



Functional Annotation Clustering

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Current Gene List: List_1

Current Background: Mus musculus

453 DAVID IDs

Options Classification Stringency Medium

30 Cluster(s)

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Annotation Cluster	Enrichment Score		Count	P_Value	Benjamini
Annotation Cluster 1	Enrichment Score: 4.77	G			
SP_PIR_KEYWORDS	transcription regulation	RT	72	1.2E-7	1.9E-5
SP_PIR_KEYWORDS	Transcription	RT	72	1.6E-5	1.7E-3
SP_PIR_KEYWORDS	nucleus	RT	128	5.1E-5	4.0E-3
SP_PIR_KEYWORDS	dna-binding	RT	54	9.0E-4	2.6E-2
Annotation Cluster 2	Enrichment Score: 3.31	G			
SP_PIR_KEYWORDS	isopeptide bond	RT	18	4.6E-4	2.1E-2
SP_PIR_KEYWORDS	ubl conjugation	RT	27	5.0E-4	2.0E-2
UP_SEQ_FEATURE	cross-link: Glycyl lysine isopeptide (Lys-Gly) (interchain with G-Cter in SUMO)	RT	10	5.1E-4	1.4E-1
Annotation Cluster 3	Enrichment Score: 2.17	G			
SP_PIR_KEYWORDS	nucleotide-binding	RT	64	1.5E-4	9.6E-3
SP_PIR_KEYWORDS	atp-binding	RT	51	6.8E-4	2.1E-2
SP_PIR_KEYWORDS	transferase	RT	53	1.1E-3	2.8E-2
SP_PIR_KEYWORDS	kinase	RT	28	1.4E-2	1.9E-1
UP_SEQ_FEATURE	domain:Protein kinase	RT	22	1.5E-2	6.9E-1
UP_SEQ_FEATURE	binding site:ATP	RT	24	1.8E-2	7.2E-1
UP_SEQ_FEATURE	nucleotide phosphate-binding region:ATP	RT	35	2.4E-2	7.5E-1
SP_PIR_KEYWORDS	serine/threonine-protein kinase	RT	17	2.6E-2	2.3E-1
UP_SEQ_FEATURE	active site:Proton acceptor	RT	24	1.1E-1	9.3E-1
Annotation Cluster 4	Enrichment Score: 2.05	G			
SP_PIR_KEYWORDS	golgi apparatus	RT	28	5.0E-4	1.8E-2
UP_SEQ_FEATURE	topological domain:Lumenal	RT	20	1.4E-2	7.2E-1
SP_PIR_KEYWORDS	glycosyltransferase	RT	11	2.4E-2	2.3E-1
SP_PIR_KEYWORDS	Signal-anchor	RT	17	3.9E-2	2.9E-1
Annotation Cluster 5	Enrichment Score: 2	G			
UP_SEQ_FEATURE	domain:W2	RT	5	1.6E-5	2.3E-2
SP_PIR_KEYWORDS	Initiation factor	RT	4	1.5E-1	6.0E-1
SP_PIR_KEYWORDS	protein biosynthesis	RT	5	4.4E-1	8.7E-1
Annotation Cluster 6	Enrichment Score: 1.83	G			
UP_SEQ_FEATURE	repeat:LDL-receptor class B 5	RT	5	2.0E-4	9.3E-2
UP_SEQ_FEATURE	repeat:LDL-receptor class B 1	RT	5	2.8E-4	9.8E-2
UP_SEQ_FEATURE	repeat:LDL-receptor class B 2	RT	5	2.8E-4	9.8E-2
UP_SEQ_FEATURE	repeat:LDL-receptor class B 3	RT	5	2.8E-4	9.8E-2
UP_SEQ_FEATURE	repeat:LDL-receptor class B 4	RT	5	2.8E-4	9.8E-2
UP_SEQ_FEATURE	repeat:LDL-receptor class B 6	RT	4	1.4E-3	2.5E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 10	RT	3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 14	RT	3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 13	RT	3	9.7E-3	7.0E-1

UP_SEQ_FEATURE	repeat:LDL-receptor class B 12	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 11	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 18	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 17	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 16	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 15	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 19	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 20	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 9	RT		3	9.7E-3	7.0E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 7	RT		3	1.3E-2	7.3E-1
UP_SEQ_FEATURE	repeat:LDL-receptor class B 8	RT		3	1.3E-2	7.3E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 3	RT		4	1.5E-2	7.1E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 8	RT		3	1.7E-2	7.3E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 1	RT		4	2.2E-2	7.6E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 2	RT		4	2.4E-2	7.3E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 7	RT		3	2.7E-2	7.3E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 6	RT		3	2.7E-2	7.3E-1
UP_SEQ_FEATURE	domain:EGF-like 3	RT		6	3.0E-2	7.5E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 5	RT		3	3.3E-2	7.7E-1
UP_SEQ_FEATURE	domain:EGF-like 4	RT		5	4.2E-2	8.3E-1
UP_SEQ_FEATURE	domain:LDL-receptor class A 4	RT		3	5.1E-2	8.6E-1
UP_SEQ_FEATURE	short sequence motif:Endocytosis signal	RT		3	5.1E-2	8.6E-1
UP_SEQ_FEATURE	domain:EGF-like 1	RT		7	6.1E-2	8.7E-1
UP_SEQ_FEATURE	domain:EGF-like 6	RT		4	7.3E-2	9.0E-1
SP_PIR_KEYWORDS	Endocytosis	RT		6	7.6E-2	4.2E-1
SP_PIR_KEYWORDS	egf-like domain	RT		10	9.3E-2	4.8E-1
UP_SEQ_FEATURE	domain:EGF-like 7	RT		3	1.4E-1	9.5E-1
UP_SEQ_FEATURE	domain:EGF-like 8	RT		3	1.5E-1	9.6E-1
UP_SEQ_FEATURE	domain:EGF-like 5	RT		3	2.7E-1	9.9E-1
UP_SEQ_FEATURE	domain:EGF-like 2	RT		4	3.5E-1	1.0E0
UP_SEQ_FEATURE	domain:EGF-like 2; calcium-binding	RT		3	4.0E-1	1.0E0
Annotation Cluster 7		Enrichment Score: 1.56		G		
SP_PIR_KEYWORDS	nucleotide binding	RT		6	2.0E-2	2.2E-1
SP_PIR_KEYWORDS	P-loop	RT		6	2.1E-2	2.2E-1
SP_PIR_KEYWORDS	GTP binding	RT		4	5.3E-2	3.5E-1
Annotation Cluster 8		Enrichment Score: 1.37		G		
UP_SEQ_FEATURE	calcium-binding region: 2	RT		9	8.6E-3	6.9E-1
UP_SEQ_FEATURE	calcium-binding region: 1	RT		9	1.4E-2	7.1E-1
UP_SEQ_FEATURE	domain:EF-hand 2	RT		10	2.6E-2	7.3E-1
UP_SEQ_FEATURE	domain:EF-hand 1	RT		9	6.3E-2	8.8E-1
UP_SEQ_FEATURE	domain:EF-hand 3	RT		5	1.7E-1	9.7E-1
SP_PIR_KEYWORDS	calcium	RT		23	1.8E-1	6.5E-1
Annotation Cluster 9		Enrichment Score: 1.35		G		
SP_PIR_KEYWORDS	cell division	RT		13	2.3E-2	2.3E-1
SP_PIR_KEYWORDS	cell cycle	RT		19	2.6E-2	2.2E-1
SP_PIR_KEYWORDS	mitosis	RT		8	1.5E-1	6.0E-1
Annotation Cluster 10		Enrichment Score: 1.12		G		
UP_SEQ_FEATURE	short sequence motif:DEAD box	RT		4	4.4E-2	8.3E-1
UP_SEQ_FEATURE	short sequence motif:Q motif	RT		4	5.5E-2	8.7E-1
UP_SEQ_FEATURE	domain:Helicase C-terminal	RT		6	7.7E-2	9.1E-1
UP_SEQ_FEATURE	domain:Helicase ATP-binding	RT		6	8.6E-2	9.1E-1

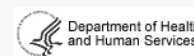
SP_PIR_KEYWORDS	helicase	RT		6	1.7E-1	6.2E-1
Annotation Cluster 11 Enrichment Score: 1.1				G		
Count	P_Value	Benjamini				
UP_SEQ_FEATURE	domain: WW 3	RT		3	1.7E-2	7.3E-1
UP_SEQ_FEATURE	domain: WW 2	RT		3	1.7E-1	9.7E-1
UP_SEQ_FEATURE	domain: WW 1	RT		3	1.7E-1	9.7E-1
Annotation Cluster 12 Enrichment Score: 0.99				G		
Count	P_Value	Benjamini				
SP_PIR_KEYWORDS	lipoprotein	RT		24	1.8E-2	2.2E-1
SP_PIR_KEYWORDS	palmitate	RT		10	6.4E-2	4.0E-1
UP_SEQ_FEATURE	lipid moiety-binding region: S-palmitoyl cysteine	RT		9	9.2E-2	9.1E-1
SP_PIR_KEYWORDS	transducer	RT		9	1.0E0	1.0E0
Annotation Cluster 13 Enrichment Score: 0.92				G		
Count	P_Value	Benjamini				
UP_SEQ_FEATURE	domain: IQ 3	RT		3	5.8E-2	8.8E-1
UP_SEQ_FEATURE	domain: IQ 2	RT		3	1.7E-1	9.7E-1
UP_SEQ_FEATURE	domain: IQ 1	RT		3	1.8E-1	9.7E-1
Annotation Cluster 14 Enrichment Score: 0.89				G		
Count	P_Value	Benjamini				
UP_SEQ_FEATURE	metal ion-binding site: Calcium 2; via carbonyl oxygen	RT		4	7.3E-2	9.0E-1
UP_SEQ_FEATURE	metal ion-binding site: Calcium 3; via carbonyl oxygen	RT		3	1.0E-1	9.3E-1
UP_SEQ_FEATURE	metal ion-binding site: Calcium 2	RT		4	1.8E-1	9.7E-1
UP_SEQ_FEATURE	metal ion-binding site: Calcium 3	RT		3	2.0E-1	9.8E-1
Annotation Cluster 15 Enrichment Score: 0.63				G		
Count	P_Value	Benjamini				
UP_SEQ_FEATURE	zinc finger region: C2H2-type 7; atypical	RT		3	2.0E-3	3.1E-1
UP_SEQ_FEATURE	zinc finger region: C2H2-type 3	RT		11	1.3E-1	9.5E-1
UP_SEQ_FEATURE	zinc finger region: C2H2-type 1	RT		11	1.3E-1	9.5E-1
UP_SEQ_FEATURE	zinc finger region: C2H2-type 2	RT		11	1.5E-1	9.6E-1
UP_SEQ_FEATURE	zinc finger region: C2H2-type 6	RT		6	3.7E-1	1.0E0
UP_SEQ_FEATURE	zinc finger region: C2H2-type 5	RT		7	3.7E-1	1.0E0
UP_SEQ_FEATURE	zinc finger region: C2H2-type 4	RT		7	4.6E-1	1.0E0
UP_SEQ_FEATURE	zinc finger region: C2H2-type 10	RT		3	6.9E-1	1.0E0
UP_SEQ_FEATURE	zinc finger region: C2H2-type 9	RT		3	7.4E-1	1.0E0
UP_SEQ_FEATURE	zinc finger region: C2H2-type 8	RT		3	8.2E-1	1.0E0
UP_SEQ_FEATURE	zinc finger region: C2H2-type 7	RT		3	8.5E-1	1.0E0
Annotation Cluster 16 Enrichment Score: 0.62				G		
Count	P_Value	Benjamini				
UP_SEQ_FEATURE	repeat: ANK 9	RT		4	6.0E-2	8.8E-1
UP_SEQ_FEATURE	repeat: ANK 8	RT		4	8.3E-2	9.1E-1
UP_SEQ_FEATURE	repeat: ANK 10	RT		3	1.3E-1	9.5E-1
UP_SEQ_FEATURE	repeat: ANK 7	RT		4	1.6E-1	9.7E-1
SP_PIR_KEYWORDS	ank repeat	RT		8	3.0E-1	7.7E-1
UP_SEQ_FEATURE	repeat: ANK 6	RT		4	3.4E-1	1.0E0
UP_SEQ_FEATURE	repeat: ANK 1	RT		7	3.9E-1	1.0E0
UP_SEQ_FEATURE	repeat: ANK 2	RT		7	3.9E-1	1.0E0
UP_SEQ_FEATURE	repeat: ANK 3	RT		6	4.1E-1	1.0E0
UP_SEQ_FEATURE	repeat: ANK 4	RT		5	4.3E-1	1.0E0
UP_SEQ_FEATURE	repeat: ANK 5	RT		4	5.4E-1	1.0E0
Annotation Cluster 17 Enrichment Score: 0.57				G		
Count	P_Value	Benjamini				
UP_SEQ_FEATURE	region of interest: Actin-binding	RT		3	1.3E-1	9.5E-1
UP_SEQ_FEATURE	domain: Myosin head-like	RT		3	1.8E-1	9.7E-1
SP_PIR_KEYWORDS	calmodulin-binding	RT		5	2.4E-1	7.2E-1
SP_PIR_KEYWORDS	myosin	RT		3	3.2E-1	7.9E-1
SP_PIR_KEYWORDS	motor protein	RT		3	8.0E-1	9.8E-1
Annotation Cluster 18 Enrichment Score: 0.54				G		
Count	P_Value	Benjamini				
SP_PIR_KEYWORDS	tyrosine-protein kinase	RT		6	1.5E-1	6.0E-1

UP_SEQ_FEATURE	domain:Fibronectin type-III 2	RT		5	3.9E-1	1.0E0
UP_SEQ_FEATURE	domain:Fibronectin type-III 1	RT		5	4.0E-1	1.0E0
Annotation Cluster 19 Enrichment Score: 0.51 G				Count	P_Value	Benjamini
UP_SEQ_FEATURE	repeat:WD 13	RT		3	8.8E-2	9.1E-1
UP_SEQ_FEATURE	repeat:WD 12	RT		3	1.0E-1	9.3E-1
UP_SEQ_FEATURE	repeat:WD 8	RT		4	1.3E-1	9.5E-1
UP_SEQ_FEATURE	repeat:WD 11	RT		3	1.6E-1	9.6E-1
UP_SEQ_FEATURE	repeat:WD 10	RT		3	1.6E-1	9.6E-1
UP_SEQ_FEATURE	repeat:WD 9	RT		3	2.3E-1	9.9E-1
UP_SEQ_FEATURE	repeat:WD 7	RT		6	2.3E-1	9.9E-1
UP_SEQ_FEATURE	repeat:WD 6	RT		6	4.2E-1	1.0E0
UP_SEQ_FEATURE	repeat:WD 5	RT		6	6.2E-1	1.0E0
SP_PIR_KEYWORDS	wd repeat	RT		7	6.2E-1	9.4E-1
UP_SEQ_FEATURE	repeat:WD 4	RT		6	6.8E-1	1.0E0
UP_SEQ_FEATURE	repeat:WD 3	RT		6	7.3E-1	1.0E0
UP_SEQ_FEATURE	repeat:WD 1	RT		6	7.5E-1	1.0E0
UP_SEQ_FEATURE	repeat:WD 2	RT		6	7.5E-1	1.0E0
Annotation Cluster 20 Enrichment Score: 0.47 G				Count	P_Value	Benjamini
SP_PIR_KEYWORDS	voltage-gated channel	RT		6	2.3E-1	7.2E-1
SP_PIR_KEYWORDS	potassium channel	RT		4	2.4E-1	7.2E-1
SP_PIR_KEYWORDS	potassium transport	RT		5	2.6E-1	7.5E-1
SP_PIR_KEYWORDS	potassium	RT		5	3.2E-1	7.9E-1
SP_PIR_KEYWORDS	ion transport	RT		14	5.6E-1	9.2E-1
SP_PIR_KEYWORDS	ionic channel	RT		8	6.0E-1	9.3E-1
Annotation Cluster 21 Enrichment Score: 0.43 G				Count	P_Value	Benjamini
SP_PIR_KEYWORDS	zinc-finger	RT		35	2.0E-1	6.8E-1
SP_PIR_KEYWORDS	metal-binding	RT		68	4.2E-1	8.6E-1
SP_PIR_KEYWORDS	zinc	RT		46	5.8E-1	9.3E-1
Annotation Cluster 22 Enrichment Score: 0.42 G				Count	P_Value	Benjamini
UP_SEQ_FEATURE	domain:BACK	RT		3	1.6E-1	9.6E-1
UP_SEQ_FEATURE	domain:BTB	RT		5	3.5E-1	1.0E0
UP_SEQ_FEATURE	repeat:Kelch 5	RT		3	4.0E-1	1.0E0
UP_SEQ_FEATURE	repeat:Kelch 4	RT		3	4.3E-1	1.0E0
UP_SEQ_FEATURE	repeat:Kelch 3	RT		3	4.5E-1	1.0E0
UP_SEQ_FEATURE	repeat:Kelch 2	RT		3	4.5E-1	1.0E0
UP_SEQ_FEATURE	repeat:Kelch 1	RT		3	4.5E-1	1.0E0
SP_PIR_KEYWORDS	kelch repeat	RT		3	4.9E-1	9.0E-1
Annotation Cluster 23 Enrichment Score: 0.38 G				Count	P_Value	Benjamini
UP_SEQ_FEATURE	lipid moiety-binding region:GPI-anchor amidated serine	RT		4	1.8E-1	9.7E-1
SP_PIR_KEYWORDS	gpi-anchor	RT		4	5.8E-1	9.3E-1
UP_SEQ_FEATURE	propeptide:Removed in mature form	RT		6	6.9E-1	1.0E0
Annotation Cluster 24 Enrichment Score: 0.36 G				Count	P_Value	Benjamini
SP_PIR_KEYWORDS	protein phosphatase	RT		5	3.3E-1	8.0E-1
UP_SEQ_FEATURE	domain:Tyrosine-protein phosphatase	RT		3	4.2E-1	1.0E0
UP_SEQ_FEATURE	active site:Phosphocysteine intermediate	RT		3	5.9E-1	1.0E0
Annotation Cluster 25 Enrichment Score: 0.34 G				Count	P_Value	Benjamini
SP_PIR_KEYWORDS	glycoprotein	RT		96	2.0E-1	6.8E-1
SP_PIR_KEYWORDS	disulfide bond	RT		63	4.1E-1	8.5E-1
SP_PIR_KEYWORDS	signal	RT		75	4.3E-1	8.7E-1
SP_PIR_KEYWORDS	Secreted	RT		36	5.1E-1	9.0E-1
UP_SEQ_FEATURE	glycosylation site:N-linked (GlcNac...)	RT		91	5.5E-1	1.0E0
UP_SEQ_FEATURE	disulfide bond	RT		62	6.1E-1	1.0E0

UP_SEQ_FEATURE	signal peptide	RT		75	7.2E-1	1.0E0
Annotation Cluster 26 Enrichment Score: 0.33				G		
UP_SEQ_FEATURE	domain: Ig-like C2-type 1	RT		5	4.5E-1	1.0E0
UP_SEQ_FEATURE	domain: Ig-like C2-type 2	RT		5	4.5E-1	1.0E0
SP_PIR_KEYWORDS	Immunoglobulin domain	RT		12	5.0E-1	9.0E-1
Annotation Cluster 27 Enrichment Score: 0.19				G		
SP_PIR_KEYWORDS	glycoprotein	RT		96	2.0E-1	6.8E-1
UP_SEQ_FEATURE	glycosylation site: N-linked (GlcNAc...)	RT		91	5.5E-1	1.0E0
SP_PIR_KEYWORDS	membrane	RT		134	5.5E-1	9.2E-1
UP_SEQ_FEATURE	topological domain: Cytoplasmic	RT		67	8.4E-1	1.0E0
UP_SEQ_FEATURE	topological domain: Extracellular	RT		42	9.9E-1	1.0E0
UP_SEQ_FEATURE	transmembrane region	RT		88	9.9E-1	1.0E0
SP_PIR_KEYWORDS	transmembrane	RT		91	1.0E0	1.0E0
Annotation Cluster 28 Enrichment Score: 0.18				G		
UP_SEQ_FEATURE	repeat: LRR 11	RT		4	4.1E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 10	RT		4	5.1E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 13	RT		3	5.1E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 12	RT		3	6.2E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 5	RT		6	6.2E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 9	RT		4	6.3E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 8	RT		4	6.8E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 4	RT		6	7.0E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 6	RT		5	7.2E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 3	RT		6	7.8E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 7	RT		4	7.9E-1	1.0E0
SP_PIR_KEYWORDS	leucine-rich repeat	RT		6	8.0E-1	9.8E-1
UP_SEQ_FEATURE	repeat: LRR 1	RT		6	8.3E-1	1.0E0
UP_SEQ_FEATURE	repeat: LRR 2	RT		6	8.3E-1	1.0E0
Annotation Cluster 29 Enrichment Score: 0.07				G		
UP_SEQ_FEATURE	repeat: TPR 1	RT		3	8.6E-1	1.0E0
UP_SEQ_FEATURE	repeat: TPR 2	RT		3	8.6E-1	1.0E0
SP_PIR_KEYWORDS	tpr repeat	RT		3	8.6E-1	9.9E-1
Annotation Cluster 30 Enrichment Score: 0.01				G		
SP_PIR_KEYWORDS	transit peptide	RT		7	9.7E-1	1.0E0
UP_SEQ_FEATURE	transit peptide: Mitochondrion	RT		7	9.8E-1	1.0E0
SP_PIR_KEYWORDS	mitochondrion	RT		11	9.9E-1	1.0E0

were not clustered.

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