0003799 Co.000379 Co.0003799 Co.000379 Co.0003799 Co.0003799 Co.0003799 Co.000379 Co.0003799 Co.0003799 Co.0003799 Co.00037						
0.00013935 Comparison Com						
Continues Cont						
Co.0003159 Co.0003169 Co.						
6.0007186 Concorning Conc						
6.00.01.01.01.02.02.02.02.02.02.02.02.02.02.02.02.02.						
G.191512222222222222222222222222222222222	GO:0007186	G protein-coupled receptor signaling pathway				0,783789594
CO-000009787 CO-00009787						.,
CO-00050072						
6.0055773 regulation of histogen compound metabolic process Any process that stoops, prevents, or reduces the frequency, rate or extent of the che STX8 7.14 I/14 05 I/1926 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055 08.07079055						
CO0009578 regulation of biological process Amy process that modulates the frequency, rate or extent of a biological process. Biol ADX15 GNG12 MY06 RAB3GAP1 RAB3 50.00 7/14 05.01/2005 08.201/2015 06.0000857 regulation of cellular metabolic process Amy process that stops, prevents, or reduces the frequency, rate or extent of the che STX8 7.14 1/14 05.1/2015 08.251/2875 06.0000857 regulation of transcription by RNB polymerase II Amy process that modulates the frequency, rate or extent of transcription makes the process of the chemical reactions and pathways resulting in the formation of organic and inner; COASY MY06 A.2017 MY06 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/2415 08.251/24	GO:0051172	negative regulation of nitrogen compound metabolic process	Any process that stops, prevents, or reduces the frequency, rate or extent of the chei STK38	7.14 1/14	0.05 1/1924	0,000.000
G.0.003231 negative regulation of cellular metabolic process in with an automical structures are generated and organized. Morphoge RABSAGA1 1,1 1/14 0.05 1,2032 0.825128785						
G.0006533 antomical structure morphogenesis The process in which anatomical structures are generated and organized. Morphogen RABSAP1 7.14 1/14 0.05 1/2170 0.836385121 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.0006507 0.00		and the second of the form of the form of the first of th		7 4 4 4 /4 4		.,.
Co-0006557 regulation of transcription by RNA polymerase II			77			
Co.0006565 Caracception by RNA polymerase The synthesis of RNA from a DNA template by RNA polymerase RNAP pill, originatir MYOS 1.1 1/14 20.4 1/2214 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13 0.5 2/13						
6.0050077 Continued Cont				,		
Co.005003 protein-containing complex assembly The aggregation, arrangement and Donding tegether of a set of macromolecules to fi. ALOXIS 7.14 1/14 0.04 1/2520 0.88978146						
GO-0006655 Go-0006551 Go-						
6.00.045319 negative regulation of biological process Any process that stops, prevents, or reduces the frequency, rate or extent of a biological ALOXIS 5.TISA\$ 1.4.2.97/14 0.04.2/4578 0.899052454 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.00.045931 0.						
GO-0009825 regulation of metabolic process Any process that stopps, prevents, or reduces the frequency, rate or extent of the left NRS 7.14 1/14 0.3 1/2770 0.904795065 0.00105055 regulation of nucleic acid-templated transcription, DNA-templated 'Many process that modulates the frequency, rate or extent of callular DNA-templated 'MYO6 7.14 1/14 0.3 1/2881 0.91759805 0.00105056 regulation of nucleic acid-templated transcription Any process that modulates the frequency, rate or extent of SNA biosynthetic proces 7.14 1/14 0.3 1/2881 0.91759805 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.00105056 0.001050						
G.0.006355 regulation of rankeription, DNA-templated Any process that modulates the frequency, rate or extent of nucleic acid-templated th WO6 7.14 1/14 0.31 1/2881 0.917598/05 G.0.001141 regulation of nucleic acid-templated transcription Any process that modulates the frequency, rate or extent of RNA biosynthetic proces MYO6 7.14 1/14 0.31 1/2881 0.917598/05 G.0.0002774 KNA biosynthetic process Any process that modulates the frequency, rate or extent of RNA biosynthetic proces MYO6 7.14 1/14 0.31 1/2881 0.917598/05 G.0.0002757 KNA biosynthetic process Any process that modulates the frequency, rate or extent of RNA biosynthetic proces MYO6 7.14 1/14 0.03 1/2081 0.925341895 G.0.0003575 Anthropic process Any process that modulates the frequency rate or extent of RNA biosynthetic process 7.14 1/14 0.03 1/2081 0.925341895 G.0.0003575 G.0.0003575 G.0.0003575 G.0.000000000000000000000000000000000		protein-containing complex organization	Any process in which macromolecules aggregate, disaggregate, or are modified, resul ALOX15		0.04 1/2678	
60-130505 regulation of nucleic acid-templated transcription Any process that modulates the frequency, rate or extent of nucleic acid-templated transcription Nucleic						
GO-200141 regulation of RNA biosynthetic process MNA biosynthetic process The chemical reactions and pathways resulting the formation of RNA, ribonucleic a WNO 7.14 1/14 0.31 3/2031 0.25341895						
6.0003571 NA biosynthetic process The chemical reactions and pathways resulting in the formation of RNA, ribonucleic a WNG 7.14 1/14 0.31 3/930 9.25341895						
GO-0095659 rule lear dist-templated transcription The cellular synthesis of RNA on a templated of nucleic acid (DNA or RNA). MYO6 7.14 1/14 0.31 1/2018 0.925341895			The chemical reactions and pathways resulting in the formation of RNA, ribonucleic a MYO6			
6.0030154 Coll differentiation The process in which relatively unspecialized cells, e.g. embryonic or regenerative ce FASN 7.14 1/14 0.31 3/908 0.929170M						
G.0005252 Equilation of RNA metabolic process Any process that modulates the frequency, rate or extent of the chemical reactions a MYOS 7.14 1/14 0.3 1/3134 0.39020378						
G.0.004825 Collular developmental process A biological process whose specific outcome is the progression of a cell over time for FASN 7.14 1/14 0.31/3162 0.9305388 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005398 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.9005399 0.900539						
GO-003219 regulation of nucleobase-containing compound metabolic process. Any reliular process that modulates the frequency, rate or extent of the chemical rea MY06 7.14 1/14 0.3 1/3542 0.94156338 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0.0045633 0						
G.00010488 regulation of gene expression Any process that modulates the frequency, rate or extent of gene expression. Gene e MYOS 7.14 1/14 0.02 1/4340 0.893846513		regulation of nucleobase-containing compound metabolic process	Any cellular process that modulates the frequency, rate or extent of the chemical rea MYO6			0,941626338
6.00.06433 hetracoycle metabolic process The chemical reactions and pathways involving heterocyclic compounds, those with z CASY MY06 14.29 Z/14 0.03 Z/6828 0,88191314						
G0.0006139 nucleobase-containing compound metabolic process Any cellular metabolic process involving nucleobases, nucleobases, nucleoides, and + CASY MYO6 14.29 1/14 0.03 2/FS21 0.88191314						
GO:0006725 cellular aromatic compound metabolic process The chemical reactions and pathways involving aromatic compounds, any organic cort COASY MY06 14.29 2/14 0.03 2/6891 9,88191314 GO:190360 roganic cyclic compound metabolic process The chemical reactions and pathways involving organic cyclic compound. COASY MY06 14.29 2/14 0.03 2/7066 0,989591343 GO:003461 Lellular introgen compound metabolic process The chemical reactions and pathways involving organic and inorganic introge COASY MY06 14.29 2/14 0.03 2/7066 0,989591343 GO:003610 RNA metabolic process The cellular chemical reactions and pathways involving RNA, ribonucleic acid, one of MY06 7.14 1/14 0.02 1/581 0,997523807 GO:009031 No yeellular metabolic process A yeellular metabolic process involving nucleic acids. MY06 7.14 1/14 0.02 1/581 0,99871376 GO:009031 biological_process A biological process represents a specific objective that the organism is genetically pr ABGC 2 ALOXIS COASY FASN GNIG1 XII 100.0014/14 0.02 1/581 9,9875178						
60-190360 regamic cyclic compound metabolic process The chemical reactions and pathways involving organic cyclic compound COASY MYO6 14.29 2/14 0.03 2/7066 0.885931243						
GO:003641 [Monotoping of control	GO:1901360	organic cyclic compound metabolic process	The chemical reactions and pathways involving organic cyclic compound. COASY MYO6	14.29 2/14	0.03 2/7066	0,989591243
GO:009304 ulucleic acid metabolic process involving nucleic acids. MYO6 7.14 1/14 0.02 1/6311 0,998751976 GO:0006150 biological_process capacity a Specific objective that the organism is genetically pr ABCG2 ALOX15 COASY FASN GNG12 M 100.00 14/10 0.07 14/2011 1	GO:0034641	cellular nitrogen compound metabolic process	The chemical reactions and pathways involving various organic and inorganic nitroge COASY MYO6			
GO:0008150 biological_process A biological process represents a specific objective that the organism is genetically pr ABCG2 ALOX15 COASY FASN GNG12 M1 100.00 14/14 0.07 14/20110 1						

GO_BP	<pre>ity_Enrichment_GO_BP_of_17prot_contributing_to_HL_g Name</pre>	Function Gene Name	Term freque	Term frequ	P-value (fdr)
GO:0090206	negative regulation of cholesterol metabolic process	Any process that decreases the rate, frequency, or extent c ERLIN2	7.14 1/14	25.00 1/4	0,079087858
GO:0006102	isocitrate metabolic process	The chemical reactions and pathways involving isocitrate, † IDH1	7.14 1/14	33.33 1/3	0,079087858
GO:0006097	glyoxylate cycle	A modification of the TCA cycle occurring in some plants a IDH1	7.14 1/14	50.00 1/2	0,079087858
GO:0006081	cellular aldehyde metabolic process	The chemical reactions and pathways involving aldehydes, ALPL IDH1	14.29 2/14	3.85 2/52	0,079087858
GO:1903778	protein localization to vacuolar membrane	A process in which a protein is transported to, or maintain SH3GLB1	7.14 1/14	100.00 1/1	0,079087858
GO:1903527 GO:0045541	positive regulation of membrane tubulation negative regulation of cholesterol biosynthetic process	Any process that activates or increases the frequency, rate SH3GLB1 Any process that stops, prevents, or reduces the frequency ERLIN2	7.14 1/14 7.14 1/14	25.00 1/4 25.00 1/4	0,079087858 0,079087858
GO:0045541 GO:0106119	negative regulation of sterol biosynthetic process	Any process that stops, prevents or reduces the frequency ERLIN2	7.14 1/14	25.00 1/4	0,079087858
GO:1901615	organic hydroxy compound metabolic process	The chemical reactions and pathways involving organic hyr ALPL ERLIN2 IDH1	21.43 3/14	0.75 3/398	0,079087858
GO:1902652	secondary alcohol metabolic process	The chemical reactions and pathways involving secondary ERLIN2 IDH1	14.29 2/14	1.98 2/101	0,079087858
GO:0003360	brainstem development	The progression of the brainstem from its formation to the CNTFR	7.14 1/14	25.00 1/4	0,079087858
GO:0042822	pyridoxal phosphate metabolic process	The chemical reactions and pathways involving pyridoxal p ALPL	7.14 1/14	25.00 1/4	0,079087858
GO:0015881	creatine transmembrane transport	The directed movement of creatine across a membrane. SLC6A8	7.14 1/14	50.00 1/2	0,079087858
GO:0042816	vitamin B6 metabolic process	The chemical reactions and pathways involving any of the ALPL	7.14 1/14	25.00 1/4	0,079087858
GO:0046890 GO:0060696	regulation of lipid biosynthetic process regulation of phospholipid catabolic process	Any process that modulates the frequency, rate or extent (ERLIN2 IDH1 Any process that modulates the rate, frequency, or extent IDH1	14.29 2/14 7.14 1/14	1.61 2/124 20.00 1/5	0,08647439 0,08647439
GO:0046487	glyoxylate metabolic process	The chemical reactions and pathways involving glyoxylate, IDH1	7.14 1/14	14.29 1/7	0,092179749
GO:0070120	ciliary neurotrophic factor-mediated signaling pathway	A series of molecular signals initiated by the binding of a ci CNTFR	7.14 1/14	14.29 1/7	0,092179749
GO:1903525	regulation of membrane tubulation	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	14.29 1/7	0,092179749
GO:0090148	membrane fission	A process that is carried out at the cellular level which rest SH3GLB1	7.14 1/14	14.29 1/7	0,092179749
GO:0048102	autophagic cell death	A form of programmed cell death that is accompanied by t SH3GLB1	7.14 1/14	16.67 1/6	0,092179749
GO:0106118	regulation of sterol biosynthetic process	Any process that modulates the frequency, rate or extent (ERLIN2	7.14 1/14	10.00 1/10	0,103534823
GO:0001967	suckling behavior negative regulation of alcohol biosynthetic process	Specific behavior of a newborn or infant mammal that rest CNTFR	7.14 1/14	11.11 1/9	0,103534823
GO:1902931 GO:0006103	2-oxoglutarate metabolic process	Any process that stops, prevents or reduces the frequency ERLIN2 The chemical reactions and pathways involving oxoglutara IDH1	7.14 1/14 7.14 1/14	9.09 1/11 10.00 1/10	0,103534823 0,103534823
GO:0000103	tricarboxylic acid metabolic process	The chemical reactions and pathways involving oxoglitara IDF1 The chemical reactions and pathways involving dicarboxyli IDH1	7.14 1/14	9.09 1/11	0,103534823
GO:0071071	regulation of phospholipid biosynthetic process	Any process that modulates the frequency, rate or extent (IDH1	7.14 1/14	8.33 1/12	0,103534823
GO:0006814	sodium ion transport	The directed movement of sodium ions (Na+) into, out of c SLC5A9 SLC6A8	14.29 2/14	1.00 2/200	0,103534823
GO:0051764	actin crosslink formation	The process in which two or more actin filaments are conn MARCKS	7.14 1/14	9.09 1/11	0,103534823
GO:0045540	regulation of cholesterol biosynthetic process	Any process that modulates the frequency, rate or extent (ERLIN2	7.14 1/14	10.00 1/10	0,103534823
GO:0045717	negative regulation of fatty acid biosynthetic process	Any process that stops, prevents, or reduces the frequency ERLIN2	7.14 1/14	8.33 1/12	0,103534823
GO:0051290 GO:0071501	protein heterotetramerization cellular response to sterol depletion	The formation of a protein heterotetramer, a macromolec KRT10 Any process that results in a change in state or activity of a ERLIN2	7.14 1/14 7.14 1/14	10.00 1/10 7.69 1/13	0,103534823 0,105530823
GO:0071301 GO:0032933	SREBP signaling pathway	A series of molecular signals from the endoplasmic reticult ERLIN2	7.14 1/14	7.69 1/13	0,105530823
GO:1903729	regulation of plasma membrane organization	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	7.14 1/14	0,107300105
GO:0006991	response to sterol depletion	Any process that results in a change in state or activity of a ERLIN2	7.14 1/14	7.14 1/14	0,107300105
GO:2000786	positive regulation of autophagosome assembly	Any process that activates or increases the frequency, rate SH3GLB1	7.14 1/14	6.67 1/15	0,111821131
GO:0033280	response to vitamin D	Any process that results in a change in state or activity of a ALPL	7.14 1/14	6.25 1/16	0,116099533
GO:0031667	response to nutrient levels	Any process that results in a change in state or activity of a ALPL SH3GLB1	14.29 2/14	0.79 2/252	0,119730648
GO:0019216 GO:0090181	regulation of lipid metabolic process regulation of cholesterol metabolic process	Any process that modulates the frequency, rate or extent (ERLIN2 IDH1	14.29 2/14 7.14 1/14	0.81 2/246 5.00 1/20	0,119730648 0,119730648
GO:0090181 GO:0045939	negative regulation of steroid metabolic process	Any process that modulates the rate, frequency, or extent ERLIN2 Any process that stops, prevents, or reduces the frequency ERLIN2	7.14 1/14	5.00 1/20	0,119730648
GO:0097320	plasma membrane tubulation	A membrane tubulation process occurring in a plasma mer SH3GLB1	7.14 1/14	5.26 1/19	0,119730648
GO:0010894	negative regulation of steroid biosynthetic process	Any process that decreases the frequency, rate or extent o ERLIN2	7.14 1/14	5.00 1/20	0,119730648
GO:0044090	positive regulation of vacuole organization	Any process that activates or increases the frequency, rate SH3GLB1	7.14 1/14	5.56 1/18	0,119730648
GO:0051291	protein heterooligomerization	The process of creating protein oligomers, compounds con KRT10	7.14 1/14	5.56 1/18	0,119730648
GO:0006066	alcohol metabolic process	The chemical reactions and pathways involving alcohols, a ERLIN2 IDH1	14.29 2/14	0.75 2/266	0,120950404
GO:0009991	response to extracellular stimulus	Any process that results in a change in state or activity of a ALPL SH3GLB1	14.29 2/14		0,12108921
GO:0045922 GO:0032801	negative regulation of fatty acid metabolic process receptor catabolic process	Any process that stops, prevents, or reduces the frequency ERLIN2 The chemical reactions and pathways resulting in the breal SH3GLB1	7.14 1/14 7.14 1/14	4.55 1/22 4.55 1/22	0,12108921 0,12108921
GO:0032801 GO:0033273	response to vitamin	Any process that results in a change in state or activity of a ALPL	7.14 1/14	3.85 1/26	0,12108921
GO:0003273	endochondral ossification	Replacement ossification wherein bone tissue replaces car ALPL	7.14 1/14	3.85 1/26	0,121119324
GO:0072337	modified amino acid transport	The directed movement of modified amino acids into, out SLC6A8	7.14 1/14	4.35 1/23	0,121119324
GO:0006767	water-soluble vitamin metabolic process	The chemical reactions and pathways involving any of a div ALPL	7.14 1/14	3.85 1/26	0,121119324
GO:0036075	replacement ossification	Ossification that requires the replacement of a preexisting ALPL	7.14 1/14	3.85 1/26	0,121119324
GO:0046677	response to antibiotic	Any process that results in a change in state or activity of a ALPL	7.14 1/14	4.35 1/23	0,121119324
GO:0018149	peptide cross-linking	The formation of a covalent cross-link between or within p KRT10	7.14 1/14	4.00 1/25	0,121119324
GO:0072524 GO:1903725	pyridine-containing compound metabolic process regulation of phospholipid metabolic process	The chemical reactions and pathways involving a pyridine-I ALPL Any process that modulates the frequency, rate or extent (IDH1)	7.14 1/14 7.14 1/14	3.85 1/26 4.00 1/25	0,121119324 0,121119324
GO:1902930	regulation of alcohol biosynthetic process	Any process that modulates the frequency, rate or extent CIDIT	7.14 1/14	3.70 1/27	0,121119324
GO:0006739	NADP metabolic process	The chemical reactions and pathways involving nicotinamic IDH1	7.14 1/14	3.70 1/27	0,121614649
GO:0006099	tricarboxylic acid cycle	A nearly universal metabolic pathway in which the acetyl g IDH1	7.14 1/14	3.57 1/28	0,124044689
GO:0007584	response to nutrient	Any process that results in a change in state or activity of a ALPL	7.14 1/14	2.94 1/34	0,147948184
GO:0042304	regulation of fatty acid biosynthetic process	Any process that modulates the frequency, rate or extent (ERLIN2	7.14 1/14	2.78 1/36	0,149434108
GO:0006695	cholesterol biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	2.78 1/36	0,149434108
GO:1902653	secondary alcohol biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	2.78 1/36	0,149434108
GO:0009395	phospholipid catabolic process	The chemical reactions and pathways resulting in the breal IDH1 Any process that modulates the frequency, rate or extent (SH3GLB1)	7.14 1/14 7 14 1/14	2.44 1/41	0,151545566
GO:2000785 GO:0042149	regulation of autophagosome assembly cellular response to glucose starvation	Any process that modulates the frequency, rate or extent (SH3GLB1 Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14 7.14 1/14	2.50 1/40 2.50 1/40	0,151545566 0,151545566
GO:0042149 GO:0061919	process utilizing autophagic mechanism	A cellular process involving delivery of a portion of the cyti ANXA7 SH3GLB1	14.29 2/14	0.52 2/382	0,151545566
GO:0001313	negative regulation of lipid biosynthetic process	Any process that stops, prevents, or reduces the frequency ERLIN2	7.14 1/14	2.50 1/40	0,151545566
GO:0006914	autophagy	The cellular catabolic process in which cells digest parts of ANXA7 SH3GLB1	14.29 2/14	0.52 2/382	0,151545566
GO:0016126	sterol biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	2.56 1/39	0,151545566
GO:0006984	ER-nucleus signaling pathway	Any series of molecular signals that conveys information fr ERLIN2	7.14 1/14	2.63 1/38	0,151545566
GO:0034198	cellular response to amino acid starvation	Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14	2.38 1/42	0,153122546
GO:1990928	response to amino acid starvation	Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14	2.33 1/43	0,154655727
GO:0044088	regulation of vacuole organization	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	2.27 1/44	0,156146816
GO:0044248	cellular catabolic process	The chemical reactions and pathways resulting in the brea ANXA7 ERLIN2 IDE		0.22 4/1814	0,161534441
GO:0050994 GO:0050810	regulation of lipid catabolic process regulation of steroid biosynthetic process	Any process that modulates the frequency, rate, or extent IDH1 Any process that modulates the frequency, rate or extent (ERLIN2)	7.14 1/14 7.14 1/14	2.04 1/49 2.00 1/50	0,169215648 0,170455749
GO:0050810	endochondral bone morphogenesis	The process in which bones are generated and organized a ALPL	7.14 1/14	1.96 1/51	0,170455749
GO:0006766	vitamin metabolic process	The chemical reactions and pathways involving vitamins. V ALPL	7.14 1/14	1.89 1/53	0,176105947
	glutathione metabolic process	The chemical reactions and pathways involving glutathion (IDH1	7.14 1/14	1.85 1/54	
GO:0006749	gratatilloric metabolic process	The electrons and pathways involving gratation (12112	7.17 1/17	1.03 1/34	0,177209833

A process in which a protein is transported to, or maintain SH3GLB1

The process in which a relatively unspecialized cell acquire ANXA7 KRT10 $\,$

The proteolytic processing of an inactive enzyme to an acti $\ensuremath{\mathsf{CD5L}}$

7.14 1/14 1.67 1/60

0,184241808

GO:0072665 protein localization to vacuole

GO:0030855 epithelial cell differentiation

GO:0031638 zymogen activation

GO:0032787	monocarboxylic acid metabolic process	The chemical reactions and pathways involving monocarbo ERLIN2 IDH1			0,184241808
GO:0043648	dicarboxylic acid metabolic process	The chemical reactions and pathways involving dicarboxyli IDH1	7.14 1/14	1.67 1/60	0,184241808
GO:0120162	positive regulation of cold-induced thermogenesis	Any process that activates or increases the frequency, rate ALPL	7.14 1/14	1.61 1/62	0,187155616
GO:0007631	feeding behavior	Behavior associated with the intake of food. CNTFR Any process that stone properts or reduces the frequency FRIANS	7.14 1/14	1.59 1/63	0,18802391
GO:0062014 GO:0051262	negative regulation of small molecule metabolic process protein tetramerization	Any process that stops, prevents or reduces the frequency ERLIN2 The formation of a protein tetramer, a macromolecular str KRT10	7.14 1/14 7.14 1/14	1.45 1/69 1.45 1/69	0,196879758 0,196879758
GO:1902117	positive regulation of organelle assembly	Any process that activates or increases the frequency, rate SH3GLB1	7.14 1/14	1.49 1/67	0,196879758
GO:0019217	regulation of fatty acid metabolic process	Any process that modulates the frequency, rate or extent (ERLIN2	7.14 1/14	1.45 1/69	0,196879758
GO:0019218	regulation of steroid metabolic process	Any process that modulates the frequency, rate or extent (ERLIN2	7.14 1/14	1.41 1/71	0,198281792
GO:0045833	negative regulation of lipid metabolic process	Any process that stops, prevents, or reduces the frequency ERLIN2	7.14 1/14	1.41 1/71	0,198281792
GO:0008610	lipid biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2 IDH1	14.29 2/14	0.38 2/525	0,202907868
GO:0009056	catabolic process	The chemical reactions and pathways resulting in the breal ANXA7 ERLIN2 IDH1	28.57 4/14	0.19 4/2106	0,202907868
GO:0032465	regulation of cytokinesis	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	1.33 1/75	0,202907868
GO:1904659	glucose transmembrane transport	The process in which glucose is transported across a meml SLC5A9	7.14 1/14	1.27 1/79	0,211341563
GO:0060349	bone morphogenesis	The process in which bones are generated and organized. ALPL	7.14 1/14	1.20 1/83	0,21422839
GO:1990823	response to leukemia inhibitory factor	Any process that results in a change in state or activity of a BSPRY	7.14 1/14	1.18 1/85	0,21422839
GO:0008645 GO:0030433	hexose transmembrane transport ubiquitin-dependent ERAD pathway	The process in which hexose is transported across a memb SLC5A9 The series of steps necessary to target endoplasmic reticul ERLIN2	7.14 1/14 7.14 1/14	1.23 1/81 1.20 1/83	0,21422839 0,21422839
GO:0030433 GO:0015718	monocarboxylic acid transport	The directed movement of monocarboxylic acids into, out SLC6A8	7.14 1/14	1.18 1/85	0,21422839
GO:1990830	cellular response to leukemia inhibitory factor	Any process that results in a change in state or activity of a BSPRY	7.14 1/14	1.19 1/84	0,21422839
GO:0015749	monosaccharide transmembrane transport	The process in which a monosaccharide is transported acro SLC5A9	7.14 1/14	1.15 1/87	0,217099264
GO:0034219	carbohydrate transmembrane transport	The process in which a carbohydrate is transported across SLC5A9	7.14 1/14	1.12 1/89	0,217912025
GO:0010033	response to organic substance	Any process that results in a change in state or activity of ALPL BSPRY CNTFR	28.57 4/14	0.18 4/2227	0,217912025
GO:0016241	regulation of macroautophagy	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	1.09 1/92	0,21798349
GO:0008203	cholesterol metabolic process	The chemical reactions and pathways involving cholesterol ERLIN2	7.14 1/14	1.04 1/96	0,21798349
GO:0030216	keratinocyte differentiation	The process in which a relatively unspecialized cell acquire KRT10	7.14 1/14	1.05 1/95	0,21798349
GO:0030282	bone mineralization	The deposition of hydroxyapatite, a form of calcium phosp ALPL	7.14 1/14	1.05 1/95	0,21798349
GO:0010565	regulation of cellular ketone metabolic process	Any process that modulates the chemical reactions and pa ERLIN2	7.14 1/14	1.02 1/98	0,21798349
GO:0031329 GO:0106106	regulation of cellular catabolic process cold-induced thermogenesis	Any process that modulates the frequency, rate or extent (IDH1 SH3GLB1		0.33 2/613 1.08 1/93	0,21798349 0,21798349
GO:0100106 GO:0000045	autophagosome assembly	The process by which heat is generated by increasing meta ALPL The formation of a double membrane-bounded structure, SH3GLB1	7.14 1/14 7.14 1/14	1.08 1/93	0,21798349
GO:1990266	neutrophil migration	The movement of a neutrophil within or between different GP2	7.14 1/14	1.04 1/96	0,21798349
GO:1905037	autophagosome organization	A process that is carried out at the cellular level which resu SH3GLB1	7.14 1/14	1.02 1/98	0,21798349
GO:0120161	regulation of cold-induced thermogenesis	Any process that modulates the frequency, rate or extent (ALPL	7.14 1/14	1.08 1/93	0,21798349
GO:1990845	adaptive thermogenesis	The regulated production of heat in response to short tern ALPL	7.14 1/14	0.98 1/102	0,22271412
GO:0016125	sterol metabolic process	The chemical reactions and pathways involving sterols, ste ERLIN2	7.14 1/14	0.97 1/103	0,22271412
GO:0036503	ERAD pathway	The protein catabolic pathway which targets endoplasmic ERLIN2	7.14 1/14	0.97 1/103	0,22271412
GO:0043524	negative regulation of neuron apoptotic process	Any process that stops, prevents, or reduces the frequency CNTFR	7.14 1/14		0,223005828
GO:0009888	tissue development	The process whose specific outcome is the progression of ALPL ANXA7 KRT10			0,229156697
GO:0046165	alcohol biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	0.92 1/109	0,229677896
GO:0010508	positive regulation of autophagy	Any process that activates, maintains or increases the rate SH3GLB1	7.14 1/14		0,231020925
GO:0071345	cellular response to cytokine stimulus	Any process that results in a change in state or activity of a BSPRY CNTFR	14.29 2/14		0,231020925
GO:0003006 GO:0044281	developmental process involved in reproduction small molecule metabolic process	A developmental process in which a progressive change in ALPL CNTFR The chemical reactions and pathways involving small mole ALPL ERLIN2 IDH1	14.29 2/14 21.43 3/14		0,231020925 0,231020925
GO:0001659	temperature homeostasis	A homeostatic process in which an organism modulates its ALPL	7.14 1/14		0,231020925
GO:0001033	carbohydrate transport	The directed movement of carbohydrate into, out of or wil SLC5A9	7.14 1/14		0,231020323
GO:0006694	steroid biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14		0,231139951
GO:0097530	granulocyte migration	The movement of a granulocyte within or between differer GP2	7.14 1/14		0,233233916
GO:0060538	skeletal muscle organ development	The progression of a skeletal muscle organ over time from CNTFR	7.14 1/14	0.78 1/129	0,23507163
GO:0007009	plasma membrane organization	A process that is carried out at the cellular level which resu SH3GLB1	7.14 1/14	0.80 1/125	0,23507163
GO:0043112	receptor metabolic process	The chemical reactions and pathways involving a receptor SH3GLB1	7.14 1/14	0.77 1/130	0,23507163
GO:0031214	biomineral tissue development	Formation of hard tissues that consist mainly of inorganic (ALPL	7.14 1/14	0.80 1/125	0,23507163
GO:0051017	actin filament bundle assembly	The assembly of actin filament bundles; actin filaments are MARCKS	7.14 1/14	0.79 1/126	0,23507163
GO:0061572	actin filament bundle organization	A process that results in the assembly, arrangement of con MARCKS	7.14 1/14	0.78 1/128	0,23507163
GO:0006633	fatty acid biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	0.81 1/124	0,23507163
GO:0034097 GO:0046434	response to cytokine organophosphate catabolic process	Any process that results in a change in state or activity of a BSPRY CNTFR The chemical reactions and pathways resulting in the breal IDH1	14.29 2/14 7.14 1/14	0.28 2/713 0.79 1/126	0,23507163
GO:0040434 GO:0110148	biomineralization	The process where mineral crystals are formed and deposi ALPL	7.14 1/14	0.79 1/120	0,23507163 0,23507163
GO:1901215	negative regulation of neuron death	Any process that stops, prevents or reduces the frequency CNTFR	7.14 1/14	0.77 1/130	0,23507163
GO:0030001	metal ion transport	The directed movement of metal ions, any metal ion with a SLC5A9 SLC6A8	14.29 2/14	0.28 2/708	0,23507163
GO:0043523	regulation of neuron apoptotic process	Any process that modulates the occurrence or rate of cell (CNTFR	7.14 1/14	0.76 1/132	0,236923618
GO:0000910	cytokinesis	The division of the cytoplasm and the plasma membrane o SH3GLB1	7.14 1/14	0.75 1/134	0,238746302
GO:0009267	cellular response to starvation	Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14	0.73 1/137	0,23904417
GO:0009894	regulation of catabolic process	Any process that modulates the frequency, rate, or extent IDH1 SH3GLB1	14.29 2/14	0.27 2/732	0,23904417
GO:0019752	carboxylic acid metabolic process	The chemical reactions and pathways involving carboxylic : ERLIN2 IDH1	14.29 2/14	0.27 2/736	0,23904417
GO:0051302	regulation of cell division	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	0.72 1/138	0,239138704
GO:0043436	oxoacid metabolic process	The chemical reactions and pathways involving any oxoacii ERLIN2 IDH1	14.29 2/14 7.14 1/14	0.27 2/745 0.65 1/153	0,240236722
GO:0006575 GO:0031334	cellular modified amino acid metabolic process	The chemical reactions and pathways involving compound IDH1 Any process that activates or increases the frequency, rate SH3GLB1	7.14 1/14	0.68 1/148	0,24920429 0,24920429
GO:0006836	neurotransmitter transport	The directed movement of a neurotransmitter into, out of SLC6A8	7.14 1/14	0.67 1/149	0,24920429
GO:0006082	organic acid metabolic process	The chemical reactions and pathways involving organic aci ERLIN2 IDH1	14.29 2/14	0.26 2/774	0,24920429
GO:0072330	monocarboxylic acid biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	0.65 1/153	0,24920429
GO:0035725	sodium ion transmembrane transport	A process in which a sodium ion is transported from one si SLC6A8	7.14 1/14	0.67 1/149	0,24920429
GO:0042594	response to starvation		7.14 1/14	0.66 1/151	0,24920429
GO:0009913	epidermal cell differentiation	The process in which a relatively unspecialized cell acquire KRT10	7.14 1/14	0.65 1/153	0,24920429
GO:0019637	organophosphate metabolic process	The chemical reactions and pathways involving organopho ALPL IDH1	14.29 2/14	0.25 2/793	0,252377521
GO:0031669	cellular response to nutrient levels	Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14	0.62 1/161	0,256809463
GO:0007033	vacuole organization	A process that is carried out at the cellular level which rest SH3GLB1	7.14 1/14	0.62 1/160	0,256809463
GO:0097529	myeloid leukocyte migration	The movement of a myeloid leukocyte within or between (GP2	7.14 1/14	0.60 1/166	0,259641729
GO:1902115	regulation of organelle assembly	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14	0.60 1/166	0,259641729
GO:0051402	neuron apoptotic process	Any apoptotic process in a neuron, the basic cellular unit o CNTFR The enzymatic release of energy from inorganic and organi IDH1	7.14 1/14	0.61 1/164	0,259641729
GO:0009060 GO:0042180	aerobic respiration cellular ketone metabolic process	The enzymatic release of energy from inorganic and organi IDH1 The chemical reactions and pathways involving any of a cla ERLIN2	7.14 1/14 7.14 1/14	0.59 1/169 0.59 1/170	0,262434639 0,262434639
GO:0060348	bone development	The process whose specific outcome is the progression of ALPL	7.14 1/14		0,265045347
GO:1901617	organic hydroxy compound biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14		0,265045347
GO:1901575	organic substance catabolic process	The chemical reactions and pathways resulting in the breal ERLIN2 IDH1 SH3GL			0,265045347
GO:0044255	cellular lipid metabolic process	The chemical reactions and pathways involving lipids, as ca ERLIN2 IDH1	14.29 2/14		0,266687742
GO:1901214	regulation of neuron death	Any process that modulates the frequency, rate or extent ϵCNTFR	7.14 1/14	0.56 1/179	0,267663455
GO:0031668	cellular response to extracellular stimulus	Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14	0.55 1/181	0,268944706

GO:0008654	phospholipid biosynthetic process	The chemical reactions and pathways resulting in the form IDH1	7.14 1/14	0.54 1/185	0,272499475
GO:0060429	epithelium development	The process whose specific outcome is the progression of ANXA7 KRT10	14.29 2/14		0,272499475
GO:0044242	cellular lipid catabolic process	The chemical reactions and pathways resulting in the breal IDH1	7.14 1/14		0,274051847
GO:0016485	protein processing	Any protein maturation process achieved by the cleavage (CD5L	7.14 1/14		0,277973286
GO:0048705	skeletal system morphogenesis	The process in which the anatomical structures of the skell ALPL	7.14 1/14	0.50 1/199	0,285877842
GO:0071310	cellular response to organic substance	Any process that results in a change in state or activity of a ALPL BSPRY CNTFR	21.43 3/14	0.16 3/1848	0,287438919
GO:0007548	sex differentiation	The establishment of the sex of an organism by physical di CNTFR	7.14 1/14	0.49 1/205	0,288890774
GO:0045333	cellular respiration	The enzymatic release of energy from inorganic and organi IDH1	7.14 1/14	0.49 1/206	0,288890774
GO:0016236	macroautophagy	The major inducible pathway for the general turnover of c SH3GLB1	7.14 1/14	0.49 1/205	0,288890774
GO:0051259	protein complex oligomerization	The process of creating protein oligomers, compounds con KRT10	7.14 1/14	0.48 1/209	0,291243947
GO:0043588	skin development	The process whose specific outcome is the progression of † KRT10	7.14 1/14		0,293286893
GO:0070997	neuron death	The process of cell death in a neuron. CNTFR	7.14 1/14	0.47 1/213	0,293286893
GO:0071496	cellular response to external stimulus	Any process that results in a change in state or activity of a SH3GLB1	7.14 1/14		0,301249335
GO:0007517	muscle organ development	The process whose specific outcome is the progression of I CNTFR	7.14 1/14		0,301249335
GO:0051179	localization	Any process in which a cell, a substance, or a cellular entity CD5L GP2 NAPA SH			0,301249335
GO:0008202	steroid metabolic process	The chemical reactions and pathways involving steroids, cc ERLIN2	7.14 1/14		0,301249335
GO:0010506	regulation of autophagy	Any process that modulates the frequency, rate or extent (SH3GLB1	7.14 1/14		0,301249335
GO:0046942	carboxylic acid transport	The directed movement of carboxylic acids into, out of or \SLC6A8	7.14 1/14		0,301249335
GO:0044262	cellular carbohydrate metabolic process	The chemical reactions and pathways involving carbohydra IDH1	7.14 1/14		0,301249335
GO:0034976	response to endoplasmic reticulum stress	Any process that results in a change in state or activity of a ERLIN2	7.14 1/14		0,301249335
GO:0071702	organic substance transport	The directed movement of organic substances into, out of NAPA SLC5A9 SLC6A			0,301725763
GO:0006812	cation transport	The process whose specific outcome is the progression of LKRT10	14.29 2/14		0,301725763 0,301725763
GO:0008544 GO:0098656	epidermis development	The process whose specific outcome is the progression of I KRT10	7.14 1/14		0,301725763
GO:0058030	anion transmembrane transport regulation of small molecule metabolic process	The process in which an anion is transported across a merr SLC6A8 Any process that modulates the rate, frequency or extent (ERLIN2	7.14 1/14 7.14 1/14		0,301725763
GO:0002012 GO:0046394	carboxylic acid biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14		0,301723703
GO:0046354 GO:0016053	organic acid biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2 The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14		0,305746757
GO:0000003	reproduction	The production of new individuals that contain some porti ALPL CNTFR	14.29 2/14		0,305746757
GO:0022414	reproductive process	A biological process that directly contributes to the proces ALPL CNTFR	14.29 2/14		0,305746757
GO:0051604	protein maturation	Any process leading to the attainment of the full functiona CD5L	7.14 1/14		0,315052273
GO:0048856	anatomical structure development	The biological process whose specific outcome is the progr ALPL ANXA7 CNTFR			0,32699463
GO:0006790	sulfur compound metabolic process	The chemical reactions and pathways involving the nonme IDH1	7.14 1/14		0,332234638
GO:0006979	response to oxidative stress	Any process that results in a change in state or activity of a IDH1	7.14 1/14		0,333974491
GO:0015980	energy derivation by oxidation of organic compounds	The chemical reactions and pathways by which a cell deriv IDH1	7.14 1/14		0,337892402
GO:0016042	lipid catabolic process	The chemical reactions and pathways resulting in the breal IDH1	7.14 1/14	0.35 1/284	0,34066382
GO:0006629	lipid metabolic process	The chemical reactions and pathways involving lipids, com ERLIN2 IDH1	14.29 2/14	0.18 2/1124	0,341261655
GO:0001503	ossification	The formation of bone or of a bony substance, or the conv ALPL	7.14 1/14	0.35 1/289	0,341261655
GO:0050900	leukocyte migration	The movement of a leukocyte within or between different GP2	7.14 1/14	0.35 1/289	0,341261655
GO:0009057	macromolecule catabolic process	The chemical reactions and pathways resulting in the breal ERLIN2 SH3GLB1	14.29 2/14	0.18 2/1142	0,346305827
GO:0015711	organic anion transport	The directed movement of organic anions into, out of or w SLC6A8	7.14 1/14	0.33 1/306	0,356072443
GO:0006631	fatty acid metabolic process	The chemical reactions and pathways involving fatty acids, ERLIN2	7.14 1/14	0.32 1/316	0,364860904
GO:1901564	organonitrogen compound metabolic process	The chemical reactions and pathways involving organonitri ALPL BSPRY CD5L Eff	42.86 6/14	0.10 6/591!	0,373962119
GO:0043254	regulation of protein-containing complex assembly	Any process that modulates the frequency, rate or extent cSH3GLB1	7.14 1/14	0.30 1/330	0,37588299
GO:0006644	phospholipid metabolic process	The chemical reactions and pathways involving phospholip IDH1	7.14 1/14	0.30 1/338	0,38228067
GO:0031331	positive regulation of cellular catabolic process	Any process that activates or increases the frequency, rate SH3GLB1	7.14 1/14		0,384569779
GO:0032502	developmental process	A biological process whose specific outcome is the progres ALPL ANXA7 CNTFR			0,394007027
GO:0016192	vesicle-mediated transport	A cellular transport process in which transported substanc CD5L NAPA	14.29 2/14		0,395703715
GO:0070887	cellular response to chemical stimulus	Any process that results in a change in state or activity of a ALPL BSPRY CNTFR			0,398667135
GO:0006915	apoptotic process	A programmed cell death process which begins when a cel CNTFR SH3GLB1	14.29 2/14		0,402320032
GO:0048871	multicellular organismal homeostasis	Any process involved in the maintenance of an internal ste ALPL	7.14 1/14		0,402320032
GO:0051301	cell division	The process resulting in division and partitioning of compo SH3GLB1	7.14 1/14	0.27 1/373	0,40438132
GO:0048731	system development	The process whose specific outcome is the progression of ALPL CNTFR KRT10			0,408178997 0,408522312
GO:0071407 GO:0044089	cellular response to organic cyclic compound	Any process that results in a change in state or activity of a ALPL	7.14 1/14 7.14 1/14		0,408522312
GO:0044089 GO:0043161	positive regulation of cellular component biogenesis	Any process that activates or increases the frequency, rate SH3GLB1 The chemical reactions and pathways resulting in the breal ERLIN2	•		0,408322312
GO:0043161 GO:0012501	programmed cell death	A process which begins when a cell receives an internal or CNTFR SH3GLB1	7.14 1/14 14.29 2/14		0,408898892
GO:0012301 GO:0006091	generation of precursor metabolites and energy	The chemical reactions and pathways resulting in the form IDH1	7.14 1/14		0,408898892
GO:0006811	ion transport	The directed movement of charged atoms or small charges SLC5A9 SLC6A8	14.29 2/14		0,408898892
GO:0009896	positive regulation of catabolic process	Any process that activates or increases the frequency, rate SH3GLB1	7.14 1/14		0,410121831
GO:0016311	dephosphorylation	The process of removing one or more phosphoric (ester or ALPL	7.14 1/14		0,410121831
GO:0007015	actin filament organization	A process that is carried out at the cellular level which rest MARCKS	7.14 1/14		0,410121831
GO:0010638	positive regulation of organelle organization	Any process that increases the frequency, rate or extent of SH3GLB1	7.14 1/14		0,410121831
GO:0001501	skeletal system development	The process whose specific outcome is the progression of † ALPL	7.14 1/14	0.25 1/405	0,412863711
GO:0019221	cytokine-mediated signaling pathway	A series of molecular signals initiated by the binding of a c CNTFR	7.14 1/14	0.25 1/408	0,412963669
GO:0010256	endomembrane system organization	A process that is carried out at the cellular level which rest SH3GLB1	7.14 1/14	0.24 1/409	0,412963669
GO:0055085	transmembrane transport	The process in which a solute is transported across a lipid I SLC5A9 SLC6A8	14.29 2/14		0,420001124
GO:0007610	behavior	The internally coordinated responses (actions or inactions) CNTFR	7.14 1/14	0.24 1/421	0,420001124
GO:0008219	cell death	Any biological process that results in permanent cessation CNTFR SH3GLB1	14.29 2/14	0.14 2/1432	0,42672106
GO:0044283	small molecule biosynthetic process	The chemical reactions and pathways resulting in the form ERLIN2	7.14 1/14	0.23 1/437	0,42672106
GO:0070727	cellular macromolecule localization	Any process in which a macromolecule is transported to, a NAPA SH3GLB1	14.29 2/14	0.14 2/1438	
GO:0034613	cellular protein localization	Any process in which a protein is transported to, and/or m NAPA SH3GLB1	14.29 2/14	0.14 2/1432	0,42672106
GO:0090407	organophosphate biosynthetic process	The chemical reactions and pathways resulting in the biosy IDH1	7.14 1/14	0.23 1/439	0,42672106
GO:0033554	cellular response to stress	Any process that results in a change in state or activity of a ERLIN2 SH3GLB1	14.29 2/14		0,428211624
GO:0006820	anion transport	The directed movement of anions, atoms or small molecul SLC6A8	7.14 1/14	0.22 1/449	0,428211624
GO:0061061	muscle structure development	The progression of a muscle structure over time, from its f CNTFR	7.14 1/14		0,428211624
GO:0048513	animal organ development	Development of a tissue or tissues that work together to p ALPL CNTFR KRT10 The directed movement of substances (such as massamels CDEL NARA SUCEAN			0,428211624
GO:0006810	transport	The directed movement of substances (such as macromole CD5L NAPA SLC5A9			0,433436809
GO:0006897 GO:0033993	endocytosis response to lipid	A vesicle-mediated transport process in which cells take ut CD5L Any process that results in a change in state or activity of a ALPL	7.14 1/14	0.21 1/466 0.22 1/464	0,433436809 0,433436809
GO:0033993 GO:0010498	proteasomal protein catabolic process	The chemical reactions and pathways resulting in the breal ERLIN2	7.14 1/14 7.14 1/14		0,433436809
GO:0010498 GO:0007275	multicellular organism development	The biological process whose specific outcome is the progr ALPL CNTFR KRT10			0,433436809
GO:0007273 GO:0072657	protein localization to membrane	A process in which a protein is transported to, or maintain SH3GLB1	7.14 1/14		0,433436609
GO:0072037 GO:0005975	carbohydrate metabolic process	The chemical reactions and pathways involving carbohydra IDH1	7.14 1/14	0.21 1/4/3	0,444205924
GO:0003373	response to organic cyclic compound	Any process that results in a change in state or activity of a ALPL	7.14 1/14		0,451008587
GO:0014076	establishment of localization	Any process that localizes a substance or cellular compone CD5L NAPA SLC5A9			0,462048459
GO:0071705	nitrogen compound transport	The directed movement of nitrogen-containing compound NAPA SLC6A8	14.29 2/14		0,462048459
GO:0010564	regulation of cell cycle process	Any process that modulates a cellular process that is involv SH3GLB1	7.14 1/14		0,463737395
GO:0042221	response to chemical	Any process that results in a change in state or activity of a ALPL BSPRY CNTFR	28.57 4/14	0.10 4/4056	0,463737395
GO:0006950	response to stress	Any process that results in a change in state or activity of a ERLIN2 IDH1 SH3GL	21.43 3/14	0.11 3/2809	0,465301685

CO-0051669	localization within mambrana	Any process in which a substance or collular entity such as SU2CLD1	7 1 4 1 /1 4	0.10.1/541	0.474074404
GO:0051668	localization within membrane	* *	7.14 1/14		0,474974404
GO:0006508	proteolysis	The hydrolysis of proteins into smaller polypeptides and/o CD5L ERLIN2			0,487900758
GO:0006511			7.14 1/14		0,505700048
GO:0019941	modification-dependent protein catabolic process		7.14 1/14		0,513574642
GO:0043632	· · · · · · · · · · · · · · · · · · ·		7.14 1/14		0,515276864
GO:0030036	actin cytoskeleton organization	·	7.14 1/14		0,515276864
GO:0061024	membrane organization	· · · · · · · · · · · · · · · · · · ·	7.14 1/14		0,519503943
GO:0097435	supramolecular fiber organization		7.14 1/14		0,528353733
GO:0007417	central nervous system development	· · · · · · · · · · · · · · · · · · ·	7.14 1/14		0,532479195
GO:0008284	positive regulation of cell population proliferation	Any process that activates or increases the rate or extent c CNTFR	7.14 1/14	0.15 1/651	0,532479195
GO:0043066	negative regulation of apoptotic process		7.14 1/14		0,532479195
GO:0010243	response to organonitrogen compound	Any process that results in a change in state or activity of a ERLIN2	7.14 1/14	0.15 1/658	0,535111914
GO:0043069	negative regulation of programmed cell death	Any process that stops, prevents, or reduces the frequency CNTFR	7.14 1/14		0,536415959
GO:0098662	inorganic cation transmembrane transport	A process in which an inorganic cation is transported from SLC6A8	7.14 1/14	0.15 1/673	0,540234846
GO:0030029	actin filament-based process	Any cellular process that depends upon or alters the actin MARCKS	7.14 1/14	0.15 1/675	0,540234846
GO:0051603	proteolysis involved in cellular protein catabolic process	The hydrolysis of a peptide bond or bonds within a protein ERLIN2	7.14 1/14	0.14 1/696	0,551506482
GO:0016567	protein ubiquitination	The process in which one or more ubiquitin groups are add BSPRY	7.14 1/14	0.14 1/702	0,553273348
GO:0060548	negative regulation of cell death	Any process that decreases the rate or frequency of cell de CNTFR	7.14 1/14	0.14 1/719	0,56174767
GO:0098660	inorganic ion transmembrane transport	The process in which an inorganic ion is transported across SLC6A8	7.14 1/14	0.14 1/736	0,562127217
GO:0044257	cellular protein catabolic process	The chemical reactions and pathways resulting in the breal ERLIN2	7.14 1/14	0.14 1/732	0,562127217
GO:0008104	protein localization	Any process in which a protein is transported to, or mainta NAPA SH3GLB1	14.29 2/14	0.10 2/1967	0,562127217
GO:0033365	protein localization to organelle	A process in which a protein is transported to, or maintain SH3GLB1	7.14 1/14	0.14 1/729	0,562127217
GO:0019222	regulation of metabolic process	Any process that modulates the frequency, rate or extent (ALPL ANXA7 ERLIN2	35.71 5/14	0.08 5/5970	0,562127217
GO:1901698	response to nitrogen compound		7.14 1/14		0,562360499
GO:0006886	intracellular protein transport	,,	7.14 1/14		0,562360499
GO:0009605	response to external stimulus	· · · · · · · · · · · · · · · · · · ·			0,565704898
GO:0044087	regulation of cellular component biogenesis	,,	7.14 1/14		0,566188013
GO:0032446	protein modification by small protein conjugation		7.14 1/14		0,566188013
GO:0051130	positive regulation of cellular component organization	- · · · · · · · · · · · · · · · · · · ·	7.14 1/14		0,566188013
GO:0070925	organelle assembly		7.14 1/14		0,577235731
GO:0070323	regulation of cell cycle		7.14 1/14		0,577512781
GO:0098655	cation transmembrane transport	· ·	7.14 1/14		0,577781997
	•	·			0,588414518
GO:0009887	animal organ morphogenesis protein catabolic process		7.14 1/14		
GO:0030163 GO:0070647	·		7.14 1/14 7.14 1/14		0,606726245
			•		0,616170698
GO:0006518	peptide metabolic process		7.14 1/14		0,624366921
GO:0033043	regulation of organelle organization		7.14 1/14	0.11 1/903	0,62533545
GO:0022607	cellular component assembly	The aggregation, arrangement and bonding together of a c KRT10 MARCKS SH3			0,634395658
GO:0019538	protein metabolic process	The chemical reactions and pathways involving a protein. I BSPRY CD5L ERLIN2			0,645112565
GO:0022402	cell cycle process	•	7.14 1/14		0,649542338
GO:0044265	cellular macromolecule catabolic process		7.14 1/14		0,652646283
GO:0050896	response to stimulus	Any process that results in a change in state or activity of a ALPL BSPRY CNTFR E			0,652646283
GO:0033036	macromolecule localization		14.29 2/14		0,652646283
GO:0006796	phosphate-containing compound metabolic process	The chemical reactions and pathways involving the phosph ALPL IDH1	14.29 2/14		0,657397925
GO:0034220	ion transmembrane transport		7.14 1/14		0,657397925
GO:0051240	positive regulation of multicellular organismal process	Any process that activates or increases the frequency, rate ALPL	7.14 1/14	0.10 1/1022	0,659059358
GO:0006793	phosphorus metabolic process	The chemical reactions and pathways involving the nonme ALPL IDH1	14.29 2/14		0,659059358
GO:0051641	cellular localization	A cellular localization process whereby a substance or celli NAPA SH3GLB1	14.29 2/14	0.08 2/2418	0,659059358
GO:1901700	response to oxygen-containing compound	Any process that results in a change in state or activity of a ALPL	7.14 1/14	0.10 1/1028	0,659642725
GO:0044260	cellular macromolecule metabolic process	The chemical reactions and pathways involving macromole BSPRY ERLIN2 KRT10	28.57 4/14	0.08 4/530	0,661370354
GO:0042981	regulation of apoptotic process	Any process that modulates the occurrence or rate of cell (CNTFR	7.14 1/14	0.10 1/1039	0,661370354
GO:0010629	negative regulation of gene expression	Any process that decreases the frequency, rate or extent o ANXA7	7.14 1/14	0.10 1/1043	0,661370354
GO:0044085	cellular component biogenesis	A process that results in the biosynthesis of constituent m_i KRT10 MARCKS SH3	21.43 3/14	0.08 3/3907	0,663732525
GO:0043067	regulation of programmed cell death	Any process that modulates the frequency, rate or extent (CNTFR	7.14 1/14	0.09 1/106	0,665348444
GO:0065003	protein-containing complex assembly	The aggregation, arrangement and bonding together of a s KRT10 SH3GLB1	14.29 2/14	0.08 2/2520	0,670212347
GO:0019220	regulation of phosphate metabolic process	Any process that modulates the frequency, rate or extent (IDH1	7.14 1/14	0.09 1/1094	0,67133047
GO:0051174	regulation of phosphorus metabolic process	Any process that modulates the frequency, rate or extent (IDH1	7.14 1/14	0.09 1/1094	0,67133047
GO:0043603	cellular amide metabolic process	The chemical reactions and pathways involving an amide, ¿ IDH1	7.14 1/14	0.09 1/1112	0,676669002
GO:0051716	cellular response to stimulus	Any process that results in a change in state or activity of a ALPL BSPRY CNTFR E	35.71 5/14	0.07 5/6878	0,67838709
GO:1901565	organonitrogen compound catabolic process	The chemical reactions and pathways resulting in the breal ERLIN2	7.14 1/14	0.09 1/1129	0,679383777
GO:0010941	regulation of cell death	Any process that modulates the rate or frequency of cell d CNTFR	7.14 1/14	0.09 1/1142	0,682490344
GO:0042127	regulation of cell population proliferation	Any process that modulates the frequency, rate or extent cCNTFR	7.14 1/14	0.09 1/1156	0,685924626
GO:0043933	protein-containing complex organization		14.29 2/14	0.07 2/2678	0,69600714
GO:0015031	protein transport	The directed movement of proteins into, out of or within a NAPA	7.14 1/14	0.08 1/1193	0,69600714
GO:0016477	cell migration		7.14 1/14		0,697300013
GO:0009892	negative regulation of metabolic process	Any process that stops, prevents, or reduces the frequency ANXA7 ERLIN2	14.29 2/14	0.07 2/270	0,697698405
GO:0007010	cytoskeleton organization		7.14 1/14		0,70896947
GO:0031327	negative regulation of cellular biosynthetic process	•	7.14 1/14		0,711891578
GO:0009890	negative regulation of biosynthetic process		7.14 1/14	0.08 1/127	0,716163988
GO:0045184	establishment of protein localization		7.14 1/14	0.08 1/1286	0,717188907
GO:0007049	cell cycle		7.14 1/14		0,721647353
GO:0042592	homeostatic process		7.14 1/14		0,728911121
GO:0046907	intracellular transport		7.14 1/14		0,728911121
GO:0040307	localization of cell		7.14 1/14		0,728911121
GO:0031074 GO:0048870	cell motility		7.14 1/14		0,728911121
GO:0048870	cellular protein metabolic process	The chemical reactions and pathways involving a specific p BSPRY ERLIN2 KRT1			0,735627158
GO:00044207 GO:0008283	cell population proliferation	· · · · · · · · · · · · · · · · · · ·	7.14 1/14		0,742970078
GO:0008283 GO:0048519	negative regulation of biological process	Any process that stops, prevents, or reduces the frequency ANXA7 CNTFR ERLIN			0,742970078
GO:0048519 GO:0009893	positive regulation of metabolic process		21.43 3/14 14.29 2/14		
	-				0,749650637
GO:0040011	locomotion call differentiation	- · ·	7.14 1/14	0.07 1/1476	0,7569576
GO:0030154	cell differentiation	· · · · · · · · · · · · · · · · · · ·		0.06 2/3098	0,75795121
GO:0048869	cellular developmental process				0,769346524
GO:0006464	cellular protein modification process				0,780132201
GO:0036211	protein modification process				0,780132201
GO:0032501	multicellular organismal process	Any biological process, occurring at the level of a multicelli ALPL CNTFR KRT10 I			0,793981459
GO:0006996	organelle organization		14.29 2/14		0,794239542
GO:0051128	regulation of cellular component organization		7.14 1/14	0.06 1/1732	0,79698703
GO:0006928	movement of cell or subcellular component	The directed, self-propelled movement of a cell or subcelli GP2	7.14 1/14	0.06 1/1707	0,79698703
GO:0009889	regulation of biosynthetic process	Any process that modulates the frequency, rate or extent (ERLIN2 IDH1	14.29 2/14	0.06 2/3433	0,79698703

GO:0048518	positive regulation of biological process	Any process that activates or increases the frequency, rate ALPL CNTFR SH3GLE	21.43 3/14	0.06 3/4958	0,79698703
GO:0007399	nervous system development	The process whose specific outcome is the progression of I MARCKS	7.14 1/14	0.06 1/1710	0,79698703
GO:0043412	macromolecule modification	The covalent alteration of one or more monomeric units ir BSPRY KRT10	14.29 2/14	0.06 2/3413	0,79698703
GO:0031326	regulation of cellular biosynthetic process	Any process that modulates the frequency, rate or extent (ERLIN2 IDH1	14.29 2/14	0.06 2/3385	0,79698703
GO:0031323	regulation of cellular metabolic process	Any process that modulates the frequency, rate or extent (ERLIN2 IDH1 SH3GL)	21.43 3/14	0.06 3/5027	0,79698703
GO:0051649	establishment of localization in cell	Any process, occuring in a cell, that localizes a substance o NAPA	7.14 1/14	0.06 1/1783	0,804324588
GO:0071704	organic substance metabolic process	The chemical reactions and pathways involving an organic ALPL ANXA7 BSPRY	57.14 8/14	0.06 8/1236	0,8067419
GO:0009987	cellular process	Any process that is carried out at the cellular level, but not ALPL ANXA7 BSPRY	92.86 13/14	0.07 13/18	0,81858918
GO:0051239	regulation of multicellular organismal process	Any process that modulates the frequency, rate or extent (ALPL	7.14 1/14	0.05 1/1943	0,832200855
GO:0002376	immune system process	Any process involved in the development or functioning of GP2	7.14 1/14	0.05 1/2045	0,847565399
GO:0031324	negative regulation of cellular metabolic process	Any process that stops, prevents, or reduces the frequency ERLIN2	7.14 1/14	0.05 1/2035	0,847565399
GO:0048523	negative regulation of cellular process	Any process that stops, prevents, or reduces the frequency CNTFR ERLIN2	14.29 2/14	0.05 2/3856	0,848931299
GO:0009653	anatomical structure morphogenesis		7.14 1/14	0.05 1/210	0,854299974
GO:0008152	metabolic process	The chemical reactions and pathways, including anabolism ALPL ANXA7 BSPRY			0,864376958
GO:0044237	cellular metabolic process	The chemical reactions and pathways by which individual c ALPL ANXA7 BSPRY	50.00 7/14	0.06 7/1158	0,864687819
GO:0007166	cell surface receptor signaling pathway	A series of molecular signals initiated by activation of a rec CNTFR	7.14 1/14		0,872935767
GO:0007154	cell communication	Any process that mediates interactions between a cell and CNTFR ERLIN2 SH3G			0,903627165
GO:0010605	negative regulation of macromolecule metabolic process	* •	7.14 1/14		0,910119162
GO:0048522	positive regulation of cellular process	Any process that activates or increases the frequency, rate CNTFR SH3GLB1	14.29 2/14	0.04 2/4480	0,910119162
GO:0031325	positive regulation of cellular metabolic process		7.14 1/14		0,914830252
GO:0006807	nitrogen compound metabolic process	The chemical reactions and pathways involving organic or ALPL BSPRY CD5L EF	•		0,919988415
GO:0016043	cellular component organization	A process that results in the assembly, arrangement of con KRT10 MARCKS SH3			0,919988415
GO:0043170	macromolecule metabolic process	The chemical reactions and pathways involving macromole ANXA7 BSPRY CD5L			0,919988415
GO:0080090	regulation of primary metabolic process	Any process that modulates the frequency, rate or extent (ERLIN2 IDH1	14.29 2/14		0,930689335
GO:0071840	cellular component organization or biogenesis	A process that results in the biosynthesis of constituent mi KRT10 MARCKS SH3	- ,		0,930689335
GO:0050789	regulation of biological process	Any process that modulates the frequency, rate or extent (ALPL ANXA7 CNTFR			0,931829975
GO:0065008	regulation of biological quality		7.14 1/14		0,932184262
GO:0044249	cellular biosynthetic process	· · ·	14.29 2/14		0,941637763
GO:1901576	organic substance biosynthetic process		14.29 2/14		0,944150782
GO:0009058	biosynthetic process		14.29 2/14		0,94611299
GO:0007165	signal transduction		14.29 2/14	0.04 2/5642	0,96237207
GO:0065007	biological regulation	Any process that modulates a measurable attribute of any ALPL ANXA7 CNTFR		0.05 6/1190	
GO:1901362	organic cyclic compound biosynthetic process	• • • • • • • • • • • • • • • • • • • •	7.14 1/14	0.03 1/3552	0,96237207
GO:0023052	signaling	The entirety of a process in which information is transmitti CNTFR ERLIN2	14.29 2/14	0.03 2/6020	0.97662684
GO:0044238	primary metabolic process	The chemical reactions and pathways involving those comp BSPRY CD5L ERLIN2	- ,		0,988590329
GO:0010468	regulation of gene expression	· · · · · · · · · · · · · · · · · · ·	7.14 1/14		0,988590329
GO:1901360	organic cyclic compound metabolic process	The chemical reactions and pathways involving organic cyc ALPL ERLIN2	14.29 2/14		0.995002214
GO:0050794	regulation of cellular process	Any process that modulates the frequency, rate or extent (CNTFR ERLIN2 IDH1	. ,		0,995002214
GO:0030754	gene expression	The process in which a gene's sequence is converted into a ANXA7 CD5L	14.29 2/14		0,996675729
GO:0034641	cellular nitrogen compound metabolic process	The chemical reactions and pathways involving various org ALPL IDH1	14.29 2/14		0,996675729
GO:0060255	regulation of macromolecule metabolic process		7.14 1/14		0,996675729
GO:0006725	cellular aromatic compound metabolic process		7.14 1/14	0.01 1/689:	
GO:0006723	heterocycle metabolic process	The chemical reactions and pathways involving aromatic crack E	7.14 1/14	0.01 1/6828	0.99970648
GO:00040483	biological process	A biological process represents a specific objective that the ALPL ANXA7 BSPRY			0,55570048
20.0000230					-

_	ty_Enrichment_GO_BP_of_13prot_contributing_to_LL_group				
GO_BP GO:1903725		Function Gene Name Any process that modulates the frequency, rate or extent of ACSL3 PHB2	Term freque 16.67 2/12	Term frequer	P-value (fdr) 0,0635563
GO:1905667	negative regulation of protein localization to endosome	Any process that stops, prevents or reduces the frequency, re ANKRD13A		100.00 1/1	0,0650423
GO:0150173 GO:2001247		Any process that activates or increases the frequency, rate or ACSL3		100.00 1/1	0,0650423
GO:2001247 GO:0051049		Any process that activates or increases the frequency, rate or ACSL3 Any process that modulates the frequency, rate or extent of LACSL3 ANKRD13A NDRG4 PHB2 SURF4		100.00 1/1 0.42 5/1201	0,0650423 0,0650423
GO:0016192	vesicle-mediated transport	A cellular transport process in which transported substances ACSL3 ANKRD13A AP2B1 NDRG4 SURF4	41.67 5/12	0.39 5/1276	0,0650423
GO:0033600 GO:0032879		Any process that stops, prevents or reduces the rate or exten PHB2 Any process that modulates the frequency, rate or extent of ACSL3 ANKRD13A NDRG4 PHB2 SURF4		25.00 1/4 0.24 5/2055	0,0677404
GO:0032879 GO:0097384		The chemical reactions and pathways resulting in the formati FASN		12.50 1/8	0,0677404
GO:1904732		Any process that modulates the frequency, rate or extent of PHB2		14.29 1/7	0,0677404
GO:1904959 GO:0060341		Any process that modulates the frequency, rate or extent of : PHB2 Any process that modulates the frequency, rate or extent of : ACSL3 ANKRD13A NDRG4	8.33 1/12 25.00 3/12	16.67 1/6	0,0677404
GO:0000341 GO:0042695		The beginning of development of the breasts in the female. PHB2		20.00 1/5	0,0677404
GO:0033036		,,	50.00 6/12		0,0677404
GO:0010637 GO:0042996		Any process that decreases the frequency, rate or extent of n VAT1 Any process that modulates the frequency, rate or extent of 1 ACSL3		14.29 1/7 12.50 1/8	0,0677404 0,0677404
GO:0042998		Any process that activates or increases the frequency, rate or ACSL3		20.00 1/5	0,0677404
GO:0098876		The directed movement of substances to the plasma membri ACSL3 NDRG4	16.67 2/12		0,0677404
GO:0060744 GO:2001245		The process in which the branching structure of the mammai PHB2 Any process that modulates the frequency, rate or extent of ACSL3		20.00 1/5 50.00 1/2	0,0677404
GO:0034379		The non-covalent aggregation and arrangement of proteins a ACSL3		16.67 1/6	0,0677404
GO:0060627 GO:1990051		Any process that modulates the rate, frequency, or extent of ACSL3 ANKRD13A NDRG4	25.00 3/12 8.33 1/12	0.78 3/385 25.00 1/4	0,0677404
GO:0008611		Any process that initiates the activity of the inactive enzyme PHB2 The chemical reactions and pathways resulting in the formati FASN		12.50 1/8	0,0677404 0,0677404
GO:0006629	lipid metabolic process	The chemical reactions and pathways involving lipids, compo ACSL3 FASN PHB2 SQLE	33.33 4/12	0.36 4/1124	0,0677404
GO:0060762 GO:0006898	regulation of branching involved in mammary gland duct morphogen receptor-mediated endocytosis	Any process that modulates the rate, frequency, or extent of PHB2 An endocytosis process in which cell surface receptors ensure ANKRD13A AP2B1	8.33 1/12 16.67 2/12	25.00 1/4	0,0677404 0,0677404
GO:0046504		The chemical reactions and pathways resulting in the formati FASN		12.50 1/8	0,0677404
GO:0006897		A vesicle-mediated transport process in which cells take up e ANKRD13A AP2B1 SURF4	25.00 3/12		0,0677404
GO:0008104 GO:0002091		Any process in which a protein is transported to, or maintain ACSL3 ANKRD13A AP2B1 PHB2 SURF4 Any process that stops, prevents, or reduces the frequency, r ANKRD13A		0.25 5/1967 12.50 1/8	0,0677404
GO:0070374		Any process that activates or increases the frequency, rate or NDRG4 PHB2	16.67 2/12		0,0677404
GO:0006810		The directed movement of substances (such as macromolecu ACSL3 ANKRD13A AP2B1 ATP13A3 NDRG4 PH			0,0677404
GO:0015031 GO:0030223	·	The directed movement of proteins into, out of or within a cr ACSL3 AP2B1 PHB2 SURF4 The process in which a myeloid precursor cell acquires the sp FASN		0.34 4/1193 12.50 1/8	0,0677404 0,0677404
GO:0071073		Any process that activates or increases the frequency, rate or ACSL3		14.29 1/7	0,0677404
GO:0150172		Any process that modulates the frequency, rate or extent of ACSL3		16.67 1/6	0,0677404
GO:0008610 GO:0045136		The chemical reactions and pathways resulting in the formati ACSL3 FASN SQLE The process whose specific outcome is the progression of the PHB2	25.00 3/12 8.33 1/12	0.57 3/525 12.50 1/8	0,0677404
GO:1900208	regulation of cardiolipin metabolic process	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	33.33 1/3	0,0677404
GO:0051179		Any process in which a cell, a substance, or a cellular entity, s ACSL3 ANKRD13A AP2B1 ATP13A3 NDRG4 PH			0,0677404
GO:0051234 GO:0031536		Any process that localizes a substance or cellular component ACSL3 ANKRD13A AP2B1 ATP13A3 NDRG4 PH Any process that activates or increases the rate of progressio PHB2		20.00 1/5	0,0677404 0,0677404
GO:0030879	mammary gland development	The process whose specific outcome is the progression of the FASN PHB2	16.67 2/12	1.79 2/112	0,0677404
GO:0046543 GO:0010876		The process whose specific outcome is the progression of the PHB2 Any process in which a limit is transported to our maintained LACSI2 SQLE SUBE4	8.33 1/12 25.00 3/12	16.67 1/6	0,0677404 0,0677404
GO:0010876 GO:0045184		Any process in which a lipid is transported to, or maintained ACSL3 SQLE SURF4 The directed movement of a protein to a specific location. ACSL3 AP2B1 PHB2 SURF4	33.33 4/12		0,0677404
GO:1905666		Any process that modulates the frequency, rate or extent of ANKRD13A		11.11 1/9	0,0697581
GO:0090557 GO:1901503		The establishment of a barrier between endothelial cell layer FASN The chemical reactions and pathways resulting in the formati FASN		11.11 1/9 11.11 1/9	0,0697581 0,0697581
GO:0140042		A process that results in the assembly, arrangement of consti SQLE		11.11 1/9	0,0697581
GO:0033147	negative regulation of intracellular estrogen receptor signaling pathw			10.00 1/10	0,0707808
GO:1903727 GO:0010635		Any process that activates or increases the frequency, rate or ACSL3 Any process that modulates the frequency, rate or extent of I VAT1		10.00 1/10 10.00 1/10	0,0707808 0,0707808
GO:0010642	negative regulation of platelet-derived growth factor receptor signali			10.00 1/10	0,0707808
GO:0007096		Any process involved in the progression from anaphase/telor PHB2		9.09 1/11	0,0751064
GO:0140374 GO:0014912		A defense response against viruses mediated through an inn PHB2 Any process that stops, prevents, or reduces the frequency, r NDRG4		9.09 1/11 8.33 1/12	0,0751064 0,0753061
GO:0007202		The initiation of the activity of the inactive enzyme phospolic PHB2		8.33 1/12	0,0753061
GO:0070372		Any process that modulates the frequency, rate or extent of: NDRG4 PHB2	16.67 2/12		0,0753061
GO:0071071 GO:0046485		Any process that modulates the frequency, rate or extent of LACSL3 The chemical reactions and pathways involving ether lipids, li FASN		8.33 1/12 8.33 1/12	0,0753061 0,0753061
GO:0070371	ERK1 and ERK2 cascade	An intracellular protein kinase cascade containing at least ER NDRG4 PHB2	16.67 2/12	0.89 2/224	0,0786281
GO:0023035 GO:0070727		A series of molecular signals initiated by the binding of the cc PHB2		7.69 1/13 0.28 4/1438	0,0790106 0,0791132
GO:0070727 GO:0034613		Any process in which a macromolecule is transported to, and ACSL3 ANKRD13A AP2B1 PHB2 Any process in which a protein is transported to, and/or mair ACSL3 ANKRD13A AP2B1 PHB2		0.28 4/1438	0,0791132
GO:0019216	regulation of lipid metabolic process	Any process that modulates the frequency, rate or extent of I ACSL3 PHB2	16.67 2/12		0,0791132
GO:0034377 GO:0006662		The non-covalent aggregation and arrangement of proteins a ACSL3 The chemical reactions and pathways involving glycerol ethel FASN		6.25 1/16 6.67 1/15	0,0791132 0,0791132
GO:0006656		The chemical reactions and pathways involving greet of edict rack. The chemical reactions and pathways resulting in the formati ACSL3		6.25 1/16	0,0791132
GO:0033599		Any process that modulates the frequency, rate or extent of I PHB2		6.25 1/16	0,0791132
GO:0060973 GO:0035336		The orderly movement of a cell from one site to another thal NDRG4 The chemical reactions and pathways involving long-chain fal ACSL3		6.67 1/15 6.25 1/16	0,0791132 0,0791132
GO:0140014	mitotic nuclear division	A mitotic cell cycle process comprising the steps by which the CUL9 PHB2	16.67 2/12	0.81 2/248	0,0791132
GO:0010155 GO:0042953		Any process that modulates the frequency, rate or extent of PHB2 The directed movement of any conjugated, water-soluble prc SURF4		6.25 1/16 6.67 1/15	0,0791132 0,0791132
GO:0042953 GO:0044872		Any process in which a lipoprotein is transported to, or main! SURF4		6.67 1/15	0,0791132
GO:0048261	negative regulation of receptor-mediated endocytosis	Any process that stops, prevents, or reduces the frequency, r ANKRD13A	8.33 1/12	6.67 1/15	0,0791132
GO:0051641 GO:2001135		A cellular localization process whereby a substance or cellula ACSL3 ANKRD13A AP2B1 NDRG4 PHB2 Any process that modulates the frequency, rate or extent of INDRG4		0.21 5/2418 5.88 1/17	0,0791132 0,0815475
GO:0032048	cardiolipin metabolic process	The chemical reactions and pathways involving cardiolipin, 1, PHB2	8.33 1/12	5.88 1/17	0,0815475
GO:0006650		The chemical reactions and pathways involving glycerophosp ACSL3 PHB2		0.76 2/262	0,0816634
GO:0060749 GO:0065005		The progression of the mammary gland alveolus over time, fi PHB2 The aggregation, arrangement and bonding together of prote ACSL3		5.26 1/19 5.00 1/20	0,0826025 0,0826025
GO:0034389		A process that is carried out at the cellular level which result: SQLE		5.00 1/20	0,0826025
GO:0018904		The chemical reactions and pathways involving organic ether FASN	8.33 1/12	5.00 1/20	0,0826025
GO:0140354 GO:0036010		The directed movement of a lipid from outside of a cell into a ACSL3 A process in which a protein is transported to, or maintained ANKRD13A		5.26 1/19 5.26 1/19	0,0826025 0,0826025
GO:0010863	positive regulation of phospholipase C activity	Any process that increases the rate of phospholipase C activil PHB2	8.33 1/12	5.00 1/20	0,0826025
GO:0010458		The cell cycle transition where a cell leaves M phase and entr PHB2	8.33 1/12	5.00 1/20	0,0826025
GO:0039529 GO:0044539		Any series of molecular signals generated as a consequence c PHB2 The directed movement of a long-chain fatty acid from outsir ACSL3		5.00 1/20 5.56 1/18	0,0826025 0,0826025
GO:0061377	mammary gland lobule development	The progression of the mammary gland lobule over time, fro PHB2	8.33 1/12	5.26 1/19	0,0826025
GO:0071705 GO:0010640	nitrogen compound transport regulation of platelet-derived growth factor receptor signaling pathw	The directed movement of nitrogen-containing compounds in ACSL3 AP2B1 PHB2 SURF4		0.25 4/1587 4.76 1/21	0,0826025 0,0826635
GO:0010640 GO:1900274		Any process that modulates the frequency, rate or extent of NDRG4 Any process that modulates the frequency, rate or extent of PHB2		4.76 1/21	0,0826635
GO:0060444	branching involved in mammary gland duct morphogenesis	The process in which the branching structure of the mammai PHB2	8.33 1/12	4.76 1/21	0,0826635
GO:0044255 GO:0071353		The chemical reactions and pathways involving lipids, as carri ACSL3 FASN PHB2 Any process that results in a change in state or activity of a cr FASN		0.35 3/852 4.76 1/21	0,0826635 0,0826635
GO:0071333 GO:0035337		The chemical reactions and pathways involving a fatty-acyl-C ACSL3		4.76 1/21	0,0836905
GO:0070670		Any process that results in a change in state or activity of a cr FASN		4.55 1/22	0,0836905
GO:0002068 GO:0048732		The process whose specific outcome is the progression of a g FASN The process whose specific outcome is the progression of a g FASN PHB2	8.33 1/12 16.67 2/12	4.55 1/22 0.65 2/306	0,0836905 0,0874493
GO:0000423	mitophagy	The selective autophagy process in which a mitochondrion is PHB2	8.33 1/12	4.17 1/24	0,0886417
GO:0039528	cytoplasmic pattern recognition receptor signaling pathway in respon			4.17 1/24	0,0886417
GO:0006631 GO:0033043		The chemical reactions and pathways involving fatty acids, all ACSL3 FASN Any process that modulates the frequency, rate or extent of: CUL9 SURF4 VAT1	16.67 2/12 25.00 3/12		0,0895066 0,0895066

GO:0006869	lipid transport	The directed movement of lipids into, out of or within a cell, ACSL3 SURF4	16.67 2/12	0.60 2/332	0,0906447
GO:0033598	mammary gland epithelial cell proliferation	The multiplication or reproduction of mammary gland epithe PHB2	8.33 1/12	3.70 1/27	0,0906447
GO:0014910	regulation of smooth muscle cell migration	Any process that modulates the frequency, rate or extent of : NDRG4	8.33 1/12	3.85 1/26	0,0906447
GO:0033146 GO:0060603	regulation of intracellular estrogen receptor signaling pathway mammary gland duct morphogenesis	Any process that modulates the frequency, rate or extent of I PHB2 The process in which anatomical structures of the mammary PHB2	8.33 1/12 8.33 1/12	3.85 1/26 3.70 1/27	0,0906447 0,0906447
GO:0060603 GO:0046471	phosphatidylglycerol metabolic process	The chemical reactions and pathways involving phosphatidyl ₁ PHB2		3.70 1/27	0,0906447
GO:0030224	monocyte differentiation	The process in which a relatively unspecialized myeloid prect FASN	8.33 1/12	3.70 1/27	0,0906447
GO:0008053	mitochondrial fusion	Merging of two or more mitochondria within a cell to form a VAT1	8.33 1/12	3.85 1/26	0,0906447
GO:0051128	regulation of cellular component organization	Any process that modulates the frequency, rate or extent of : ANKRD13A CUL9 SURF4 VAT1		0.23 4/1732	0,0906447
GO:0048662 GO:0006644	negative regulation of smooth muscle cell proliferation	Any process that stops, prevents or reduces the rate or exten NDRG4 The chemical reactions and pathways involving phospholipid: ACSL3 PHB2	8.33 1/12 16.67 2/12		0,0914053 0,0914053
GO:0006644 GO:0030851	phospholipid metabolic process granulocyte differentiation	The process in which a myeloid precursor cell acquires the sp FASN	8.33 1/12	3.57 1/28	0,0914053
GO:0045806	negative regulation of endocytosis	Any process that stops, prevents, or reduces the frequency, r ANKRD13A	8.33 1/12	3.45 1/29	0,0928188
GO:0043001	Golgi to plasma membrane protein transport	The directed movement of proteins from the Golgi to the pla ACSL3	8.33 1/12	3.45 1/29	0,0928188
GO:0046486 GO:0033144	glycerolipid metabolic process	The chemical reactions and pathways involving glycerolipids, ACSL3 PHB2	16.67 2/12		0,0936966
GO:0033144 GO:0008542	negative regulation of intracellular steroid hormone receptor signalin visual learning	Any process that stops, prevents, or reduces the frequency, r PHB2 Any process in an organism in which a change in behavior of NDRG4	8.33 1/12 8.33 1/12	3.23 1/30	0,0944323 0,0944809
GO:0007346	regulation of mitotic cell cycle	Any process that modulates the rate or extent of progress thi CUL9 PHB2	16.67 2/12		0,0944809
GO:0010518	positive regulation of phospholipase activity	Any process that increases the frequency, rate or extent of pl PHB2	8.33 1/12	3.23 1/31	0,0944809
GO:0071827	plasma lipoprotein particle organization	A protein-lipid complex subunit organization process that res ACSL3		3.23 1/31	0,0944809
GO:0014909 GO:0000280	smooth muscle cell migration nuclear division	The orderly movement of a smooth muscle cell from one site NDRG4 The division of a cell nucleus into two nuclei, with DNA and o CUL9 PHB2	8.33 1/12	3.12 1/32	0,0967403 0,0988684
GO:0000280 GO:0007632	visual behavior	The behavior of an organism in response to a visual stimulus. NDRG4	16.67 2/12 8.33 1/12		0,0988684
GO:0043410	positive regulation of MAPK cascade	Any process that activates or increases the frequency, rate or NDRG4 PHB2	16.67 2/12		0,0988684
GO:0010823	negative regulation of mitochondrion organization	Any process that decreases the frequency, rate or extent of a VAT1	8.33 1/12	2.94 1/34	0,0988684
GO:0071825	protein-lipid complex subunit organization	Any process in which macromolecules aggregate, disaggregal ACSL3	8.33 1/12	2.94 1/34	0,0988684
GO:0002090 GO:0002066	regulation of receptor internalization columnar/cuboidal epithelial cell development	Any process that modulates the frequency, rate or extent of I ANKRD13A The process whose specific outcome is the progression of a c FASN	8.33 1/12 8.33 1/12	2.78 1/36 2.78 1/36	0,1015722 0,1015722
GO:0002000 GO:1902808	positive regulation of cell cycle G1/S phase transition	Any signalling pathway that activates or increases the activity PHB2	8.33 1/12	2.78 1/36	0,1015722
GO:0010517	regulation of phospholipase activity	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	2.78 1/36	0,1015722
GO:0061028	establishment of endothelial barrier	The establishment of a barrier between endothelial cell layer FASN	8.33 1/12	2.56 1/39	0,1046019
GO:0060443	mammary gland morphogenesis	The process in which anatomical structures of the mammary PHB2	8.33 1/12	2.56 1/39	0,1046019
GO:0016126 GO:0002753	sterol biosynthetic process cytoplasmic pattern recognition receptor signaling pathway	The chemical reactions and pathways resulting in the formati SQLE Any series of molecular signals generated as a consequence (PHB2	8.33 1/12 8.33 1/12	2.56 1/39 2.56 1/39	0,1046019 0,1046019
GO:1901568	fatty acid derivative metabolic process	The chemical reactions and pathways involving fatty acid der ACSL3	8.33 1/12	2.63 1/38	0,1046019
GO:0030520	intracellular estrogen receptor signaling pathway	Any series of molecular signals generated as a consequence (PHB2	8.33 1/12	2.63 1/38	0,1046019
GO:0002639	positive regulation of immunoglobulin production	Any process that activates or increases the frequency, rate, o PHB2	8.33 1/12	2.63 1/38	0,1046019
GO:0060688	regulation of morphogenesis of a branching structure	Any process that modulates the rate, frequency, or extent of PHB2	8.33 1/12	2.50 1/40	0,106515
GO:0071702	organic substance transport	The directed movement of organic substances into, out of or ACSL3 AP2B1 PHB2 SURF4 The creation of two or more organelles by division of one org CUL9 PHB2	33.33 4/12 16.67 2/12	0.20 4/1968	0,1066871
GO:0048285 GO:0072583	organelle fission clathrin-dependent endocytosis	An endocytosis process that begins when material is taken us AP2B1	8.33 1/12	2.44 1/41	0,1075817 0,1075817
GO:0060193	positive regulation of lipase activity	Any process that increases the frequency, rate or extent of lip PHB2	8.33 1/12	2.33 1/43	0,1113385
GO:0002067	glandular epithelial cell differentiation	The process in which a relatively unspecialized cell acquires s FASN	8.33 1/12	2.27 1/44	0,1123881
GO:0006893	Golgi to plasma membrane transport	The directed movement of substances from the Golgi to the ACSL3	8.33 1/12	2.27 1/44	0,1123881
GO:0014812	•	The orderly movement of a muscle cell from one site to anot NDRG4	8.33 1/12	2.22 1/45	0,1141551
GO:0007005 GO:1903078	mitochondrion organization positive regulation of protein localization to plasma membrane	A process that is carried out at the cellular level which result: PHB2 VAT1 Any process that activates or increases the frequency, rate or ACSL3	16.67 2/12 8.33 1/12	0.45 2/444 2.08 1/48	0,1170456 0,1170456
GO:0061951	establishment of protein localization to plasma membrane	The directed movement of a protein to a specific location in : ACSL3	8.33 1/12	2.13 1/47	0,1170456
GO:0097006	regulation of plasma lipoprotein particle levels	Any process involved in the maintenance of internal levels of ACSL3	8.33 1/12	2.08 1/48	0,1170456
GO:1905330	regulation of morphogenesis of an epithelium	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	2.08 1/48	0,1170456
GO:0042127	regulation of cell population proliferation	Any process that modulates the frequency, rate or extent of NDRG4 PHB2 SQLE		0.26 3/1156	0,1170456
GO:0046470 GO:0048856	phosphatidylcholine metabolic process anatomical structure development	The chemical reactions and pathways involving phosphatidyli ACSL3 The biological process whose specific outcome is the progres ACSL3 CMTM8 FASN NDRG4 PHB2 VAT1	8.33 1/12	2.04 1/49 0.14 6/4373	0,1179583 0,1179583
GO:0048278	vesicle docking	The initial attachment of a transport vesicle membrane to the NDRG4	8.33 1/12	2.00 1/50	0,1173333
GO:0048008	platelet-derived growth factor receptor signaling pathway	The series of molecular signals generated as a consequence c NDRG4	8.33 1/12	2.00 1/50	0,1188472
GO:0008306	associative learning	Learning by associating a stimulus (the cause) with a particuli NDRG4	8.33 1/12	1.96 1/51	0,1197131
GO:0007062	sister chromatid cohesion	The cell cycle process in which the sister chromatids of a repl PHB2		1.96 1/51	0,1197131
GO:0032787 GO:0008285	monocarboxylic acid metabolic process negative regulation of cell population proliferation	The chemical reactions and pathways involving monocarbox, ACSL3 FASN Any process that stops, prevents or reduces the rate or exten NDRG4 PHB2	16.67 2/12 16.67 2/12		0,120659 0,120659
GO:0008283 GO:0060191	regulation of lipase activity	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	1.92 1/52	0,120659
GO:0001885	endothelial cell development	The progression of an endothelial cell over time, from its forr FASN	8.33 1/12	1.89 1/53	0,1213794
GO:1904377	positive regulation of protein localization to cell periphery	Any process that activates or increases the frequency, rate or ACSL3	8.33 1/12	1.85 1/54	0,1229043
GO:0098586	cellular response to virus	Any process that results in a change in state or activity of a cc PHB2	8.33 1/12	1.82 1/55	0,12441
GO:0002637 GO:0033143	regulation of immunoglobulin production	Any process that modulates the frequency, rate, or extent of PHB2		1.79 1/56	0,125165
GO:1901224	regulation of intracellular steroid hormone receptor signaling pathwa positive regulation of NIK/NF-kappaB signaling	Any process that modulates the frequency, rate or extent of PRB2		1.79 1/56 1.75 1/57	0,125165 0,1266291
GO:0046889	positive regulation of lipid biosynthetic process	Any process that activates or increases the frequency, rate or ACSL3	8.33 1/12	1.72 1/58	0,1280752
GO:0015909	long-chain fatty acid transport	The directed movement of long-chain fatty acids into, out of ACSL3	8.33 1/12	1.69 1/59	0,1295036
GO:0006996	organelle organization	A process that is carried out at the cellular level which result: CUL9 PHB2 SQLE SURF4 VAT1		0.15 5/3330	0,130146
GO:0061180	mammary gland epithelium development	The process whose specific outcome is the progression of the PHB2	8.33 1/12 16.67 2/12	1.67 1/60	0,130146
GO:0051129 GO:0061912	negative regulation of cellular component organization selective autophagy	Any process that stops, prevents, or reduces the frequency, r ANKRD13A VAT1 The macroautophagy process in which specific structures are PHB2	8.33 1/12	1.64 1/61	0,130146 0,1308302
GO:0010564	regulation of cell cycle process	Any process that modulates a cellular process that is involver CUL9 PHB2	16.67 2/12		0,1340659
GO:0048259	regulation of receptor-mediated endocytosis	Any process that modulates the frequency, rate or extent of ANKRD13A	8.33 1/12	1.59 1/63	0,1340659
GO:0043408	regulation of MAPK cascade	Any process that modulates the frequency, rate or extent of : NDRG4 PHB2	16.67 2/12		0,1352115
GO:0000422 GO:0061726	autophagy of mitochondrion mitochondrion disassembly	The autophagic process in which mitochondria are delivered PHB2 The disaggregation of a mitochondrion into its constituent cc PHB2	8.33 1/12 8.33 1/12	1.52 1/66 1.52 1/66	0,1375199 0,1375199
GO:1901992	positive regulation of mitotic cell cycle phase transition	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	1.49 1/67	0,1373199
GO:0001676	long-chain fatty acid metabolic process	The chemical reactions and pathways involving long-chain fat ACSL3	8.33 1/12	1.47 1/68	0,1380196
GO:0051668	localization within membrane	Any process in which a substance or cellular entity, such as a ACSL3 NDRG4	16.67 2/12	0.37 2/541	0,1380196
GO:0032456	endocytic recycling	The directed movement of membrane-bounded vesicles fron NDRG4		1.47 1/68	0,1380196
GO:0140056 GO:0019915	organelle localization by membrane tethering lipid storage	The process by which an organelle membrane interacts with NDRG4 The accumulation and maintenance in cells or tissues of lipid SQLE	8.33 1/12 8.33 1/12	1.49 1/67 1.45 1/69	0,1380196 0,1391169
GO:0015515	intracellular transport	The directed movement of substances within a cell. AP2B1 NDRG4 PHB2		0.22 3/1335	0,1391109
GO:0051341	regulation of oxidoreductase activity	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	1.43 1/70	0,1396249
GO:0002065	columnar/cuboidal epithelial cell differentiation	The process in which a relatively unspecialized cell acquires s FASN	8.33 1/12	1.39 1/72	0,1398364
GO:0032502	developmental process	A biological process whose specific outcome is the progressic ACSL3 CMTM8 FASN NDRG4 PHB2 VAT1		0.13 6/4755	0,1398364
GO:0035383 GO:0015908	thioester metabolic process fatty acid transport	The chemical reactions and pathways involving a thioester, a ACSL3 The directed movement of fatty acids into, out of or within a ACSL3	8.33 1/12 8.33 1/12	1.39 1/72 1.41 1/71	0,1398364 0,1398364
GO:0015908 GO:0006637	acyl-CoA metabolic process	The chemical reactions and pathways involving acyl-CoA, any ACSL3	8.33 1/12	1.41 1//1	0,1398364
GO:0048660	regulation of smooth muscle cell proliferation	Any process that modulates the frequency, rate or extent of : NDRG4	8.33 1/12	1.41 1/71	0,1398364
GO:0048659	smooth muscle cell proliferation	The multiplication or reproduction of smooth muscle cells, re NDRG4	8.33 1/12	1.37 1/73	0,1403721
GO:0022406	membrane docking	The initial attachment of a membrane or protein to a target NDRG4	8.33 1/12	1.35 1/74	0,141545
GO:1905477 GO:0006892	positive regulation of protein localization to membrane post-Golgi vesicle-mediated transport	Any process that activates or increases the frequency, rate or ACSL3 The directed movement of substances from the Golgi to othe ACSL3	8.33 1/12 8.33 1/12	1.32 1/76 1.32 1/76	0,1438528 0,1438528
GO:0006892 GO:1903047	mitotic cell cycle process	A process that is part of the mitotic cell cycle. CUL9 PHB2	16.67 2/12	0.34 2/584	0,1438528
GO:0000165	MAPK cascade	An intracellular protein kinase cascade containing at least a N NDRG4 PHB2	16.67 2/12	0.34 2/591	0,1479802
GO:1901222	regulation of NIK/NF-kappaB signaling	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12		0,1479802
GO:0008283	cell population proliferation	The multiplication or reproduction of cells, resulting in the ex NDRG4 PHB2 SQLE		0.21 3/1409	0,1479802
GO:0032880 GO:0045446	regulation of protein localization endothelial cell differentiation	Any process that modulates the frequency, rate or extent of : ACSL3 ANKRD13A The process in which a mesodermal, bone marrow or neural FASN	16.67 2/12 8.33 1/12	0.34 2/594 1.23 1/81	0,1479802 0,1479802
GO:0002377	immunoglobulin production	The appearance of immunoglobulin due to biosynthesis or se PHB2	8.33 1/12	1.23 1/81	0,1479802
GO:0032368	regulation of lipid transport	Any process that modulates the frequency, rate or extent of I SURF4	8.33 1/12	1.19 1/84	0,149056
GO:0048731	system development	The process whose specific outcome is the progression of an ACSL3 CMTM8 FASN NDRG4 PHB2	41.67 5/12	0.14 5/3612	0,149056
GO:0030518	intracellular steroid hormone receptor signaling pathway	A series of molecular signals generated as a consequence of ; PHB2	8.33 1/12	1.19 1/84	0,149056
GO:0034032 GO:0007088	purine nucleoside bisphosphate metabolic process regulation of mitotic nuclear division	The chemical reactions and pathways involving a purine nucl. ACSL3 Any process that modulates the frequency, rate or extent of LCUL9	8.33 1/12 8.33 1/12	1.16 1/86 1.18 1/85	0,149056 0,149056
GO:1903076	regulation of protein localization to plasma membrane	Any process that modulates the frequency, rate or extent of LOCES Any process that modulates the frequency, rate or extent of LACSL3	8.33 1/12	1.16 1/86	0,149056
GO:0033865	nucleoside bisphosphate metabolic process	The chemical reactions and pathways involving a nucleoside ACSL3	8.33 1/12	1.16 1/86	0,149056

GO:1901989	positive regulation of cell cycle phase transition	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	1.18 1/85	0,149056
GO:0002702	positive regulation of production of molecular mediator of immune regulation and the production of molecular mediator of immune regulations and the production of molecular mediator of immune regulations and the production of molecular mediator of immune regulation of production of molecular mediator of immune regulations and the production of molecular mediator of immune regulations are production of molecular mediator of immune regulations and the production of molecular mediator of immune regulations are production of molecular mediator of immune regulations are production of molecular mediator of immune regulations are producted in the production of molecular mediator of immune regulations are producted in the production of molecular mediator of immune regulations are producted in the production of the produ			1.20 1/83	0,149056
GO:0033875 GO:0031623	ribonucleoside bisphosphate metabolic process receptor internalization	The chemical reactions and pathways involving a ribonucleos ACSL3 A receptor-mediated endocytosis process that results in the r ANKRD13A		1.16 1/86 1.19 1/84	0,149056 0,149056
GO:0016043	cellular component organization	A process that results in the assembly, arrangement of consti ACSL3 ANKRD13A CUL9 PHB2 SQLE SURF4 VA			0,1495738
GO:0044281 GO:0003158	small molecule metabolic process endothelium development	The chemical reactions and pathways involving small molecu ACSL3 FASN SQLE The process whose specific outcome is the progression of an FASN		0.21 3/1460 1.12 1/89	0,1509158 0,1520562
GO:0040011	locomotion	Self-propelled movement of a cell or organism from one loca CMTM8 NDRG4 PHB2	25.00 3/12	0.20 3/1476	0,153326
GO:2000027 GO:1903008	regulation of animal organ morphogenesis organelle disassembly	Any process that modulates the frequency, rate or extent of : PHB2 The disaggregation of an organelle into its constituent compt PHB2		1.10 1/91 1.10 1/91	0,153326 0,153326
GO:0045931	positive regulation of mitotic cell cycle	Any process that activates or increases the rate or extent of p PHB2	8.33 1/12	1.08 1/93	0,1545588
GO:0042552 GO:0007612	myelination learning	The process in which myelin sheaths are formed and maintai CMTM8 Any process in an organism in which a relatively long-lasting : NDRG4		1.08 1/93 1.08 1/93	0,1545588 0,1545588
GO:0007012 GO:0008366	axon ensheathment	Any process in which the axon of a neuron is insulated, and tl CMTM8		1.05 1/95	0,1564306
GO:0007272 GO:0032147	ensheathment of neurons activation of protein kinase activity	The process in which glial cells envelop neuronal cell bodies a CMTM8 Any process that initiates the activity of an inactive protein ki PHB2		1.05 1/95	0,1564306
GO:0032147 GO:0008203	cholesterol metabolic process	The chemical reactions and pathways involving cholesterol, c SQLE		1.04 1/96 1.04 1/96	0,1566777 0,1566777
GO:0043401	steroid hormone mediated signaling pathway	A series of molecular signals mediated by a steroid hormone PHB2		1.01 1/99	0,1593899
GO:0038061 GO:0022612	NIK/NF-kappaB signaling gland morphogenesis	The process in which a signal is passed on to downstream cor PHB2 The process in which the anatomical structures of a gland are PHB2		1.01 1/99 1.01 1/99	0,1593899 0,1593899
GO:0050680	negative regulation of epithelial cell proliferation	Any process that stops, prevents or reduces the rate or exten PHB2	8.33 1/12	0.99 1/101	0,1602184
GO:0022603 GO:0016125	regulation of anatomical structure morphogenesis sterol metabolic process	Any process that modulates the frequency, rate or extent of : PHB2 VAT1 The chemical reactions and pathways involving sterols, steroi SQLE	16.67 2/12 8.33 1/12	0.30 2/671 0.97 1/103	0,1602184 0,1602184
GO:0010123 GO:0071840	cellular component organization or biogenesis	A process that results in the biosynthesis of constituent macr ACSL3 ANKRD13A CUL9 PHB2 SQLE SURF4 VA			0,1602184
GO:0010821	regulation of mitochondrion organization	Any process that modulates the frequency, rate or extent of a VAT1		0.98 1/102	0,1602184
GO:0043467 GO:1902806	regulation of generation of precursor metabolites and energy regulation of cell cycle G1/S phase transition	Any process that modulates the frequency, rate or extent of PHB2 Any signalling pathway that modulates the activity of a cell of PHB2		1.00 1/100 0.97 1/103	0,1602184 0,1602184
GO:1902652	secondary alcohol metabolic process	The chemical reactions and pathways involving secondary alc SQLE	8.33 1/12	0.99 1/101	0,1602184
GO:1904375 GO:0045834	regulation of protein localization to cell periphery positive regulation of lipid metabolic process	Any process that modulates the frequency, rate or extent of ACSL3 Any process that activates or increases the frequency, rate or ACSL3		0.96 1/104 0.96 1/104	0,1604151 0,1604151
GO:0010562	positive regulation of phosphorus metabolic process	Any process that increases the frequency, rate or extent of th ACSL3 PHB2	16.67 2/12	0.29 2/698	0,1653601
GO:0051783 GO:0033002	regulation of nuclear division muscle cell proliferation	Any process that modulates the frequency, rate or extent of I CUL9 The expansion of a muscle cell population by cell division. NDRG4		0.91 1/110 0.91 1/110	0,1653601 0,1653601
GO:0045937	positive regulation of phosphate metabolic process	Any process that activates or increases the frequency, rate or ACSL3 PHB2	16.67 2/12		0,1653601
GO:0007275	multicellular organism development	The biological process whose specific outcome is the progres ACSL3 CMTM8 FASN NDRG4 PHB2		0.13 5/3871	0,1653601
GO:1905952 GO:0007030	regulation of lipid localization Golgi organization	Any process that modulates the frequency, rate or extent of I SURF4 A process that is carried out at the cellular level which result: SURF4		0.91 1/110 0.88 1/113	0,1653601 0,1690606
GO:0000278	mitotic cell cycle	Progression through the phases of the mitotic cell cycle, the I CUL9 PHB2	16.67 2/12	0.28 2/717	0,1702816
GO:0006694 GO:0002700	steroid biosynthetic process regulation of production of molecular mediator of immune response	The chemical reactions and pathways resulting in the formati SQLE Any process that modulates the frequency, rate, or extent of PHR2		0.86 1/116 0.85 1/117	0,1720475 0,1728058
GO:0002700 GO:0033365	protein localization to organelle	A process in which a protein is transported to, or maintained ANKRD13A PHB2	16.67 2/12		0,1732908
GO:0055088 GO:0048284	lipid homeostasis organelle fusion	Any process involved in the maintenance of an internal stead SURF4		0.83 1/120 0.83 1/120	0,1743679 0,1743679
GO:0048284 GO:0019752	carboxylic acid metabolic process	The creation of a single organelle from two or more organelle VAT1 The chemical reactions and pathways involving carboxylic aci ACSL3 FASN	8.33 1/12 16.67 2/12		0,1743679
GO:1902533	positive regulation of intracellular signal transduction	Any process that activates or increases the frequency, rate or NDRG4 PHB2	16.67 2/12		0,1756061
GO:0006886 GO:0043436	intracellular protein transport oxoacid metabolic process	The directed movement of proteins in a cell, including the m ₁ AP2B1 PHB2 The chemical reactions and pathways involving any oxoacid; ACSL3 FASN	16.67 2/12 16.67 2/12		0,1757661 0,1758757
GO:0043433	negative regulation of DNA-binding transcription factor activity	Any process that stops, prevents, or reduces the frequency, r PHB2	8.33 1/12	0.81 1/123	0,1758757
GO:0046890 GO:0006633	regulation of lipid biosynthetic process fatty acid biosynthetic process	Any process that modulates the frequency, rate or extent of LACSL3 The chemical reactions and pathways resulting in the formati FASN		0.81 1/124 0.81 1/124	0,1759247 0,1759247
GO:00065007	biological regulation	Any process that modulates a measurable attribute of any bir ACSL3 ANKRD13A ATP13A3 CMTM8 CUL9 NDI			0,1798833
GO:0007399	nervous system development	The process whose specific outcome is the progression of nei ACSL3 CMTM8 NDRG4		0.18 3/1710	0,1798833
GO:0030100 GO:0002221	regulation of endocytosis pattern recognition receptor signaling pathway	Any process that modulates the frequency, rate or extent of ANKRD13A Any series of molecular signals generated as a consequence c PHB2		0.77 1/130 0.76 1/131	0,1798833 0,1798833
GO:0048754	branching morphogenesis of an epithelial tube	The process in which the anatomical structures of branches in PHB2	8.33 1/12	0.77 1/130	0,1798833
GO:0006082 GO:0006606	organic acid metabolic process protein import into nucleus	The chemical reactions and pathways involving organic acids, ACSL3 FASN The directed movement of a protein from the cytoplasm to t PHB2	16.67 2/12 8.33 1/12	0.26 2/774 0.78 1/128	0,1798833 0,1798833
GO:0001383	cellular response to steroid hormone stimulus	Any process that results in a change in state or activity of a cr PHB2		0.77 1/130	0,1798833
GO:0043112	receptor metabolic process	The chemical reactions and pathways involving a receptor mr ANKRD13A The directed movement of substances into the nucleus. PHB2		0.77 1/130	0,1798833
GO:0051170 GO:1903828	import into nucleus negative regulation of protein localization	The directed movement of substances into the nucleus. PHB2 Any process that stops, prevents or reduces the frequency, ra ANKRD13A		0.76 1/132 0.75 1/134	0,1800977 0,1820676
GO:1905475	regulation of protein localization to membrane	Any process that modulates the frequency, rate or extent of ACSL3	8.33 1/12	0.74 1/135	0,1827169
GO:0051726 GO:0019637	regulation of cell cycle organophosphate metabolic process	Any process that modulates the rate or extent of progression CUL9 PHB2 The chemical reactions and pathways involving organophosp ACSL3 PHB2	16.67 2/12 16.67 2/12		0,1837433 0,1840459
GO:0013657 GO:0098655	cation transmembrane transport	The process in which a cation is transported across a membri ATP13A3 PHB2	16.67 2/12	0.25 2/794	0,1840459
GO:0009755	hormone-mediated signaling pathway	A series of molecular signals mediated by the detection of a I PHB2			0,1891055
GO:0002440 GO:0044843	production of molecular mediator of immune response cell cycle G1/S phase transition	The synthesis or release of any molecular mediator of the im PHB2 The cell cycle process by which a cell in G1 phase commits to PHB2	8.33 1/12 8.33 1/12	0.70 1/143 0.69 1/144	0,1897128 0,1903151
GO:0051649	establishment of localization in cell	Any process, occuring in a cell, that localizes a substance or c AP2B1 NDRG4 PHB2	25.00 3/12	0.17 3/1783	0,1916847
GO:0050821 GO:1902600	protein stabilization proton transmembrane transport	Any process involved in maintaining the structure and integri PHB2 The directed movement of a proton across a membrane. PHB2		0.68 1/147 0.67 1/149	0,1927645 0,1946008
GO:0048545	response to steroid hormone	Any process that results in a change in state or activity of a cc PHB2		0.66 1/152	0,1976688
GO:0072330 GO:0061138	monocarboxylic acid biosynthetic process morphogenesis of a branching epithelium	The chemical reactions and pathways resulting in the formati FASN The process in which the anatomical structures of a branchet PHB2	8.33 1/12 8.33 1/12	0.65 1/153 0.64 1/156	0,198227 0,2005615
GO:0001138 GO:0046474	glycerophospholipid biosynthetic process	The chemical reactions and pathways resulting in the formati ACSL3		0.64 1/156	0,2005615
GO:0002573	myeloid leukocyte differentiation	The process in which a relatively unspecialized myeloid prect FASN		0.64 1/157	0,2011014
GO:0050794 GO:0007611	regulation of cellular process learning or memory	Any process that modulates the frequency, rate or extent of ACSL3 ANKRD13A CMTM8 CUL9 NDRG4 PHB2 The acquisition and processing of information and/or the sto NDRG4		0.09 9/10398 0.62 1/161	0,2028349 0,2039067
GO:0002064	epithelial cell development	The process whose specific outcome is the progression of an FASN	8.33 1/12	0.62 1/161	0,2039067
GO:0060429 GO:0002699	epithelium development positive regulation of immune effector process	The process whose specific outcome is the progression of an FASN PHB2 Any process that activates or increases the frequency, rate, o PHB2		0.23 2/875 0.59 1/169	0,2066201 0,2107181
GO:0002053	morphogenesis of a branching structure	The process in which the anatomical structures of branches a PHB2		0.60 1/168	0,2107181
GO:0032412 GO:0048878	regulation of ion transmembrane transporter activity	Any process that modulates the activity of an ion transporter PHB2 Any biological process involved in the maintenance of an inte ATP13A3 SURF4		0.59 1/169 0.22 2/900	0,2107181 0,2139191
GO:0048878 GO:1901617	chemical homeostasis organic hydroxy compound biosynthetic process	The chemical reactions and pathways resulting in the formati SQLE		0.22 2/900	0,2139191
GO:0000819	sister chromatid segregation	The cell cycle process in which sister chromatids are organizε PHB2	8.33 1/12	0.56 1/178	0,2184768
GO:0022898 GO:0090068	regulation of transmembrane transporter activity positive regulation of cell cycle process	Any process that modulates the frequency, rate or extent of PHB2 Any process that increases the rate, frequency or extent of a PHB2		0.56 1/178 0.55 1/181	0,2184768 0,2205231
GO:0017038	protein import	The targeting and directed movement of proteins into a cell (PHB2		0.55 1/181	0,2205231
GO:0051222	positive regulation of protein transport	Any process that activates or increases the frequency, rate or ACSL3		0.54 1/184	0,2232642
GO:0008654 GO:0051047	phospholipid biosynthetic process positive regulation of secretion	The chemical reactions and pathways resulting in the formati ACSL3 Any process that activates or increases the frequency, rate or ACSL3		0.54 1/185 0.53 1/187	0,2236859 0,2252481
GO:0032409	regulation of transporter activity	Any process that modulates the activity of a transporter. PHB2	8.33 1/12	0.53 1/188	0,2256587
GO:0050890 GO:0045017	cognition glycerolipid biosynthetic process	The operation of the mind by which an organism becomes av NDRG4 The chemical reactions and pathways resulting in the formati ACSL3		0.53 1/189 0.53 1/190	0,226066 0,2264701
GO:0009968	negative regulation of signal transduction	Any process that stops, prevents, or reduces the frequency, r NDRG4 PHB2	16.67 2/12	0.21 2/964	0,2307464
GO:0022402	cell cycle process	The cellular process that ensures successive accurate and cor CUL9 PHB2 Any process that stops prevents or reduces the frequency r NDBC4		0.21 2/965	0,2307464
GO:0030336 GO:1904951	negative regulation of cell migration positive regulation of establishment of protein localization	Any process that stops, prevents, or reduces the frequency, r NDRG4 Any process that activates or increases the frequency, rate or ACSL3		0.51 1/197 0.50 1/199	0,2321305 0,2336164
GO:0098657	import into cell	The directed movement of some substance from outside of a ACSL3	8.33 1/12	0.50 1/200	0,233984
GO:0016197 GO:0016236	endosomal transport macroautophagy	The directed movement of substances mediated by an endos NDRG4 The major inducible pathway for the general turnover of cytc PHB2		0.50 1/201 0.49 1/205	0,2343488 0,2372573
GO:0030522	intracellular receptor signaling pathway	Any series of molecular signals initiated by a ligand binding to PHB2	8.33 1/12	0.49 1/205	0,2372573
GO:0006812 GO:2000146	cation transport negative regulation of cell motility	The directed movement of cations, atoms or small molecules ATP13A3 PHB2 Any process that stops, prevents, or reduces the frequency, r NDRG4		0.20 2/999 0.48 1/207	0,2384555 0,2384555
GO:2000146 GO:0140546	defense response to symbiont	Reactions triggered in response to the presence of a symbior PHB2		0.48 1/207	0,2384555
GO:0034220	ion transmembrane transport	A process in which an ion is transported across a membrane. ATP13A3 PHB2		0.20 2/1004	0,2389703
GO:0051607 GO:0051271	defense response to virus negative regulation of cellular component movement	Reactions triggered in response to the presence of a virus the PHB2 Any process that stops, prevents, or reduces the frequency, r NDRG4	8.33 1/12 8.33 1/12	0.48 1/210 0.47 1/211	0,2389703 0,2393048
	• • • • • • • • • • • • • • • • • • • •	t e e	•	-	-

GO:0090150	establishment of protein localization to membrane	The directed movement of a protein to a specific location in ACSL3	8.33 1/12		0,2396367
GO:0010648 GO:0051091	negative regulation of cell communication positive regulation of DNA-binding transcription factor activity	Any process that activates or increases the frequency, rate or extent of c NDRG4 PHB2	16.67 2/12 8.33 1/12	0.20 2/1021 0.47 1/215	0,2420058 0,2420058
GO:0031091 GO:0023057	negative regulation of signaling	Any process that activates or increases the frequency, rate or PHB2 Any process that stops, prevents, or reduces the frequency, r NDRG4 PHB2		0.47 1/213	0,2420058
GO:0032386	regulation of intracellular transport	Any process that modulates the frequency, rate or extent of I NDRG4	8.33 1/12	0.45 1/220	0,245135
GO:1901990	regulation of mitotic cell cycle phase transition	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	0.45 1/221	0,2454391
GO:0009416	response to light stimulus	Any process that results in a change in state or activity of a cr NDRG4	8.33 1/12	0.44 1/229	0,250745 0.250745
GO:0008202 GO:1904062	steroid metabolic process regulation of cation transmembrane transport	The chemical reactions and pathways involving steroids, com SQLE Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12 8.33 1/12	0.44 1/229 0.44 1/228	0,250745
GO:0034504	protein localization to nucleus	A process in which a protein transports or maintains the loca PHB2	8.33 1/12	0.44 1/229	0,250745
GO:0031647	regulation of protein stability	Any process that affects the structure and integrity of a prote PHB2	8.33 1/12	0.43 1/231	0,2512982
GO:0072659	protein localization to plasma membrane	A process in which a protein is transported to, or maintained ACSL3	8.33 1/12	0.43 1/231	0,2512982
GO:0040013	negative regulation of locomotion	Any process that stops, prevents, or reduces the frequency, r NDRG4	8.33 1/12	0.43 1/232	0,2515714
GO:0042113 GO:0046394	B cell activation carboxylic acid biosynthetic process	The change in morphology and behavior of a mature or imm: PHB2 The chemical reactions and pathways resulting in the formati FASN	8.33 1/12 8.33 1/12	0.43 1/235 0.42 1/239	0,2538673 0,2571514
GO:0016053	organic acid biosynthetic process	The chemical reactions and pathways resulting in the formati FASN	8.33 1/12	0.41 1/242	0,2586473
GO:0045787	positive regulation of cell cycle	Any process that activates or increases the rate or extent of p PHB2	8.33 1/12	0.41 1/242	0,2586473
GO:0019220	regulation of phosphate metabolic process	Any process that modulates the frequency, rate or extent of † ACSL3 PHB2		0.18 2/1094	0,258661
GO:0051174 GO:0048193	regulation of phosphorus metabolic process Golgi vesicle transport	Any process that modulates the frequency, rate or extent of I ACSL3 PHB2 The directed movement of substances into, out of or within t ACSL3	16.67 2/12 8.33 1/12	0.18 2/1094 0.40 1/247	0,258661 0,2613431
GO:0048133 GO:0098813	nuclear chromosome segregation	The process in which genetic material, in the form of nuclear PHB2	8.33 1/12	0.40 1/247	0,2615723
GO:0002697	regulation of immune effector process	Any process that modulates the frequency, rate, or extent of PHB2	8.33 1/12	0.40 1/252	0,2647397
GO:0015849	organic acid transport	The directed movement of organic acids, any acidic compour ACSL3	8.33 1/12	0.39 1/255	0,2669057
GO:0050678 GO:0050789	regulation of epithelial cell proliferation	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.39 1/256	0,2671126
GO:0050789 GO:0051235	regulation of biological process maintenance of location	Any process that modulates the frequency, rate or extent of : ACSL3 ANKRD13A CMTM8 CUL9 NDRG4 PHB2 Any process in which a cell, substance or cellular entity, such SQLE	8.33 1/12	0.38 1/262	0,2673604
GO:0060562	epithelial tube morphogenesis	The process in which the anatomical structures of a tube are PHB2	8.33 1/12	0.38 1/265	0,273483
GO:0006066	alcohol metabolic process	The chemical reactions and pathways involving alcohols, any SQLE	8.33 1/12	0.38 1/266	0,2736637
GO:0009615	response to virus	Any process that results in a change in state or activity of a ci PHB2	8.33 1/12	0.37 1/269	0,2741964
GO:0006913 GO:0051169	nucleocytoplasmic transport nuclear transport	The directed movement of molecules between the nucleus a PHB2 The directed movement of substances into, out of, or within PHB2	8.33 1/12 8.33 1/12	0.37 1/269 0.37 1/269	0,2741964 0.2741964
GO:0009967	positive regulation of signal transduction	Any process that activates or increases the frequency, rate or NDRG4 PHB2		0.17 2/1161	0,2741304
GO:0051051	negative regulation of transport	Any process that stops, prevents, or reduces the frequency, r ANKRD13A	8.33 1/12	0.37 1/272	0,2747156
GO:0006790	sulfur compound metabolic process	The chemical reactions and pathways involving the nonmetal ACSL3	8.33 1/12	0.37 1/272	0,2747156
GO:1990778	protein localization to cell periphery	A process in which a protein is transported to, or maintained ACSL3	8.33 1/12	0.36 1/274	0,2758183
GO:0010639 GO:0016477	negative regulation of organelle organization cell migration	Any process that decreases the frequency, rate or extent of a VAT1 The controlled self-propelled movement of a cell from one si NDRG4 PHB2	8.33 1/12	0.36 1/279 0.17 2/1202	0,279697 0,2864115
GO:0030099	myeloid cell differentiation	The process in which a relatively unspecialized myeloid prect FASN	8.33 1/12	0.17 2/1202	0,2882686
GO:1901987	regulation of cell cycle phase transition	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.34 1/298	0,2947726
GO:0045860	positive regulation of protein kinase activity	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	0.33 1/299	0,2948722
GO:0009150	purine ribonucleotide metabolic process	The chemical reactions and pathways involving a purine riboi ACSL3	8.33 1/12	0.33 1/301	0,2954114
GO:0048585 GO:0002764	negative regulation of response to stimulus immune response-regulating signaling pathway	Any process that stops, prevents, or reduces the frequency, r NDRG4 PHB2 The cascade of processes by which a signal interacts with a re PHB2	16.67 2/12 8.33 1/12	0.16 2/1236 0.33 1/303	0,2954114 0,2960626
GO:0002704 GO:0007059	chromosome segregation	The process in which genetic material, in the form of chrome PHB2	8.33 1/12	0.33 1/303	0,2961552
GO:1903829	positive regulation of protein localization	Any process that activates or increases the frequency, rate or ACSL3	8.33 1/12	0.33 1/305	0,2962468
GO:0050673	epithelial cell proliferation	The multiplication or reproduction of epithelial cells, resultin PHB2	8.33 1/12	0.32 1/308	0,298114
GO:0044772	mitotic cell cycle phase transition	The cell cycle process by which a cell commits to entering the PHB2	8.33 1/12	0.32 1/311	0,2999668
GO:0009314 GO:0051223	response to radiation regulation of protein transport	Any process that results in a change in state or activity of a cr NDRG4 Any process that modulates the frequency, rate or extent of rACSL3	8.33 1/12 8.33 1/12	0.32 1/314 0.32 1/314	0,3009983
GO:1902531	regulation of intracellular signal transduction	Any process that modulates the frequency, rate or extent of i NDRG4 PHB2		0.16 2/1270	0,3018567
GO:0006874	cellular calcium ion homeostasis	Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12	0.32 1/317	0,3020144
GO:0009259	ribonucleotide metabolic process	The chemical reactions and pathways involving a ribonucleot ACSL3	8.33 1/12	0.31 1/318	0,3020824
GO:0006163	purine nucleotide metabolic process	The chemical reactions and pathways involving a purine nucli ACSL3	8.33 1/12	0.31 1/323	0,3048038
GO:0010647 GO:0023056	positive regulation of cell communication positive regulation of signaling	Any process that increases the frequency, rate or extent of cr NDRG4 PHB2 Any process that activates, maintains or increases the freque NDRG4 PHB2		0.16 2/1286 0.15 2/1293	0,3048038 0,3049732
GO:0022411	cellular component disassembly	A cellular process that results in the breakdown of a cellular (PHB2	8.33 1/12	0.31 1/325	0,3049732
GO:0034765	regulation of ion transmembrane transport	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	0.31 1/326	0,3049732
GO:0019693	ribose phosphate metabolic process	The chemical reactions and pathways involving ribose phospi ACSL3	8.33 1/12	0.31 1/327	0,3050282
GO:0055074 GO:0007049	calcium ion homeostasis	Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12	0.30 1/328	0,3050824
GO:0007049 GO:0051090	cell cycle regulation of DNA-binding transcription factor activity	The progression of biochemical and morphological phases an CUL9 PHB2 Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.15 2/1305 0.30 1/333	0,3009113
GO:0070201	regulation of establishment of protein localization	Any process that modulates the frequency, rate or extent of HACSL3	8.33 1/12	0.30 1/336	0,3094363
GO:0048523	negative regulation of cellular process	Any process that stops, prevents, or reduces the frequency, r ANKRD13A NDRG4 PHB2 VAT1	33.33 4/12	0.10 4/3856	0,309986
GO:0140694	non-membrane-bounded organelle assembly	The aggregation, arrangement and bonding together of a set SQLE	8.33 1/12	0.28 1/351	0,314588
GO:0042592	homeostatic process	Any biological process involved in the maintenance of an inte ATP13A3 SURF4		0.15 2/1352	0,314588
GO:0048870 GO:1903131	cell motility mononuclear cell differentiation	Any process involved in the controlled self-propelled movem NDRG4 PHB2 The process in which a relatively unspecialized cell acquires t FASN	8.33 1/12	0.15 2/1350 0.29 1/349	0,314588 0,314588
GO:0071396	cellular response to lipid	Any process that results in a change in state or activity of a ci PHB2	8.33 1/12	0.29 1/347	0,314588
GO:0051674	localization of cell	Any process in which a cell is transported to, and/or maintair NDRG4 PHB2		0.15 2/1350	0,314588
GO:0006811	ion transport	The directed movement of charged atoms or small charged n ATP13A3 PHB2		0.15 2/1347	0,314588
GO:0072521 GO:0072503	purine-containing compound metabolic process cellular divalent inorganic cation homeostasis	The chemical reactions and pathways involving a purine-cont ACSL3 Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12 8.33 1/12	0.29 1/346 0.29 1/347	0,314588 0,314588
GO:0072594	establishment of protein localization to organelle	The directed movement of a protein to a specific location on PHB2	8.33 1/12	0.28 1/357	0,3178959
GO:0072507	divalent inorganic cation homeostasis	Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12	0.27 1/364	0,3217928
GO:0033674	positive regulation of kinase activity	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	0.27 1/364	0,3217928
GO:0048513 GO:0055085	animal organ development transmembrane transport	Development of a tissue or tissues that work together to perl FASN NDRG4 PHB2 The process in which a solute is transported across a lipid bilk ATP13A3 PHB2		0.11 3/2612 0.14 2/1405	0,3217928 0,3297505
GO:0055085	process utilizing autophagic mechanism	A cellular process involving delivery of a portion of the cytop PHB2	8.33 1/12	0.14 2/1405	0,3328304
GO:0001313	cellular response to organic cyclic compound	Any process that results in a change in state or activity of a ci PHB2	8.33 1/12	0.26 1/383	0,3328304
GO:0006914	autophagy	The cellular catabolic process in which cells digest parts of th PHB2	8.33 1/12	0.26 1/382	0,3328304
GO:0006091	generation of precursor metabolites and energy regulation of transmembrane transport	The chemical reactions and pathways resulting in the formati PHB2 Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	0.26 1/386	0,3335216
GO:0034762 GO:0009888	regulation of transmembrane transport tissue development	Any process that modulates the frequency, rate or extent of FPHB2 The process whose specific outcome is the progression of a ti FASN PHB2	8.33 1/12 16.67 2/12	0.26 1/386 0.14 2/1431	0,3335216 0,3341879
GO:0044770	cell cycle phase transition	The cell cycle process by which a cell commits to entering the PHB2	8.33 1/12	0.26 1/391	0,335741
GO:1901615	organic hydroxy compound metabolic process	The chemical reactions and pathways involving organic hydrc SQLE	8.33 1/12	0.25 1/398	0,3394535
GO:0010638	positive regulation of organelle organization	Any process that increases the frequency, rate or extent of a SURF4	8.33 1/12	0.25 1/398	0,3394535
GO:0002009 GO:0009117	morphogenesis of an epithelium	The process in which the anatomical structures of epithelia a PHB2 The chemical reactions and pathways involving a nucleotide, ACSL3	8.33 1/12 8.33 1/12	0.25 1/404 0.25 1/402	0,3398845 0,3398845
GO:0003117	nucleotide metabolic process heart development	The process whose specific outcome is the progression of the NDRG4	8.33 1/12	0.25 1/402	0,3398845
GO:0051046	regulation of secretion	Any process that modulates the frequency, rate or extent of I ACSL3	8.33 1/12	0.25 1/400	0,3398845
GO:0032870	cellular response to hormone stimulus	Any process that results in a change in state or activity of a co PHB2	8.33 1/12	0.25 1/404	0,3398845
GO:0010256	endomembrane system organization	A process that is carried out at the cellular level which result: SURF4	8.33 1/12	0.24 1/409	0,3428081
GO:0006753 GO:0051345	nucleoside phosphate metabolic process positive regulation of hydrolase activity	The chemical reactions and pathways involving any phosphor ACSL3 Any process that activates or increases the frequency, rate or PHB2	8.33 1/12 8.33 1/12	0.24 1/412 0.24 1/420	0,3442209 0,349226
GO:0051345 GO:0007610	behavior	The internally coordinated responses (actions or inactions) of NDRG4	8.33 1/12	0.24 1/420	0,349226
GO:0051347	positive regulation of transferase activity	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	0.23 1/428	0,3535291
GO:0044283	small molecule biosynthetic process	The chemical reactions and pathways resulting in the formati FASN	8.33 1/12	0.23 1/437	0,3575507
GO:0002521	leukocyte differentiation	The process in which a relatively unspecialized hemopoietic; FASN	8.33 1/12	0.23 1/437	0,3575507
GO:0006875 GO:0090407	cellular metal ion homeostasis organophosphate biosynthetic process	Any process involved in the maintenance of an internal stead ATP13A3 The chemical reactions and pathways resulting in the biosynt ACSL3	8.33 1/12 8.33 1/12	0.23 1/435 0.23 1/439	0,3575507 0,3581511
GO:0051640	organelle localization	Any process in which an organelle is transported to, and/or n NDRG4	8.33 1/12	0.23 1/439	0,3593387
GO:0043269	regulation of ion transport	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.23 1/442	0,3593387
GO:0002252	immune effector process	Any process of the immune system that executes a compone PHB2	8.33 1/12	0.22 1/454	0,3663269
GO:0033993	response to lipid	Any process that results in a change in state or activity of a cr PHB2	8.33 1/12	0.22 1/464	0,3716645
GO:0007420 GO:0030855	brain development epithelial cell differentiation	The process whose specific outcome is the progression of the NDRG4 The process in which a relatively unspecialized cell acquires s FASN	8.33 1/12 8.33 1/12	0.22 1/463 0.21 1/470	0,3716645 0,3749985
GO:0030833	protein localization to membrane	A process in which a protein is transported to, or maintained ACSL3	8.33 1/12	0.21 1/473	0,3743383
GO:0055086	nucleobase-containing small molecule metabolic process	The cellular chemical reactions and pathways involving a nuc ACSL3	8.33 1/12	0.21 1/477	0,3775412
GO:0048584	positive regulation of response to stimulus	Any process that activates, maintains or increases the rate of NDRG4 PHB2	16.67 2/12	0.12 2/1617	0,3775412

GO:0048729	tissue morphogenesis	The process in which the anatomical structures of a tissue arı PHB2		0.21 1/486	0,3816918
GO:0065008 GO:0009725	regulation of biological quality response to hormone	Any process that modulates a qualitative or quantitative trait ATP13A3 PHB2 SURF4 Any process that results in a change in state or activity of a cr PHB2	25.00 3/12 8.33 1/12	0.10 3/2959 0.20 1/488	0,3816918 0,3821825
GO:0055065	metal ion homeostasis	Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12	0.20 1/495	0,383239
GO:0030003	cellular cation homeostasis	Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12	0.20 1/491	0,383239
GO:0045859 GO:0007169	regulation of protein kinase activity transmembrane receptor protein tyrosine kinase signaling pathway	Any process that modulates the frequency, rate or extent of PHB2 A series of molecular signals initiated by the binding of an ex NDRG4		0.20 1/496 0.20 1/496	0,383239 0,383239
GO:0014070	response to organic cyclic compound	Any process that results in a change in state or activity of a cr PHB2	8.33 1/12	0.20 1/495	0,383239
GO:0006873 GO:0006935	cellular ion homeostasis chemotaxis	Any process involved in the maintenance of an internal stead ATP13A3 The directed movement of a motile cell or organism, or the c CMTM8	8.33 1/12 8.33 1/12	0.20 1/504 0.20 1/503	0,385975 0,385975
GO:0060333	head development	The biological process whose specific outcome is the progres NDRG4	8.33 1/12	0.20 1/503	0,385975
GO:0042330	taxis	The directed movement of a motile cell or organism in respo CMTM8		0.20 1/506	0,3864328
GO:0048522 GO:0006928	positive regulation of cellular process movement of cell or subcellular component	Any process that activates or increases the frequency, rate or ACSL3 NDRG4 PHB2 SURF4 The directed, self-propelled movement of a cell or subcellula NDRG4 PHB2		0.09 4/4480 0.12 2/1707	0,393603 0,3958285
GO:0048519	negative regulation of biological process	Any process that stops, prevents, or reduces the frequency, r ANKRD13A NDRG4 PHB2 VAT1	33.33 4/12	0.09 4/4543	0,405219
GO:0055080 GO:0045087	cation homeostasis innate immune response	Any process involved in the maintenance of an internal stead ATP13A3 Innate immune responses are defense responses mediated b PHB2	8.33 1/12 8.33 1/12	0.18 1/556 0.18 1/558	0,4153099 0,4156599
GO:0098771	inorganic ion homeostasis	Any process involved in the maintenance of an internal stead ATP13A3		0.18 1/565	0,4191672
GO:0000226 GO:0051050	microtubule cytoskeleton organization positive regulation of transport	A process that is carried out at the cellular level which result: CUL9 Any process that activates or increases the frequency, rate or ACSL3		0.18 1/569	0,4207582 0,4242116
GO:0031030 GO:0044248	cellular catabolic process	The chemical reactions and pathways resulting in the breakd CUL9 PHB2		0.17 1/576 0.11 2/1814	0,4242116
GO:0050793	regulation of developmental process	Any process that modulates the frequency, rate or extent of PHB2 VAT1		0.11 2/1822	0,4258722
GO:0001934 GO:0006511	positive regulation of protein phosphorylation ubiquitin-dependent protein catabolic process	Any process that activates or increases the frequency, rate or PHB2 The chemical reactions and pathways resulting in the breakd CUL9		0.17 1/583 0.17 1/589	0,4258722
GO:0055082	cellular chemical homeostasis	Any biological process involved in the maintenance of an inte ATP13A3	8.33 1/12	0.17 1/586	0,4266619
GO:0043549 GO:0071310	regulation of kinase activity cellular response to organic substance	Any process that modulates the frequency, rate or extent of I PHB2 Any process that results in a change in state or activity of a cr FASN PHB2		0.17 1/588 0.11 2/1848	0,4266619 0,430665
GO:0071310 GO:0050801	ion homeostasis	Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12	0.17 1/602	0,4323745
GO:0019941 GO:0046649	modification-dependent protein catabolic process lymphocyte activation	The chemical reactions and pathways resulting in the breakd CUL9		0.17 1/603	0,4323745
GO:0048649 GO:0043632	modification-dependent macromolecule catabolic process	A change in morphology and behavior of a lymphocyte result PHB2 The chemical reactions and pathways resulting in the breakd CUL9	8.33 1/12 8.33 1/12	0.17 1/605 0.16 1/611	0,4326457 0,4353083
GO:0050776	regulation of immune response	Any process that modulates the frequency, rate or extent of 1 PHB2	8.33 1/12	0.16 1/616	0,4373526
GO:0043066 GO:0035239	negative regulation of apoptotic process tube morphogenesis	Any process that stops, prevents, or reduces the frequency, r PHB2 The process in which the anatomical structures of a tube are PHB2	8.33 1/12 8.33 1/12	0.15 1/646 0.15 1/646	0,4511908 0,4511908
GO:0033253	multicellular organismal process	Any biological process, occurring at the level of a multicellula ACSL3 CMTM8 FASN NDRG4 PHB2		0.08 5/6399	0,4511908
GO:0007417	central nervous system development	The process whose specific outcome is the progression of the NDRG4	8.33 1/12	0.15 1/649	0,4511908
GO:0042327 GO:0051093	positive regulation of phosphorylation negative regulation of developmental process	Any process that activates or increases the frequency, rate or PHB2 Any process that stops, prevents or reduces the rate or exten VAT1	8.33 1/12 8.33 1/12	0.15 1/647 0.15 1/651	0,4511908 0,4511908
GO:0046903	secretion	The controlled release of a substance by a cell or a tissue. ACSL3	8.33 1/12	0.16 1/645	0,4511908
GO:0071345 GO:0019725	cellular response to cytokine stimulus cellular homeostasis	Any process that results in a change in state or activity of a cr FASN Any process involved in the maintenance of an internal stead ATP13A3	8.33 1/12 8.33 1/12	0.15 1/660 0.15 1/660	0,4544275 0,4544275
GO:0043069	negative regulation of programmed cell death	Any process that stops, prevents, or reduces the frequency, r PHB2	8.33 1/12	0.15 1/663	0,4551756
GO:0003006 GO:0030097	developmental process involved in reproduction	A developmental process in which a progressive change in th PHB2	8.33 1/12 8.33 1/12	0.15 1/666 0.15 1/670	0,4559176
GO:0030097 GO:0098662	hemopoiesis inorganic cation transmembrane transport	The process whose specific outcome is the progression of the FASN A process in which an inorganic cation is transported from or PHB2	8.33 1/12	0.15 1/673	0,4572163 0,4579443
GO:0002684	positive regulation of immune system process	Any process that activates or increases the frequency, rate, o PHB2	8.33 1/12	0.15 1/677	0,4582698
GO:0051338 GO:0009605	regulation of transferase activity response to external stimulus	Any process that modulates the frequency, rate or extent of PHB2 Any process that results in a change in state or activity of a cr CMTM8 PHB2		0.15 1/676 0.10 2/2004	0,4582698 0,4603966
GO:0048518	positive regulation of biological process	Any process that activates or increases the frequency, rate or ACSL3 NDRG4 PHB2 SURF4	33.33 4/12	0.08 4/4958	0,4603966
GO:0051241 GO:0030334	negative regulation of multicellular organismal process regulation of cell migration	Any process that stops, prevents, or reduces the frequency, r PHB2 Any process that modulates the frequency, rate or extent of INDRG4	8.33 1/12 8.33 1/12	0.15 1/686 0.14 1/697	0,4603966 0,4641036
GO:0050534 GO:0051603	proteolysis involved in cellular protein catabolic process	The hydrolysis of a peptide bond or bonds within a protein at CUL9	8.33 1/12	0.14 1/697	0,4641036
GO:0009628	response to abiotic stimulus	Any process that results in a change in state or activity of a cr NDRG4	8.33 1/12	0.14 1/698	0,4641036
GO:0031324 GO:0016567	negative regulation of cellular metabolic process protein ubiquitination	Any process that stops, prevents, or reduces the frequency, r ANKRD13A PHB2 The process in which one or more ubiquitin groups are addec CUL9		0.10 2/2035 0.14 1/702	0,4643665 0,4643678
GO:0048534	hematopoietic or lymphoid organ development	The process whose specific outcome is the progression of an FASN	8.33 1/12	0.14 1/705	0,4645733
GO:0002376 GO:0045321	immune system process leukocyte activation	Any process involved in the development or functioning of th FASN PHB2 A change in morphology and behavior of a leukocyte resultin PHB2		0.10 2/2045 0.14 1/713	0,4645733 0,4664732
GO:0034097	response to cytokine	Any process that results in a change in state or activity of a cr FASN	8.33 1/12	0.14 1/713	0,4664732
GO:0060548	negative regulation of cell death	Any process that decreases the rate or frequency of cell deat PHB2		0.14 1/719	0,4687105
GO:0044257 GO:0035556	cellular protein catabolic process intracellular signal transduction	The chemical reactions and pathways resulting in the breakd: CUL9 The process in which a signal is passed on to downstream cor NDRG4 PHB2	8.33 1/12 16.67 2/12	0.14 1/732 0.10 2/2097	0,4746063 0,4747833
GO:0098660	inorganic ion transmembrane transport	The process in which an inorganic ion is transported across a PHB2	8.33 1/12	0.14 1/736	0,4747833
GO:0009056 GO:2000145	catabolic process regulation of cell motility	The chemical reactions and pathways resulting in the breakd CUL9 PHB2 Any process that modulates the frequency, rate or extent of INDRG4	16.67 2/12 8.33 1/12	0.09 2/2106	0,4750372 0,4750372
GO:0009653	anatomical structure morphogenesis	The process in which anatomical structures are generated an PHB2 VAT1		0.09 2/2107	0,4750372
GO:0002520	immune system development	The process whose specific outcome is the progression of an FASN	8.33 1/12	0.13 1/758	0,4813342
GO:0032446 GO:0051130	protein modification by small protein conjugation positive regulation of cellular component organization	A protein modification process in which one or more groups CUL9 Any process that activates or increases the frequency, rate or SURF4	8.33 1/12 8.33 1/12	0.13 1/758 0.13 1/763	0,4813342 0,4829162
GO:1901576	organic substance biosynthetic process	The chemical reactions and pathways resulting in the formati ACSL3 FASN PHB2 SQLE	33.33 4/12	0.08 4/5165	0,4833261
GO:0031401 GO:0040012	positive regulation of protein modification process regulation of locomotion	Any process that activates or increases the frequency, rate or PHB2 Any process that modulates the frequency, rate or extent of I NDRG4	8.33 1/12 8.33 1/12	0.13 1/774 0.13 1/773	0,4855804 0,4855804
GO:0007167	enzyme linked receptor protein signaling pathway	Any series of molecular signals initiated by the binding of an NDRG4		0.13 1/778	0,4866201
GO:0070925	organelle assembly	The aggregation, arrangement and bonding together of a set SQLE	8.33 1/12 8.33 1/12	0.13 1/786 0.13 1/788	0,4896355
GO:0051270 GO:0009058	regulation of cellular component movement biosynthetic process	Any process that modulates the frequency, rate or extent of 1 NDRG4 The chemical reactions and pathways resulting in the formati ACSL3 FASN PHB2 SQLE		0.13 1/788	0,4896622
GO:0001775	cell activation	A change in the morphology or behavior of a cell resulting frc PHB2	8.33 1/12	0.13 1/793	0,4902026
GO:0072359 GO:0035295	circulatory system development tube development	The process whose specific outcome is the progression of the NDRG4 The process whose specific outcome is the progression of a tr PHB2	8.33 1/12 8.33 1/12	0.12 1/804 0.12 1/804	0,493651 0,493651
GO:0007017	microtubule-based process	Any cellular process that depends upon or alters the microtul CUL9	8.33 1/12	0.12 1/809	0,4941496
GO:0010033 GO:0098542	response to organic substance defense response to other organism	Any process that results in a change in state or activity of a cr FASN PHB2 Reactions triggered in response to the presence of another o PHB2	16.67 2/12 8.33 1/12	0.09 2/2222 0.12 1/812	0,4941496 0,4946353
GO:0051336	regulation of hydrolase activity	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	0.12 1/812	0,4946333
GO:0009887	animal organ morphogenesis	Morphogenesis of an animal organ. An organ is defined as a 1 PHB2	8.33 1/12	0.12 1/817	0,4951148
GO:0044092 GO:0007166	negative regulation of molecular function cell surface receptor signaling pathway	Any process that stops or reduces the rate or extent of a mol PHB2 A series of molecular signals initiated by activation of a recep NDRG4 PHB2	8.33 1/12 16.67 2/12	0.12 1/816 0.09 2/2259	0,4951148 0,499612
GO:0043085	positive regulation of catalytic activity	Any process that activates or increases the activity of an enzy PHB2	8.33 1/12	0.12 1/845	0,5044835
GO:0009966 GO:0030163	regulation of signal transduction protein catabolic process	Any process that modulates the frequency, rate or extent of : NDRG4 PHB2 The chemical reactions and pathways resulting in the breakd CUL9		0.09 2/2282 0.12 1/855	0,5044835 0,5081131
GO:0010628	positive regulation of gene expression	Any process that increases the frequency, rate or extent of gr PHB2	8.33 1/12	0.12 1/857	0,5081131
GO:0001932	regulation of protein phosphorylation	Any process that modulates the frequency, rate or extent of PHB2 The chamical coactions and nathrony involving carbohydrate ACSL2	8.33 1/12	0.12 1/867	0,5117368
GO:1901135 GO:0070647	carbohydrate derivative metabolic process protein modification by small protein conjugation or removal	The chemical reactions and pathways involving carbohydrate ACSL3 A protein modification process in which one or more groups CUL9	8.33 1/12 8.33 1/12	0.11 1/870 0.11 1/877	0,5121337 0,5143428
GO:0051276	chromosome organization	A process that is carried out at the cellular level that results i PHB2	8.33 1/12	0.11 1/881	0,5151772
GO:0009987 GO:0070887	cellular process cellular response to chemical stimulus	Any process that is carried out at the cellular level, but not ni ACSL3 ANKRD13A AP2B1 ATP13A3 CMTM8 CU Any process that results in a change in state or activity of a ci FASN PHB2		0.06 12/1870	0,5186106 0,52229
GO:0006796	phosphate-containing compound metabolic process	The chemical reactions and pathways involving the phosphat ACSL3 PHB2	16.67 2/12	0.08 2/2404	0,5288993
GO:0006793	phosphorus metabolic process	The chemical reactions and pathways involving the nonmetal ACSL3 PHB2 Any process that activates or increases the frequency, rate or ACSL3 PHB2		0.08 2/2425	0,5335686
GO:0051173 GO:0042221	positive regulation of nitrogen compound metabolic process response to chemical	Any process that activates or increases the frequency, rate or ACSL3 PHB2 Any process that results in a change in state or activity of a cr CMTM8 FASN PHB2		0.08 2/2473 0.07 3/4056	0,5454193 0,5482549
GO:0071495	cellular response to endogenous stimulus	Any process that results in a change in state or activity of a cr PHB2	8.33 1/12	0.10 1/988	0,5526274
GO:0042325 GO:0044265	regulation of phosphorylation cellular macromolecule catabolic process	Any process that modulates the frequency, rate or extent of : PHB2 The chemical reactions and pathways resulting in the breakd: CUL9	8.33 1/12 8.33 1/12	0.10 1/986 0.10 1/985	0,5526274 0,5526274
GO:0010646	regulation of cell communication	Any process that modulates the frequency, rate or extent of I NDRG4 PHB2	16.67 2/12	0.08 2/2562	0,5613355
GO:0000003	reproduction	The production of new individuals that contain some portion PHB2 Any process that decreases the frequency rate or extent of FANKED12A PHB2		0.10 1/1024	0,5613355
GO:0010605 GO:0023051	negative regulation of macromolecule metabolic process regulation of signaling	Any process that decreases the frequency, rate or extent of t ANKRD13A PHB2 Any process that modulates the frequency, rate or extent of i NDRG4 PHB2		0.08 2/2563 0.08 2/2573	0,5613355 0,5613355
GO:0030182	neuron differentiation	The process in which a relatively unspecialized cell acquires s ACSL3	8.33 1/12	0.10 1/1022	0,5613355
GO:0022414	reproductive process	A biological process that directly contributes to the process c PHB2	8.33 1/12	0.10 1/1021	0,5613355

GO:0045892	negative regulation of transcription, DNA-templated	Any process that stops, prevents, or reduces the frequency, r PHB2	8.33 1/12	0.10 1/1044 0.10 1/1039	0,5655129
GO:0042981 GO:1902679	regulation of apoptotic process negative regulation of RNA biosynthetic process	Any process that modulates the occurrence or rate of cell de: PHB2 Any process that stops, prevents or reduces the frequency, r: PHB2	8.33 1/12 8.33 1/12	0.10 1/1039	0,5655129 0,5655129
GO:1903507	negative regulation of nucleic acid-templated transcription	Any process that stops, prevents or reduces the frequency, ra PHB2	8.33 1/12	0.10 1/1045	
GO:0031325	positive regulation of cellular metabolic process	Any process that activates or increases the frequency, rate or ACSL3 PHB2		0.08 2/2631	0,5704059
GO:0043067	regulation of programmed cell death	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.09 1/1065	0,5704059
GO:0043207 GO:0051707	response to external biotic stimulus	Any process that results in a change in state or activity of a cr PHB2	8.33 1/12 8.33 1/12	0.09 1/1068 0.09 1/1066	0,5704059 0,5704059
GO:0009719	response to other organism response to endogenous stimulus	Any process that results in a change in state or activity of a cr PHB2 Any process that results in a change in state or activity of a cr PHB2	8.33 1/12	0.09 1/1006	0,5704059
GO:0003713	regulation of immune system process	Any process that modulates the frequency, rate, or extent of PHB2	8.33 1/12	0.09 1/1077	0,5707868
GO:0032270	positive regulation of cellular protein metabolic process	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	0.09 1/1072	0,5707868
GO:0009607	response to biotic stimulus	Any process that results in a change in state or activity of a ct PHB2	8.33 1/12	0.09 1/1098	0,5777702
GO:0043603	cellular amide metabolic process	The chemical reactions and pathways involving an amide, any ACSL3	8.33 1/12	0.09 1/1112	0,580964
GO:0009892	negative regulation of metabolic process	Any process that stops, prevents, or reduces the frequency, r ANKRD13A PHB2		0.07 2/2707	0,580964
GO:0051253 GO:1901565	negative regulation of RNA metabolic process	Any process that stops, prevents, or reduces the frequency, r PHB2 The phomical reactions and pathways resulting in the breakd CHIO	8.33 1/12 8.33 1/12	0.09 1/1131 0.09 1/1129	0,5859421 0,5859421
GO:0009057	organonitrogen compound catabolic process macromolecule catabolic process	The chemical reactions and pathways resulting in the breakd CUL9 The chemical reactions and pathways resulting in the breakd CUL9	8.33 1/12	0.09 1/1129	0,5833421
GO:0003037	regulation of cell death	Any process that modulates the rate or frequency of cell dea PHB2	8.33 1/12	0.09 1/1142	0,5872562
GO:0051247	positive regulation of protein metabolic process	Any process that activates or increases the frequency, rate or PHB2	8.33 1/12	0.09 1/1145	0,5872562
GO:0048699	generation of neurons	The process in which nerve cells are generated. This includes ACSL3	8.33 1/12	0.09 1/1146	0,5872562
GO:0044093	positive regulation of molecular function	Any process that activates or increases the rate or extent of ϵ PHB2	8.33 1/12	0.09 1/1149	0,5873028
GO:0044419	biological process involved in interspecies interaction between organ		8.33 1/12	0.09 1/1167	0,592739
GO:0006952 GO:0031399	defense response regulation of protein modification process	Reactions, triggered in response to the presence of a foreign PHB2 Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12 8.33 1/12	0.09 1/1172 0.08 1/1192	0,5934754 0,5994992
GO:0031355	negative regulation of macromolecule biosynthetic process	Any process that decreases the rate, frequency or extent of t PHB2	8.33 1/12	0.08 1/1132	0,6081521
GO:0045934	negative regulation of nucleobase-containing compound metabolic p		8.33 1/12	0.08 1/1223	0,6081521
GO:0022008	neurogenesis	Generation of cells within the nervous system. ACSL3	8.33 1/12	0.08 1/1245	0,6135148
GO:0007010	cytoskeleton organization	A process that is carried out at the cellular level which result: CUL9	8.33 1/12	0.08 1/1245	0,6135148
GO:0031327	negative regulation of cellular biosynthetic process	Any process that stops, prevents, or reduces the frequency, r PHB2	8.33 1/12	0.08 1/1259	
GO:0009890 GO:0006955	negative regulation of biosynthetic process	Any process that stops, prevents, or reduces the rate of the c PHB2	8.33 1/12 8.33 1/12	0.08 1/1277	0,6220644
GO:0008955 GO:0048583	immune response regulation of response to stimulus	Any immune system process that functions in the calibrated PHB2 Any process that modulates the frequency, rate or extent of NDRG4 PHB2		0.08 1/1288 0.07 2/2982	0,6246035 0,625435
GO:0006915	apoptotic process	A programmed cell death process which begins when a cell n PHB2	8.33 1/12	0.08 1/1299	0,6260218
GO:0009893	positive regulation of metabolic process	Any process that activates or increases the frequency, rate or ACSL3 PHB2		0.07 2/3040	0,6360302
GO:0012501	programmed cell death	A process which begins when a cell receives an internal or ex PHB2	8.33 1/12	0.07 1/1343	0,6368246
GO:0006468	protein phosphorylation	The process of introducing a phosphate group on to a proteir PHB2	8.33 1/12	0.07 1/1340	0,6368246
GO:0030154	cell differentiation	The process in which relatively unspecialized cells, e.g. embry ACSL3 FASN		0.06 2/3098	0,6452496
GO:0048869 GO:0008219	cellular developmental process	A biological process whose specific outcome is the progressic ACSL3 FASN		0.06 2/3162 0.07 1/1432	0,6576973
GO:0006464	cell death cellular protein modification process	Any biological process that results in permanent cessation of PHB2 The covalent alteration of one or more amino acids occurring CUL9 PHB2	8.33 1/12	0.07 1/1432	0,6607283
GO:0036211	protein modification process	The covalent alteration of one or more amino acids occurring CUL9 PHB2		0.06 2/3236	0,6696226
GO:0031323	regulation of cellular metabolic process	Any process that modulates the frequency, rate or extent of ACSL3 ANKRD13A PHB2		0.06 3/5027	0,6811726
GO:0044249	cellular biosynthetic process	The chemical reactions and pathways resulting in the formati ACSL3 FASN PHB2	25.00 3/12	0.06 3/5094	0,6914526
GO:1901566	organonitrogen compound biosynthetic process	The chemical reactions and pathways resulting in the formati ACSL3	8.33 1/12	0.06 1/1575	0,6947104
GO:0031326	regulation of cellular biosynthetic process	Any process that modulates the frequency, rate or extent of I ACSL3 PHB2		0.06 2/3385	0,6947104
GO:0031328	positive regulation of cellular biosynthetic process	Any process that activates or increases the frequency, rate or ACSL3	8.33 1/12	0.06 1/1596	0,6965817 0,6965817
GO:0043412 GO:0048468	macromolecule modification cell development	The covalent alteration of one or more monomeric units in a CUL9 PHB2 The process whose specific outcome is the progression of the FASN	8.33 1/12	0.06 2/3413 0.06 1/1592	0,6965817
GO:0009889	regulation of biosynthetic process	Any process that modulates the frequency, rate or extent of I ACSL3 PHB2		0.06 2/3433	0,6968717
GO:0016310	phosphorylation	The process of introducing a phosphate group into a molecul PHB2	8.33 1/12	0.06 1/1608	0,6968717
GO:0051716	cellular response to stimulus	Any process that results in a change in state or activity of a ct CMTM8 FASN NDRG4 PHB2	33.33 4/12	0.06 4/6878	0,6968717
GO:0009891	positive regulation of biosynthetic process	Any process that activates or increases the frequency, rate or ACSL3	8.33 1/12	0.06 1/1617	0,6972951
GO:0006508	proteolysis	The hydrolysis of proteins into smaller polypeptides and/or a CUL9	8.33 1/12	0.06 1/1674	0,7107193
GO:0044260 GO:1901362	cellular macromolecule metabolic process organic cyclic compound biosynthetic process	The chemical reactions and pathways involving macromolect ANKRD13A CUL9 PHB2 The chemical reactions and pathways resulting in the formati PHB2 SQLE		0.06 3/5305 0.06 2/3552	0,7130572 0,7142344
GO:1901562 GO:1901575	organic substance catabolic process	The chemical reactions and pathways resulting in the formati PRD2 SQLE The chemical reactions and pathways resulting in the breakd CUL9	8.33 1/12	0.06 2/3332	0,7142344
GO:0022607	cellular component assembly	The aggregation, arrangement and bonding together of a cell ACSL3 SQLE		0.05 2/3663	0,7315838
GO:0050877	nervous system process	A organ system process carried out by any of the organs or ti NDRG4	8.33 1/12	0.05 1/1827	0,7413014
GO:0050790	regulation of catalytic activity	Any process that modulates the activity of an enzyme. PHB2	8.33 1/12	0.05 1/1868	0,7492779
GO:0032268	regulation of cellular protein metabolic process	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	0.05 1/1884	0,7515615
GO:0007165	signal transduction	The cellular process in which a signal is conveyed to trigger a CMTM8 NDRG4 PHB2		0.05 3/5642	
GO:0051172 GO:0051239	negative regulation of nitrogen compound metabolic process regulation of multicellular organismal process	Any process that stops, prevents, or reduces the frequency, r PHB2 Any process that modulates the frequency, rate or extent of : PHB2	8.33 1/12 8.33 1/12	0.05 1/1924 0.05 1/1943	0,7577161 0.7604901
GO:0031239 GO:0044085	cellular component biogenesis	A process that results in the biosynthesis of constituent macr ACSL3 SQLE		0.05 2/3907	0,7635171
GO:0051246	regulation of protein metabolic process	Any process that modulates the frequency, rate or extent of PHB2		0.05 1/2025	
GO:1901564	organonitrogen compound metabolic process	The chemical reactions and pathways involving organonitrog: ACSL3 CUL9 PHB2		0.05 3/5915	0,787099
GO:0019222	regulation of metabolic process	Any process that modulates the frequency, rate or extent of I ACSL3 ANKRD13A PHB2	25.00 3/12	0.05 3/5976	0,7938144
GO:0023052	signaling	The entirety of a process in which information is transmitted CMTM8 NDRG4 PHB2		0.05 3/6020	0,7981898
GO:0007154	cell communication	Any process that mediates interactions between a cell and it: CMTM8 NDRG4 PHB2	25.00 3/12	0.05 3/6065 0.05 4/7978	0,802601 0,8190301
GO:0050896 GO:0003008	response to stimulus system process	Any process that results in a change in state or activity of a cr CMTM8 FASN NDRG4 PHB2 A multicellular organismal process carried out by any of the c NDRG4	8.33 1/12	0.03 4/7978	0,8195921
GO:0044267	cellular protein metabolic process	The chemical reactions and pathways involving a specific pro CUL9 PHB2		0.04 2/4461	0,8317141
GO:0065009	regulation of molecular function	Any process that modulates the frequency, rate or extent of : PHB2	8.33 1/12	0.04 1/2439	0,8367886
GO:0065003	protein-containing complex assembly	The aggregation, arrangement and bonding together of a set ACSL3	8.33 1/12	0.04 1/2520	0,84748
GO:0051171	regulation of nitrogen compound metabolic process	Any process that modulates the frequency, rate or extent of ACSL3 PHB2		0.04 2/4722	0,8586797
GO:0043933 GO:0080090	protein-containing complex organization regulation of primary metabolic process	Any process in which macromolecules aggregate, disaggregal ACSL3 Any process that modulates the frequency, rate or extent of I ACSL3 PHB2	8.33 1/12 16.67 2/12	0.04 1/2678 0.04 2/4857	0,8664832 0,8705709
GO:0080090 GO:0010604	positive regulation of macromolecule metabolic process	Any process that increases the frequency, rate or extent of 1 ACSL3 PHB2 Any process that increases the frequency, rate or extent of the PHB2	8.33 1/12	0.04 2/4857	0,8705709
GO:0006950	response to stress	Any process that results in a change in state or activity of a cr PHB2	8.33 1/12	0.04 1/2809	0,8786781
GO:0006355	regulation of transcription, DNA-templated	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.03 1/2881	0,8831973
GO:1903506	regulation of nucleic acid-templated transcription	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.03 1/2881	0,8831973
GO:2001141	regulation of RNA biosynthetic process	Any process that modulates the frequency, rate or extent of I PHB2	8.33 1/12	0.03 1/2884	0,8831973
GO:0019538 GO:1901360	protein metabolic process organic cyclic compound metabolic process	The chemical reactions and pathways involving a protein. Inc CUL9 PHB2 The chemical reactions and pathways involving organic cyclic ACSL3 PHB2 SQLE		0.04 2/5108 0.04 3/7066	0,8869735 0,8877152
GO:1901360 GO:0097659	nucleic acid-templated transcription	The cellular synthesis of RNA on a template of nucleic acid (C PHB2	8.33 1/12	0.04 3/7066	0,8877152
GO:0006351	transcription, DNA-templated	The cellular synthesis of RNA on a template of DNA. PHB2	8.33 1/12	0.03 1/3019	0,8919133
GO:0032774	RNA biosynthetic process	The chemical reactions and pathways resulting in the formati PHB2	8.33 1/12	0.03 1/3030	0,8919133
GO:0071704	organic substance metabolic process	The chemical reactions and pathways involving an organic su ACSL3 ANKRD13A CUL9 FASN PHB2 SQLE		0.05 6/12360	
GO:0051252	regulation of RNA metabolic process	Any process that modulates the frequency, rate or extent of 1 PHB2	8.33 1/12	0.03 1/3134	0,8993919
GO:0010556	regulation of macromolecule biosynthetic process	Any process that modulates the frequency or extent of 1 PHB2	8.33 1/12	0.03 1/3278	0,9111134
GO:0060255 GO:0019219	regulation of macromolecule metabolic process regulation of nucleobase-containing compound metabolic process	Any process that modulates the frequency, rate or extent of I ANKRD13A PHB2 Any cellular process that modulates the frequency, rate or ex PHB2	16.67 2/12 8.33 1/12	0.04 2/5552 0.03 1/3342	0,9124633 0,9136827
GO:0019219 GO:0034654	nucleobase-containing compound biosynthetic process	The chemical reactions and pathways resulting in the formati PHB2	8.33 1/12	0.03 1/3364	0,9130627
GO:0019438	aromatic compound biosynthetic process	The chemical reactions and pathways resulting in the formati PHB2	8.33 1/12	0.03 1/3441	0,9173246
GO:0018130	heterocycle biosynthetic process	The chemical reactions and pathways resulting in the formati PHB2	8.33 1/12	0.03 1/3434	0,9173246
GO:0008152	metabolic process	The chemical reactions and pathways, including anabolism ar ACSL3 ANKRD13A CUL9 FASN PHB2 SQLE		0.05 6/12915	
GO:0044238	primary metabolic process	The chemical reactions and pathways involving those compol ACSL3 CUL9 FASN PHB2 SQLE The chemical reactions and pathways by which individual call ACSL3 ANXPD13A CUL9 FASN PHB2		0.04 5/11429	0,93122
GO:0044237 GO:0044271	cellular metabolic process	The chemical reactions and pathways by which individual cel ACSL3 ANKRD13A CUL9 FASN PHB2 The chemical reactions and pathways resulting in the formati PHB2	41.67 5/12 8.33 1/12	0.04 5/11581 0.02 1/4213	0,9383581 0,9580875
GO:0044271 GO:0006139	cellular nitrogen compound biosynthetic process nucleobase-containing compound metabolic process	The chemical reactions and pathways resulting in the formati PHB2 Any cellular metabolic process involving nucleobases, nucleo ACSL3 PHB2		0.02 1/4213	0,9580875
GO:0000133	regulation of gene expression	Any process that modulates the frequency, rate or extent of PHB2	8.33 1/12	0.02 1/4340	0,9599763
GO:0009059	macromolecule biosynthetic process	The chemical reactions and pathways resulting in the formati PHB2	8.33 1/12	0.02 1/4337	0,9599763
GO:0046483	heterocycle metabolic process	The chemical reactions and pathways involving heterocyclic c ACSL3 PHB2		0.03 2/6828	0,9624271
GO:0006725	cellular aromatic compound metabolic process	The chemical reactions and pathways involving aromatic corr ACSL3 PHB2		0.03 2/6891	0,9631377
GO:0034641	cellular nitrogen compound metabolic process	The cellular chamical reactions and pathways involving various organ ACSL3 PHB2 The cellular chamical reactions and pathways involving PNA RUP3		0.03 2/7596	0,9811064
GO:0016070 GO:0006807	RNA metabolic process nitrogen compound metabolic process	The cellular chemical reactions and pathways involving RNA, PHB2 The chemical reactions and pathways involving organic or inc ACSL3 CUL9 PHB2	8.33 1/12 25.00 3/12	0.02 1/5843 0.03 3/10926	0,9913437
GO:0006807	nucleic acid metabolic process	Any cellular metabolic process involving nucleic acids. PHB2	8.33 1/12	0.03 3/10926	0,9941861
GO:0043170	macromolecule metabolic process	The chemical reactions and pathways involving macromolect ANKRD13A CUL9 PHB2		0.03 3/10935	

The process in which a gene's sequence is converted into a rr PHB2 8.33 1/12 0.01 1/7489 0,9977989 A biological process represents a specific objective that the o ACSL3 ANKRD13A AP2B1 ATP13A3 CMTM8 CL 100.00 12/12 0.06 12/2011 1

GO:0010467 gene expression GO:0008150 biological_process

Diet	animal	A0A3Q1M3L(F	PIGR	CUL9 S	SQLE (CD5L	PPIA	HID1	A0A3Q1LRW-I	(RT10	RAB2A	TMC4	GP2 LI	3P	AUP1	GNG12	ACSS2	ALPL
HL	c8	3226518	18491661	55721	267138	643807	4010575	150009	4893882	883223	10535572	1392806	4238810	423454	7645294	769263	2114252	8423425
HL	c6	2621250	17827237	42068	333860	592909	2290016	369420	5780402	963247	3997409	1674433	7983325	250048	7533428	514114	1577784	5029499
HL	c5	4618716	16234862	57630	222873	562089	3584617	149259	4249250	1133275	7852213	2569959	6800899	120660	7454262	879234	2816705	7231044
HL	c3	4488714	56889382	12035	348292	266766	6517901	308098	9587083	391108	4848207	1110141	7208158	126822	6136405	596975	4387306	4136854
HL	c4	3744970	24959346	63371	513451	338739	4244459	341137	1750842	584185	7005446	1160836	5478408	145365	6756025	948293	4059671	2849111
HL	c1	4456646	13957555	155657	176116	337455	2079380	135199	5222401	748431	4912477	938296	6206673	106415	7592812	1372805	4092851	3978422
HL	c7	3369445	22436490	32947	265883	131201	4202181	186125	9810590	913247	11433758	1818823	5097694	143527	7761627	813274	2617173	10412417
HL	c2	4974398	24789977	24046	319247	310142	6021004	185060	6730173	1961319	9508143	1839859	10608024	227590	3795844	2282752	2284696	4162687
LL	c8	2228555	6311510	106520	492317	127599	3740351	414099	1070669	194422	7763388	1386477	2424584	39144	6607011	1951921	4289839	2338748
LL	c6	1349347	16559764	228090	1316786	26711	8048892	946040	1817993	127432	9786634	671131	3124936	168252	10030098	2157106	6310487	403245
LL	c5	1586230	5968660	731736	1651682	80848	6802231	652788	1951621	142178	10670042	780583	1604835	91116	11771302	1636973	10846871	2313361
LL	c3	2537017	10893410	91953	620758	104284	6978896	336053	2026944	406512	6609125	794407	2466313	79247	8395895	1337010	6608888	1715647
LL	c4	2647998	16724980	263421	482820	129637	4898127	359689	2145015	386029	12262340	807036	4036523	55110	9106829	1375231	4509270	4935284
LL	c1	1919380	9122168	136179	269110	207537	8894368	236875	1817171	943935	18548596	1223767	3978824	38138	7854526	3103622	2152739	3497869
LL	c7	2153799	7368834	78939	337201	127133	7140479	380311	2387631	241266	12715467	1257034	2995935	32871	7614252	2503532	2854309	3559427
LL	c2	1202398	17332069	66437	1060616	226291	12533023	435730	4305990	361512	15876310	514567	4722875	96054	13062908	1936831	9948758	1783223
	Moy HL	. 3937582	24448314	55434	305857	397889	4118767	228038	6003078	947255	7511653	1563144	6702749	192985	6834462	1022089	2993805	5777932
	ET HL	. 820307	13699246	44184	101893	180727	1567416	95400	2697027	470424	2805219	528410	1983806	106494	1346504	571266	1051570	2625892
	Moy LL	. 1953090	11285174	212910	778911	128755	7379546	470198	2190379	350411	11778988	929375	3169353	74991	9305352	2000278	5940145	2568350
	ET LL	535030	4886573	221425	504298	64400	2652578	225777	935964	263530	3996034	315560	1024651	45090	2198626	593319	3147948	1393739
	Ratio HL/LL		2,2		0,4	3,1	0,6	0,5	2,7	2,7	0,6	1,7	2,1	2,6	0,7	0,5		2,2
	Ratio LL/HL	. 0,5	0,5	3,8	2,5	0,3	1,8	2,1	0,4	0,4	1,6	0,6	0,5	0,4	1,4	2,0	2,0	0,4

PSEN1	KRT7	CNTFR	APOA4	F1MH40	SELENOF	MARCKS	RAB3GAP2	SLC6A8	LSS	CSTB	C4BPA	ATP13A3	ALB	ZDHHC18	FAF2	FASN	SEC22B I	RAB13
521189	348587	4635077	3104310	1730907	239484	1356703	819917	924262	40183899	1170879	384050	2184290	552810	59117	3354205	4144732	352640	608319
470865	683041	1967503	1776546	1772626	187035	1200599	684956	1028849	32772747	758225	498445	2756134	512617	17238	4056370	3426255	309229	261969
302372	415822	1984517	302598	1371175	500675	853963	841835	1354651	36866579	778259	288435	2924505	891593	76560	3685925	5003815	381666	786305
1005377	326480	1919417	459812	776731	638425	385107	456899	892850	44694265	2115827	66578	2993222	498733	72388	3287263	12529573	329112	272913
251318	350165	2108630	393613	263100	202178	570318	1248151	531101	31218702	957953	10100	2740416	648380	47171	2264581	22749906	671157	448751
870944	185141	2407122	511824	960929	325442	899710	384583	805669	19000071	722954	465844	3158768	876041	24136	1312724	18893801	221413	422625
869947	216983	3502870	1920270	1278585	449553	938623	852648	1032097	40310361	1490040	297912	2080695	918869	28068	3433115	3743940	533578	744490
593459	479894	2446000	606006	1693129	793840	658359	748010	853460	24919069	931657	85171	2177796	1342093	76055	2683479	9727860	1192359	696952
708107	147272	930868	323928	280019	482354	628734	2727916	602041	45001505	1206587	36782	3893128	393748	111961	3526532	15144389	621532	551656
1510679	224216	528658	259873	432583	903434	63997	682038	298207	79828774	1049224	129449	10147833	511213	38027	4356340	80382645	931684	637171
1229433	99932	360485	122680	334921	806062	116997	1227056	556840	113957118	1509295	69469	6705968	759848	76692	5737916	39515881	755999	727681
1757367	253901	796890	55187	512970	491656	129379	1113708	547517	61645104	1753080	15268	4910873	246604	42220	2979207	16972339	275161	354147
540016	203872	3732271	376609	1446930	791788	376576	1389198	568751	37061194	1613617	20536	3032263	488320	70203	3157992	18101400	1084932	942710
892899	184163	1873800	179461	717647	786618	921401	1421875	903711	34428648	2093182	48367	2236400	674346	81234	2982014	19271271	1466128	1449530
580572	273669	2069573	155496	1189429	526637	465689	1540285	950536	32278390	1484308	29628	2576470	347039	136189	3688504	5895740	1564941	1101374
2039818			134563		2228024				67655057	4203706		3629961	211724			16435192	437020	1057936
610684	375764	2621392	1134372	1230898	417079	857923	754625	927867	33745712	1115724	262067	2626978	780142	50092	3009708	10027485	498894	530290
278463	156861	963437	1019315	533837	219749	320843	266060	233708	8592617	477806	187942	419382	286968	24495	883916	7461568	313665	207629
1157361	195962	1370041	200975	663873	877072	343870	1349759	609233	58981974	1864125	72299	4641612	454105	85723	4080402	26464857	892175	852776
567493	56343	1137975	109388	430215	569889	314832	642140	218680	28109712	997696			193954	37111	1259765	23727909	462974	352447
0,5			5,6		0,5	2,5	0,6		0,6				1,7			0,4	0,6	0,6
1,9	0,5	0,5	0,2	0,5	2,1	0,4	1,8	0,7	1,7	1,7	0,3	1,8	0,6	1,7	1,4	2,6	1,8	1,6

SACM1L	MUC15	ANKRD22	SCAMP2	CSN1S1	STK26	REEP6	ARF4	FABP3	FGG	PGD	SEC14L1	IMMT	PFN1	TC2N	TMEM120B	IDH1	ACTB I	PHB2
326960	25843723	2291745	8378051	161025009	518338	401554	12389670	120510636	2805032	10054736	159418	20233	471111	57289	633832	1960074	9387976	24101
262467	15816447	904395	7153414	44936046	640270	314594	4717871	89246663	1921266	6641776	93606	6714	258068	42467	558013	1789382	11076102	63091
217194	13939732	2172792	1983184	46322973	504866	173301	7849047	150313686	1828229	12415049	135498	10030	613479	106359	646845	1668287	7641346	1674
450825	5291420	681096	1526808	111661782	1738375	130999	7445385	125251540	548270	8789050	85439	41886	416788	11735	706073	705714	6466282	120489
486318	15021924	2157662	2980145	36995023	372233	239592	7546355	77807444	485152	20652379	259066	219950	396919	58920	782901	2304733	11028798	163133
287094	12135382	1502431	5224795	37737358	425815	131499	6926538	183975063	1151472	10897343	179623	46374	361165	106406	587792	2194203	7383537	20708
611780	13836104	3209587	6514626	76215672	184188	208868	12784481	228480112	7546779	12661578	158798	71597	846161	75919	1284593	2217150	11784602	59706
594868	12234034	1952154	1663009	52489829	362193	319564	13513925	220308398	1453435	15311257	140695	94989	973792	37261	1337892	2093191	12667531	136018
626100	12185499	2119462	947656	20555789	422672	479905	7465823	124709129	546856	4665172	185468	20052	875670	41379	953628	1279630	9287169	37510
398469	689047	2630031	246255	43708857	1426413	385261	9261434	144277778	1105455	13169664	183872	99555	974451	8087	1375209	390133	880221	392101
1748787			3360519	30167063	2125087	265245	8443344	183334593	2008564	17590860	290153	26173	624776	6771	1591442	451894	1493721	39418
814410	5562389	2308755	1206023	63020894	1805481	158140	9353538	184228358	504073	5952254	124066	144090	435757	11576	975275	631123	5333149	81226
556407		6982344	2750893	37541099	523826	616112	19118788	295301610	814441	10182792	155439	224086	1056945	73992	1125357	1516842	9539225	516736
440818	11253964	2478720	4753553	33671378	473108	488483	20588024	512545569	581835	5153470	251223	107735	1020348	24937	1530180	3017134	9371053	39482
357876			3950952	52384591	474466	535379	19832858	310699131	805344	6726724	129365	185653	1025505		897881	1786878	8998890	165170
575303			1170866	52396524	5342356		14817677	277180804	296796		236408		1455522	15177	2156269	666095	5725931	1012445
404688			4428004	70922961	593285	239996	9146659	149486693	2217454	12177896		63972	542185	62045	817242	1866592	9679522	73615
152643			2729604	44205190	481745	97882	3262472	56870198	2283270	4312863	54203	69947	250468	33134	312947	517576	2298016	59564
689771			2298339	41680774	1574176	404432	13610186		832921	8879049		118775	933622	29430	1325655	1217466	6328670	285511
451819			1629723	13882315	1666002	153354	5614964	125880069	534250	4511857	59818		305154	24553	429140	892422	3582960	344771
0,6			1,9	1,7	0,4	0,6	0,7	0,6	2,7	1,4	0,8		0,6	2,1	0,6	1,5	1,5	0,3
1,7	0,5	1,8	0,5	0,6	2,7	1,7	1,5	1,7	0,4	0,7	1,3	1,9	1,7	0,5	1,6	0,7	0,7	3,9

ALG1	ATP13A4	ACSL3	SLC39A8	RAB3GAP1	UBA1	RAB3D	GPAM	G5E513	DGKD	ARL1	SSR4	BSPRY	G5E5T5	CHP1	Q3ZC78	RNH1	KRT1	RACK1
283061	11301660	10970286	39827879	540560	273060	1884006	10929563	19033541	325786	28304	73165	2603496	275850	2553243	384360	1780243	840334	687339
190849	17431189	9600273	49597974	365804	274384	759378	16147365	23036916	267298	98878	128637	977136	395094	2146141	108718	1057732	564739	280690
248658	10039576	15584159	46462100	382879	157084	1582352	11576359	30939797	442505	139888	142304	1294897	1826588	3812724	127835	1665154	824825	76821
166397	37907607	17631092	32248307	459335	172117	3393771	19521772	49477999	976442	303395	228682	1001547	964891	1574298	110635	693359	374332	740057
274814	13228619	8916733	32306141	669911	449520	1027487	16217480	22155140	338529	70112	226760	1744865	343250	4200723	112657	1810069	580871	290168
252561	23050734	8645180	38176620	698710	110861	862387	11640787	20557234	172945	131509	150741	724930	426722	3713656	412938	1024037	604052	111840
455966	12129888	10191715	49590814	457234	196528	1921571	14336045	23502086	291913	33129	187570	3807036	266075	7288614	551312	1871270	406581	673797
217948	10911521	8924628	39781710	410208	315133	1480311	12911469	46776018	190298	150325	590834	1263800	548859	2871096	187739	1789602	930043	469158
138538	14897056	12679894	31850057	1274081	454241	1038555	19624499	9177365	376220	98541	268760	665228	181523	2824948	387792	1531308	345046	297874
443816	46385969	24335161	5058191	472865	438996	2044450	56683811	58483052	543537	497425	460091	51885	452720	2178195	401344	2374688	62326	620871
271809	44070442	48193756	14768271	1240601	348356	3748496	28776539	19444731	1615914	282695	191669	137041	1193891	4121978	100053	3525612	293226	876437
344802	48814806	21521470	29966372	988401	285284	3350960	20606123	18244026	715445	207570	98481	547652	244244	2669685	204383	2010586	449041	715176
424717	16243829	8633362	51150168	867857	401517	1629244	16724728	18977867	394362	125304	472872	2436890	265675	9113256	663209	2112486	461258	984408
243969	15643876	9786557	25408522	736963	241697	1338772	8795682	13158740	304655	229757	472785	506567	132523	6013110	243859	1161833	761826	393153
353104	11872096	10582010	36322096	1166341	192039	2305639	16250200	11500995	331011	163196	464423	1538631	27307	6559770	349759	1217596	267928	473354
514535	31600251	20307125	25017637	282998	285953	2539981	31798545	20641626	681998	1128077	837856	503908	307305	7613262	419447	3062571	480632	414743
261282	17000099	11308008	40998943	498080	243586	1613908	14160105	29434841	375714	119442	216087	1677213	630916	3520062	249524	1461433	640722	416234
88347	9485740	3402367	6975126	127191	108078	844585	2975582	12076148	257317	87805	160049	1039868	532802	1765461	174207	460524	204915	264473
341911	28691041	19504917	27442664	878763	331010	2249512	24907516	21203550	620393	341570	408367	798475	350649	5136775	346231	2124585	390160	597002
121327	15862708	13038006	13827548	362893	95266	946445	14736248	15631336	431599	341103	227114	799980	363049	2562152	169797	846833	203080	245601
0,8	0,6	0,6	1,5	0,6	0,7	0,7	0,6	1,4	0,6	0,3	0,5	2,1	1,8	0,7	0,7	0,7	1,6	0,7
1,3	1,7	1,7	0,7	1,8	1,4	1,4	1,8	0,7	1,7	2,9	1,9	0,5	0,6	1,5	1,4	1,5	0,6	1,4

ESYT2	A0A3Q1MAC	CD36	CALR	ESYT1	ABCG2	A0A3Q1LSB7	SNB2	KPNB1	CSN1S2	RAP2B	CLU	RALA	TMC5	RAB9A	STK38	RPL27	ANXA7	NDRG4
252726	1414293	143997448	523566	347326	424107538	512996	40399240	81326	68732759	340528	288187	2319529	2112956	204756	142392	43557	1529932	101213
172319	476607	149497712	931652	580287	461975398	402973	23310644	182891	31098216	95591	76744	1073963	1884604	118524	214231	49334	1369942	103263
143362	1372027	182819900	890090	513852	668353352	622600	30192318	109470	41767609	188510	265258	999288	1644183	437663	352131	20118	1369675	31975
73471	2854271	83497265	506204	572999	488077770	316503	23220382	259132	161472957	255029	405674	1371778	564614	155676	119747	113972	1447517	703719
198040	373019	97663915	1333057	498439	479930166	99962	23274841	185854	20987921	92890	292720	751487	928720	137264	235029	195814	1518536	46246
124239	855774	83961123	401319	340351	486354649	126843	25213570	198606	28320301	126794	367063	758656	1488567	40271	147636	34023	1217346	206094
228712	528278	100327738	807130	163441	418876367	285278	37696047	285029	39679872	191976	143813	1360987	2025285	102645	155020	87870	1548335	49559
244149	1013709	82265905	1857495	883319	423358218	377126	25947838	241734	29867499	173925	223661	1203761	1704571	260923	307738	389209	1860894	92051
337043	624914	99143455	1357902	802442	690853813	468454	16629770	189836	10305392	227064	55493	703850	1144658	142924	277404	165507	1173251	61904
345377	2595561	61634168	130628	1133274	1158483830	269096	8605381	500764	15672696	383963	79907	1464020	509800	223822	424892	240162	454663	905120
370038	1246285	115136234	146462	1533512	1051269989	259263	11997878	436592	15127098	231484	127540	3368133	451640	272606	666730	69842	600472	484582
339694	2045653	54075464	226906	701471	832837543	415424	18469106	406919	50720013	279424	139680	1329147	798961	96323	227751	46689	1114488	840211
321314	439518	77953662	759699	309018	477209303	901794	31729017	276931	24510735	192541	32435	1090928	1228386	195225	201154	492780	1390209	119490
192705	1819953	110618413	551179	588742	419380640	548339	27465899	103418	29665800	222668	152802	1918756	1128225	404524	198329	292201	1271622	163691
237160	1474259	103384136	1100984	528497	482422490	488485	31008681	222706	30454229	333280	247781	1426424	1483802	378151	235595	313085	1225384	141667
121413	3321064	35028991	587882	468217	513711745	1710821	15251271	311477	39601644	717266	113589	2528991	820244	545616	213024	194816	790708	447577
179627	1110997	115503876	906314	487502	481379182	343035	28656860	193005	52740892	183156	257890	1229931	1544187	182215	209241	116737	1482772	166765
63201	807143	38119403	486856	213716	81029667	177949	6847800	70560	46237923	83765	108853	500534	540901	122601	84534	123872	188222	223673
283093	1695901	82121815	607705	758147	703271169	632709	20144625	306081	27007201	323461	118653	1728781	945715	282399	305610	226885	1002600	395530
88990	968434	29484329	450106	398981	283263657	479363	8819273	134970	13599676	171477	66880	857110	361295	150509	163615	143677	342413	332472
0,6	0,7	1,4	1,5	0,6	0,7	0,5	1,4	0,6	2,0	0,6	2,2	0,7	-		0,7	0,5	1,5	0,4
1,6	1,5	0,7	0,7	1,6	1,5	1,8	0,7	1,6	0,5	1,8	0,5	1,4	0,6	1,5	1,5	1,9	0,7	2,4

ATP5F1A	STX3	GSN R	DH11	PSMD6	RHEB	XYLB	RTN4	RAB1A	SURF4	DENND3	GLYCAM1	A0A3Q1LUE9 TLR	4	MYO6	FLOT1	LRATD2	SERPINB1	HDLBP
12170	6 7210758	2067625	1043871	40571	2380743	53699	247792	14940887	117251	39488	640784409	2644865	160478	10037	2196855	404112	120431	1569
17729	4 7375898	2999108	589269	87418	1437415	140234	124823	9712159	119801	70264	242453861	754844	183403	36362	2122085	425610	204428	8500
26188	6 8748547	1296172	729724	34102	2265168	47949	295099	7951142	176909	110654	86826587	853854	228006	51343	1457094	588836	38950	21257
171162	6 5303185	1043635	392841	17438	1667086	222436	113434	10677674	221837	12484	87166125	2186592	106237	38681	1257120	316533	23599	27533
165307	5 5933924	2821905	839921	183269	1701305	140692	316306	12095728	301517	116151	53667656	1657844	250525	126248	1118278	398223	197351	77523
25381	6 9480739	2544757	744151	100301	2230678	62876	219166	12704576	242422	89540	77562767	1675448	174774	38441	1964580	338138	67724	11207
47117	9 10677219	3860350	1271219	108902	3003353	50632	240349	17995602	176613	81965	586199525	1209995	127766	84672	2694993	300993	779375	1087
125879	0 8954598	2576334	948898	289243	3087500	111240	469420	14063890	508244	134694	44722289	2546179	260131	73291	905866	476470	104698	47539
30018	5 4475666	2307605	872171	78429	1801138	117543	287262	11940108	263762	67434	63050707	379475	460603	68853	1196429	357354	62872	87557
187916	2 762761	336645	1193689	30111	1465418	344329	476120	29309739	470282	4160	23829553	453927	507700	51807	688761	57484	90506	217640
85894	9 1912742	697902	871779	2598	2733390	175150	323432	19392814	507171	36761	27257874	310222	965086	135122	1503148	160508	43994	43219
125348	4 5025278	1130886	505683	8830	2349452	125250	196951	16287264	485828	19186	22508319	707284	372129	52344	1176841	285475	56616	27968
121358	1 8691792	2563257	1876601	69989	3889256	98612	408224	14941060	348935	95669	145525320	2832810	96261	74541	1525996	342439	92014	39762
78205	3 9591049	1799801	873333	55934	4033726	51628	389383	10903186	224167	102169	128982789	1937601	262055	66021	2426115	375874	24480	23359
138356	6 9093376	3296721	1063431	230717	5235709	109363	460577	15066166	317948	94591	68494225	1542230	256146	83872	843140	517911	81284	27224
359848	3 4678745	991957	1885348	83966	3496704	177452	520065	38407563	368502	914	69182238	449475	220370	52634	1237744	161509	55039	14275
73867	1 7960608	2401236	819987	107656	2221656	103720	253299	12517707	233074	81905	227422902	1691202	186415	57385	1714609	406114	192069	24527
68484	1 1827299	917312	272641	90401	607262	62048	113299	3175647	127169	40705	246484447	726706	56010	36191	621924	94476	246450	26373
140868	3 5528926	1640597	1142754	70072	3125599	149916	382752	19530988	373324	52610	68603878	1076628	392544	73149	1324772	282319	63351	60125
100021	4 3318537	1023565	496265	71883	1268564	88467	107890	9528547	105498	42562	46953987	928372	267040	27610	530185	148080	23546	67437
0,	5 1,4	1,5	0,7	1,5	0,7	0,7	0,7	0,6	0,6	1,6	3,3	1,6	0,5	0,8	1,3	1,4	3,0	0,4
1,	9 0,7	0,7	1,4	0,7	1,4	1,4	1,5	1,6	1,6	0,6	0,3	0,6	2,1	1,3	0,8	0,7	0,3	2,5

RAB23	PRDX5	TKT	ANKRD13A	GPC1	GOLGA7	RAB26	DENND2D	SH3YL1	STX19	PLIN3	GNA13	MARCKSL1	FGB	DHDDS	PDXK	SDC2	F1N647	NSDHL
500542	340574	209182	519344	485916	947646	161174	71074	907923	3828347	32280411	16278876	289266	1034499	276697	2457007	455212	6343805	24169884
101029	227004	292677	581017	473572	666227	235850	153783	562947	2366125	33982030	14217482	349559	823341	291111	3291746	416237	5384548	19651208
212222	258731	129892	378113	372440	852003	125151	154501	427045	2439429	28701724	17257914	265223	843464	358534	2746430	379602	7994487	25683347
93537	68562	123294	893732	272496	845599	20896	120902	1039315	1141314	9481570	7165632	45403	122246	758436	901539	153620	2343877	33739170
199398	246892	384939	462972	388935	811846	125027	220772	437571	1909137	10800805	10600935	205010	129581	290931	2984866	472827	27096882	23890793
250073	166897	214666	448416	368220	702891	63844	176421	604473	3221951	16603809	13524458	302786	343169	517221	6988500	621689	14995535	20018493
709665	436131	305124	409824	867623	1238811	209473	117990	958450	2981171	44578771	14913602	158752	3461117	95986	6121051	395570	7336711	22542889
291320	431683	183141	506996	816994	1259535	149828	149413	426234	3060404	7996695	16412466	172783	540492	312007	3116123	553437	11784053	16802076
187317	373428	229630	571214	309868	1011604	149754	167737	548349	1339322	14203313	8966526	384397	132729	454158	1390050	248855	21894506	21794291
323184	296688	17514	1675867	249384	694390	37753	537824	1378049	864736	9171467	3695555	11158	905105	3285128	199859	52127	16040376	69614069
498487	230150	26791	1735123	378606	732416	10110	307252	818808	912557	11643365	5116959	73272	1546809	1374270	350028	146785	20685331	58232331
221829	161448	150783	1140098	101973	863795	32979	169354	1371408	905172	13055652	5128256	28886	73612	820556	805641	137179	6017149	30503505
507317	569433	232777	331211	552167	1571765	215039	147686	542812	2116524	11915010	14166120	54641	237632	99453	5736861	459480	39034625	23097801
233977	609873	166914	507913	83227	1676718	67056	159115	349999	3300412	16573889	20774540	483383	65796	359121	2963651	437595	23755405	20454811
259495	541697	239208	472645	284686	2158893	177152	169426	675506	3194500	12481725	16737467	215261	225215	301906	5890834	505045	13152755	25930674
699311	333361	55588	859738	108966	1539000	27039	101026	1293101	864374	9936007	5923403	38605	414569	1224345	297865	206585	4301034	62497121
294723	272059	230364	525052	505775	915570	136405	145607	670495	2618485	23053227	13796421	223598	912239	362615	3575908	431024	10409987	23312232
210588	126720	90907	162134	218434	223902	70595	44220	257579	839704	13640486	3394661	97883	1083845	197078	1994895	138741	7778160	5107968
366365	389510	139900	911726	258610	1281073	89610	219927	872254	1687199	12372554	10063603	161200	450183	989867	2204349	274206	18110147	39015575
182027	166273	94316	551045	161092	530510	78970	141204	415737	1051861	2342350	6367541	181532	520568	1031683	2401071	170652	11061178	20684897
0,8	0,7	1,6	0,6	2,0	0,7	1,5	0,7	0,8	1,6	1,9	1,4	1,4	2,0	0,4	1,6	1,6	0,6	0,6
1,2	1,4	0,6	1,7	0,5	1,4	0,7	1,5	1,3	0,6	0,5	0,7	0,7	0,5	2,7	0,6	0,6	1,7	1,7

SLC7A4	UQCRC2	TUBA4A	APOE	CMTM8	MICALL2	SDHA	STXBP2	SIRT2	GSTM3	INPP5A	SELENBP1	SLC1A2	FERMT2	FGR	GNAI1	ALOX15	G3MYK6	ARL15
25223615	4773	588859	13748865	88956	461981	2605	4054254	927585	1001450	263340	9776895	126469	137698	6120610	323860	2174792	163480	2395654
37964137	67436	1010508	5625880	226500	667860	19084	4451862	808541	241378	177199	9926574	173714	103452	6952135	521368	3930796	35747	2363790
19233095	66840	659014	11954768	106486	668829	11388	2029059	442946	448729	346572	2229867	173607	173493	14187891	445607	2009879	432674	2027140
24177642	825992	440858	4008162	1230897	232350	18668	2235943	326967	741248	131277	2421743	110825	90886	4223641	1418556	2387425	221844	1082544
33556536	759368	1455352	6083109	90493	887124	187389	5525779	946021	415349	256275	5058559	128950	231851	8837368	589757	3515277	143187	1392692
20099670	69011	932122	4986925	142552	654627	13155	4040743	971216	623578	309077	4492427	152462	145494	6616310	1520796	1685146	148825	968736
30897255	271146	581053	9082569	14509	732247	53364	4022576	780906	1122663	126440	7252831	87946	78517	6258043	299026	2235020	347343	2620773
44699868	320730	1325079	3543134	201463	803946	77281	5726599	591149	857684	251518	4191776	333202	198122	6470083	574647	2622905	248590	1944480
21929177	59220	929266	3304198	109424	501466	38431	3816512	512204	840941	165220	6995236	75749	382541	10597130	442257	5264626	97579	1449870
11320834	170757	642424	2604502	992816	73383	57157	1870031	207413	856641	42903	5803778	21611	205859	3086429	2789335	6948884	206411	1176698
12385278	198782	484508	3811198	1149724	155746	34149	2469318	476424	1092684	73364	1650338	15576	161746	11640203	2197748	3977529	111021	1190792
18877015	676294	333724	2933654	660626	202138	55257	3293017	407992	1049478	146188	4012829	133320	259707	7783530	1495118	3661055	331300	1156246
40047583	554661	851406	4229353	217536	652964	97185	3772571	390248	615509	161345	3825984	195029	109718	11323497	340110	4588021	281348	2642501
13762609	233346	949138	5718625	245108	704707	26821	2699685	666404	945031	219791	5565690	83482	77886	10172703	461961	2411678	879576	2573302
38348174	435239	916070	4335363	86556	783146	107660	4665076	874145	756688	306783	3687680	373810	186520	10674532	541464	2218614	634679	3352329
16948873	1790133	569602	5019579	1732033	158252	110546	1877907	195943	1053648	59743	2685111	24703	215702	7125732	2243657	1642964	606779	3053159
29481477	298162	874106	7379177	262732	638621	47867	4010852	724416	681510	232712	5668834	160897	144939	7458260	711702	2570155	217711	1849476
8956029	324673	371177	3797860	396907	205681	61676	1337054	243931	305587	80451	3019501	75707	53858	2995807	480429	769652	125547	629156
21702443	514804	709517	3994559	649228	403975	65901	3058014	466347	901328	146917	4278331	115410	199960	9050469	1313956	3839171	393587	2074362
11350794	556196	234348	1053046	597471	287287	34217	1000193	226112	165587	88833	1749879	121312	94017	2904234	991814	1764780	282524	924460
1,4	0,6	1,2	1,8		1,6	0,7	1,3	1,6	0,8	1,6	1,3	1,4	0,7	0,8	0,5	0,7	0,6	0,9
0,7	1,7	0,8	0,5	2,5	0,6	1,4	0,8	0,6	1,3	0,6	0,8	0,7	1,4	1,2	1,8	1,5	1,8	1,1

GNAI3	APOA1	CNP I	PARK7	SH3GLB2	RPN1	FGA	COPB1	EEF1A1	PRKAA2	TPRG1L	ACTN1	GPX4	TBC1D24	A0A0A0MPA	ANXA2	CANX	MELTF	TMCO4
2368901	13946364	1253189	525352	252623	274628	1162652	53475	215216457	68197	3546593	530621	1628370	375847	34641	10998032	152377	809505	103109
1795272	4838576	1244795	221632	348154	620148	417219	75970	137618376	79556	2384652	875156	1244502	438867	30150	6521406	415563	54071	49699
1635343	3586474	1152208	84059	316273	246058	321102	62219	120797101	94542	2440162	226098	1196636	323336	10894	9225836	536907	74760	55946
3885368	3736069	305209	240364	114516	329935	35740	141463	106756877	33251	4004585	761647	295762	865782	27007	4045465	266950	150999	37360
1756668	2879454	702365	254354	293313	950186	103920	343005	185143076	166108	1494247	643257	914755	508481	139987	6385136	868591	44509	97911
2409988	4374234	732093	377975	583752	233800	105310	211898	158814188	42010	2915596	565853	864085	115670	32743	7364266	559993	151586	44926
2240896	10652807	1021783	1074901	248279	391650	3898346	42397	251558921	27763	6128790	880590	1877287	325145	82929	13242106	146802	146542	161810
2102046	4682469	511600	209013	535443	1272988	309869	474038	154729579	86512	2189501	742017	1799777	409965	238312	10157105	811071	94599	66183
1742458	1171033	1310668	96561	247615	999182	174584	261164	125109688	126095	2338464	858705	1539932	410742	94481	5895738	919279	180422	126999
7942804	3846005	136064	12486	65454	2744369	248729	443788	35434343	145019	16351548	372443	785390	395662	104348	1714534	465996	405	45156
4391313	2186233	327892	18186	112761	797707	819838	286956	38072623	86226	6290093	402375	1395462	749495	20243	5380451	733906	38905	104328
3460764	1247671	363868	513210	84459	266715	45557	140645	96784381	30789	6465232	271928	819868	981717	21002	3466061	295586	63825	75578
2575034	4047976	411431	284737	251516	972580	309395	192208	307158946	73925	1774903	544470	2570101	449887	285877	9675035	459076	98903	110011
2451715	4922640	745973	291933	457707	584607	87625	161167	171739984	99155	2384320	329271	3042912	240350	202086	8849687	705618	251384	72776
1642277	4598667	662405	547872	510148	611043	88467	230789	162146596	119317	2379185	500926	2569271	511164	259349	8266358	574174	71151	45794
5029675	4254443	473539	80724	57875	593233	30952	156607	70490490	75925	12583712	204173	686895	579096	194978	6284617	569288	14527	132589
2274310	6087056	865405	373456	336544	539924	794270	175558	166329322	74742	3138016	653155	1227647	420387	74583	8492419	469782	190821	77118
713078	3984773	355442	311874	154558	383343	1303748	158119	48763867	44632	1442631	215735	535814	213780	78189	2964561	277054	253741	41777
3654505	3284333	553980	230714	223442	946180	225643	234165	125867131	94556	6320932	435537	1676229	539764	147796	6191560	590365	89940	89154
2110449	1515214	360535	213924	178242	764230	259512	99513	89511498	36023	5443452	204200	931012	232014	102651	2718487	193604	85919	34336
0,6		1,6	1,6		0,6	3,5	0,7	1,3	0,8	0,5		0,7	0,8	0,5	1,4		2,1	0,9
1,6	0,5	0,6	0,6	0,7	1,8	0,3	1,3	0,8	1,3	2,0	0,7	1,4	1,3	2,0	0,7	1,3	0,5	1,2

TXNDC5	ZW10	RAB7A	OSBPL9	SLC29A1	RHPN2	GOLPH3	NUP155	LPL	DDX3X	VPS4A	SFT2D2	DNAJB9	LRRC47	ZDHHC9	GPD1	EHD3	SLC34A2	RPS20
536003	3 234761	7388429	1876188	694370	73081	1856989	65969	45131818	23318	826829	2080625	473424	78062	972463	2650714	388266	236827348	53703
44491	4 163262	2911712	1636604	637600	69972	1130089	115944	22847767	68795	844869	1068752	496464	124726	805326	2440579	373334	264178040	45418
731413	3 225368	5109179	2064111	1174429	130143	572663	89125	7187396	41559	159295	1375136	574656	37706	1122859	4094920	823949	326263369	49147
642012	2 375936	2146192	1077032	597091	164054	880790	41444	10134553	57777	34403	2965373	926670	198586	489086	1539737	402997	152179283	21633
138650	5 526895	3471770	2496570	1018246	161556	1300402	80776	6435015	79798	237278	1376708	470104	277719	711827	3258004	480448	174927907	226525
73359	7 681014	2720806	1843618	775790	38206	1261917	127940	7962983	42730	72876	653270	369705	58316	1020538	5307256	269928	205031360	32185
866988	334689	6366472	2428092	773644	107782	668294	42141	15727714	43673	374211	2132566	955479	106420	1433248	2123351	436708	221108685	80825
1335869	352741	4589272	3133709	856207	61523	2182337	47323	7242363	61449	239781	2001051	814908	194579	866737	3038443	396840	198664912	552194
1116928	3 550210	3867841	1681219	530771	97067	1563214	109677	6280426	104621	203805	1197879	426795	229163	591398	1670288	381803	269477265	271703
3343514	4 667382	5389077	1123951	1608978	320260	1527115	201939	16324052	311007	143079	1754243	609703	132068	121120	1092902	180416	52990663	141263
131004	1 1211303	4266396	2866147	1131294	141740	934217	468825	12960547	62812	56734	2189602	450443	199395	270324	1139512	172987	132256718	
590508	830467	3271934	1667393	519424	153098	799803	170009	6537403	35447	55427	3320316	916910	329797	960953	1548186	371462	142303132	78854
1371660	367855	6314539	1710952	698444	89850	732888	53556	6920828	57308	267780	1727979	642064	283366	1636794	2009825	394255	254054352	503340
737490	246489	6925502	1302443	711731	70522	753436	151023	5626937	46811	194848	1930019	1070165	92214	860818	4674866	301959	235955165	369633
884398	3 407015	7799347	2215774	800663	89932	593137	37849	2969959	51764	211781	992610	1652413	193696	975602	4810394	491493	178840270	588528
1167076					155106		65793	6415555	35771			1264608	94184					
834663	361833	4337979	2069491	815922	100790	1231685	76333	15333701	52388	348693	1706685	635176	134514	927760	3056626	446559	222397613	132704
349668					47481	558768			17981	318581							54500842	
1315202			1699900		139697	981099	157334	8004464	88192		2372821	879138	194235	723145		312845	173571881	
863799	305600	1565572	605271	414636	79811	365926	138829	4368731	92647	88042	1578471	431220	86066	490605	1520937	116412	75030863	215559
0,0		0,8		1,0	0,7	1,3	0,5	1,9	0,6	-	0,7	0,7	0,7	1,3		1,4		0,4
1,0	5 1,7	1,2	0,8	1,0	1,4	0,8	2,1	0,5	1,7	0,4	1,4	1,4	1,4	0,8	0,8	0,7	0,8	2,4

AP2B1	ACO1	F1MPK7	C3	PDIA3	BAG5	SCCPDH	PLSCR2	REEP5	ARHGDIA	VAT1	SLC25A5	KARS1	GNAQ	MFGE8	JAK2	GNAS	VPS35	LOC508879
89733	5236061	17859227	6728540	547516	438172	1449379	968816	15017	3545652	10683860	364375	400994	4594396	1807715376	260198	21084159	1674657	3270466
92852	5930019	19548280	3322776	1237351	451076	832315	890374	13248	1968444	11383993	539780	1118513	4226714	1464682655	479129	15160228	2403559	4814507
71691	L 4579988	20691620	4891430	776943	436828	1538013	785301	69335	1353978	25566700	974434	743484	6873066	1032113700	561701	19932104	1588423	5046585
325738	3 4653283	11960517	3608629	438247	559754	1003695	529104	14239	4235984	22451491	427704	318825	1947814	3330843349	193854	35071183	4496673	1623347
218915	6168644	14147042	6512458	1617207	415341	959205	498366	30585	1379554	10202879	1878378	1158356	4445113	1802404868	542150	15594337	3372195	8149796
131727	7 5873107	27374865	5408736	788404	738319	740794	1041543	144779	1397954	9543991	1222199	1128843	6461293	1571095540	476332	15177219	2571700	7563720
45657	7 6097265	16568307	8298953	1004802	419470	999799	1269158	24212	3224491	10160930	1294868	616816	4620980	1836718502	170066	20121086	2606410	4652539
151768	3 5334314	16805477	2624170	2615387	326362	1045294	1106113	134361	2119936	11011629	1963788	466341	6431487	1139725437	544992	16224557	2108498	4111958
176539	7482555	14841569	6175490	1506315	725838	890523	765365	24360	3530288	12772956	606459	667562	3149972	1237389842	496301	12843660	2516700	7294153
453444	27110242	4936340	1075971	467421	1327022	387647	443522	3415	1317391	19477049	561916	255026	1985573	2981670009	118129	29582469	4102247	6330672
279422	7730289	16915539	1303389	369818	1359468	583034	1308440	318473	4091810	45692138	844783	113082	1794414	1785543040	405342	23613590	6006971	6743299
426343	8151194	9511297	1305611	263689	750837	699722	783408	14927	3809350	28826269	1043525	311365	1821387	2755876345	246409	28182029	6702151	5380471
168785	5 5095960	19609325	15867058	1641596	500416	1173098	925692	37645	2339273	10048573	2076412	790585	5037695	1801897921	124267	18579977	2607912	5192421
74954	4677056	22693939	3137885	930938	314293	888230	2495199	279249	4232623	12874906	1875274	794724	5784925	1160338996	377473	20152080	2571872	4385015
123723	3 4385329	18216028	3504853	1441347	278323	896274	2004299	433198	2155949	10628221	6359310	942427	6844290	1430965956	535998	16095891	2114870	7614948
266445	6345141	5501633	3620283	388235	916519	861527	1912983	78696	3348550	17344947	2663217	188168	1772543	2402746864	191653	24529970	4357828	6203017
141010	5484085	18119417	5174462	1128232	473165	1071062	886097	55722	2403249	13875684	1083191	744022	4950108	1748162428	403553	19795609	2602764	4904115
91995	630915	4663431	1945228	710137	124565	280315	271005	54912	1119139	6334439	623972	348825	1612579	708503926	166593	6636990	952751	2130034
246207	7 8872221	14028209	4498817	876170	771590	797507	1329864	148745	3103154	19708133	2003862	507867	3523850	1944553622	311946	21697458	3872569	6143000
137367	7509597	6639136	4895818		414660	237652	728951	168397	1046366	12156647	1916997	324514	2066467	693673091	164211	5828402	1734914	1099774
0,6		1,3	1,2	1,3	0,6	1,3	0,7	0,4		0,7	0,5		1,4	0,9	1,3	0,9	0,7	0,8
1,7	7 1,6	0,8	0,9	0,8	1,6	0,7	1,5	2,7	1,3	1,4	1,8	0,7	0,7	1,1	0,8	1,1	1,5	1,3

NRAS	UBE4A	ANXA11	EIF5	FAM83F	A0A3Q1LLH1 N	PTN	RASAL1	ACAP2	STOML1	GIPC1	FLOT2	МҮН9	FCGR2B	ANXA5	NAPA	PGLS	VDAC2	SLC5A9
2682940	193644	211466	87832	682599	86075	449957	2309013	271190	75833	387432	2380852	177287	11052162	13195648	2810925	234556	74478	3368735
1543656	250075	236161	. 151226	1635705	102971	860296	1510912	414706	92223	470827	2200792	316550	2233687	6092051	1867567	99953	188207	3355511
1429853	358604	75980	194312	156176	83271	675515	2325345	556870	107195	1040538	898329	97675	2485288	8933596	3562338	291014	139289	6004460
1832535	503068	34923	148557	551227	191144	412317	1392469	136664	161774	378534	944843	90412	1669942	4932989	1289745	63921	407913	1060345
1343744	368822	216863	259144	1307626	350771	463975	2064227	407801	206179	481578	751818	611496	1985562	10015976	1496409	176612	809766	2795337
1064054	525323	17133	108349	498712	111768	652823	1859592	293433	147933	953543	714755	170802	4196682	7631467	2909201	173601	84206	3389908
2457544	243346	221993	110429	1570645	155988	320945	2762977	272418	107836	527344	2677846	273185	2272822	8132045	2854346	180297	791787	3706915
1923018	246634	160647	331759	489451	445277	679940	1709027	530473	50060	558280	747766	277588	6720757	20399137	2308121	161953	610566	2640027
1505098	617233	245901	316793	874989	160283	323480	2395714	454628	208818	297042	1108403	107153	9223405	3209101	1538034	94028	122064	2898400
3200305	1344191	21388	103071	1315810	211416	296325	1764372	26687	805729	72322	307399	312035	232981	6676038	436830	48524	438790	1261759
1904262	838562	23046	105786	1973756	115689	125374	2657297	104495	203117	159673	559027	92935	410062	5407506	1758097	20520	394743	2047990
1523229	779907	21189	151750	909448	105754	282990	1722932	114698	170463	339096	442221	120904	1056561	4561266	1108957	45819	437918	883008
1342563	167933	276040	310159	1547084	315133	522411	1011355	349286	83441	522953	1544272	311927	2136419	10607811	1705971	173309	1127000	3312032
1955872	290958	84758	360829	411962	144422	747955	845065	391569	77819	547100	1458039	157104	1494340	5658814	2916148	320505	527932	2476218
1970253	207301	123323	320362	366453	242639	485178	1745466	366682	109772	877432	634237	190094	4890220	8857657	2192256	174922	1240971	2276753
5442598	588511	9976	150908	1867358	273817	64165	1030778	61775	250517	231976	443682	238362	741218	4220032	1589731	101098	268058	859426
1784668	336189	146896	173951	861518	190908	564471	1991695	360444	118629	599760	1414625	251874	4077113	9916614	2387332	172739	388276	3290155
557900	125107	90449	84085	560243	135252	179941	462868	142910	50516	253836	845870	167592	3273511	4920539	786074	70851	312415	1373270
2355523	604324	100703	227457	1158358	196144	355985	1646622	233727	238710	380949	812160	191314	2523151	6149778	1655753	122341	569685	2001948
1373083	392752	106548	108961	617591	76710	222426	658720	172397	237573	258972	487567	88014	3087778	2483387	726282	98239	399895	920231
0,8	0,6	1,5			1,0	1,6	1,2	1,5	0,5	1,6		1,3		1,6	1,4	1,4	0,7	1,6
1,3	1,8	0,7	1,3	1,3	1,0	0,6	0,8	0,6	2,0	0,6	0,6	0,8	0,6	0,6	0,7	0,7	1,5	0,6

PARVA	MOB1A	CIDEA	SYPL1	TAX1BP1	RNPEP	PDCD10	GDI2	CLIC4	LOC1003374! F	RRBP1	CADPS2	C4A	LAP3	AKR1A1	KRT14	DYNC1H1	LTF	ADAM9
220150	637739	254221616	3140724	376309	85621	1308150	5259054	716320	207092	159902	53027	150069	48982	416475	686361	58024	4168335	72553
71368	218889	89732855	2044049	323683	294912	529158	4515261	514966	3981215	614816	34514	139371	38551	416412	488307	21429	2643051	1281
75355	335285	117581919	1788271	562483	221567	716889	1315036	1141488	3059184	467004	97538	352314	35270	206961	611359	21898	1156651	1218360
351692	113863	73887543	2124580	159893	412503	437578	6401667	643879	1081630	162189	46428	84126	41048	144224	560198	53511	5284606	1110054
106232	407195	112245315	2106227	474670	363663	568518	7814903	667654	575638	807162	237903	50321	103306	300532	807411	438593	1026528	476090
42911	314721	97707817	2007548	714155	217055	407265	3803855	929933	1971493	469213	203104	122325	65568	378973	282768	257612	842460	455184
206506	786573	285878442	3505816	689623	118006	624285	4923081	618531	1249024	352380	69408	188042	58644	695763	807046	248831	5251915	30189
143524	448489	163126554	3255214	207747	290800	873293	3370085	1477478	6788053	1196113	197450	87149	14794	309000	1372127	152617	1063843	373722
73655	326264	149748471	2395637	632967	255110	249841	3596017	466812	325822	692321	280328	97739	27383	217541	487779	225706	647901	458641
161641	276633	113752545	1923435	132471	974834	88715	8325308	171262	943632	62894	51703	405989	16379	95580	256205	252773	3430734	2118172
324537	304196	159733476	1527258	489528	558015	273822	3317223	295961	1053212	92849	528462	1297906	3910	37013	499295	148621	2259074	499738
284798	327918	97898627	2509897	466026	458393	324807	7926111	347101	933520	112259	127191	116019	80284	148197	678328	80212	2216261	1369367
194644	362543	266576901	2661144	628883	150827	734407	2756353	635551	479366	618510	106605	157512	30001	374081	471465	510466	877979	63558
102601	1055834	145161392	1406183	556109	164321	969662	1894332	1334857	3805604	595996	67741	62940	36962	604627	496652	475159	412168	1322772
118712	984169	262873708	2739706	551752	258993	1019784	2158919	1343912	4401199	859309	180434	156871	17376	428915	388621	124755	428348	616045
344702	376949	215963443	1274759	454319	272554	302023	2857906	523278	571990	162643	94788	537690	15178	189158	97837	29876	6023158	370383
152217	407844	149297758	2496554	438570	250516	683142	4675368	838781	2364166	528597	117421	146714	50770	358543	701947	156564	2679674	467179
102772	218438	79399094	680903	208274	112974	293903	1964674	325907	2189687	346239	81961	93653	26248	167148	320982	148808	1951494	470603
200661	501813	176463570	2054752	489007	386631	495383	4104021	639842	1564293	399598	179657	354083	28434	261889	422023	230946	2036953	852334
105012	321916	64615242	595790	159275	275716	358232	2545021	454474	1595142	322865	158560	416086	23328	191373	176356	177071	1942538	684583
0,8		0,8	1,2		0,6	1,4	1,1	1,3	1,5	1,3	0,7	0,4	1,8		1,7		1,3	0,5
1,3	1,2	1,2	0,8	1,1	1,5	0,7	0,9	0,8	0,7	0,8	1,5	2,4	0,6	0,7	0,6	1,5	0,8	1,8

SPHK2	P4HB	ARHGAP1	PTPRJ	GALM	CYB5A	EIF3H E	ZR	MVK	RDH14	WDR1	YWHAE	GAPDH	AACS	PRDX1	GPAT4	WARS1	YWHAQ	RAB21
201655	757019	103338	2121873	2155125	123300	21589	746908	36816	171181	263755	3426483	1735669	1028030	1934709	7329314	955311	496456	4269504
107147	1184551	114434	2538274	1906724	73846	51671	394763	72235	218426	583423	2112376	705252	1033128	807439	6548366	1208735	284010	2669470
435459	908435	179349	2960369	2163833	246463	5652	502947	57363	177016	214718	2346892	1046240	1522822	936085	12856352	681372	590079	1855555
125890	552323	50213	619779	624998	91673	123876	168099	13941	56551	264100	1140915	575491	306951	574787	6338846	337407	236620	939244
254788	1274873	208056	1662603	2226785	294420	115409	318630	171026	145583	561300	2591909	774839	2317461	1202437	11345946	1665677	405244	1533810
217699	686640	172562	3063373	3245281	191047	0	247212	59958	160532	92647	2671535	527800	1001822	727298	9123932	1246558	394443	1540699
146111	1310318	87625	2056944	1862554	281304	7	569383	56896	225421	462881	4327958	1461664	961745	2429135	9899607	1393198	763064	4081923
294241	2790518	180553	1744437	2963621	439769	201869	568751	96108	152868	395682	4077090	1156006	1736724	2440444	5901378	1097585	677170	2473018
211327	837129	110716	1884802	2271767	178510	57847	516535	25346	100600	622974	2088479	996678	2367948	1738087	10157908	897146	284862	2322875
312171	246976	50417	483142	711414	77835	3254	97215	4553	52591	250140	331204	136466	978777	700931	6626837	112496	61420	2133850
229676	451406	57397	1175193	2683539	81766	20288	94541	20242	22016	144155	535800	110968	1965317	571219	13119993	197086	189372	4738884
155928	813814	68619	983494	1411791	77868	19498	176975	3301	47296	58369	1036323	454513	926314	996490	7614234	464308	190366	2322450
42088	1415290	116814	1496263	1777157	471800	73874	470819	111190	168622	272819	4084237	1183960	1873902	2794102	12936811	1291040	664313	3436102
113333			2460533	1420004	939427	1234	586452	57387	225217	414401	4243732	1282043	2148430	3893387	8841076		709997	3180766
156062			3256487	2643868	729317	110415	507452		202411	309117	4850493	1335076						2373607
97491			913118	958486	749321	803	76489		90758	21984		946455						1071172
222874			2095957	2143615	217728		439586		163447	354813		997870						2420403
107219			790244		123214		192482		52063	174490	1058146	434501	607112					1214051
164760			1581629	1734753	413231		315810		113689	261745		805770						2697463
84924			914437	743548	355186		222834	54437	76129	196020		501479			3173741			1088569
1,4		•	1,3	1,2	0,5	1,8	1,4	1,3	1,4	1,4	1,2	1,2			0,8			0,9
0,7	0,7	0,7	0,8	0,8	1,9	0,6	0,7	0,8	0,7	0,7	0,8	0,8	1,3	1,4	1,2	0,8	0,8	1,1

FKBP4	NT5E	PALS1	VCP	ABHD4	A0A3Q1MQ9	CSN3	SPPL2A	ENPP3	PLIN2	LOC782884	SLC5A1	SYT4	PYCR3	UBXN6	ATL3	СКАР4	F1MZQ4	SLC16A1
24789	4243928	20403	1061286	309460	890995	47148359	18021	16859508	3320453595	117378	6665715	1861486	132526	242671	227119	25907	8641352	5605344
31058	2385241	76119	1286799	224704	986857	30412557	185924	13819687	3170644059	3650	4901714	1873431	115511	580515	282151	73147	6634432	4966618
89046	11254490	147911	510414	496260	506725	41321917	241668	29087672	2322576722	11710	11225281	2551187	59453	885259	261322	25547	1146288	6925547
24952	7071548	123324	880626	361458	318779	117699649	506231	31269029	4541495610	53628	9047344	1625530	21755	455211	102667	80960	729871	1535135
77311	3252225	158414	1096980	487154	170695	39154554	173152	14986517	2404907347	2712	7921977	2081646	83242	672854	314103	71386	8209046	3036553
163605	5009836	83740	811035	390922	1031090	53771033	254724	25036971	2245905773	24723	5706859	2057834	111259	334627	100179	114264	6794326	4212299
55167	11961192	47437	1111561	384696	122735	88484445	30778	15763760	2835317002	59114	5575202	2372014	113178	197200	303898	56295	1137136	5908878
52433	5690714	207236	734010	409802	506581	35487387	272514	15858877	2277998048	96845	9741337	3073017	131201	630603	345889	81575	2151752	4152466
42445	1490580	49518	1868138	331291	1124895	16038459	303979	21252691	2195808929	21731	6225515	1882269	72119	527061	397388	74050	9116541	5916135
2384	681090	233059	2798644	462124	893169	28703738	242159	74176507	6350759763	0	2916786	589337	5342	165078	227084	60812	2055057	517022
16966	7982956	339825	1519544	238523	1170084	50796962	357552	54778235	4353991487	40053	4150599	731006	21285	340684	281091	28961	3155260	2527484
22603	5877164	145116	1399923	321245	478209	53400384	407241	32639309	3754120600	8871	8816407	1416712	12440	322245	126279	20112	1329236	1236596
44346	7989894	36517	1004545	307721	357765	30309807	35239	12727895	2854750807	0	6824252	2496184	332527	142852	786595	71210	7317347	4917209
152864	8245212	160482	491024	248885	1485830	21038012	220616	16496263	1743488392	2387427	8316539	2771991	339267	753689	107398	141841	3139222	5504892
78595	7032739	149815	755958	431221	458937	35097057	192427	14530595	2287868285	35904	9821116	3929984	274551	654309	303589	63064	10979446	4898356
6289	6293246	82769	1159637	403283	282530	72532227	300010	33491221	3254647525	29631	3994024	1340362	536	199512	69662	19476	1956588	1509889
64795	6358647	108073	936589	383057	566807	56684988	210376	20335252	2889912270	46220	7598179	2187018	96016	499868	242166	66135	4430525	4542855
46414	3546453	62293	249599	88954	362523	30510775	153798	6993235	787506655	43434	2260337	462787	38716	235767	93775	29794	3442867	1708328
45812	5699110	149638	1374677	343037	781427	38489581	257403	32511590	3349429474	315452	6383155	1894731	132259	388179	287386	59941	4881087	3378448
49810	2976138	100399	721081	82146	447537	18956703	114412	21813197	1486673810	837347	2518663	1125540	154436	231723	230218	40050	3707748	2159050
1,4		0,7	0,7	1,1	0,7	1,5	0,8	0,6	0,9	0,1	1,2		0,7	1,3	0,8	1,1	0,9	1,3
0,7	0,9	1,4	1,5	0,9	1,4	0,7	1,2	1,6	1,2	6,8	0,8	0,9	1,4	0,8	1,2	0,9	1,1	0,7

DNAJB2	PAK6	LYN I	DNAJA2	TMEM30A	SEC23B	мкон6	RPL8	VAPB	RPL18	NDRG1	YWHAB	ANXA4	MYO1C	RPL4	ATP2B2	AZU1	A0A3Q1M58 C	SBPL10
217888	181306	1981523	824820	609763	73134	10051	154894	349727	29631	1375195	1089141	225423	852127	273106	1816583	354	234820	541593
143746	190975	1158525	1008853	434018	117989	32427	144645	95078	63394	1000759	656148	89208	868865	414242	2649842	47892	861385	332080
345770	169532	1960883	1023074	637305	75445	15677	156296	200437	85477	1223182	1289887	131080	987446	325270	1647297	5562	199173	1082105
94889	104077	824080	332828	494838	134147	12165	77428	118529	93889	2827323	389105	82784	322778	578463	4855848	14299	324296	461549
169246	177646	1162780	967021	978193	274324	45543	227810	268524	254267	1652561	948259	191829	985405	1389707	1736805	7905	624285	774981
178210	126016	739253	1267523	488004	137933	35694	299441	373327	14932	2628271	935249	70734	767737	583095	1827257	1410	120927	922942
174983	232199	936299	439795	379555	113270	21664	283282	442807	53041	1542422	1715704	162431	1012381	335969	565354	321597	4437917	772661
252780	300733	1320093	841476	517195	180389	22985	410312	462357	454444	1393787	1592363	316152	1181523	1243814	2082049	5313	448780	1057246
150320	225971	1134146	760329	568213	273992	60975	206569	160843	177852	936259	606720	51539	1047165	698080	1552601	0	34070	669208
50409	150800	1284359	90973	78431	377507	11994	26275	129575	43071	2742518	75045	67871	283304	1490632	5645133	96767	249957	96431
68047	146657	620119	326929	144008	184873	42470	47258	145447	54641	2610219	397944	20653	296186	269655	3313724	0	13605	474106
80966	138656	782700	270961	444100	297758	69239	35033	172638	5167	4525181	349574	31449	359860	382992	4045983	1727	271235	369480
144100	262407	916942	632641	1248816	184284	21634	550544	701982	184455	909093	1600872	172410	967473	1019701	1594532	49785	2110094	457419
280193	303849	757986	1145527	505704	109015	12332	335635	1235039	220821	1856084	1586896	197481	1279058	687728	1614218	1567	278126	1103624
302984	345332	1120555	1270410	728808	134752	36682	372694	986834	561944	1891984	1978573	305335	1111295	831350	1331404	10529	552106	1340495
141106			283089		59755	16784	154071	384648	521253		445941	84948		816913	1720929		1235442	289230
197189			838174			24526	219263	288848	131134		1076982		872283	642958	2147629		906448	743145
76112			311340		64948	12422		141137	150074		448170		254845	432711	1237850		1447641	276885
152266		924406	597607	495519	202742	34014	216010	489626	221150	2138917	880196		701178	774632	2602315	52040	593079	599999
93982			433614	376005	106342	22205		433532	212304	1172875	722198		437212	377873	1573664	89283	725499	421941
1,3			1,4		0,7	0,7	1,0	0,6	0,6	0,8	1,2		1,2	0,8	0,8	1,0	1,5	1,2
0,8	1,1	0,7	0,7	0,9	1,5	1,4	1,0	1,7	1,7	1,3	0,8	0,7	0,8	1,2	1,2	1,0	0,7	0,8

PNP	ELMOD2	KRT6A	TMEM43	EEF1D	ASAP3	FRK	LRRC8C	GFUS	RPS9	INPP5B	HSPA1B	SLC7A8	PRKCH	ABHD5	LRATD1	RAB1B	GOLPH3L	CNNM3
84079	157083	244853	302607	287156	54238	49932	8987201	107717	148083	130455	1601916	288069	1187404	128100	128786	2931030	1565718	1077884
19604	107342	31707	367253	344821	70504	39324	9242699	192241	70304	126270	1371376	185696	1138957	242204	116101	1142091	827981	905895
59378	443249	298069	379725	307316	170977	53936	8846242	103937	17820	94920	1876003	386623	1209542	219494	134176	2602037	981815	689993
201749	746952	285459	887189	209184	32453	12957	22096903	78530	21804	145488	700347	116293	564779	104783	15621	1313001	2244341	306999
42648	180750	432738	455246	801745	132317	79120	9506391	209406	215527	159894	1352462	139555	1303424	279575	53979	1895323	1477568	856773
249896	633550	79553	460530	370983	70909	3153	6728047	143426	38473	91903	900125	354301	726763	157602	31817	1918133	1774472	375802
82477	183452	86104	602790	345030	49916	16285	11103416	90491	179315	121505	694484	216480	1190745	207060	45734	3211462	1292330	1694754
78759				610244	105613	40601	6137406	153759	425463	122221	1401270	242889				2638486	1639223	1021932
81404	142633	109863	456102	223583	76497	88160	11708237	112164	220387	166794	2111315	239249	997500	200806	90602	1355772	1246630	773540
240333		161629	469976	125408	8831	15970	23509665		131559	261334	547440	106337	188212			1481812	3554343	394756
423022		379957	566037	96806	35947	9088	18016076		35407	230036							2534271	406272
225019		709289	590279	97883	31410	26793	19868175		30300	242423		38919	543407	97314	29699	1495974	2342337	240401
31752		109307	836357	611213	83475	79429	9462428		482865	69980		163716					1477326	
158813		90324	380194	665479	92159	44773	11013986		321616	56879		262407	552035			4530849	1184270	
64004				898022	141404	60561	5901637	108966	415206	82594		197809					1114635	1090788
263891			1072325	239867	27541	30695	22266962	24873	50895	187917	366297	241010		370415		3543662	2655321	227939
102323		276546		409560	85866	36913	10331038		139599	124082	1237248	241238			88525		1475431	866254
80350	249084	235680	189703	196219	46900	25069	5006785		137771	22935		96927	277989				449127	437766
186030		225689		369783	62158	44434	15218396		211030	162245		190486				2883458	2013642	676474
129326				309649	43939	29170	6522558		178631	82360		82787	569267	130288		1400928		445559
0,6	0,8	1,2	0,9	1,1	1,4	0,8	0,7	1,4	0,7	0,8				0,8	1,0		0,7	1,3
1,8	1,3	0,8	1,2	0,9	0,7	1,2	1,5	0,7	1,5	1,3	0,9	0,8	0,8	1,3	1,0	1,3	1,4	0,8

ERLIN2	CHMP6	DHRS3	LRRC8A	PCBP2	CARMIL1	CEMIP2	ASNS	PNPLA2	TOM1L1	MAPK13	TMEM63A	RP2	CHMP7	NCSTN	SNX9	ITCH	RPL12	HSD17B12
511341	431935	7355212	3101283	343792	48775	643306	705043	3011037	706070	968187	168836	2662179	597289	710934	430682	84157	34126	71265
511856	374567	3304955	2694355	217411	240458	591511	882389	3532769	811580	811913	237737	3048154	1153600	608373	581075	122723	32202	98971
415864	529266	3081445	1721895	373015	138913	582491	975750	2395467	315890	914154	423525	4611882	488726	927554	442893	153392	14828	69154
164387	247420	1083571	2310617	405435	955907	399490	274863	352697	744687	341797	79887	1183261	206140	1397805	1077067	41918	26652	26318
256060	398233	2769045	3831847	465414	568197	406151	1415487	1050195	640185	653854	290365	3242550	512983	405069	622040	87873	98506	253948
559721	352738	864777	2194458	392060	78529	410708	622329	1701234	229595	559780	364817	3285045	481807	590173	528809	164027	49991	99432
516709	425226	6336392	4104028	355272	67071	202037	1033421	3545251	613206	975546	392753	3077082	1058043	1259397	411839	169614	136175	352028
358533	442378	4120168	2521656	594113	446320	759960	1306495	758703	455717	799397	339155	4232105	766405	401980	597469	87833	265041	283615
340478	246810	2781260	3653899	290779	358415	859364	1013541	1300822	702051	642834	225401	1996615	1289409	546273	609460	80413	79042	151730
45373	101464	1019701	3292744	274531	317582	288301	421775	1032894	730733	369556	18080	812435	740534	955878	1716090	11499	188338	57325
72730	111393	1297842	4116490	281000	356820	169261	436088	606766	564971	346212	87628	1700868	1291862	1746305	821430	38493	4270	97226
127516	324312	762488	3263449	342514	419463	160131	308480	494695	903577	531476	166591	1250684	697627	2561913	890746	35507	20269	35109
540899	326741	4351180	3880344	598298	308297	329667	1687107	1940568	497355	907742	209320	3147671	1080154	729400	436537	140696	265529	610499
266587	420075	6762955	2597524	314106	179420	532595	876696	1339258	141230	651523	319333	3834301	658528	647946	333892	72268	144798	293118
305099	608304	4374762	2681827	389780	355975	705832	1080508	2147901	491358	1025929	439292	4998354	536603	788430	355836	99003	230972	397010
131176			1923321		211627	76687	289137	898017	728364			1413434	158810	303636	1059981	9456	250696	258034
411809	400220	3614446	2810017	393314	318021	499457	901972	2043419	564616	753079	287135	3167782	658124	787661	586484	113942		156841
141990		2290311	820478		320015		370461		209578			1031922	317580	375412	214078	45790		120885
228732		2776966		357412	313450	390230	764166		594955			2394295	806691	1034972	777997	60917	147989	237506
166870		2200866	734685	105855	80468	281348	490614		229899			1455704	391720	748467	462073	45612	103241	195866
1,8		1,3	0,9		1,0	1,3	1,2				1,4	1,3	0,8		0,8	1,9	0,6	0,7
0,6	0,7	0,8	1,1	0,9	1,0	0,8	0,8	0,6	1,1	0,8	0,7	0,8	1,2	1,3	1,3	0,5	1,8	1,5

UBTD1	SRPRA	RAB18	GNAI2	PABPC1	GC	PTBP1	A0A3Q1LQD(FE	3XL20	PSMD5	ALDH3A2	PLPP1	ATP5F1B	MAP2K2	STK38L	LOC1019027(1	MAP2K1	RPSA	SH3GLB1
1208316	878980	86889952	2610103	14624	193888	12873	123765	692766	18844	140353	584146	428718	1340658	344610	32063131	216322	123439	35428
794827	859229	41644239	1561623	23819	61756	85483	91205	603649	77801	163984	324914	985397	1646129	497765	25420589	417698	163295	16871
480485	687500	55294414	2278230	51213	76868	26997	22623	614787	66359	57028	1141752	744464	2746069	658496	38960640	859034	119487	285946
129138	107658	37893521	3871594	35007	154352	8471	37530	171952	8457	44422	308658	1002386	662909	549027	14941353	265268	134956	11726
521642	926286	51988411	4039050	182128	115559	144844	189149	481754	160446	266463	499778	3306460	718161	398430	26841077	763784	247196	70659
423591	534638	52538875	2657625	23627	106845	102093	8970	650119	50034	188110	509295	524057	3112468	290815	23084397	405863	137331	30375
1129702	645249	82784605	2447274	2224	35442	109196	227469	733836	43606	185744	672983	1514109	2596888	398337	29532599	264121	160176	93528
975505	857997	70450944	2949237	157358	188439	169919	260678	365601	123992	323442	794543	2758033	568109	403362	27352362	456611	628860	58277
828027	1277436	60094696	4022541	39049	88795	108385	103486	379850	80773	181127	608335	915406	873793	451384	31394633	351107	241397	11365
272306	227777	33160127	6783303	91722	148108	52783	35424	177311	41071	75240	72522	832516	640855	650063	5122200	140052	294522	321
846262	195688	48793998	4129759	0	143711	10880	1509	155480	18684	325693	238545	540749	3281537	228354	22610205	116578	180576	20772
540525	170633	44029210	4466256	5379	216517	4138	23011	149428	2635	173148	148140	1381678	744503	568658	14672450	244224	86011	8932
1301811	1028977	98665403	4106389	111105	12598	139534	394443	822700	3653	390086	709589	3390757	1899490	371401	33838597	333306	374046	51866
776017	914551	107225748	2016788	105809	39253	35264	20525	760801	132031	99861	819171	1809383	3408710	254147	39439830	570272	202551	17177
1003845	895834	118876544	2731777	146361	79076	161562	400968	772149	131087	214723	1058023	3137438	692228	437143	40000537	889421	219380	137605
202912	125633	42672067	4668808	15632	33565	18262	19893	271052	9070	96305	338910	1610202	938980	231369	13591545	91068	321559	14392
707901	687192	59935620	2801842	61250	116644	82485	120173	539308	68692	171193	604509	1407953	1673924	442605	27274519	456088	214342	75351
379795	270874	18201349	818742	68777	58345	60996	96788	189715	51625	94764	271394	1066486	1024072	118967	6947664	236580	172352	89506
721463	604566	69189724	4115703	64382	95203	66351	124908	436096	52376	194523	499155	1702266	1560012	399065	25083750	342004	240005	32804
368360	469138	33631213	1407864	56076	69615	61642	171072	299076	55205	112967	352495	1052764	1172062	158105	13039117	271520	89973	44975
1,0	1,1	0,9	0,7	1,0	1,2	1,2	1,0	1,2	1,3	0,9	1,2	0,8	1,1	1,1	1,1	1,3	0,9	2,3
1,0	0,9	1,2	1,5	1,1	0,8	0,8	1,0	0,8	0,8	1,1	0,8	1,2	0,9	0,9	0,9	0,7	1,1	0,4

PKN1	LPO	CD47	PRDX6	MSRA	ACACA	EIF3L	IST1	LOC1008487(CAB39L	ATP5F1C	GNAO1	CAPG	DHRS1	GK5	TMEM263	COASY	LRRC26	HSP90AA1
51332	799751	4126832	387499	167940	20454389	3583	9061	1563686	136921	4946	8565907	215195	4002119	885881	4365100	21913	326635	1937635
87194	751902	5466289	156460	7441	39590692	29838	89826	1995186	122863	8321	5069006	217069	1061026	813651	2776695	75815	174593	1722759
84417	777468	6775698	291026	74223	22588704	45502	16800	964482	121081	19534	7276419	206219	2369728	573714	2439239	38538	137979	2072921
55309	1245440	9060640	162015	101721	8165981	6051	62329	75236	16255	1675	4364126	192291	3314348	1714239	1699710	18784	203269	739589
313068	1427445	2162107	149295	50547	48701261	46092	13766	1056287	115579	70365	5880222	644624	4137221	1051665	1684194	147496	598702	3109930
140825	794097	2104076	164945	30752	51716730	23496	69434	1847226	61388	16472	3769010	318870	5111220	1831005	2387345	52472	432356	1837118
62616	2389125	4527530	219399	77976	26388899	9439	O	347025	117121	60313	8352418	233987	4974180	1248348	4822262	44116	542942	1658066
213707	1828835	2577275	413213	101326	23409615	63591	28669	1154033	140550	76250	7049364	511108	5967995	1552208	2858689	108370	522597	4094833
248868	830184	4359214	199078	13105	22234935	36927	40066	2471067	58785	19113	6492314	285343	4334056	1033541	3065403	91278	149805	2977991
104754	3851284	6120957	196798	53966	34940222	5201	38111	1441159	39821	1582	1377770	87724	6839259	2369053	2881585	92964	203084	546055
48477	1888942	7682398	84367	86016	21825629	2513	31367	1210484	53425	3584	3977906	65095	3730257	1658108	2961243	50495	36228	1385644
111478	1356978	8812878	126803	60269	8468522	9910	4534	203920	35202	7600	3883009	160247	4531327	1727776	2196388	53711	332823	630653
232393	1206807	3431524	372170	72992	32663474	25847	13142	1534192	148196	156855	7790202	402490	2643759	892988	4163800	124427	603233	3747236
60697	703902	3523605	377796	122171	28016578	45610	107193	2252619	97816	80128	11139010	276548	7727021	424095	5083917	39965	157288	2343857
138614	439768	2725248	574512	191262	21805362	40644	10643	1431337	156874	143411	8240092	555740	6964703	1248130	4118984	51381	317048	3023382
16086			513839	135905	6691112		23873		58113			104457	6354844	1839194				1075135
126058	1251758	4600056	242981	76491	30127034	28449			103970	32234	6290809	317420	3867230	1208839	2879154	63438	367384	2146606
93145			107992		15082863	21860			42909			169066	1590154	455215	1149474			1018856
120171	1546554		305670	91961	22080729	21841	33616	1347023	81029			242206		1399111	3285209	74425		1966244
83939			181036		10246201	17502	32443		47997	63895		172362	1817437	617924	1094098			1218172
1,0		0,9	0,8	0,8	1,4	1,3			1,3	0,6		1,3	0,7	0,9	0,9			1,1
1,0	1,2	1,2	1,3	1,2	0,7	0,8	0,9	1,2	0,8	1,7	0,9	0,8	1,4	1,2	1,1	. 1,2	0,8	0,9

OSMR	ACTA1	ZDHHC20	RPN2	TSG101	RPL10	GIPC2	RPS2	TTC39C	COPA	EIF5A	PAK4	STXBP1	PSMD3	STOM	AIFM2	RAB25	CYB5R3	COPG1
164731	13544638	551885	526441	656273	274831	24156575	66272	6828	109388	2037412	722137	79266	113075	60373522	140791	5047864	48945774	11533
283606	18355798	309176	986431	418514	215779	18731553	64431	20401	141755	1684866	540243	247073	156298	91349651	313468	1783318	22467884	41491
238046	8733833	355325	290805	136968	271668	20683868	51362	84733	86453	1481287	644082	128278	80040	45803924	202998	3110348	24836033	66704
165856	14172765	321219	1227796	179476	173178	9702983	19798	16547	122843	928981	253066	154547	280821	43134514	75011	1868010	12809855	87039
201750	18661697	155605	1062458	341710	460338	13178444	168852	79683	569718	2187940	446464	390088	511390	39847355	271145	2112387	15500960	294607
51483	22708149	206603	924048	316171	185417	15738149	30718	15671	137057	1668968	734355	140678	160373	25209749	64003	1669386	20073457	53841
207227	17045928	339736	956911	634837	398478	23520110	85331	13475	125764	1778909	767010	97902	267055	144435301	225860	4357330	44437268	36794
160098	19785706	345997	1581004	353776	768417	20193277	242330	73253	615257	2361375	567182	310519	791264	93181780	177576	3551078	18138008	263784
168637	13167254	389484	1243013	385280	347318	13428170	101640	52552	620108	1927061	535008	87839	364975	19864629	128856	1960337	22849867	160704
271266	20504513	56216	2543871	510092	303035	5699257	178548	3217	451255	1149145	36894	142066	298997	81614509	4932	836751	9369769	63856
299063	22083120	140563	1183404	382486	144108	12742010	62056	2917	381540	792417	136196	40968	286559	30327742	11869	1237432	15504552	76644
298064			1083130		153118	9841077	39129	19580		776689	333370	145516		31838312		2080896		100806
238344			1623092		896783	26400686		32961	383507	3052732	708649	127410		67066620		4922255		66541
31847	10950581		432264	303094	606945	18034936		17083	128308	3562657	701998	171756		56668220		3521649		127465
227994			633551	238658	929757	29829476	191307	84217	261083	3758783	1306522	277698		98576100		5000819		155327
316985	14260464	339469	1434047	299903	685518	10688852	289971	3713	157587	1520208	172270	31115	343803	69267585	100302	2100148	12730610	25560
184100	16626064			379716	343513	18238120	91137	38824	238529	1766217	584317	193544	295040	67916975		2937465	25901155	106974
68169	4343934		397084	188321	199075	5038056		33807	219472	447851	172966	110815	242237	39305264		1289561	13423532	108864
231525	15635134	271738	1272047	373710	508323	15833058	147687	27030	321842	2067462	491363	128046	313181	56902965	146847	2707536	19505813	97113
93927	4396933	144334	646343	89876	315441	8390653	81830	28794	168283	1225985	417037	78743	101146	27541831	154433	1594986	8424013	47730
0,8	1,1	,	0,7	1,0	0,7	1,2		1,4	0,7	0,9		1,5	-	1,2		1,1	1,3	1,1
1,3	0,9	0,8	1,3	1,0	1,5	0,9	1,6	0,7	1,3	1,2	0,8	0,7	1,1	0,8	0,8	0,9	0,8	0,9

SAR1A	LOC10029918 H	ISPA8	PI4KA	TLR5	CIB1	ACTR1A	CNDP2	OS9	IMPDH2	RPL3	TMBIM1	ARRDC1	EPB41L4A HI	P 1	PHB S	PCS2	EFR3A	LOC523126
6168849	1531101	14052058	112336	656318	265167	191938	1282737	45008	76659	33139	3370472	280237	27676	20091	11874	135671	178347	1065745
3370327	2346252	11078066	45241	385818	183733	107710	894065	67773	164622	257138	3089234	244679	29560	285530	20584	159671	118961	1477946
5310904	1064929	11955207	103300	1274207	417259	232921	806696	58630	31652	130663	5843183	357735	93351	0	1839	117867	295706	646204
805108	1373230	6117322	81442	427366	428224	252069	481506	11090	38016	54578	6582117	85660	24527	22740	0	15647	257086	196696
2583967	2252867	14415107	179310	857929	248885	452020	2155611	151594	639270	779114	3440695	267558	39395	83954	66227	39631	357917	1989193
1740227	3462122	6326820	61323	349742	354553	135794	685300	5891	10468	273887	4106714	317503	56816	2843	17803	325063	174148	1739839
7634330	349561	11445384	185851	440053	631412	183952	1067291	39569	81030	59626	3422831	409323	13149	743480	106700	0	268779	407895
4739220	958416	12064999	161970	1433580	571397	262743	1620978	218347	796480	724769	3065683	189169	29033	3290	118644	143388	405775	620399
4901527	1177477	17909468	175769	706510	297206	308385	956320	90686	276784	336010	3264034	206970	6631	0	10659	131922	332612	855817
2012760	2324857	3651884	129863	313342	666838	249434	1397613	13223	40862	15209	4091763	80911	3299	144280	4938	907	281574	191091
1896708	1421763	4215081	359770	684928	143540	165431	821232	6389	6508	59783	10676616	94130	95426	0	1886	53421	490639	227373
1508192	1063437	10563883	203565	336954	478809	108231	751984	18021	11796	29794	5215582	108331	67610	3744	9056	16593	568182	221424
7998505	2569770	14311828	144380	661733	422136	173004	1272702	166857	574528	301483	2099299	273063	21765	88792	194518	3589	216912	2969060
9629022	3413401	14816749	31431	754843	499323	120645	855639	108513	237172	339901	4647436	391600	92212	0	47652	223570	103423	1651339
8519503		12424865	44482	1552446	790716	224291	1746161	143356	219263	636034		301144		10667	180651	163739	157656	748959
2941069		3998545	264051	112707	1026173	213771	824225		4392	194924		61788		718876	77754	37337	199377	103564
4044116	1667310	10931871	116347	728126	387579	227393	1124273	74738	229775	289114		268983	39188	145241	42959	117117	257090	1017990
2326161	980676	3136676	53938	422859	157045	105698	547518	73436	307705	299869		100444		260088	47762	104269	97145	656961
4925911	1749346	10236538	169164	640433	540593	195399	1078234		171413	239142	4658728	189742	44686	120795	65889	78884	293797	871078
3332899	914542	5604644	109045	435765	280491	67022	356043	66358	199223	210117	2719956	122114	36812	247525	79535	83625	162697	993791
0,8	1,0	1,1	0,7	1,1	0,7	1,2	1,0	1,1	1,3	1,2		1,4		1,2	0,7	1,5	0,9	1,2
1,2	1,0	0,9	1,5	0,9	1,4	0,9	1,0	0,9	0,7	0,8	1,1	0,7	1,1	0,8	1,5	0,7	1,1	0,9

SCD	DNAJC5	A0A3Q1LYA8 SI	MAD5	MUC1	PSMC1	OSBP	TUBB2B	PSMC5	LOC782057	MYH1	ACSL1	DNAJA1	GRTP1	DCTN1	BSCL2	SYTL2	HSP90AB1	PSMD2
3630632	1308176	2201329	340383	32937354	59095	1646903	681639	18156	589526	219688	92232224	3466014	448727	130694	2679941	89064	2165964	82766
2946491	984098	2714295	505609	12212498	89539	2377610	872258	67535	1029517	308099	105966818	3488045	216549	62027	3367688	163110	2656053	162162
5747437	832374	2773410	684289	12342770	54810	2174433	957848	49881	535552	84714	78487739	967006	242263	61723	4161972	195946	2799471	158205
1492075	367905	2002752	1028252	10262314	61317	658696	1086801	. 43	258840	43202	123208931	735815	79668	14415	1891451	13144	1343856	71007
5180964	858664	3894743	415659	36385894	124732	2271451	1636525	191671	721975	221273	70911409	2052796	228427	201754	3656691	173887	4322433	463441
3113087	1291355	4953606	172371	29800963	107824	993770	1024024	95938	872046	257751	86602355	726195	121464	88971	3671687	89647	2075867	40064
4626246	1474264	3081049	443834	15946485	160777	2314284	1027509	12560	761289	140525	97695277	3160813	220258	119593	2867332	124358	3825603	161964
7881150	972871	2639453	334296	13838021	234246	2038215	1341839	208420	494787	150592	42901902	1999955	457108	140183	3335340	113923	4976140	910576
4043073	681640	1939456	513613	8006172	154404	2124947	1151152	137921	521161	280402	94441569	3058838	287997	207501	3045523	157282	6162502	395577
1727600	58893	7800893	297640	16694669	198816	270630	2741698	89870	183042	74573	227854949	380588	121730	37106	1754831	142829	2218059	49597
2442522	431983	8487524	713664	30610284	247658	1177295	1459779	60778	246167	84034	109786938	1309565	115806	35706	4229038	55231	4335561	87125
2836704	329303	3852569	1057811	14781640	107550	761870	1292178	13177	297012	98772	132747080	308439	114901	23110	2460065	162103	1235108	100279
8153637	1742903	2708286	600635	54134426	216988	3048370	854334	98196	733106	357329	57151521	3569657	342954	246947	4409893	172904	6363572	440528
8443483	1889869	783261	260854	16145773	14011	2170336	886810	104504	876485	161677	56516954	2080061	433123	84366	3728225	91504	3574515	185191
8810477	2496823	2423449	668248	31338311	156556	2951380	794909	99262	840218	174831	44491906	2265210	517048	128207	2046348	113761	3578425	450104
2158846	483664	4186404	371562	16658913	146183	560370	1347549	53798	263016	92328	146211325	238723	189416	13400	776452	74609	1408769	67204
4327260	1011213	3032580	490587	20465788	111542	1809420	1078555	80525	657941	178231	87250832	2074580	251808	102420	3204013	120385	3020673	256273
1977355	348955	964407	262646	10681745	61695	653850	293006	80216	240313	89382	24166655	1192660	136499	58065	706721	58409	1241147	295097
4827043	1014385	4022730	560503	23546273	155271	1633150	1316051	82188	495026	165493	108650280	1651385	265372	97043	2806297	121278	3609564	221950
3093783	895123	2761581	262073	14705258	72267	1085308	626886	38243	286440	103381	60816731	1295714	155575	89140	1277617	44039	1965748	176458
0,9	1,0	0,8	0,9	0,9	0,7	1,1	0,8	1,0	1,3	1,1	0,8	1,3	0,9	1,1	1,1	1,0	0,8	1,2
1,1	1,0	1,3	1,1	1,2	1,4	0,9	1,2	1,0	0,8	0,9	1,2	0,8	1,1	0,9	0,9	1,0	1,2	0,9

PPA1	LIFR	WBP2	GNA11	EIF3F	ABHD14B	TMED4	METTL9	PTP4A2	VPS37B	RHOA	EEF1G	CSNK1G3	SQSTM1	RALB	ANXA1	ARF2	DCTN2	RPL13
41568	80314	261250	9231667	95198	494414	763787	3713559	563233	163797	9007613	480627	48721	729260	1352498	811366	838085	194442	215655
7860	182319	148292	5623221	229111	202528	800943	1734740	231016	75320	2094431	855513	106741	615425	407678	1455216	1787873	285525	166744
86278	137762	342326	9390527	11596	198543	474037	2108129	306735	154212	3871108	802553	73195	1042975	526221	400520	1059829	170277	281849
41249	68447	70697	17653929	66360	25550	684733	667701	384929	42180	2831882	780845	83812	200782	210060	1291154	714753	98716	575558
213498	152320	207201	9913264	375510	310280	733847	2395410	238453	92066	1946600	2112237	156274	367462	390626	1066584	969110	600917	613284
283072	142748	312973	11891035	73886	300221	504022	1592340	462597	136297	1515539	557363	69826	617165	381684	382265	2724549	77500	235244
53469	136395	247910	9051586	204906	463073	1313519	4978480	1448922	16202	7883258	780569	25366	1400582	561780	4694573	685343	220662	143688
104013	106952	248405	16463690	609717	591464	778044	2754483	325287	149988	3702601	2391456	158083	258186	752652	792913	1654886	386566	679708
49540	99097	176004	7909995	428141	406555	870832	2661607	198355	78464	2146164	1047386	106586	942148	548400	206252	1144034	400244	348312
281129	27171	10710	49210929	293005	301688	346928	1264056	217317	8951	1927163	992930	167759	428215	77895	3788864	502683	17275	185857
43734	40672	153189	21594494	213237	194495	1285175	2312600	120784	34623	545277	447287	47750	397438	475404	932980	612362	93240	117169
186330	55973	150893	22167875	121052	172564	801930	1519000	240189	31343	2148576	431051	145247	123575	294633	740594	677118	35096	383522
4068	100107	187912	6049802	547658	597399	1250542	4998346	295518	101379	5866321	1435238	13467	908422	1019645	1420121	752419	470129	598449
145724	138121	327338	6937945	49719	256183	597192	3418642	736064	232099	3726098	1237736	116528	628696	706688	151405	2853352	617642	658411
139921	185714	300270	7374048	274499	910275	705421	3271728	522412	127544	4356393	1573634	140262	658112	680788	465353	3753320	618796	942082
27462	31528	144044	19836901	141072	146706	209906	1531519	529546	43887	3362180	623739	82519	569347	114478	4186541	1503067	42070	321015
103876	125907	229882	11152365	208285	323259	756616	2493105	495146	103758	4106629	1095145	90252	653980	572900	1361824	1304303	254326	363966
95620	38086	87596	4041559	199728	185255	256893	1342240	401344	55741	2817159	729238	47684	407321	352770	1399919	706501	171486	220179
109738	84798	181295	17635249	258548	373233	758491	2622187	357523	82286	3009771	973625	102515	581994	489741	1486514	1474794	286811	444352
95141	56572	98384	14573062	165683	262440	384184	1256462	213382	72300	1662349	437934	52166	270517	319937	1600113	1198166	267131	272372
0,9	1,5	1,3	0,6	0,8	0,9	1,0	1,0	1,4	1,3	1,4		0,9	1,1	1,2	0,9	0,9	0,9	0,8
1,1	0,7	0,8	1,6	1,2	1,2	1,0	1,1	0,7	0,8	0,7	0,9	1,1	0,9	0,9	1,1	1,1	1,1	1,2

RPL23	OLA1	ABCE1	PGK1	NBR1	QARS1	EHD4	NAPG	LYPLA2	HSPA5	EIF4A1	VAPA	CAPN6	LMAN1	EPHB4	ALDOC	EHD1	CEACAM19	RAB5A
205423	204674	1966	7 64886	725055	9125	20782693	3109396	133861	572346	548097	178971	9421357	1019399	62003	294489	472442	80191	3115387
156713	150110	3656	5 109210	423251	17771	25265097	2270925	82438	346232	1098919	130463	9327532	2209016	26439	255725	751860	62369	1354030
48648	173984	2257	7 34133	827888	21113	19100907	2121419	94761	573653	768564	277847	21992351	437660	63411	110672	1153038	541125	1892520
104326	259423	123:	1 77255	129377	16657	8939703	802806	68519	895422	562083	73129	8510289	182709	15340	302863	600971	37566	747012
288197	520722	65729	9 183540	363285	392414	23245075	2935738	168048	964068	1416528	178945	2847652	924559	90882	506334	744703	116481	1308026
386139	157134	21710	30151	1459334	8406	16082108	2105415	154098	566072	777638	300340	1779080	1615876	39863	368105	470674	133248	910916
2690124	198615	2989	5 151309	493895	40495	20009907	2308264	202149	412065	707458	163803	2319491	1082359	34012	246247	283198	258103	3292361
713347	493076	7318	5 75846	273242	177775	17368036	3388547	186544	2126841	1335992	236805	1589652	911079	50250	296909	679234	122835	1958250
491479	302142	18915	1 113644	736727	154189	23239360	1741199	124630	499580	1150066	150646	14297110	984176	98053	362698	546653	71753	2111636
247233	215928	(130237	75683	43624	10527622	1066506	133529	1377908	631810	52763	4303160	128320	28880	382851	793411	5153	261155
109906	151903	(28558	177415	16094	21946354	708769	43497	824625	912882	189999	30605756	734779	77943	241463	787700	237968	503270
192173		173			14723		1811629		386661	376135		16206766	273637	63871	422968			800937
917804					217939		2189561	142859	692921	1478776		3661400	1849892		190030			2531574
312708		4173	1 68298	825400	57496				703074	634533	777450	3085590	1621569		118613	737550	297094	4128671
525596					110372		4025204		680818		544498	2607850	915736		264872			2953947
165267					3247	9475827	674711		686967	827065		1182414		27983	269578			987443
574114					85470		2380314		807087	901910		7223426			297668			1822313
880011					136269		802218		574495			6903535		24114	112066			950728
370271					77210				731569			9493756		56642	281634	637737		1784829
266886					76957	5843226			294246						102677	193214		1367621
1,6					1,1		1,1		1,1	1,0	0,7	0,8	1,2		1,1	1,0		1,0
0,6	1,0	1,9	9 0,8	0,8	0,9	0,9	0,9	1,1	0,9	1,0	1,5	1,3	0,8	1,2	0,9	1,0	0,8	1,0

SND1	PDIA6	EEF2	RHOG	DARS1	PBXIP1	PTGR2	GLIPR2	NDRG2	OSBPL2	SUSD2	HINT3	STXBP3	BMP1	PRKCI	TMEM214	SNAP23	CMPK1	NSF
942955	160215	7183725	1254600	27316	29341	544989	141033	2333883	32349	58551	219539	160725	66958	103502	4177	5635039	1125244	54974
2133009	436321	11073785	368131	93996	71834	693297	161777	682471	374619	195537	201209	305100	60412	192313	6362	2962044	596455	81617
2008000	225664	8917337	542606	41923	91420	383030	386839	1393652	250156	347221	434973	132936	95830	104102	13160	5496460	1316237	140568
1455160	849714	4414080	591257	74142	182268	172473	36081	171935	144199	280605	139148	56564	14067	268296	21602	3220168	483015	37598
2916953	351756	14781514	447326	312847	100253	946078	133448	833607	177377	846752	335674	100523	126131	113938	70236	2939193	820209	135405
1716543	310769	5831716	511550	56223	147240	287700	54638	837400	122468	556197	437000	183203	21561	234838	8546	3113544	825639	87283
997474	177599	9421023	918334	46981	20845	797223	227819	1734455	30986	80794	103143	39490	101184	113392	3696	5632162	1320489	75086
2434240	599070	11144934	975324	277443	90650	820865	97279	114999	171947	183068	389797	65944	109824	102955	71197	4761244	1318510	139627
2936626	324504	13042671	528647	150630	122127	682592	201858	2028388	136336	110795	270610	192979	55064	241154	28354	2848559	772124	115425
988732	1129740	4797582	86182	134112	25139	509093	76665	298733	249397	751923	203963	23927	12551	443085	71521	1991414	193981	3761
628475	564994	5294546	249528	52900	68967	269110	193907	723413	149173	169304	334989	91639	8263	113873	0	3153270	450097	50602
1290278	432198	5303297	759617	53982	112129	582592	23681	144302	149985	151767	300170	70758	17160	319185	9631	3155983	336912	40325
2025929	273673	13935176	1370005	211317	80233	714746	196681	983302	25209	162094	352161	120671	68824	69749	32381	4754673	1011597	171927
2162604	188857	9690355	1919086	83717	36145	1154935	569137	633629	88888	121958	491461	151923	24712	76646	56696	6689147	1739813	103212
1981271	144232	14420427	1601750	92014	74241	711861	68684	222615	313314	103565	527973	119118	181411	64509	29117	7723499	1808461	116182
1005702	1052149	3619512	1076456	96520	182893	248653	497167	619059	75283	174264	250820	24551	7784	179062	0	4016365	557426	11782
1825542	388888	9096014	701141	116359	91731	580707	154864	1012800	163013	318591	282560	130561	74496	154167	24872	4219982	975725	94020
686943	235992	3312425	311020	112591	54334	278667	111678	764964	112858	266016	133497	87012	41041	67576	28878	1274231	339745	40045
1627452	513793	8762946	948909	109399	87734	609198	228473	706680	148448	218209	341518	99446	46971	188408	28463	4291614	858801	76652
773718	380628	4537356	655408	53571	50714	288166	200599	604003	93816	217348	114199	59204	58822	137482	25751	1991948	618883	59001
1,1	0,8	1,0	0,7	1,1	1,0	1,0	0,7	1,4	1,1	1,5	0,8	1,3	1,6	0,8	0,9	1,0	1,1	1,2
0,9	1,3	1,0	1,4	0,9	1,0	1,0	1,5	0,7	0,9	0,7	1,2	0,8	0,6	1,2	1,1	1,0	0,9	0,8

PCDHGA3	BTN1A1	DHRS12	LANCL2	RAB10	ECHDC1	RETSAT	RRAS2	TBC1D9B	YWHAZ	GK	1	RAB43	MDH1	ENG	LOC521224	SNX3	SNAP29	ERGIC1	G3N0S9
295705	23855104	31436	437356	2517363	419891	23081	2741323	45371	2798671		67728	791780	244939	344426	478878	8121	3865041	36175	817105
22171	30476236	158335	446958	1620866	250109	242591	990606	58930	1926326		36274	490001	209534	597720	105466	3980	3 2847702	104828	90012
238006	33642721	177439	414240	2818424	278907	223142	2271980	156802	2484904		12562	651421	236543	318736	96514	8740	1999560	231925	121416
484890	9601544	18184	907155	802049	182138	111365	688917	17417	1805951		3112	205050	97465	832466	18636	1502	646371	37023	42479
222996	25590865	192237	661142	1829274	604808	172421	1109513	110323	3176037		44804	388318	375100	383772	353905	5438	1881200	298555	32318
168269	12476234	188002	915640	2033900	428155	137323	1325179	213128	2594787		6130	557607	362242	570628	20113	6962	816867	236697	20972
109037	14429006	23123	559646	2474059	786045	93929	3143845	68138	3668015		95229	733671	349548	400056	280787	8606	4787441	11888	551920
274675	22677516	252307	710054	3199170	401083	21742	2314053	69461	3916035		29228	446795	177802	315105	303974	9306	3315317	516088	106752
224702	38693052	159299	744277	1777649	307388	97741	1232406	107464	2316213		42162	481652	158091	385809	532258	4923	2922785	196932	27982
153833	21363211	21589	1340277	276385	164584	10440	447457	14398	2805288		11954	84128	105591	2153397	38451	4365	428001	112711	87583
907333	15328410	58128	919434	963052	159046	91752	867922	73412	2528040		52014	201891	145162	613432	322937	2140	1456492	72153	25466
202618	9191386	37591	1116700	894774	314325	112030	602520	27254	1953337		19360	264686	208699	566092	63805	1660	648661	40607	24510
259681	14773589	121796	262090	2692080	406623	213787	2000524	5594	4257735		94762	736038	312422	297657	341056	12379	3779502	145035	108116
246998	20692618	254150	562165	4984169	714886	199944	3910900	289054	3766574		14140	1044985	435970	207687	266666	24574	3866978	207911	39791
183797	21159283	301663	477632	4519566	473729	74471	3318367	94815	4947371		23114	966638	358336	182310	207439	20512	4980381	. 333148	85810
139229	6420978	62510	529013	2017678	425423	123870	1116200	29583	3843039		30932	466431	284229	825449	69652	5810	964713	43604	578168
226969	21593653	130133	631524	2161888	418892	128199	1823177	92446	2796341		36883	533080	256647	470364	207284	6582	2519937	184147	222872
137818	8657096	91722	202796	755899	197812	82790	907633	64491	759052		31971	192587	98654	182361	170407	2740	1453096	172306	295787
289774	18452816	127091	743948	2265669	370751	115504	1687037	80197	3302200		36055	530806	251063	653979	230283	9545	7 2380939	144012	122178
253072	9887344	104028	360100	1710689	180409	65980	1288482	92493	1053269		27444	354871	115498	644488	170799	8728	7 1727510	99696	187158
0,8	1,2	1,0	0,8	1,0	1,1	1,1	1,1	1,2	0,8		1,0	1,0	1,0	0,7	0,9	0,	7 1,1	. 1,3	1,8
1,3	0,9	1,0	1,2	1,0	0,9	0,9	0,9	0,9	1,2		1,0	1,0	1,0	1,4	1,1	1,	0,9	0,8	0,5

РКМ	MYO1D	RPL7A	A0A3Q1MBN C	NK1G1	CDC42	CPNE3	RAB14	CYRIA	HSD17B7	МРО	SLC1A1	RAB33B	EPRS1	BSG	GSTM2	СНМРЗ	LDAH	сстз
123790	1461534	193130	420842	89885	4077034	188728	341238	1037847	4962324	15407	2831521	455706	13034	2010134	389879	874397	405270	12852
411282	1630468	283287	1963123	638	1753022	462502	590218	487809	3696485	391865	3728189	339733	14018	2792154	108779	807021	112425	49613
97051	1241404	139807	336584	100447	2500532	31086	545780	1933182	6128516	25313	4396202	181125	2253	1896139	321291	723362	717586	46812
94245	636448	106496	233942	8320	1012253	58583	92522	572840	2206093	0	3186340	23192	79729	502689	212354	348624	124126	7944
628817	1274442	608888	1755583	164973	1888460	192329	753316	509401	3621906	100721	1729950	107518	215505	638822	211678	541504	1041998	103303
250152	949143	150123	375631	49385	2192863	128938	655183	518362	3350091	4415	5850055	168794	74188	1654447	177468	793973	947063	10267
289976	795602	471547	8892989	2033	4135801	77097	537925	494971	3637504	951076	3037712	370756	1934	2129458	332968	1029538	276093	92556
323055				141177	4001035	156793	871584		4193835		2176220					692706	1110573	195586
358627				3335	1938440	332496	974139		3020610		4401816				294864	645600	255448	112663
148425				40528	597471	39393	277543		649793		7935890	24720					298263	44908
233003				47551	936132	164126	429444		2087957	0	5829210						669797	22673
166248				126431	776171	76650	229401		3040388		9566377	35048					681450	1661
439593				6441	3139481	159495	464381		5422342	167866		533853					254730	132550
218792				146709	5881261	112518	1922231	1466821	5495813		1917516						1043458	48493
164524				188424	4765304	42819	1332841	824444	6898964		1888047	468349					2278955	76782
36042				13863	1804314	138541	416330		5092902	644540	4091772						173274	15433
277296				69607	2695125	162007	548471	788120	3974594	188149	3367024	229708					591892	64867
182862				64440	1216029	135276	242147	499695	1164721	335136							413491	64162
220657				71660	2479822	133255	755789	853253	3963596		4626286		39541	1454913			706922	56895
126793				71792	1956908	94104	603999		2091076		2988480						701698	46881
1,3		0,9	,	1,0	1,1	1,2	0,7	0,9	1,0	1,4	0,7	0,9		_			0,8	1,1
0,8	0,8	1,1	0,9	1,0	0,9	0,8	1,4	1,1	1,0	0,7	1,4	1,1	0,6	0,9	1,3	0,9	1,2	0,9

STXBP6	AGPAT1	AIDA	S100A9	JAK1	UGP2	RAB11B	CYSTM1	TMED10	PAEP	MVP	CD109	TLR2	CSNK1A1	PRKG2	VAMP8	TOLLIP	A0A3Q1LP69 H	HSPB1
898737	32281	335265	95719	345805	1967407	5866819	745966	389517	878264	1087311	5497286	10231176	189037	14783733	696088	2802123	22073	2982691
378094	7424	219468	329894	410670	3428961	2411930	596290	356946	755166	843209	1030915	7437956	89348	14896016	493938	927170	24309	941779
870236	175389	290038	56048	973148	1537530	3296956	1014398	456692	3721792	539989	510277	13435903	86673	13844379	682223	1949392	53445	1610890
357293	15180	584964	273302	411862	1815702	2980753	437476	562043	5434605	1650592	5139430	8225782	89112	6596546	350797	392757	33644	1217468
554817	135311	316049	326210	761699	4667790	2581130	716191	591518	742951	966535	1405373	10640054	290968	15660105	207654	1260292	75277	1308290
367962	119693	472295	78600	360243	1876143	1950005	702802	623211	1467700	482857	506746	8566482	292211	14892698	1077192	1565586	90899	953899
945136	107986	424045	3763616	212914	3147189	5663562	1211465	813363	3555265	469073	377130	12512239	186957	11487872	1311602	2719967	25720	2366542
950522	212738	327124	66630	847670	3601117	3386956	985286	1248525	5246344	2093440	285264	11717669	140908	15653823	837703	1255319	196139	4869469
750802	58527	101570	32165	576231	4364206	3053292	648065	488259	312923	991610	1941227	13322024	105554	16583144	632410	1129835	42601	1915783
238498			1473632		2227383	1765824	92395	375417	960248	1178480	1637747	18600191				1349735	11525	1081269
292588			49705		1887651	1918744					1026893	16383247		6516778		1390484		1615285
409719			129427	482999	1739748	2950261					4571880	16697628				587485		912368
1261925			594652		4647910	5734073	1577150			995445	1133364	8798905		23634977		1956725		2081756
970287	277078		77419		2595357	4564128					216783	5961913		17362543		2013235		5122952
1342408			144371		2850601	6312325					214511	6647430				2396382		5966438
374475			3816944		924373	3377686				1849049	385552	16290932		5834750		855009		1823526
665350			623752		2755230	3517264			2725261	1016626	1844053	10345908		13476896		1609076		2031379
276230			1274201		1117390	1465546				586872	2178082	2149417		3085961		842307		1351316
705088			789789		2654654					999892	1390995	12837784				1459861		2564922
442892			1317531		1283929	1677831					1436982	4996333		7607026		619091		1895570
0,9		1,1	0,8	,	1,0	0,9				1,0	1,3	0,8		1,0		1,1		0,8
1,1	1,1	0,9	1,3	0,8	1,0	1,1	1,1	1,2	1,0	1,0	0,8	1,2	0,9	1,0	0,9	0,9	1,3	1,3

UBXN4	SH3BP4	SERPINB6	RPS3	GGT1	XDH	ATP11B	AP2A2	RRAS	LOC521568	SLC28A3	MINDY1	RPL28	RAB8A	ACVR1B	RAP2C	FAM114A1	DHCR24	ALDH2
486329	170351	533035	268741	23237319	2092041242	42241	11397	12041277	636015	55066071	215530	8937	1490281	169023	770145	385053	807266	213332
565002	270293	305280	261369	24964240	1993093885	38338	22050	5615964	1157454	72995644	439433	18182	907426	186168	250712	633316	315761	478263
1113148	246117	157589	116118	17968802	1223964723	75867	5294	7398919	228280	124281671	164183	14399	1271873	99195	133633	645274	126758	240601
461454	27952	126143	99180	13598227	3182385413	52345	0	3539345	566393	36590295	177553	5956	333318	55660	180723	1072746	49241	512626
504571	229751	436072	436882	11086771	1762899098	82550	73971	4849853	7201655	70145107	162690	80567	994427	78266	237494	476738	310788	2267689
588447	162236	224771	211501	9296874	1561873882	145043	150757	2617451	246780	61291653	223868	23316	1022840	26293	143674	884263	61224	221503
441503	231067	230524	555799	14002471	1799861198	17764	0	10634895	70527	48294567	146514	152985	1588174	125870	441792	331244	516800	1206959
596105		417142	1035364	9806931	1472825717	93438	35580	9036721	105086	68826645	169952	165286	2020224			369591		1265348
613685			271881	13727045	1822115781	66470	12208	4834688	136340	89889042	211046	83630	938181	123760				345277
669395			141365	27342802	3103167193	188562	14447	4582285	907416	57815418		4548	250822				197820	814012
732427	216608		19112	20406826	2088722702	47713	23661	4300828	379761	80335095		7199	594694					221667
652448			36144	11300138	2994314532		0	3842957	668263	61231348		4869	282298			808763		821377
234533			1147617	9955868	1335881001	25884	19720		5438518	52722908		133367	1471683				173262	1356782
844509			680762	8991048	1253264969	54996		10420144	1764562	94254495		134032	3388392					388755
662449		343965	1018943	5079687	1459377358	67216	61575	10959600	192289	66208662		150070	2640053					1383149
666564			122978	26496231	1821708249	35430	3036	6649535	108242	43233342		18806	1199162				180272	1721024
594570			373119	15495204	1886118145	68448	37381	6966803	1276524	67186457	212465	58703	1203570					800790
217388		145134	308592	5997124	594158743	39941	52004	3394261	2420796	26130811	95498	66379	510344					728416
634501	215082		429850	15412456	1984818973	84162	22596	6941152	1199424	68211289		67065	1345661					881506
176250			455323	8346545	713746463	65499	21212	3021260	1799353	18204208		65175	1130420					555007
0,9		1,0	0,9	1,0	1,0	0,8			1,1	1,0		0,9	0,9			0,8	,	0,9
1,1	1,1	1,0	1,2	1,0	1,1	1,2	0,6	1,0	0,9	1,0	0,9	1,1	1,1	0,8	0,9	1,3	0,7	1,1

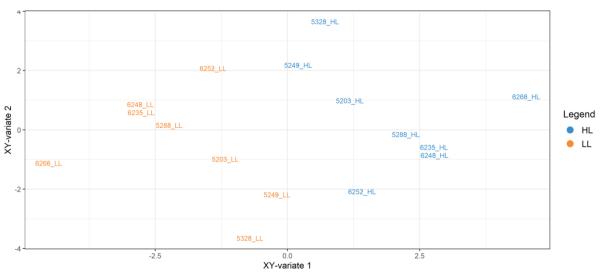
A0A3Q1LP69 CA	AB39	GALE	PGRMC2	HRAS	IQGAP1	RASA3	HSP90B1	LASP1	GANAB	RPL6	PRXL2B	RAC1	ССТ8	RIT1	ALDOA	RHOF	PSMD12	PTPN6
292622	684473	320420	34917	410253	131747	27329	324611	. 119759	139449	387265	6248782	9740900	21	17 1109	904 29574	3375029) 0	56719
141514	246652	372030	3755	189053	186543	44426	554279	111410	186525	335045	2637485	2437959	23	13 645	98 50670	3 1583328	3 0	92241
720866	452742	221721	110523	359557	93591	18150	649159	264082	83304	406913	3800557	3411918	589	58 1326	735 7849	3 2845201	5989	121019
992525	235328	370036	11905	166697	519818	7423	357148	81575	230058	331498	1846621	3591959	5-	14 256	724 19142	3 1265063	8137	45654
316867	221095	539211	41522	570103	480190	17708	981346	273862	203364	999404	2124678	2734789	60	76 537	245 46799	6 1674675	37584	132961
796311	104893	319069	43927	292610	166164	28970	403395	150272	78014	369817	3839946	3567453	45	69 765	163 13024	2 1679069	8671	79947
274160	787744	468201	28922	401637	288076	65589	471066	231530	153500	687478	6912701	9582643	26	16 2125	604 46059	3 2320999) 0	40000
266025	374600	296443	56056	437495	479448	8335	1319702	326496	323274	1096756	4065851	4841092	64	57 954	201 30490	4 3660585	40453	188034
177304	246067	472684	5679	261525	425476	18117	1049491	155931	263977	816912	2409100	2526178	24	90 586	207 41522	1 1680545	3648	99206
1076566	178320	895673	44316	257619	804512	898	250192	45056	224245	279599	488719	1834414	5	89 219	19270	9 1058245	11323	117571
811060	173100	623137	11914	143754	355905	7723	257521	. 70018	362232	91580	989879	1728057	10	21 783	7311	5 1135924	. 0	31737
563646	164042	368712	14508	188979	253022	15079	235952	93527	151625	212189	1963505	1748809	2.	28 409	312 24947	1 959840	469	94746
257698	395802	713483	26410	501192	215985	88563	771545	176529	249835	1330441	7099213	7436962	39	76 1162	40230	3317892	2 0	33462
568999	446636	310971	83826	623364	139587	17498	611369	386139	161510	651008	8246535	7686816	78	43 1449	375 20377	7 3968358	25161	52228
151494	553261	289607	114449	530861	130530	56153	967063	581560	102580	1078816	9887084	9057722	66	39 1427	361 24614	3 5341940	36834	155068
947055	215646	209266	60648	206110	363143	8502	249244	128711	61475	506048	3101203	2291821	8	69 451	956 29301	3 1731751	2716	70073
475111	388441	363391	41441	353426	293197	27241	632588	194873	174686	576772	3934578	4988589	38:	65 965	159 30451	4 2300494	12604	94572
312823	240047	100271	32698	133733	175035	19613	348364	90342	80617	313379	1835626	2970160	22	03 576	16313	899672	16713	50613
569228	296609	485442	45219	339176	336020	26567	549047	204684	197185	620824	4273155	4288847	29	69 811	228 25946	9 2399312	10019	81762
355330	148395	238479	38715	183183	217363	30106	346572	185116	97043	435786	3597123	3169673	29:	75 478	509 11234	5 1621010	13815	43050
0,8	1,3	0,7	0,9	1,0	0,9	1,0	1,2	1,0	0,9	0,9	0,9	1,2		1,3	1,2 1,	2 1,0	1,3	1,2
1,2	0,8	1,3	1,1	1,0	1,1	1,0	0,9	1,1	1,1	1,1	1,1	0,9		0,8	0,8 0,	9 1,0	0,8	0,9

ATP8B1	GFPT1	TPT1	OXSR1	A0A3Q1LJQ7 R	PS16	RAB35	RPL14	EIF3A	BLVRB	PRKCD	IL1R1	SULT1A1	ҮКТ6	BZW1	RPLP0	APMAP	DNAJC12	PATJ
454764	55455	431286	111537	70516	20396	5413842	29627	13354	450904	79148	745598	1533717	12283736	73525	108239	112246	662692	8516
277805	117881	311146	219305	144102	32932	3558884	73115	37585	448480	85209	215630	1018439	6914050	120406	139643	175274	553009	11964
525850	185983	486583	76397	52609	49158	5514725	143426	9630	711736	117088	380301	430070	8486935	139277	48168	419612	779233	110349
1319248	59506	238400	140033	480607	37092	1795402	163139	3629	252787	24109	58361	575273	2737061	55345	39881	152248	227975	159947
521579	341457	427007	162147	207999	144561	3570426	279116	130891	442653	254761	397289	647941	6564642	149227	433943	602221	614119	201602
416568	239019	512377	47550	262939	64666	3573476	179708	744	319550	170066	106366	1286626	5951974	186162	59372	287990	679631	274898
239745	40198	481505	200694	268729	84890	5403875	148641	16844	637190	74863	388639	2074483	15605423	20106	209528	88349	828853	27756
663339	391702	597364	110520	229411	393074	6933327	347918	166066	611359	160431	705519	1710008	11402113	163075	456019	427553	644000	158115
456912	311519	246037	338761	368043	164076	4616260	159993	47155	437625	99234	243777	677953	7171128	95241	206837	183186	477730	25447
475349	51673	162577	118404	564526	2945	2162631	45466	26765	117079	130910	100494	758940	2789022	111784	242329	174469	188142	325898
410222	37635	409937	75929	98333	9204	2974771	44637	5240	270789	31966	155919	452774	2900256	25890	21019	165899	402774	258921
764338	67627	396252	38196		24551	1946661	81970		197254			594304	5536297	41632		189745		203180
405337			176839		439754	5908627	294250	79087	660097	184726		1411249	14788419	86311		173762		875
513167			266903		323666	10062452	298108		797974			1474204		147336		602271	1025403	104909
453319			184882		446472	8601597	528606		902811	230753	670409	1704938	19812737	140319		481100	949184	153394
377330	92120		18453	476481	107181	2822409	187002	3273	542319	46307	80680	870575	5599113	35156	154890	113073	695447	49248
552362					103346	4470495	170586	47343	484332	120709	374713	1159570	8743242	113390			623689	119143
338728			59039		123429	1626520	102785		158619			591781	4118210			184093		97393
481997			152296		189731	4886926			490744	125098			9796976					140234
121988		272787	111791		188453	3063320		27754	285980				7213223	47249				116384
1,1		1,0	0,9		0,5	0,9	0,8	1,8	1,0	1,0	1,1	1,2	0,9	1,3	0,9	1,1	1,0	0,8
0,9	1,0	1,0	1,1	1,3	1,8	1,1	1,2	0,6	1,0	1,0	0,9	0,9	1,1	0,8	1,1	0,9	1,0	1,2

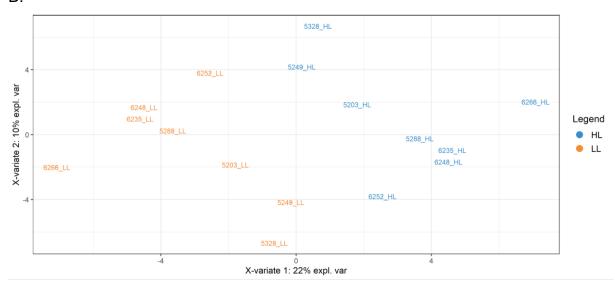
PARD6B	AP1B1	RPS18	NPEPPS	SYTL4	SLC3A2	CAPN1	CSN2	BCAP31	RPS6KA3	CD14	PAH I	RRAD	CLTC	B4GALT1	RAB6A	LOC11244564 S	EC24C	PPP2R1A
170169	62092	31679	4816886	10655	4051631	133907	97534	451198	104229	4638270	7916	549201	2806312	1588869	2901290	131312	178148	35635
140383	36397	12721	5507986	38783	4702129	85921	2007771	265452	129253	2979343	116136	473271	3248922	1739075	1415275	605724	245809	89712
150835	48798	56223	2825800	89265	1951235	133620	79096	488671	239472	6350325	0	713822	3618902	607706	1712767	272461	203069	71568
192186	302245	18204	8542255	45748	3290180	21600	162031	163354	236689	3721216	2837	231671	5775701	3690883	1294217	368495	353024	18492
137603	323514	104270	7511997	122660	2666505	91739	2264924	471846	545320	6554719	20018	723886	9470983	2645132	1159246	472734	361434	124681
129066	133054	33152	3697718	93096	2383447	98255	89589	772829	274318	8128909	0	339077	3353409	1457021	595167	300120	368721	178177
113725	51818	648219	6106691	19573	3078058	129835	6989242	623397	101932	5892880	326201	675273	3663002	1384375	2614049	4393523	120084	43636
136947	244846	268813	3707258	55534	2818978	105240	57704	848786	436799	4351173	5520	504653	12686089	6897257	2189353	540515	250280	42439
80876	168320	113430	6574516	44339	4462594	118952	56368	432012	443996	3200357	23644	603745	8860684	2430393	1936809	80707	273763	85785
70440	413274	129843	4420679	16748	4360721	77205	2815256	73672	148753	11837650	399	258749	7115658	3505470	1483855	558267	568317	80000
113171	278892	6947	6006347	20518	4194046	65897	78481	321817	641194	3958086	0	312838	4150534	1317051	761848	58462	110203	80296
181484	265141	7645	11217777	40239	2815376	25149	79623	181032	153347	10175430	8512	430740	3881072	1752733	697729	342889	452856	63561
85039	94452		4166073	132745	3472651	157103	2827077	967323	304185	5392445		776321	6817825	2110383	2468594	2315805	214831	47493
189993	58850	160521	4446127	70810	1458738	137812	114269	1081594	156054	2534943	9	419746	4203970	1098510	3073542	518000	212566	89545
289262			4233477	51770	1699089	46779	247073	1110385		4535977	22813	614270			2999000	570771	288921	81122
198635			3924586	15721	2141884	97201	4475751	356075		11061551	5804	364542		1497001	1038071	3480476	154633	16317
146364		146660	5339574	59414	3117770	100015	1468486	510692	258501	5327104	59828	526357	5577915	2501290	1735171	885610	260071	75542
24646		219416	1983713	38946	894950	37059	2414607	233619	160429	1700505		178110	3611100	2003479	780761	1425706	93025	53621
151113	198376	120430	5623698		3075637	90762	1336737	565489		6587055		472619	5586580	1973690	1807431	990672	284511	68015
76555			2453059	38829	1220798	45501	1762515	420116		3796636		176066		761358	963479	1233953	154135	24955
1,0			0,9	1,2	1,0	1,1	1,1	0,9		0,8		1,1	1,0	1,3	1,0	0,9	0,9	1,1
1,0	1,3	0,8	1,1	0,8	1,0	0,9	0,9	1,1	1,1	1,2	2,4	0,9	1,0	0,8	1,0	1,1	1,1	0,9

G5E554	PSMC2	DDOST	ARCN1	RAB22A	PSAT1	NIBAN2	PCBP1	SPTLC1	NAPRT
4793513	3600	51961	35966	195070	80313	871954	997824	107179	33144
6228737	50048	113448	74370	43918	46529	1100561	909816	125574	12172
15400107	15709	108693	119247	159602	156080	1254262	1230730	142391	45777
1015592	33818	98704	44273	21279	116223	986809	932879	24067	250927
2941278	169754	258141	234543	103915	524678	1226313	1399949	172365	82458
7128657	26723	68664	83092	56065	181109	1632583	1434999	232817	42776
4638224	19832	54090	66364	272525	52626	638203	1245714	63842	0
1755639	178531	318902	419635	153791	706548	1219310	1358635	222425	31851
3264784	96385	86374	209732	86511	169052	1163000	737544	203438	56365
1058100	186655	281946	145015	9402	123403	2900082	902494	131112	109542
6639682	9801	44904	24489	14464	52925	1520525	1062392	134511	238539
2174398	6150	72910	23190	41777	150437	1442623	991519	23838	130442
3010860	126389	157183	223152	237571	241532	729229	1439026	116656	0
18757204	24696	123894	172022	283158	288585	747887	1381778	261579	51928
7503241	62067	165928	246187	299011	478508	705079	1204509	200954	42123
3507820	112224	64108	37425	28058	17079	1047508	1037876	29690	12311
5487718	62252	134075	134686	125771	233013	1116249	1188818	136332	62388
4521591	70410	99494	131091	85544	245587	296068	213421	72585	80011
5739511	78046	124656	135152	124994	190190	1281992	1094642	137722	80156
5689053	63881	77156	93674	126125	146746	726410	236780	83491	77749
1,0	0,8	1,1	1,0	1,0	1,2	0,9	1,1	1,0	0,8
1,0	1,3	0,9	1,0	1,0	0,8	1,1	0,9	1,0	1,3

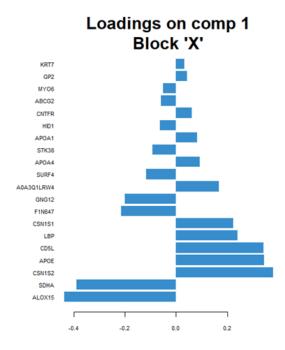




B.

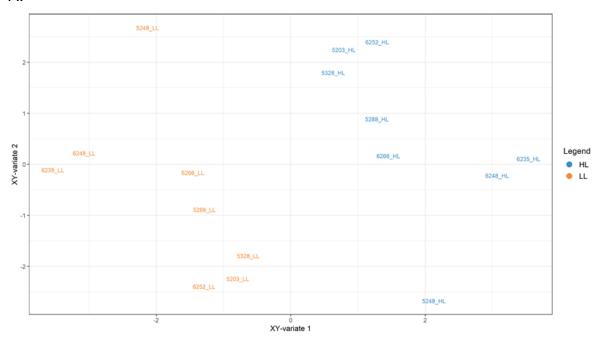


C.

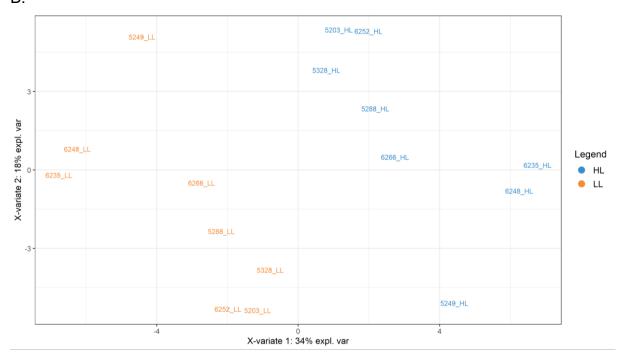


Supplementary Figure S1: sPLS - lipolysis results: A. Plot of the XY space, B. Plot of the X space, C. Loadings on component 1 of Block X.

A.

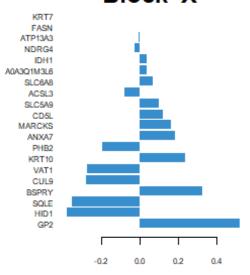


В.

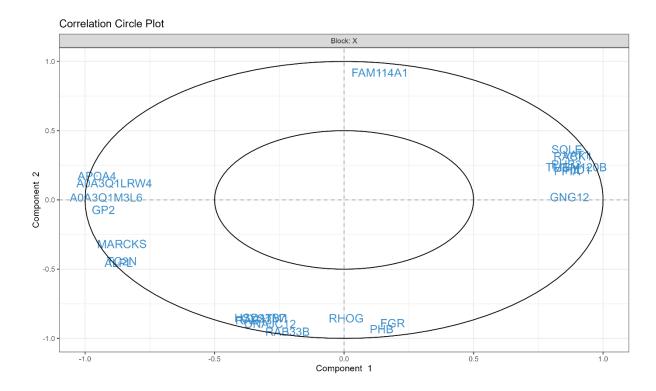


C.

Loadings on comp 1 Block 'X'



Supplementary Figure S2: sPLs – milk LPL activity results: A. Plot of the XY space, B. Plot of the X space, C. Loadings on component 1 of Block X.



Supplementary Figure S3: Correlation circle plot representing the proteins selected by sPLS-DA with a cut-off at r > 0.85. Only the proteins selected by sPLS-DA (corresponding to 20% of the total protein dataset) are shown in components 1 and 2 (details of sPLS-DA analysis not shown).