Up-regulated genes with annotations

Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	Related Genes	Mus musculus
BIOCARTA	Multi-Drug Resistance Factors, Nuclear Receptors in Lipid Metabolism and Toxicity,		
COG_ONTOLOGY	Defense mechanisms, Posttranslational modification, protein turnover, chaperones,		
GOTERM_BP_FAT	response to inorganic substance, response to metal ion, drug transport, response to drug, response to cadmium ion, transmembrane transport,		
GOTERM_CC_FAT	Golgi membrane, mitochondrion, Golgi apparatus, plasma membrane, cell-cell junction, endomembrane system, integral to membrane, apical plasma membrane, cell junction, organelle membrane, intrinsic to membrane, Golgi apparatus part, plasma membrane part, apical part of cell, intercellular canaliculus,		
GOTERM_MF_FAT	nucleotide binding, nucleoside binding, purine nucleoside binding, ATP binding, xenobiotic-transporting ATPase activity, drug transporter activity, multidrug transporter activity, primary active transmembrane transporter activity, P-P-bond-hydrolysis-driven transmembrane transporter activity, hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances, ATPase activity, purine nucleotide binding, adenyl nucleotide binding, ribonucleotide binding, purine ribonucleotide binding, adenyl ribonucleotide binding, ATPase activity, coupled to transmembrane movement of substances, xenobiotic transporter activity, ATPase activity, coupled to movement of substances,		
INTERPRO	ABC transporter, transmembrane region, ABC transporter-like, ATPase, AAA+ type, core, ABC		
	transporter, conserved site, ABC transporter integral membrane type 1,		
KEGG_PATHWAY	ABC transporters,		
PIR_SUPERFAMILY	PIRSF002773:multidrug resistance protein,		
SMART	AAA,		
SP_PIR_KEYWORDS	ATP, atp-binding, duplication, glycoprotein, hydrolase, membrane, nucleotide binding, nucleotide-binding, P-loop, phosphoprotein, repeat, transmembrane, transmembrane protein, transport,		
UP_SEQ_FEATURE	chain:Multidrug resistance protein 1, domain:ABC transmembrane type-1 1, domain:ABC transmembrane type-1 2, domain:ABC transporter 1, domain:ABC transporter 2, glycosylation site:N-linked (GlcNAc), modified residue, nucleotide phosphate-binding region:ATP 1, nucleotide phosphate-binding region:ATP 2, topological domain:Cytoplasmic, transmembrane region,		
Rab15	RAB15, member RAS oncogene family	Related Genes	Mus musculus
GOTERM_BP_FAT	intracellular signaling cascade, small GTPase mediated signal transduction, protein localization, protein transport, establishment of protein localization,		
GOTERM_CC_FAT	plasma membrane, internal side of plasma membrane, plasma membrane part,		
GOTERM MF FAT	nucleotide binding, GTP binding, purine nucleotide binding, guanyl nucleotide binding, ribonucleotide		

	binding, purine ribonucleotide binding, guanyl ribonucleotide binding,		
INTERPRO	Ras GTPase, RNA polymerase sigma factor 54, interaction, Ras small GTPase, Rab type, Small GTP-		
INTERPRO	binding protein, Ras,		
SMART	RAB,		
SP_PIR_KEYWORDS	cell membrane, direct protein sequencing, gtp-binding, lipoprotein, membrane, methylation, nucleotide-binding, prenylation, protein transport, transport,		
UP_SEQ_FEATURE	chain:Ras-related protein Rab-15, lipid moiety-binding region:S-geranylgeranyl cysteine, modified residue, nucleotide phosphate-binding region:GTP,		
Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha) Related Genes Mus musculus		
BIOCARTA	Role of EGF Receptor Transactivation by GPCRs in Cardiac Hypertrophy,		
GOTERM_BP_FAT	proteolysis, cell adhesion, biological adhesion,		
GOTERM_CC_FAT	extracellular region, proteinaceous extracellular matrix, plasma membrane, integral to membrane, extracellular matrix, intrinsic to membrane, extracellular region part,		
GOTERM_MF_FAT	endopeptidase activity, metalloendopeptidase activity, peptidase activity, metallopeptidase activity, zinc ion binding, SH3 domain binding, protein domain specific binding, ion binding, cation binding, metal ion binding, transition metal ion binding, peptidase activity, acting on L-amino acid peptides,		
INTERPRO	EGF-like, type 3, Peptidase M12B, ADAM/reprolysin, Blood coagulation inhibitor, Disintegrin, Peptidase M10A and M12B, matrixin and adamalysin, Peptidase M12B, propeptide, Peptidase M, neutral zinc metallopeptidases, zinc-binding site, ADAM, cysteine-rich, EGF-like region, conserved site, EGF, extracellular, Disintegrin, conserved site,		
PIR SUPERFAMILY	PIRSF006749:mouse meltrin alpha,		
SMART	DISIN, ACR,		
SP_PIR_KEYWORDS	cell adhesion, cleavage on pair of basic residues, disulfide bond, egf-like domain, glycoprotein, hydrolase, membrane, metal-binding, metalloprotease, phosphoprotein, Protease, sh3-binding, signal, transmembrane, zinc, zymogen,		
UP_SEQ_FEATURE	chain:Disintegrin and metalloproteinase domain- containing protein 12, compositionally biased region:Cys-rich, disulfide bond, domain:Disintegrin, domain:EGF-like, domain:Peptidase M12B, glycosylation site:N-linked (GlcNAc), metal ion-binding site:Zinc; catalytic, metal ion-binding site:Zinc; in inhibited form, modified residue, short sequence motif:Cysteine switch, short sequence motif:SH3-binding; class I, short sequence motif:SH3-binding; class II, signal peptide, topological domain:Cytoplasmic, topological domain:Extracellular, transmembrane region,		
Csn3	casein kappa Related Genes Mus musculus		
GOTERM_CC_FAT	extracellular region,		
INTERPRO	Kappa casein,		

PIR_SUPERFAMILY	PIRSF002374:Casein_kappa, PIRSF002374:kappa-casein,			
SP_PIR_KEYWORDS	milk protein, phosphoprotein, Secreted, signal,			
UP_SEQ_FEATURE	chain:Kappa-casein, modified residue, signal peptide, site:Cleavage; by chymosin/rennin,			
Copg	coatomer protein complex, subunit gamma	Related Genes	Mus musculus	
COG_ONTOLOGY	Intracellular trafficking and secretion,			
GOTERM_BP_FAT	intracellular protein transport, protein localization, protein transport, vesicle-mediated transport, cellular protein localization, establishment of protein localization, intracellular transport, cellular macromolecule localization,			
GOTERM_CC_FAT	Golgi membrane, Golgi apparatus, Golgi-associated vesicle, plasma membrane, internal side of plasma membrane, endomembrane system, vesicle membrane, cytoplasmic membrane-bounded vesicle, membrane coat, vesicle coat, COPI vesicle coat, coated vesicle, COPI-coated vesicle, cytoplasmic vesicle membrane, Golgi-associated vesicle membrane, coated vesicle membrane, COPI coated vesicle membrane, organelle membrane, cytoplasmic vesicle, vesicle, membrane-bounded vesicle, Golgi apparatus part, cytoplasmic vesicle part, plasma membrane part, coated membrane,			
GOTERM_MF_FAT	structural molecule activity,			
INTERPRO	Clathrin/coatomer adaptor, adaptin-like, N-terminal, Armadillo-like helical, Coatomer, gamma subunit, appendage, Ig-like subdomain, Coatomer, gamma subunit, appendage, Clathrin alpha-adaptin/coatomer adaptor, appendage, C-terminal subdomain, Coatomer, gamma subunit,			
PIR_SUPERFAMILY	PIRSF037093:coatomer, gamma subunit, PIRSF037093:Coatomer_gamma_subunit,			
SP_PIR_KEYWORDS	cytoplasm, cytoplasmic vesicle, er-golgi transport, golgi apparatus, membrane, protein transport, repeat, transport,			
UP_SEQ_FEATURE	chain:Coatomer subunit gamma, region of interest:Interaction with repeat:HEAT 2, repeat:HEAT 3, repeat:HEAT 4, sequence conflict	chain:Coatomer subunit gamma, region of interest:Interaction with ZNF289/ARFGAP2, repeat:HEAT 1,		
Irak2	interleukin-1 receptor-associated kinase 2	Related Genes	Mus musculus	
GOTERM_BP_FAT	protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, apoptosis, cell surface receptor linked signal transduction, intracellular signaling cascade, protein kinase cascade, I-kappaB kinase/NF-kappaB cascade, activation of NF-kappaB-inducing kinase activity, cell death, regulation of cell death, programmed cell death, phosphorylation, regulation of phosphate metabolic process, lipopolysaccharide-mediated signaling pathway, activation of protein kinase activity, positive regulation of kinase activity, regulation of phosphorylation, regulation of apoptosis, regulation of programmed cell death, positive regulation of catalytic activity, positive regulation of DNA binding, negative regulation of transcription factor activity, regulation of kinase activity, negative regulation of molecular function, positive regulation of molecular function, regulation of transcription, regulation of protein kinase activity, protein			

	amino acid autophosphorylation, regulation of transcription factor activity, positive regulation of transcription factor activity, positive regulation of NF-kappaB transcription factor activity, regulation of binding, positive regulation of binding, negative regulation of binding, regulation of DNA binding, regulation of phosphorus metabolic process, regulation of transferase activity, positive regulation of transferase activity,		
GOTERM_MF_FAT	nucleotide binding, nucleoside binding, purine nucleoside binding, protein kinase activity, protein serine/threonine kinase activity, ATP binding, purine nucleotide binding, adenyl nucleotide binding, ribonucleotide binding, purine ribonucleotide binding, adenyl ribonucleotide binding,		
INTERPRO	Death, Protein kinase, core, Serine/threonine protein kinase, active site, Protein kinase, ATP binding site, Serine/threonine protein kinase-related,		
KEGG_PATHWAY	Apoptosis, Neurotrophin signaling pathway,		
PIR_SUPERFAMILY	PIRSF038190:interleukin-1 receptor associated kinase, IRAK-1/IRAK-2 types,		
SMART	DEATH,		
SP_PIR_KEYWORDS	alternative splicing,		
UP_SEQ_FEATURE	chain:Interleukin-1 receptor-associated kinase- like 2, domain:Death, domain:Protein kinase, sequence conflict, splice variant,		
Lrp11	low density lipoprotein receptor-related protein 11 Related Genes Mus musculus		
GOTERM_BP_FAT	endocytosis, membrane invagination, membrane organization, vesicle-mediated transport,		
GOTERM_CC_FAT	integral to membrane, intrinsic to membrane,		
INTERPRO	PKD, Low density lipoprotein-receptor, class A, cysteine-rich, Seven cysteines, N-terminal, Seven cysteines,		
SMART	PKD, LDLa, MANEC,		
SP_PIR_KEYWORDS	disulfide bond, Endocytosis, glycoprotein, membrane, receptor, signal, transmembrane,		
UP_SEQ_FEATURE	chain:Low-density lipoprotein receptor-related protein 11, disulfide bond, domain:LDL-receptor class A, domain:MANSC, domain:PKD, glycosylation site:N-linked (GlcNAc), sequence conflict, signal peptide, topological domain:Cytoplasmic, topological domain:Extracellular, transmembrane region,		
Prkrir	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor) Related Genes Mus musculus		
GOTERM_MF_FAT	DNA binding, zinc ion binding, ion binding, cation binding, metal ion binding, transition metal ion binding, protein dimerization activity,		
INTERPRO	Zinc finger, C2CH-type, HAT dimerisation,		
SMART	DM3,		
SP_PIR_KEYWORDS	dna-binding, metal-binding, zinc, zinc-finger,		

UP_SEQ_FEATURE	chain:52 kDa repressor of the inhibitor of the protein kinase, zinc finger region:THAP-type,			
Slc35b4	solute carrier family 35, member B4	Related Genes	Mus musculus	
GOTERM_BP_FAT	carbohydrate transport, transmembrane transport,			
GOTERM_CC_FAT	Golgi apparatus, integral to membrane, intrinsic to membrane,			
INTERPRO	UAA transporter,			
PIR_SUPERFAMILY	PIRSF017416:solute carrier family 35, member B type, PIRSF B4,	500841:Solute carrier fa	mily 35 member	
SP_PIR_KEYWORDS	alternative splicing, golgi apparatus, membrane, sugar transpo	alternative splicing, golgi apparatus, membrane, sugar transport, transmembrane, transport,		
UP_SEQ_FEATURE	chain:UDP-xylose and UDP-N-acetylglucosamine transporter, sequence conflict, splice variant, transmembrane region,			
Zfp101	zinc finger protein 101	Related Genes	Mus musculus	
COG_ONTOLOGY	General function prediction only,			
GOTERM_BP_FAT	transcription, regulation of transcription, DNA-dependent, regulation of transcription, regulation of RNA metabolic process,			
GOTERM_MF_FAT	zinc ion binding, ion binding, cation binding, metal ion binding, transition metal ion binding,			
INTERPRO	Krueppel-associated box, Zinc finger, C2H2-type, Zinc finger, C2H2-type/integrase, DNA-binding, Zinc finger, C2H2-like,			
SMART	KRAB, ZnF_C2H2,			
SP PIR KEYWORDS	metal-binding, nucleus, repeat, Transcription, zinc,			

Up-regulated genes pathway analysis

Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	Related Genes	Mus musculus
KEGG_PATHWAY	ABC transporters,		
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Irak2	interleukin-1 receptor-associated kinase 2	Related Genes	Mus musculus