

Protein interaction analysis for secretogogin in hypothalamus

Experiment: Rat_combined_merged.modf

Database Set: 1 Database

Taxonomy: Rattus

Number of Proteins: 84545

Search Engine: Mascot

Version: 2.5.0
 Samples: All Samples
 Fragment Tolerance: 0.100 Da (Monoisotopic)
 Parent Tolerance: 0.050 Da (Monoisotopic)
 Fixed Modifications: +18 on O (+18), +57 on C (Carbamidomethyl)
 Variable Modifications: +1 on KQ (diaminodipropylamine), +6 on M (oxidation)
 Database: the NCBI nr_20140824 database (selected for Rattus, unknown version, 84045 entries)
 Digestion Enzyme: Trypsin
 Max Missed Cleavages: 2
 Probability Model:

mascot_dbamon_merge (F06258): Peptide Prophet [+2 and below,+3,+4,+5,+6 and above]
 mascot_dbamon_merge (F06259): Peptide Prophet [+2 and below,+3,+4,+5,+6 and above]
 mascot_dbamon_merge (F06260): Peptide Prophet [+2 and below,+3,+4,+5,+6 and above]

Scalfold: Version: Scaffold_4.3.4

Protein Grouping Strategy: Experiment wide grouping with binary peptide protein weights

Peptide Thresholds: 50.0% minimum

Protein Thresholds: 99.0% minimum and 2 peptides minimum

Peptide FDR: 0.0% (Decoy)

Protein FDR: 0.0% (Decoy)

GO Annotation Source(s): UnKnown



Color coding of functional groups corresponds to the one used in Fig. S1.

#	Identified Proteins	Accession Number	Molecular Weight	Exclusive Unique Peptide Count			Protein score for a-SCON IP, 10 uM Ca2+	Presumed or known protein function
				a-SCON IP, Ca2+-free	a-SCON IP, 10 uM Ca2+	a-non-target IgG, 10 uM Ca2+		
1	SECRETAGOGIN	gP72261799	32 kDa	9	11	-	528	
2	synaptic vesicle membrane protein VAMP1 homolog [Rattus norvegicus]	gP18383038	43 kDa	-	4	-	222	Integral membrane protein of cholinergic synaptic vesicles thought to be involved in vesicular transport
3	CCR4-NOT transcription complex subunit 1 [Rattus norvegicus]	gP19836347 (+1)	267 kDa	13	6	-	114	Scalloping component of the CCR4-NOT complex, one of the major cellular mRNA deadenylases. Linked to repression during translational initiation and general transcription regulation.
4	26S proteasome non-ATPase regulatory subunit 2 [Rattus norvegicus]	gP7225509	100 kDa	-	5	-	231	The multisubunit 26S proteasome recognizes, unfolds, and degrades polyubiquitinated substrates into small peptides.
5	ras-related protein Rab-1A isoform 1 [Rattus norvegicus]	gP4758988	23 kDa	-	5	-	222	Regulates vesicular protein transport from the endoplasmic reticulum (ER) to the Golgi compartment and onto the cell surface.
6	cell differentiation protein RCD1 homolog	gP11049722	34 kDa	3	5	-	199	Component of the CCR4-NOT complex and is linked to repression during translational initiation and general transcription regulation.
7	EVX1 [Rattus norvegicus]	gP10302365	90 kDa	-	5	-	196	Molecular chaperone that functions in the processing and transport of secreted proteins.
8	NSFL1 cofactor p47 [Rattus norvegicus]	gP14019837 (+1)	41 kDa	-	5	-	196	Necessary for the fragmentation of Golgi stacks during mitosis and for VCP-mediated reassembly of Golgi stacks after mitosis.
9	rho GDP-dissociation inhibitor 1	gP13180300	23 kDa	-	5	-	174	Controls Rho proteins homeostasis. Regulates the GDP/GTP exchange reaction of the Rho protein by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them.
10	phosphoglycolate kinase 1	gP11420546 (+1)	23 kDa	-	5	-	157	Enzyme.
11	ras-related protein Rab-7a [Rattus norvegicus]	gP13527192 (+2)	24 kDa	-	5	-	144	Key regulator in endo-lysosomal trafficking. Governs early-to-late endosomal maturation, microtubule minus-end as well as plus-end directed endosome migration and positioning, and endosome-lysosome transport, and axonal transport.
12	peroxiredoxin-4 [Rattus norvegicus]	gP16758348	25 kDa	-	5	-	122	Involved in redox regulation of the cell and likely in the regulation of phospholipid turnover.
13	EF-hand domain-containing protein D2 [Rattus norvegicus]	gP7225531	27 kDa	-	5	-	121	A negative regulator of the canonical NF-kappa-B-activating branch.
14	NDRG1 related protein NDRG2b2 [Rattus norvegicus]	gP1797872 (+3)	39 kDa	-	4	-	175	Early neurotrophic factor-specific induced gene. Contributes to the regulation of the Wnt signaling pathway.
15	lysine-associated protein [Rattus norvegicus]	gP10174 (+1)	52 kDa	-	4	-	169	Diversity regulates filament dynamics and has been implicated in morphological processes.
16	alpha-synuclein [Rattus norvegicus]	gP5597125 (+1)	15 kDa	-	4	-	120	May be involved in the regulation of dopamine release and transport.
17	Ca2+-dependent secretin activator, isoform CRA_a [Rattus norvegicus]	gP14904049 (+1)	153 kDa	-	4	-	112	Calcium-binding protein involved in exocytosis of neurotransmitter-peptide-laden vesicles.
18	calreticulin precursor [Rattus norvegicus]	gP11989176	48 kDa	-	4	-	112	Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the ER. Interacts with the DNA-binding domain of the glucocorticoid receptor and prevents from binding to its specific glucocorticoid response elements.
19	lecithin 2 [Rattus norvegicus]	gP17800205	110 kDa	-	4	-	105	Mediates importin-alpha export from the nucleus to the cytoplasm after import substrates (cargo) have been released into the nucleoplasm.
20	pyridoxal kinase [Rattus norvegicus]	gP13392082 (+1)	35 kDa	-	4	-	97	Required for the synthesis of pyridoxal-5-phosphate from vitamin B6.
21	myosin-10 [Rattus norvegicus]	gP1332970 (+3)	229 kDa	-	4	-	94	Binds to actin filaments and actin bundles and functions as plus-end-directed motor. May play a role in neurite outgrowth and axon guidance.
22	26S proteasome non-ATPase regulatory subunit 8 [Rattus norvegicus]	gP16442026	49 kDa	-	4	-	94	The multisubunit 26S proteasome recognizes, unfolds, and degrades polyubiquitinated substrates into small peptides.
23	guanine nucleotide-binding protein (Gq) subunit alpha [Rattus norvegicus]	gP13591957 (+1)	42 kDa	-	4	-	90	The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta.
24	connexin45 and adenosine receptor homolog precursor [Rattus norvegicus]	gP56981616 (+3)	39 kDa	-	4	-	88	Component of the epithelial apical junction complex that may function as a hemophilic cell adhesion molecule and is essential for tight junction integrity.
25	dihydropyridine reductase [Rattus norvegicus]	gP111693160 (+2)	26 kDa	-	3	-	290	Catalyzes the NADH-mediated reduction of quinoid dihydrobiopterin.
26	ras-related protein Rab-5B [Rattus norvegicus]	gP121583768	24 kDa	-	3	-	146	Probably involved in vesicular traffic.
27	protein FAM59B	gP21450023 (+1)	37 kDa	-	3	-	141	Function at present is unclear.
28	omega-amidase NT2 [Rattus norvegicus]	gP77628000	31 kDa	-	3	-	132	A role in anti-toxicity has been implied.
29	glutathione-S-transferase [Rattus norvegicus]	gP78187979 (+1)	38 kDa	0	3	-	128	Glutathione S-transferases are oxidoreductase enzymes that reduce a variety of substrates using glutathione as a cofactor.
30	dual specificity mitogen-activated protein kinase kinase 4	gP22090221 (+1)	44 kDa	-	3	-	127	Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway.
31	Vps35 protein [Rattus norvegicus]	gP197246879 (+1)	72 kDa	-	3	-	124	A component of a large multimeric complex, termed the retromer complex, involved in retrograde transport of proteins from endosomes to the trans-Golgi network.
32	WD repeat protein 1 [Rattus norvegicus]	gP144004324 (+1)	66 kDa	-	3	-	124	Induces disassembly of actin filaments in conjunction with ADF/cofilin family proteins.
33	beta(1)-microglobulin related membrane protein 2 [Rattus norvegicus]	gP51549528	41 kDa	-	3	-	115	Catalyzes the co-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerates protein folding.
34	alpha-synuclein NSF attachment protein [Rattus norvegicus]	gP18034791	33 kDa	-	3	-	112	Plays a role in the completion of membrane fusion by mediating the interaction of N-ethylmaleimide-sensitive factor (NSF) with the vesicle-associated and membrane-associated SNAP receptor (SNARE) complex, stimulating the ATPase activity of NSF.
35	intral glutamine-rich transmembrane repeat-containing protein alpha [Rattus norvegicus]	gP12083967 (+3)	34 kDa	-	3	-	108	Co-chaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity.
36	ras-related protein Rab-5a isoform 2	gP13199274 (+1)	24 kDa	-	3	-	101	Located at the Golgi apparatus, regulates trafficking in both retrograde and anterograde directions.
37	adrenoleukine 1, isoform CRA_c [Rattus norvegicus]	gP14903004 (+1)	23 kDa	-	3	-	101	Catalyzes the reversible transfer of the serine phosphoryl group between ATP and AMP.
38	Chan A, Nier Solution Structure Of Ca2+-Loaded Cabindin D2bK	gP111059202 (+2)	30 kDa	-	3	-	99	Calcium-binding protein.
39	PREDICTED: biliverdin reductase A isoform X1 [Rattus norvegicus]	gP56434205	7	-	3	-	93	Reduces the gamma-methane bridge of the open tetrapyrrole, biliverdin IX alpha, to bilibavin with the concomitant oxidation of a NADH or NADPH cofactor.
40	inositolase [Rattus norvegicus]	gP13018252 (+3)	71 kDa	-	3	-	92	Enzyme.
41	phosphoserine aminotransferase [Rattus norvegicus]	gP149062533 (+2)	41 kDa	-	3	-	91	A phosphoserine aminotransferase whose decreased expression may be associated with schizophrenia.
42	CCR4-NOT transcription complex subunit 7	gP7875126	33 kDa	4	3	-	85	Catalytic component of the CCR4-NOT complex.
43	RAP1, GTP-GDP dissociation stimulator 1 [precursor], isoform CRA_a [Rattus norvegicus]	gP14802806 (+1)	58 kDa	-	3	-	85	Stimulates GDI/GTP exchange reaction of a group of small GTP-binding proteins. Neurite outgrowth.
44	purine nucleoside phosphorylase [Rattus norvegicus]	gP564395910	24 kDa	-	3	-	84	Purine nucleoside phosphorylase.
45	transmembrane protein TMEM103 [Rattus norvegicus]	gP1360136 (+1)	23 kDa	-	3	-	80	This type I membrane protein is localized at the plasma membrane and Golgi ciscomae and is involved in vesicular protein trafficking.
46	26S proteasome non-ATPase regulatory subunit 13 [Rattus norvegicus]	gP157621581	43 kDa	-	3	-	71	The multisubunit 26S proteasome recognizes, unfolds, and degrades polyubiquitinated substrates into small peptides.
47	PHF-13, C-domain-containing protein 3 [Rattus norvegicus]	gP107818623	38 kDa	-	3	-	71	Excites phosphoric diester (phosphodiester) activity and signal transducer activity.
48	kleisanin-1 heavy chain [Rattus norvegicus]	gP149030557 (+1)	110 kDa	-	2	-	131	Microtubule-dependent motor required for slow axonal transport of neurofilament proteins.
49	phosphatidylinositol transfer protein alpha isoform 2 [Rattus norvegicus]	gP3839362	32 kDa	-	2	-	127	Catalyzes the transfer of PtdIns and phosphatidylocholine between membranes. Phospholipase C signaling.
50	Plasma membrane calcium-transporting ATPase 2	gP1428610 (+1)	127 kDa	-	2	-	125	Plasma membrane calcium-transporting ATPase.
51	beta-tubulin 3 [Rattus norvegicus]	gP140555940 (+3)	110 kDa	-	2	-	123	May regulate the disassembly of focal adhesions.
52	hydroxymethylglutaryl-CoA synthase, cytoplasmic [Rattus norvegicus]	gP149059420 (+1)	61 kDa	-	2	-	118	Calcium-transporting ATPase.
53	nuclear migration protein nucl [Rattus norvegicus]	gP384272 (+1)	38 kDa	-	2	-	110	Plays a role in neurogenesis and neuronal migration.
54	gamma-tubulin NSF attachment protein [Rattus norvegicus]	gP14804444 (+2)	34 kDa	-	2	-	109	Required for vesicular transport between the endoplasmic reticulum and the Golgi apparatus.
55	Evx1b1, C/EBP1 homolog (variant) isoform CRA_b [Rattus norvegicus]	gP14044800 (+1)	114 kDa	-	2	-	108	Mediates the nuclear export of cellular proteins (cargo) bearing a leucine-rich nuclear export signal (NES) and of RNAs.
56	Cytosolic 10-formyltetrahydrofolate dehydrogenase [Rattus norvegicus]	gP380866476	99 kDa	1	2	-	107	Enzyme.
57	glyoxal-3-phosphoglycolate dehydrogenase 1-like protein [Rattus norvegicus]	gP300798467	38 kDa	-	2	-	106	Enzyme.
58	inositolase [Rattus norvegicus]	gP13002024 (+3)	27 kDa	-	2	-	104	Enzyme.
59	protein phosphatase 1, regulatory (inhibitor) subunit 7 [Rattus norvegicus]	gP149037520 (+2)	37 kDa	-	2	-	103	Regulatory subunit of protein phosphatase 1.
60	transforming protein RhoA precursor [Rattus norvegicus]	gP11602961 (+1)	22 kDa	-	2	-	102	Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers.
61	CDK9 [Rattus norvegicus]	gP13194518 (+1)	48 kDa	-	2	-	99	Control over ubiquitin-proteasome-mediated protein degradation.
62	ataxin-10 [Rattus norvegicus]	gP25742874	54 kDa	-	2	-	92	Necessary for the survival of e.g. cerebellar neurons.
63	system 7, isoform CRA_b [Rattus norvegicus]	gP149020911 (+2)	25 kDa	-	2	-	92	May be involved in protein trafficking from the plasma membrane to the early endosome, as well as in homotypic fusion of endocytic organelles.
64	PREDICTED: LOW QUALITY PROTEIN: anti-binding protein 3, partial [Rattus norvegicus]	gP149042681 (+1)	69 kDa	1	2	-	90	May act as an adapter protein to couple membrane receptors to intracellular signaling pathways. May be involved in signaling of ITGB2/LFA-1 and other integrins.
65	isocholate sensitive dehydrogenase, partial [Rattus norvegicus]	gP556396	52 kDa	-	2	-	86	Enzyme.
66	synaptophysin [Rattus norvegicus]	gP56823 (+1)	52 kDa	-	2	-	87	Probably involved in structural functions as organizing other membrane components or in targeting vesicles to the plasma membrane.
67	CCR4-NOT transcription complex, subunit 3 [Rattus norvegicus]	gP29345478	82 kDa	3	2	-	86	Component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases.
68	lumen protein Dc2 [Rattus norvegicus]	gP17829284 (+8)	24 kDa	-	2	-	86	A novel molecular marker in ovarian cancer, enables calcium-binding activity.
69	ubiquitin polymerization-promoting protein family member 3 [Rattus norvegicus]	gP5726937	19 kDa	-	2	-	85	Binds tubulin and has microtubule bundling activity.
70	prostaglandin-E synthase 3	gP790017 (+1)	19 kDa	-	2	-	84	Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes.
71	glyoxalase I isoform 1 [Rattus norvegicus]	gP13502025 (+1)	44 kDa	-	2	-	84	Enzyme.
72	ras-related protein Rab-5A [Rattus norvegicus]	gP1298346 (+1)	24 kDa	-	2	-	83	Required for the fusion of the plasma membrane and early endosomes.
73	phosphoglycolate phosphatase [Rattus norvegicus]	gP281332119	35 kDa	-	2	-	83	Has high phosphatase activity toward ADP, ATP, GDP, GTP and p-nitrophenylphosphate.
74	isocholate dehydrogenase [NADP] cytoplasmic [Rattus norvegicus]	gP13528600	47 kDa	-	2	-	82	Enzyme.

75	ras-related protein Rab-5C [Rattus norvegicus]	g034780697	23 kDa	-	2	-	82	Protein transport. Probably involved in vesicular traffic.
76	protein kinase cAMP-dependent, regulatory, type 2, alpha [Rattus norvegicus]	g114818505 (+3)	45 kDa	-	2	-	80	The regulatory subunit of protein kinase A.
77	beta (Hsp90) homolog subfamily B member [Rattus norvegicus]	g165434667	7	-	2	-	80	Interacts with HSP70 and can stimulate its ATPase activity.
78	secamin-1 [Rattus norvegicus]	g16163665	46 kDa	-	2	-	79	Regulates eicosynolysis in mast cells.
79	Vdac1 protein, partial [Rattus norvegicus]	g13851979 (+3)	32 kDa	-	2	-	79	A voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane.
80	protein phosphatase 5A [Rattus norvegicus]	g16354072 (+2)	42 kDa	-	2	-	78	protein phosphatase.
81	NmIIA-like family domain-containing protein 1	g1224493153 (+2)	17 kDa	-	2	-	78	Redox sensor protein.
82	COPI9 ubiquitin-proteasome complex subunit 3 [Rattus norvegicus]	g151948372	48 kDa	-	2	-	78	Controls ubiquitin-proteasome-mediated protein degradation.
83	D-3-hydroxyglutamate dehydrogenase [Rattus norvegicus]	g113526850	56 kDa	0	2	-	77	Is involved in the early steps of L-carnitine synthesis in animal cells.
84	ADP-ribosylation factor-like protein 3 [Rattus norvegicus]	g112083661 (+1)	20 kDa	-	2	-	77	Required for normal cytokinesis and cell signaling.
85	Cathepsin D	g1115720 (+1)	45 kDa	-	2	-	76	Acid protease active in intracellular protein breakdown.
86	alpha actinin [Rattus norvegicus]	g11142940 (+10)	103 kDa	-	2	-	76	Factin cross-linking protein thought to anchor actin to a variety of intracellular structures.
87	26S proteasome non-ATPase regulatory subunit 1 [Rattus norvegicus]	g114018079 (+1)	103 kDa	-	2	-	75	The multisubunit 26S proteasome recognizes, unfolds, and degrades polyubiquitinated substrates into small peptides.
88	N-alpha-acetyltransferase 25, Naflin auxiliary subunit [Rattus norvegicus]	g1114146788 (+2)	111 kDa	-	2	-	75	Non-catalytic subunit of the Naflin complex which catalyzes acetylation of the N-terminal methionine residues of peptides beginning with Met-Asp-Glu. May play a role in normal cell-cycle progression.
89	UMP-CMP kinase [Rattus norvegicus]	g115038503 (+1)	22 kDa	-	2	-	73	Plays an important role in de novo pyrimidine nucleotide biosynthesis.
90	protein FAM88B [Rattus norvegicus]	g111025541 (+2)	145 kDa	-	2	-	72	Isoform 2 plays a role in promoting myogenic cell differentiation, cytoskeletal rearrangement and filopodia formation.
91	N-acetylglucosaminic acid synthase (sialic acid synthase) (predicted), isoform CRA_b [Rattus norvegicus]	g1149045843 (+1)	32 kDa	-	2	-	71	Enzyme.
92	26S proteasome regulatory subunit 6A [Rattus norvegicus]	g113028808 (+4)	50 kDa	-	2	-	71	The multisubunit 26S proteasome recognizes, unfolds, and degrades polyubiquitinated substrates into small peptides.
93	Hsp90aa 2b-regulated protein 1	g110720774 (+2)	111 kDa	-	2	-	70	Has a pivotal role in cytoprotective cellular mechanisms triggered by oxygen deprivation. May be a molecular chaperone.
94	Inositol protein-1-phosphatase-related protein 29 [Rattus norvegicus]	g1157785944 (+1)	20 kDa	-	2	-	69	Essential component of the retromer complex, required to retrieve lysosomal enzyme receptors (GFP28 and M6P70) from endosomes to the trans-Golgi network.
95	glyoxalase domain-containing protein 4 [Rattus norvegicus]	g1149053439 (+1)	27 kDa	-	2	-	67	Function has yet to be defined.
96	prefoldin subunit 4 like isoform 1 [Rattus norvegicus]	g114842757 (+1)	15 kDa	-	2	-	66	The encoded protein is one of six subunits of prefoldin, a molecular chaperone complex that binds and stabilizes newly synthesized polypeptide.
97	vinorelbine [Rattus norvegicus]	g114389209 (+1)	54 kDa	5	2	-	64	Vinorelbine are class III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vinorelbine is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally.
98	complement C3 precursor [Rattus norvegicus]	g1158138561	186 kDa	1	2	-	63	Plays a central role in the activation of the complement system.
99	aminopeptidase purpurin sensitive [Rattus norvegicus]	g1149054035 (+1)	93 kDa	-	2	-	63	Aminopeptidase with broad substrate specificity for several peptides. Involved in proteolytic events essential for cell growth and viability.
100	serine/threonine-protein phosphatase 2A, 55 kDa regulatory subunit epsilon isoform [Rattus norvegicus]	g1157618441 (+3)	50 kDa	-	2	-	62	Is one of the four major Ser/Thr phosphatases, implicated in the negative control of cell growth and division. The B regulatory subunit might modulate substrate selectivity and catalytic activity.
101	quinone oxidoreductase-like protein 1 [Rattus norvegicus]	g161556783 (+1)	39 kDa	0	2	-	60	A protein that has sequence similarity to zeta crystallin, also known as quinone oxidoreductase.
102	vesicular inhibitory amino acid transporter [Rattus norvegicus]	g113929106 (+1)	57 kDa	-	2	-	60	Involved in the uptake of GABA and glycine into the synaptic vesicles.
103	Glutamate decarboxylase (GAD1)	g1227913 (+2)	66 kDa	-	2	-	60	An enzyme encoded responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid.
104	serotransferrin precursor [Rattus norvegicus]	g161556686	78 kDa	-	2	-	59	It is responsible for the transport of iron from sites of absorption and bone degradation to those of storage and utilization.
105	brain and heart protein NDRG4-81 [Rattus norvegicus]	g137788067 (+11)	42 kDa	-	2	-	57	Contributes to the maintenance of intracellular BDNF levels within the normal range.
106	hippocalin-like protein 4 [Rattus norvegicus]	g163833961	22 kDa	-	2	-	57	May be involved in the calcium-dependent regulation of rhotocaps phosphorylation.
107	inositol polyphosphate 1-phosphatase [Rattus norvegicus]	g163846532 (+1)	43 kDa	-	2	-	57	One of the enzymes involved in phosphatidylinositol signaling pathways since it removes the phosphate group at position 1 of the inositol ring from the polyphosphates inositol 1,4-bisphosphate and inositol 1,3,4-trisphosphatase.
108	General vesicular transport factor p115	g11171952 (+1)	107 kDa	-	2	-	56	General vesicular transport factor required for intercompartmental transport in the Golgi stack; it is required for transcytotic fusion and/or subsequent binding of the vesicles to the target membrane.
109	alcohol dehydrogenase [NADPH] [Rattus norvegicus]	g113091894	37 kDa	-	2	-	55	Alcohol dehydrogenase, enzyme.
110	beta-oxalacetate decarboxylase [Rattus norvegicus]	g116056705	47 kDa	-	2	-	53	A bifunctional enzyme containing phosphoribosylaminoimidazole succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis.
111	Parkinson disease 7 domain-containing 1 [Rattus norvegicus]	g1149051618 (+1)	22 kDa	-	2	-	53	Diseases associated with PDDC7 include Parkinson's disease.
112	NG2LNG1-dimethylarginine dimethylaminohydrolase 1 [Rattus norvegicus]	g111560131	31 kDa	-	2	-	50	Regulation of nitric oxide generation.
113	coatamer subunit delta [Rattus norvegicus]	g165030634	57 kDa	-	2	-	49	A cytosolic protein complex that binds to lysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles.