

enriched genes DMI07

Entrez	Symbols	Name	TermID	TermDesc
305291	RGD1308828,S5AR 3,Srd5a3	steroid 5 alpha-reductase 3	GO:0003865	3-oxo-5-alpha-steroid 4-dehydrogenase activity
361191	Nsun2,RGD1311954	NOL1/NOP2/Sun domain family, member 2	GO:0003865	3-oxo-5-alpha-steroid 4-dehydrogenase activity
312373	Nt5c3	5'-nucleotidase, cytosolic III	GO:0008253	5'-nucleotidase activity
58813	MGC112615,Nt5,Nt5e	5' nucleotidase, ecto	GO:0008253	5'-nucleotidase activity
296259	Acas2l,Acass1	acyl-CoA synthetase short-chain family member 1	GO:0019413	acetate biosynthetic process
311569	Acas2,Acass2	acyl-CoA synthetase short-chain family member 2	GO:0019413	acetate biosynthetic process
289881	Dr1	down-regulator of transcription 1	GO:0005671	Ada2/Gcn5/Ada3 transcription activator complex
313121	Map3k7,Tak1	mitogen activated protein kinase kinase kinase 7	GO:0005671	Ada2/Gcn5/Ada3 transcription activator complex
362093	MGC114572,Wdr5	WD repeat domain 5	GO:0005671	Ada2/Gcn5/Ada3 transcription activator complex
362385	Pole4	polymerase (DNA-directed), epsilon 4 (p12 subunit)	GO:0005671	Ada2/Gcn5/Ada3 transcription activator complex
312373	Nt5c3	5'-nucleotidase, cytosolic III	GO:0046085	adenosine metabolic process
58813	MGC112615,Nt5,Nt5e	5' nucleotidase, ecto	GO:0046085	adenosine metabolic process
63889	Ptgdr1,Ptgdr2,Ptgdr1	prostaglandin D receptor-like	GO:0046085	adenosine metabolic process
294103	MGC189455,Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	GO:0004020	adenylylsulfate kinase activity
295443	Papss1	3'-phosphoadenosine 5'-phosphosulfate synthase 1	GO:0004020	adenylylsulfate kinase activity
116490	Sna,Snai1	snail homolog 1 (Drosophila)	04520	Adherens junction
26955	Af6,Milt4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to,	04520	Adherens junction
29591	MGC93659,Tgfr1	transforming growth factor, beta receptor 1	04520	Adherens junction
297173	MGC94489,RSA-14-44	RSA-14-44 protein	04520	Adherens junction
312451	Tcf32	transcription factor 3	04520	Adherens junction
313121	Map3k7,Tak1	mitogen activated protein kinase kinase kinase 7	04520	Adherens junction
498281	Pvrl4,RGD1559826	poliovirus receptor-related 4	04520	Adherens junction
54244	RTS2,CBP,Crebbp,RSTS	CREB binding protein	04520	Adherens junction
83502	Cdh1	cadherin 1	04520	Adherens junction
24854	APOJ,CLU,CLU,DAG,RATTPM2E	clusterin	GO:0016235	aggresome
301516	Stk36	serine/threonine kinase 36 (fused homolog, Drosophila)	GO:0016235	aggresome
304074	Morc3,Zcwc3	MORC family CW-type zinc finger 3	GO:0016235	aggresome
83502	Cdh1	cadherin 1	GO:0016235	aggresome
24592	Nf1	neurofibromin 1	GO:0048844	artery morphogenesis
266813	Pmx1,Prrx1,Prx-1	paired related homeobox 1	GO:0048844	artery morphogenesis
29591	MGC93659,Tgfr1	transforming growth factor, beta receptor 1	GO:0048844	artery morphogenesis
361103	Rai17,Zmiz1	zinc finger, MIZ-type containing 1	GO:0048844	artery morphogenesis
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0006200	ATP catabolic process
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0006200	ATP catabolic process
170913	Abcb12,Abcb1a,Mdr1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	GO:0006200	ATP catabolic process
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0006200	ATP catabolic process
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0006200	ATP catabolic process
25700	INSDEGM,Ide	insulin degrading enzyme	GO:0006200	ATP catabolic process
295568	Hlhf,Smarca3,Snf2l3	helicase-like transcription factor	GO:0006200	ATP catabolic process
29693	Atp2a2,Serca2,Serccal	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	GO:0006200	ATP catabolic process
309922	Rhobtb3	Rho-related BTB domain containing 3	GO:0006200	ATP catabolic process
310836	ABCR,Abca4	ATP-binding cassette, subfamily A (ABC1), member 4	GO:0006200	ATP catabolic process
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0043190	ATP-binding cassette (ABC) transporter complex
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0043190	ATP-binding cassette (ABC) transporter complex
25560	Abcc9,Sur2	ATP-binding cassette, subfamily C (CFTR/MRP), member 9	GO:0008282	ATP-sensitive potassium channel complex
83535	Kcnj11,Kir6.2	potassium inwardly rectifying channel, subfamily J, member 11	GO:0008282	ATP-sensitive potassium channel complex

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25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	GO:0042113	B cell activation
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	GO:0042113	B cell activation
499356	Blnk,MGC112831	B-cell linker	GO:0042113	B cell activation
63868	Hsp60,Hspd1,Hspd1-30p	heat shock protein 1 (chaperonin)	GO:0042113	B cell activation
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	04662	B cell receptor signaling pathway
24703	Raf1	v-raf-leukemia viral oncogene 1	04662	B cell receptor signaling pathway
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	04662	B cell receptor signaling pathway
296603	Vav2	vav 2 guanine nucleotide exchange factor	04662	B cell receptor signaling pathway
313874	Rasgrp3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	04662	B cell receptor signaling pathway
314322	Fos,c-fos	FBJ osteosarcoma oncogene	04662	B cell receptor signaling pathway
316241	MGC72568,Nfkbie,Slc35b21	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	04662	B cell receptor signaling pathway
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	04662	B cell receptor signaling pathway
499356	Blnk,MGC112831	B-cell linker	04662	B cell receptor signaling pathway
54259	Inpp5d	inositol polyphosphate-5-phosphatase D	04662	B cell receptor signaling pathway
25489	Nedd4,Nedd4a	neural precursor cell expressed, developmentally down-regulated 4	GO:0031698	beta-2 adrenergic receptor binding
59114	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	GO:0031698	beta-2 adrenergic receptor binding
114111	Vegfc	vascular endothelial growth factor C	05219	Bladder cancer
24703	Raf1	v-raf-leukemia viral oncogene 1	05219	Bladder cancer
24708	Rb1	retinoblastoma 1	05219	Bladder cancer
399489	E2f1	E2F transcription factor 1	05219	Bladder cancer
81686	Mmp2	matrix metalloproteinase 2	05219	Bladder cancer
83502	Cdh1	cadherin 1	05219	Bladder cancer
84489	Fgfr3	fibroblast growth factor receptor 3	05219	Bladder cancer
29393	COLIA1,Col1a1	collagen, type I, alpha 1	GO:0060346	bone trabecula formation
81686	Mmp2	matrix metalloproteinase 2	GO:0060346	bone trabecula formation
116595	Nrxn2	neurexin 2	GO:0005246	calcium channel regulator activity
24415	Grm2	glutamate receptor, metabotropic 2	GO:0005246	calcium channel regulator activity
24416	Grm3,mGluR3	glutamate receptor, metabotropic 3	GO:0005246	calcium channel regulator activity
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	GO:0005246	calcium channel regulator activity
60391	Nrxn1,Nrxn1b	neurexin 1	GO:0005246	calcium channel regulator activity
191573	Grin3a,NR3,chi-1	glutamate receptor, ionotropic, N-methyl-D-aspartate 3A	GO:0070588	calcium ion transmembrane transport
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0070588	calcium ion transmembrane transport
29693	Atp2a2,Serca2,Sercall	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	GO:0070588	calcium ion transmembrane transport
306439	Gpm6a,M6a	glycoprotein m6a	GO:0070588	calcium ion transmembrane transport
58942	Cacnb4	calcium channel, voltage-dependent, beta 4 subunit	GO:0070588	calcium ion transmembrane transport
66026	Otrpc4,Trpv4,Vroac	transient receptor potential cation channel, subfamily V, member 4	GO:0070588	calcium ion transmembrane transport
79123	Accn2,Asic1	amiloride-sensitive cation channel 2, neuronal	GO:0070588	calcium ion transmembrane transport
84550	Nckx2,Slc24a2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	GO:0070588	calcium ion transmembrane transport
116470	Stx1a	syntaxin 1A (brain)	GO:0017156	calcium ion-dependent exocytosis
116839	Nim22,Rim2,Rims2	regulating synaptic membrane exocytosis 2	GO:0017156	calcium ion-dependent exocytosis
171058	Rab3c	RAB3C, member RAS oncogene family	GO:0017156	calcium ion-dependent exocytosis
25716	P65,Syt1	synaptotagmin I	GO:0017156	calcium ion-dependent exocytosis
29528	MGC108618,Vamp3	vesicle-associated membrane protein 3	GO:0017156	calcium ion-dependent exocytosis
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0004949	cannabinoid receptor activity
57302	CB2,Cnr2	cannabinoid receptor 2 (macrophage)	GO:0004949	cannabinoid receptor activity
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	04973	Carbohydrate digestion and absorption
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	04973	Carbohydrate digestion and absorption

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24212	Atp1a2,RATATPA2	ATPase, Na+/K+ transporting, alpha 2 polypeptide	04973	Carbohydrate digestion and absorption
24214	ATPB2,ATPB2S,Amog,Atp1b2,I	ATPase, Na+/K+ transporting, beta 2 polypeptide	04973	Carbohydrate digestion and absorption
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	04973	Carbohydrate digestion and absorption
25060	Hk3,RNU73859	hexokinase 3 (white cell)	04973	Carbohydrate digestion and absorption
29573	G6pt1,Slc37a4	solute carrier family 37 (glucose-6-phosphate transporter), member 4	04973	Carbohydrate digestion and absorption
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	04973	Carbohydrate digestion and absorption
362491	Ripk2	receptor-interacting serine-threonine kinase 2	GO:0050700	CARD domain binding
500133	Nod1,RGD1562269	nucleotide-binding oligomerization domain containing 1	GO:0050700	CARD domain binding
171102	Cdc25a	cell division cycle 25 homolog A (S. pombe)	04110	Cell cycle
24708	Rb1	retinoblastoma 1	04110	Cell cycle
25577	14-3-3t,Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	04110	Cell cycle
291005	Gadd45g	growth arrest and DNA-damage-inducible, gamma	04110	Cell cycle
296137	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	04110	Cell cycle
300121	Smc1b,Smc1l2	structural maintenance of chromosomes 1B	04110	Cell cycle
308937	MGC105683,Wee1	wee 1 homolog (S. pombe)	04110	Cell cycle
310806	Cdc14a	CDC14 cell division cycle 14 homolog A (S. cerevisiae)	04110	Cell cycle
311412	Anapc1	anaphase promoting complex subunit 1	04110	Cell cycle
315958	Stag1	stromal antigen 1	04110	Cell cycle
316273	Mcm3	minichromosome maintenance complex component 3	04110	Cell cycle
360643	Cdc27	cell division cycle 27 homolog (S. cerevisiae)	04110	Cell cycle
366381	BWK-2,Cdc26	cell division cycle 26	04110	Cell cycle
399489	E2f1	E2F transcription factor 1	04110	Cell cycle
54244	RTS2,CBP,Crebbp,RSTS	CREB binding protein	04110	Cell cycle
56011	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	04110	Cell cycle
24392	Cx43,Gja1,MGC93610	gap junction protein, alpha 1	GO:0007267	cell-cell signaling
24771	RATRYUDOCA,RYUDOCA,Sdc4	syndecan 4	GO:0007267	cell-cell signaling
25145	Cd24,Cd24a,MGC93641	CD24 molecule	GO:0007267	cell-cell signaling
25334	Bhlha15,Bhlhb8,Mist1,bHLH	basic helix-loop-helix family, member a15	GO:0007267	cell-cell signaling
362979	Panx2	pannexin 2	GO:0007267	cell-cell signaling
394266	CXN-26,Cx26,Gjb2,MGC93804	gap junction protein, beta 2	GO:0007267	cell-cell signaling
50563	Cx40,Gja5	gap junction protein, alpha 5	GO:0007267	cell-cell signaling
58868	Fzd1	frizzled homolog 1 (Drosophila)	GO:0007267	cell-cell signaling
84489	Fgfr3	fibroblast growth factor receptor 3	GO:0007267	cell-cell signaling
170699	Atp2c1,MGC93231	ATPase, Ca++ transporting, type 2C, member 1	GO:0006874	cellular calcium ion homeostasis
24645	Pgm11	phosphoglucomutase 1	GO:0006874	cellular calcium ion homeostasis
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	GO:0006874	cellular calcium ion homeostasis
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0006874	cellular calcium ion homeostasis
291047	Gcm2	glial cells missing homolog 2 (Drosophila)	GO:0006874	cellular calcium ion homeostasis
29573	G6pt1,Slc37a4	solute carrier family 37 (glucose-6-phosphate transporter), member 4	GO:0006874	cellular calcium ion homeostasis
29693	Atp2a2,Serca2,Sercall	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	GO:0006874	cellular calcium ion homeostasis
362018	Mg29,Sypl2	synaptophysin-like 2	GO:0006874	cellular calcium ion homeostasis
58942	Cacnb4	calcium channel, voltage-dependent, beta 4 subunit	GO:0006874	cellular calcium ion homeostasis
66026	Otrpc4,Trpv4,Vroac	transient receptor potential cation channel, subfamily V, member 4	GO:0006874	cellular calcium ion homeostasis
84550	Ncx2,Slc24a2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	GO:0006874	cellular calcium ion homeostasis
291047	Gcm2	glial cells missing homolog 2 (Drosophila)	GO:0030643	cellular phosphate ion homeostasis
59114	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	GO:0030643	cellular phosphate ion homeostasis
116564	GC-B,NPR-B,Npr2	natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B)	GO:0006182	cGMP biosynthetic process

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24602	ANF,ANP,Nppa,Pnd,RATANF	natriuretic peptide precursor A	GO:0006182	cGMP biosynthetic process
25202	Gucy1b1,Gucy1b3,MGC93604	guanylate cyclase 1, soluble, beta 3	GO:0006182	cGMP biosynthetic process
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0006182	cGMP biosynthetic process
29440	Pds,Slc26a4	solute carrier family 26, member 4	GO:0015108	chloride transmembrane transporter activity
64076	Slc26a1,sat-1	solute carrier family 26 (sulfate transporter), member 1	GO:0015108	chloride transmembrane transporter activity
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0033344	cholesterol efflux
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0033344	cholesterol efflux
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0033344	cholesterol efflux
266770	Acat-2,Soat2	sterol O-acyltransferase 2	GO:0033344	cholesterol efflux
292697	Apoc2,RGD1560725	apolipoprotein C-II	GO:0033344	cholesterol efflux
24805	RATSYNII,SYNII,Syt2	synaptotagmin II	GO:0042584	chromaffin granule membrane
25716	P65,Syt1	synaptotagmin I	GO:0042584	chromaffin granule membrane
25145	Cd24,Cd24a,MGC93641	CD24 molecule	GO:0060170	cilium membrane
300754	Bbs4	Bardet-Biedl syndrome 4	GO:0060170	cilium membrane
313067	Tmem67,Wpk	transmembrane protein 67	GO:0060170	cilium membrane
24592	Nf1	neurofibromin 1	GO:0030199	collagen fibril organization
24914	H-rev142,Lox,Rrg1	lysyl oxidase	GO:0030199	collagen fibril organization
287899	Adamts2,RGD1565950	ADAM metalloproteinase with thrombospondin type 1 motif, 2	GO:0030199	collagen fibril organization
29393	COLIA1,Col1a1	collagen, type I, alpha 1	GO:0030199	collagen fibril organization
29591	MGC93659,Tgfr1	transforming growth factor, beta receptor 1	GO:0030199	collagen fibril organization
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	05210	Colorectal cancer
24703	Raf1	v-raf-leukemia viral oncogene 1	05210	Colorectal cancer
25402	Casp3,Lice,MGC93645	caspase 3	05210	Colorectal cancer
29591	MGC93659,Tgfr1	transforming growth factor, beta receptor 1	05210	Colorectal cancer
297173	MGC94489,RSA-14-44	RSA-14-44 protein	05210	Colorectal cancer
312451	Tcf32	transcription factor 3	05210	Colorectal cancer
314322	Fos,c-fos	FBJ osteosarcoma oncogene	05210	Colorectal cancer
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	05210	Colorectal cancer
293489	Giyd1,Giyd2,LRRGT00058,MGC93659	GIY-YIG domain containing 2	GO:0008821	crossover junction endodeoxyribonuclease activity
497976	RGD1563765,Rad51c	Rad51 homolog c (S. cerevisiae)	GO:0008821	crossover junction endodeoxyribonuclease activity
287543	Edp1,Tnfaip1	tumor necrosis factor, alpha-induced protein 1 (endothelial)	GO:0031463	Cul3-RING ubiquitin ligase complex
301555	Cul3,MGC189292	cullin 3	GO:0031463	Cul3-RING ubiquitin ligase complex
313348	Klhl9,RGD1304814	kelch-like 9 (Drosophila)	GO:0031463	Cul3-RING ubiquitin ligase complex
29489	Dnch1,Dnchc1,Dync1h1	dynein cytoplasmic 1 heavy chain 1	GO:0033962	cytoplasmic mRNA processing body assembly
316101	Limd1	LIM domains containing 1	GO:0033962	cytoplasmic mRNA processing body assembly
361554	Lsm14a,RGD1305695	LSM14A, SCD6 homolog A (S. cerevisiae)	GO:0033962	cytoplasmic mRNA processing body assembly
24827	RATTGFAA,TGFAA,Tgfa	transforming growth factor alpha	GO:0051480	cytosolic calcium ion homeostasis
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0051480	cytosolic calcium ion homeostasis
63889	Ptgdr1,Ptgdr2,Ptgdr1	prostaglandin D receptor-like	GO:0051480	cytosolic calcium ion homeostasis
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0016311	dephosphorylation
290230	Mdp-1,Mdp1,RGD1311147	magnesium-dependent phosphatase 1	GO:0016311	dephosphorylation
304799	Ppp1r15b	protein phosphatase 1, regulatory (inhibitor) subunit 15b	GO:0016311	dephosphorylation
305889	MGC94155,Thtpa	thiamine triphosphatase	GO:0016311	dephosphorylation
310506	Ppm1l	protein phosphatase 1 (formerly 2C)-like	GO:0016311	dephosphorylation
54259	Inpp5d	inositol polyphosphate-5-phosphatase D	GO:0016311	dephosphorylation
58813	MGC112615,Nt5,Nt5e	5' nucleotidase, ecto	GO:0016311	dephosphorylation
64473	Bpnt1,MGC93112,Sal3	3'(2'), 5'-bisphosphate nucleotidase 1	GO:0016311	dephosphorylation

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84018	Synj2	synaptojanin 2	GO:0016311 dephosphorylation
114087	Baf,Banf1,Bcrp1,L2bp1,L2bp1/	barrier to autointegration factor 1	GO:0015074 DNA integration
308918	Ppfibp2	PTPRF interacting protein, binding protein 2 (liprin beta 2)	GO:0015074 DNA integration
300668	Dpagt1,H2afx1	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminophosphotransferase 1 (Glc	GO:0019348 dolichol metabolic process
305291	RGD1308828,S5AR 3,Srd5a3	steroid 5 alpha-reductase 3	GO:0019348 dolichol metabolic process
25509	Pax6	paired box 6	GO:0009950 dorsal/ventral axis specification
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0009950 dorsal/ventral axis specification
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0009950 dorsal/ventral axis specification
25546	Shox2	short stature homeobox 2	GO:0048598 embryonic morphogenesis
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0048598 embryonic morphogenesis
50938	Cdo,Cdon	Cdon homolog (mouse)	GO:0048598 embryonic morphogenesis
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0048598 embryonic morphogenesis
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0060059 embryonic retina morphogenesis in camera-type eye
50938	Cdo,Cdon	Cdon homolog (mouse)	GO:0060059 embryonic retina morphogenesis in camera-type eye
113975	Pom121	nuclear pore membrane protein 121	GO:0005789 endoplasmic reticulum membrane
116644	Nsp,Rtn1	reticulon 1	GO:0005789 endoplasmic reticulum membrane
140945	Rtn3	reticulon 3	GO:0005789 endoplasmic reticulum membrane
24299	Cyp2a3,Cyp2a3a,RATCYP2A3A	cytochrome P450, family 2, subfamily a, polypeptide 3	GO:0005789 endoplasmic reticulum membrane
24392	Cx43,Gja1,MGC93610	gap junction protein, alpha 1	GO:0005789 endoplasmic reticulum membrane
24862	Ugt2b,Ugt2b2	UDP glycosyltransferase 2 family, polypeptide B	GO:0005789 endoplasmic reticulum membrane
25096	Pld1,Pld1a,Pld1b,Plda,Pldb	phospholipase D1	GO:0005789 endoplasmic reticulum membrane
25113	Ddn,Den	dendrin	GO:0005789 endoplasmic reticulum membrane
25426	Cyp1b1	cytochrome P450, family 1, subfamily b, polypeptide 1	GO:0005789 endoplasmic reticulum membrane
25427	Cyp51,Cyp51a1,MGC93630,RA	cytochrome P450, family 51	GO:0005789 endoplasmic reticulum membrane
266770	Acat-2,Soat2	sterol O-acyltransferase 2	GO:0005789 endoplasmic reticulum membrane
286900	Sels,sg2	selenoprotein S	GO:0005789 endoplasmic reticulum membrane
287633	Lrrc59,MGC105677	leucine rich repeat containing 59	GO:0005789 endoplasmic reticulum membrane
29230	Sqle	squalene epoxidase	GO:0005789 endoplasmic reticulum membrane
29336	Oprs1,Sigmar1	sigma non-opioid intracellular receptor 1	GO:0005789 endoplasmic reticulum membrane
29573	G6pt1,Slc37a4	solute carrier family 37 (glucose-6-phosphate transporter), member 4	GO:0005789 endoplasmic reticulum membrane
29632	Hsd3b11,Hsd3b6,MGC109236	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 6	GO:0005789 endoplasmic reticulum membrane
29693	Atp2a2,Serca2,Sercall	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	GO:0005789 endoplasmic reticulum membrane
305166	Agpat9,MGC114395	1-acylglycerol-3-phosphate O-acyltransferase 9	GO:0005789 endoplasmic reticulum membrane
305291	RGD1308828,S5AR 3,Srd5a3	steroid 5 alpha-reductase 3	GO:0005789 endoplasmic reticulum membrane
309449	Elov13	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	GO:0005789 endoplasmic reticulum membrane
310506	Ppm1l	protein phosphatase 1 (formerly 2C)-like	GO:0005789 endoplasmic reticulum membrane
310633	RGD1308273,Ubqln4	ubiquilin 4	GO:0005789 endoplasmic reticulum membrane
311617	Fitm2,Fitm2,RGD1307696	fat storage-inducing transmembrane protein 2	GO:0005789 endoplasmic reticulum membrane
313067	Tmem67,Wpk	transmembrane protein 67	GO:0005789 endoplasmic reticulum membrane
313231	Alg2	asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)	GO:0005789 endoplasmic reticulum membrane
315286	MGC105614,RGD1311532,Tmem106C	transmembrane protein 106C	GO:0005789 endoplasmic reticulum membrane
361233	Ssr1	signal sequence receptor, alpha	GO:0005789 endoplasmic reticulum membrane
361577	Kdelr1,MGC109169	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1	GO:0005789 endoplasmic reticulum membrane
361618	Stim1	stromal interaction molecule 1	GO:0005789 endoplasmic reticulum membrane
362521	RGD1305703,Tmem38b	transmembrane protein 38B	GO:0005789 endoplasmic reticulum membrane
56718	Frap1,Mtor,RAFT1	mechanistic target of rapamycin (serine/threonine kinase)	GO:0005789 endoplasmic reticulum membrane
60671	Gulo	gulonolactone (L-) oxidase	GO:0005789 endoplasmic reticulum membrane

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64001	Cyb5,Cyb5a,MGC108694	cytochrome b5 type A (microsomal)	GO:0005789	endoplasmic reticulum membrane
78947	Gcs11,Mogs	glucosidase 1	GO:0005789	endoplasmic reticulum membrane
79112	GPI-MT-1,Pigm	phosphatidylinositol glycan anchor biosynthesis, class M	GO:0005789	endoplasmic reticulum membrane
80881	RAMP4,Serp1	stress-associated endoplasmic reticulum protein 1	GO:0005789	endoplasmic reticulum membrane
80897	Appils,Arts1,Erap1,MGC11261	endoplasmic reticulum aminopeptidase 1	GO:0005789	endoplasmic reticulum membrane
81681	Lss	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	GO:0005789	endoplasmic reticulum membrane
83576	Nt3,Nts3,Sort1	sortilin 1	GO:0005789	endoplasmic reticulum membrane
83792	Scd,Scd2	stearoyl-CoA desaturase (delta-9-desaturase)	GO:0005789	endoplasmic reticulum membrane
89868	Lztr2,Rgpr,Sec16b	SEC16 homolog B (S. cerevisiae)	GO:0005789	endoplasmic reticulum membrane
116654	ALR2,Exoc4,Sec8,Sec8l1	exocyst complex component 4	GO:0005768	endosome
171581	Chp2,Arhv,MGC93183,Rhov	ras homolog gene family, member V	GO:0005768	endosome
192152	MGC108592,Tgn38,Tgoln1,Tgc	trans-golgi network protein	GO:0005768	endosome
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0005768	endosome
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0005768	endosome
24392	Cx43,Gja1,MGC93610	gap junction protein, alpha 1	GO:0005768	endosome
25012	MGC105414,SNAP-25B,Snap2f	synaptosomal-associated protein 25	GO:0005768	endosome
25096	Pld1,Pld1a,Pld1b,Plda,Pldb	phospholipase D1	GO:0005768	endosome
287543	Edp1,Tnfaip1	tumor necrosis factor, alpha-induced protein 1 (endothelial)	GO:0005768	endosome
29216	Lrp2	low density lipoprotein-related protein 2	GO:0005768	endosome
297995	Chmp5,RGD1305968	chromatin modifying protein 5	GO:0005768	endosome
299858	Lrp1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	GO:0005768	endosome
310526	Golim4,Golph4	golgi integral membrane protein 4	GO:0005768	endosome
312689	M6pr,MGC94300	mannose-6-phosphate receptor, cation dependent	GO:0005768	endosome
314764	Eea1	early endosome antigen 1	GO:0005768	endosome
317630	MGC114534,Pldn	pallidin homolog (mouse)	GO:0005768	endosome
338477	Sla,Slap1	src-like adaptor	GO:0005768	endosome
361729	Cybas3,RGD1304670	cytochrome b, ascorbate dependent 3	GO:0005768	endosome
361846	MGC94168,Vps26,Vps26a	vacuolar protein sorting 26 homolog A (S. pombe)	GO:0005768	endosome
366311	Clavesin-1,Civs1,RGD1564200,	clavesin 1	GO:0005768	endosome
58844	Grb14	growth factor receptor bound protein 14	GO:0005768	endosome
83576	Nt3,Nts3,Sort1	sortilin 1	GO:0005768	endosome
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0015988	energy coupled proton transport against electrochemical gradient
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0015988	energy coupled proton transport against electrochemical gradient
289883	LRRG00120,MGC95001,Tmed5	transmembrane emp24 protein transport domain containing 5	GO:0005793	ER-Golgi intermediate compartment
312077	Golga3	golgi autoantigen, golgin subfamily a, 3	GO:0005793	ER-Golgi intermediate compartment
361207	MGC95048,RGD1307627,Tmed5	transmembrane emp24 protein transport domain containing 9	GO:0005793	ER-Golgi intermediate compartment
361577	Kdelr1,MGC109169	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1	GO:0005793	ER-Golgi intermediate compartment
394266	CXN-26,Cx26,Gjb2,MGC93804	gap junction protein, beta 2	GO:0005793	ER-Golgi intermediate compartment
498486	Gnpat1,RGD1563144	glucosamine-phosphate N-acetyltransferase 1	GO:0005793	ER-Golgi intermediate compartment
65165	MGC72390,Rnp24,Tmed2	transmembrane emp24 domain trafficking protein 2	GO:0005793	ER-Golgi intermediate compartment
116654	ALR2,Exoc4,Sec8,Sec8l1	exocyst complex component 4	GO:0000145	exocyst
171455	Exoc2,Rsec5,Sec5l1	exocyst complex component 2	GO:0000145	exocyst
500233	Exoc6b,MGC189077,RGD1560	exocyst complex component 6B	GO:0000145	exocyst
309449	Elov3	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	GO:0019367	fatty acid elongation saturated fatty acid
315851	Elov4	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4	GO:0019367	fatty acid elongation saturated fatty acid
117045	Eif4e,MGC93265	eukaryotic translation initiation factor 4E	GO:0000082	G1/S transition of mitotic cell cycle
171102	Cdc25a	cell division cycle 25 homolog A (S. pombe)	GO:0000082	G1/S transition of mitotic cell cycle

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192209	Gs4,Lm23,Spdy1,Spdya,Spy1	speedy homolog A (<i>Xenopus laevis</i>)	GO:000082	G1/S transition of mitotic cell cycle
24708	Rb1	retinoblastoma 1	GO:000082	G1/S transition of mitotic cell cycle
399489	E2f1	E2F transcription factor 1	GO:000082	G1/S transition of mitotic cell cycle
56718	Frap1,Mtor,RAFT1	mechanistic target of rapamycin (serine/threonine kinase)	GO:000082	G1/S transition of mitotic cell cycle
24392	Cx43,Gja1,MGC93610	gap junction protein, alpha 1	GO:0005243	gap junction channel activity
362979	Panx2	pannexin 2	GO:0005243	gap junction channel activity
394266	CXN-26,Cx26,Gjb2,MGC93804	gap junction protein, beta 2	GO:0005243	gap junction channel activity
50563	Cx40,Gja5	gap junction protein, alpha 5	GO:0005243	gap junction channel activity
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	05214	Glioma
24629	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	05214	Glioma
24703	Raf1	v-raf-leukemia viral oncogene 1	05214	Glioma
24708	Rb1	retinoblastoma 1	05214	Glioma
24827	RATTGFAA,TGFAA,Tgfa	transforming growth factor alpha	05214	Glioma
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	05214	Glioma
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	05214	Glioma
399489	E2f1	E2F transcription factor 1	05214	Glioma
56718	Frap1,Mtor,RAFT1	mechanistic target of rapamycin (serine/threonine kinase)	05214	Glioma
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	GO:0006006	glucose metabolic process
24645	Pgm11	phosphoglucomutase 1	GO:0006006	glucose metabolic process
25231	Hnf6,Onecut1	one cut homeobox 1	GO:0006006	glucose metabolic process
25620	Creml,icer	cAMP responsive element modulator	GO:0006006	glucose metabolic process
298655	H6pd	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	GO:0006006	glucose metabolic process
65038	Inpp1,Ship2	inositol polyphosphate phosphatase-like 1	GO:0006006	glucose metabolic process
80881	RAMP4,Serp1	stress-associated endoplasmic reticulum protein 1	GO:0006006	glucose metabolic process
83535	Kcnj11,Kir6.2	potassium inwardly rectifying channel, subfamily J, member 11	GO:0006006	glucose metabolic process
116686	Gsr	glutathione reductase	GO:0043295	glutathione binding
59103	MGC124930,Pges,Ptges	prostaglandin E synthase	GO:0043295	glutathione binding
64317	GSHPx-3,GSHPx-P,Gpx3,Gpxp	glutathione peroxidase 3	GO:0043295	glutathione binding
50555	Ugt8,Ugt8a	UDP glycosyltransferase 8	GO:0006688	glycosphingolipid biosynthetic process
65196	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6	GO:0006688	glycosphingolipid biosynthetic process
192152	MGC108592,Tgn38,Tgoln1,Tgc	trans-golgi network protein	GO:0006895	Golgi to endosome transport
83576	Nt3,Nts3,Sort1	sortilin 1	GO:0006895	Golgi to endosome transport
24415	Grm2	glutamate receptor, metabotropic 2	GO:0001641	group II metabotropic glutamate receptor activity
24416	Grm3,mGluR3	glutamate receptor, metabotropic 3	GO:0001641	group II metabotropic glutamate receptor activity
313874	Rasgrp3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	GO:0032045	guanyl-nucleotide exchange factor complex
688705	Dgki,rDGKi-3	diacylglycerol kinase, iota	GO:0032045	guanyl-nucleotide exchange factor complex
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	GO:0042393	histone binding
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0042393	histone binding
294408	Asf1a	ASF1 anti-silencing function 1 homolog A (<i>S. cerevisiae</i>)	GO:0042393	histone binding
300320	L3mbt1,MGC124862	l(3)mbt-like 2 (<i>Drosophila</i>)	GO:0042393	histone binding
306817	Dek,MGC94795	DEK oncogene	GO:0042393	histone binding
308939	lpo7	importin 7	GO:0042393	histone binding
361815	MGC116114,Rnf8	ring finger protein 8	GO:0042393	histone binding
365755	RGD1560053,Tbl1xr1	transducin (beta)-like 1 X-linked receptor 1	GO:0042393	histone binding
313507	Tal1	T-cell acute lymphocytic leukemia 1	GO:0000118	histone deacetylase complex
360801	Ncor2	nuclear receptor co-repressor 2	GO:0000118	histone deacetylase complex
365755	RGD1560053,Tbl1xr1	transducin (beta)-like 1 X-linked receptor 1	GO:0000118	histone deacetylase complex

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60563	Hr	hairless	GO:0000118	histone deacetylase complex
500538	Byb1,Cbfa,Dbpb,Ef1a,Msy1,Ns	Y box binding protein 1	GO:0071204	histone pre-mRNA 3'end processing complex
681062	MGC187387,Slbp	stem-loop binding protein	GO:0071204	histone pre-mRNA 3'end processing complex
114490	Cited2,MGC93288,Mrg1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	GO:0001701	in utero embryonic development
24333	Eno1	enolase 1, (alpha)	GO:0001701	in utero embryonic development
24379	Gad1,Gad67	glutamate decarboxylase 1	GO:0001701	in utero embryonic development
24392	Cx43,Gja1,MGC93610	gap junction protein, alpha 1	GO:0001701	in utero embryonic development
24629	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	GO:0001701	in utero embryonic development
24851	Alpha-tm,Tma2,Tmsa,Tpm1	tropomyosin 1, alpha	GO:0001701	in utero embryonic development
25099	Foxa2,Hnf3b	forkhead box A2	GO:0001701	in utero embryonic development
25478	Man2a1,Mana2,Manno	mannosidase, alpha, class 2A, member 1	GO:0001701	in utero embryonic development
29591	MGC93659,Tgfr1	transforming growth factor, beta receptor 1	GO:0001701	in utero embryonic development
301555	Cul3,MGC189292	cullin 3	GO:0001701	in utero embryonic development
302993	Sox8	SRY (sex determining region Y)-box 8	GO:0001701	in utero embryonic development
303586	Wnt9b	wingless-type MMTV integration site family, member 9B	GO:0001701	in utero embryonic development
304486	RGD1566266,Tctn1	tectonic family member 1	GO:0001701	in utero embryonic development
306347	Ell	elongation factor RNA polymerase II	GO:0001701	in utero embryonic development
307724	RGD1311099,Rpgrip1l	Rpgrip1-like	GO:0001701	in utero embryonic development
309680	Dnmt3l	DNA (cytosine-5-)-methyltransferase 3-like	GO:0001701	in utero embryonic development
360801	Ncor2	nuclear receptor co-repressor 2	GO:0001701	in utero embryonic development
361103	Rai17,Zmiz1	zinc finger, MIZ-type containing 1	GO:0001701	in utero embryonic development
499966	RGD1564823,Xrcc2	X-ray repair complementing defective repair in Chinese hamster cells 2	GO:0001701	in utero embryonic development
500538	Byb1,Cbfa,Dbpb,Ef1a,Msy1,Ns	Y box binding protein 1	GO:0001701	in utero embryonic development
65165	MGC72390,Rnp24,Tmed2	transmembrane emp24 domain trafficking protein 2	GO:0001701	in utero embryonic development
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0001701	in utero embryonic development
83502	Cdh1	cadherin 1	GO:0001701	in utero embryonic development
116720	Pik3c2g	phosphoinositide-3-kinase, class 2, gamma polypeptide	GO:0004428	inositol or phosphatidylinositol kinase activity
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	GO:0004428	inositol or phosphatidylinositol kinase activity
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	GO:0004428	inositol or phosphatidylinositol kinase activity
54259	Inpp5d	inositol polyphosphate-5-phosphatase D	GO:0004437	inositol or phosphatidylinositol phosphatase activity
64473	Bpnt1,MGC93112,Sal3	3'(2'), 5'-bisphosphate nucleotidase 1	GO:0004437	inositol or phosphatidylinositol phosphatase activity
65038	Inpp1,Ship2	inositol polyphosphate phosphatase-like 1	GO:0004437	inositol or phosphatidylinositol phosphatase activity
84018	Synj2	synaptojanin 2	GO:0004437	inositol or phosphatidylinositol phosphatase activity
54259	Inpp5d	inositol polyphosphate-5-phosphatase D	GO:0004445	inositol-polyphosphate 5-phosphatase activity
65038	Inpp1,Ship2	inositol polyphosphate phosphatase-like 1	GO:0004445	inositol-polyphosphate 5-phosphatase activity
84018	Synj2	synaptojanin 2	GO:0004445	inositol-polyphosphate 5-phosphatase activity
100125362	LOC100125362,MGC109299	hypothetical protein LOC100125362	GO:0016021	integral to membrane
113975	Pom121	nuclear pore membrane protein 121	GO:0016021	integral to membrane
114100	MGC93101,Sc5d,Sc5dl	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like	GO:0016021	integral to membrane
114115	P2X2,P2rx2	purinergic receptor P2X, ligand-gated ion channel, 2	GO:0016021	integral to membrane
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0016021	integral to membrane
116470	Stx1a	syntaxin 1A (brain)	GO:0016021	integral to membrane
116564	GC-B,NPR-B,Npr2	natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B)	GO:0016021	integral to membrane
116595	Nrxn2	neurexin 2	GO:0016021	integral to membrane
116644	Nsp,Rtn1	reticulon 1	GO:0016021	integral to membrane
117048	Cdh17	cadherin 17	GO:0016021	integral to membrane
117242	Odz2	odz, odd Oz/ten-m homolog 2 (Drosophila)	GO:0016021	integral to membrane

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140473	Ccbp2,D6,MGC105345	chemokine binding protein 2	GO:0016021 integral to membrane
140923	Bnip3l,Nix	BCL2/adenovirus E1B interacting protein 3-like	GO:0016021 integral to membrane
140937	Hig1,Higd1a	HIG1 hypoxia inducible domain family, member 1A	GO:0016021 integral to membrane
140945	Rtn3	reticulon 3	GO:0016021 integral to membrane
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0016021 integral to membrane
170567	Ata1,GlnT,Sat11,Slc38a1	solute carrier family 38, member 1	GO:0016021 integral to membrane
170699	Atp2c1,MGC93231	ATPase, Ca ⁺⁺ transporting, type 2C, member 1	GO:0016021 integral to membrane
170913	Abcb12,Abcb1a,Mdr1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	GO:0016021 integral to membrane
171064	DORA,Igsf6	immunoglobulin superfamily, member 6	GO:0016021 integral to membrane
171411	Lr8,MGC72697,Tmem176b,To	transmembrane protein 176B	GO:0016021 integral to membrane
171447	Cirl-2,Cirl2,Cl2ac,Lphn2	latrophilin 2	GO:0016021 integral to membrane
191571	Fat3	FAT tumor suppressor homolog 3 (Drosophila)	GO:0016021 integral to membrane
191573	Grin3a,NR3,chi-1	glutamate receptor, ionotropic, N-methyl-D-aspartate 3A	GO:0016021 integral to membrane
192152	MGC108592,Tgn38,Tgoln1,Tgc	trans-golgi network protein	GO:0016021 integral to membrane
192251	Gpr149,Ieda	G protein-coupled receptor 149	GO:0016021 integral to membrane
192273	Slc22a25,Slc22a91,Ust1,Ust1r	solute carrier family 22, member 25	GO:0016021 integral to membrane
24174	Adra2b	adrenergic, alpha-2B-, receptor	GO:0016021 integral to membrane
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0016021 integral to membrane
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0016021 integral to membrane
24214	ATPB2,ATPB2S,Amog,Atp1b2,I	ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide	GO:0016021 integral to membrane
24416	Grm3,mGluR3	glutamate receptor, metabotropic 3	GO:0016021 integral to membrane
24499	IL6R1,Il6r,Il6ra	interleukin 6 receptor	GO:0016021 integral to membrane
24520	Kcna,Kcna1,Kcpvd,Kv1.1	potassium voltage-gated channel, shaker-related subfamily, member 1	GO:0016021 integral to membrane
24590	CD10,MGC93576,Mme1,Nep	membrane metallo endopeptidase	GO:0016021 integral to membrane
245977	Gpr116,Gprhgp,Ig-Hepta	G protein-coupled receptor 116	GO:0016021 integral to membrane
246280	MGC105315,Slc15a4	solute carrier family 15, member 4	GO:0016021 integral to membrane
246771	Mcsc,Pcsc,Slc25a25	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 25	GO:0016021 integral to membrane
24771	RATRYUDOCA,RYUDOCA,Sdc4	syndecan 4	GO:0016021 integral to membrane
24785	Nhe4,Slc9a4	solute carrier family 9 (sodium/hydrogen exchanger), member 4	GO:0016021 integral to membrane
24805	RATSYNII,SYNII,Syt2	synaptotagmin II	GO:0016021 integral to membrane
24862	Ugt2b,Ugt2b2	UDP glycosyltransferase 2 family, polypeptide B	GO:0016021 integral to membrane
25102	Chrna5	cholinergic receptor, nicotinic, alpha 5	GO:0016021 integral to membrane
25113	Ddn,Den	dendrin	GO:0016021 integral to membrane
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0016021 integral to membrane
25369	A2ar,ADENO,Adora2a,Adora2l	adenosine A2a receptor	GO:0016021 integral to membrane
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0016021 integral to membrane
25427	Cyp51,Cyp51a1,MGC93630,RA	cytochrome P450, family 51	GO:0016021 integral to membrane
25560	Abcc9,Sur2	ATP-binding cassette, subfamily C (CFTR/MRP), member 9	GO:0016021 integral to membrane
25613	Ptpz1,Ptpz	protein tyrosine phosphatase, receptor-type, Z polypeptide 1	GO:0016021 integral to membrane
25648	Atrc1,CAT1,Cat-1,Slc7a1	solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 1	GO:0016021 integral to membrane
25716	P65,Syt1	synaptotagmin I	GO:0016021 integral to membrane
266733	Ccc9,Slc12a8	solute carrier family 12 (potassium/chloride transporters), member 8	GO:0016021 integral to membrane
266770	Acat-2,Soat2	sterol O-acyltransferase 2	GO:0016021 integral to membrane
266771	V1ra16,Vom1r90	vomer nasal 1 receptor 90	GO:0016021 integral to membrane
286900	Sels,sg2	selenoprotein S	GO:0016021 integral to membrane
286981	Vom2r32	vomer nasal 2 receptor, 32	GO:0016021 integral to membrane
286986	Vom2r75	vomer nasal 2 receptor, 75	GO:0016021 integral to membrane

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287633	Lrrc59,MGC105677	leucine rich repeat containing 59	GO:0016021 integral to membrane
287885	Sectm12,Sectm1a	secreted and transmembrane 1A	GO:0016021 integral to membrane
288731	Pgam5,RGD1312028	phosphoglycerate mutase family member 5	GO:0016021 integral to membrane
288752	B3gnt4	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4	GO:0016021 integral to membrane
289034	RGD1309892,Tmem183,Tmem183	transmembrane protein 183A	GO:0016021 integral to membrane
289883	LRRG00120,MGC95001,Tmem183	transmembrane emp24 protein transport domain containing 5	GO:0016021 integral to membrane
290796	MGC93866,Tmem66	transmembrane protein 66	GO:0016021 integral to membrane
29140	Snn	stannin	GO:0016021 integral to membrane
29163	Cdh9	cadherin 9	GO:0016021 integral to membrane
291640	Slc25a2	solute carrier family 25 (mitochondrial carrier, ornithine transporter) member 2	GO:0016021 integral to membrane
29182	Cdh22	cadherin 22	GO:0016021 integral to membrane
292090	Galnt2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 2 (GalNAc-6S)	GO:0016021 integral to membrane
292155	Hs2st1	heparan sulfate 2-O-sulfotransferase 1	GO:0016021 integral to membrane
29216	Lrp2	low density lipoprotein-related protein 2	GO:0016021 integral to membrane
29230	Sqle	squalene epoxidase	GO:0016021 integral to membrane
29263	Acvr2,Acvr2a,rActR-II	activin A receptor, type IIA	GO:0016021 integral to membrane
292916	MGC114469,Syngr4	synaptogyrin 4	GO:0016021 integral to membrane
293113	RGD1305677,Tmem126a	transmembrane protein 126A	GO:0016021 integral to membrane
29336	Oprs1,Sigmar1	sigma non-opioid intracellular receptor 1	GO:0016021 integral to membrane
293415	RGD1310775,Tmem9b	TMEM9 domain family, member B	GO:0016021 integral to membrane
293627	MGC108789,Tm4sf7,Tspan4	tetraspanin 4	GO:0016021 integral to membrane
293743	Ms4a14,Sp3111	membrane-spanning 4-domains, subfamily A, member 14	GO:0016021 integral to membrane
294043	Sorcs3	sortilin-related VPS10 domain containing receptor 3	GO:0016021 integral to membrane
294065	Kcnv2	potassium channel, subfamily V, member 2	GO:0016021 integral to membrane
29415	Edg5,GPCR18,Gpcr13,H218,S1	sphingosine-1-phosphate receptor 2	GO:0016021 integral to membrane
29440	Pds,Slc26a4	solute carrier family 26, member 4	GO:0016021 integral to membrane
29528	MGC108618,Vamp3	vesicle-associated membrane protein 3	GO:0016021 integral to membrane
295455	MGC108852,Slc39a8	solute carrier family 39 (zinc transporter), member 8	GO:0016021 integral to membrane
29553	Kcnk3,Task-1,rTASK	potassium channel, subfamily K, member 3	GO:0016021 integral to membrane
29573	G6pt1,Slc37a4	solute carrier family 37 (glucose-6-phosphate transporter), member 4	GO:0016021 integral to membrane
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0016021 integral to membrane
29582	Mgat3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase 3	GO:0016021 integral to membrane
29591	MGC93659,Tgfb1	transforming growth factor, beta receptor 1	GO:0016021 integral to membrane
295922	Hspc032,Mtch2	mitochondrial carrier homolog 2 (C. elegans)	GO:0016021 integral to membrane
295928	MGC124816,Slc39a13	solute carrier family 39 (zinc transporter), member 13	GO:0016021 integral to membrane
29632	Hsd3b11,Hsd3b6,MGC109236	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 6	GO:0016021 integral to membrane
29659	P2rx4	purinergic receptor P2X, ligand-gated ion channel 4	GO:0016021 integral to membrane
29693	Atp2a2,Serca2,Sercal1	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	GO:0016021 integral to membrane
296969	Slc35b4	solute carrier family 35, member B4	GO:0016021 integral to membrane
29743	Cic1,Ctp,MGC93247,Slc20a3,Slc20a3	solute carrier family 25 (mitochondrial carrier, citrate transporter), member 1	GO:0016021 integral to membrane
298091	MGC124776,Slc31a2	solute carrier family 31 (copper transporters), member 2	GO:0016021 integral to membrane
298436	MGC93753,Tspan1	tetraspanin 1	GO:0016021 integral to membrane
298757	Arl6ip2,At12	atlastin GTPase 2	GO:0016021 integral to membrane
300173	GlT8d3,Gxylt1	glycosyltransferase 8 domain containing 3	GO:0016021 integral to membrane
300463	Herpud2,RGD1307343	HERPUD family member 2	GO:0016021 integral to membrane
300666	C2cd2l,Tmem24	C2 calcium-dependent domain containing 2-like	GO:0016021 integral to membrane
300668	Dpagt1,H2afx1	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminylphosphotransferase 1 (GlcNAc-6S)	GO:0016021 integral to membrane

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301086	Xcr1	chemokine (C motif) receptor 1	GO:0016021 integral to membrane
301372	Gpr45	G protein-coupled receptor 45	GO:0016021 integral to membrane
301563	MGC112646,Mff,RGD1310230	mitochondrial fission factor	GO:0016021 integral to membrane
303676	MGC93911,Slc25a19	solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19	GO:0016021 integral to membrane
303801	Lamp3	lysosomal-associated membrane protein 3	GO:0016021 integral to membrane
304124	Cldn8,MGC124857	claudin 8	GO:0016021 integral to membrane
304982	Igsf9	immunoglobulin superfamily, member 9	GO:0016021 integral to membrane
305166	Agpat9,MGC114395	1-acylglycerol-3-phosphate O-acyltransferase 9	GO:0016021 integral to membrane
305291	RGD1308828,S5AR 3,Srd5a3	steroid 5 alpha-reductase 3	GO:0016021 integral to membrane
305472	Pik3ip1,RGD1311203,zgc:6648	phosphoinositide-3-kinase interacting protein 1	GO:0016021 integral to membrane
305880	Lrp10,MGC124814	low-density lipoprotein receptor-related protein 10	GO:0016021 integral to membrane
306285	MGC91393,Syt15,sytXV	synaptotagmin XV	GO:0016021 integral to membrane
306439	Gpm6a,M6a	glycoprotein m6a	GO:0016021 integral to membrane
306549	MGC114531,RGD1310810,Sgk	protein kinase-like protein Sgk196	GO:0016021 integral to membrane
307343	MGC94550,RGD1359600	LEA_4 domain containing protein RGD1359600	GO:0016021 integral to membrane
309135	Ano1,Tmem16a	anoctamin 1, calcium activated chloride channel	GO:0016021 integral to membrane
309449	Elov3	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	GO:0016021 integral to membrane
309533	Sorcs1	sortilin-related VPS10 domain containing receptor 1	GO:0016021 integral to membrane
310207	Sema5a	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain	GO:0016021 integral to membrane
310526	Golim4,Golph4	golgi integral membrane protein 4	GO:0016021 integral to membrane
310540	Ened,Fam198b,MGC72614	family with sequence similarity 198, member B	GO:0016021 integral to membrane
310780	Gpr61	G protein-coupled receptor 61	GO:0016021 integral to membrane
310791	Slc25a24	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24	GO:0016021 integral to membrane
310846	Tram11	translocation associated membrane protein 1-like 1	GO:0016021 integral to membrane
311210	RGD1560411,Tspan18	tetraspanin 18	GO:0016021 integral to membrane
311426	Siglec1,Sn	sialic acid binding Ig-like lectin 1, sialoadhesin	GO:0016021 integral to membrane
311430	MGC93707,Mavs,Visa	mitochondrial antiviral signaling protein	GO:0016021 integral to membrane
311549	Xkr7	XK, Kell blood group complex subunit-related family, member 7	GO:0016021 integral to membrane
311730	Gpr155	G protein-coupled receptor 155	GO:0016021 integral to membrane
311846	Lrrc8,Lrrc8a	leucine rich repeat containing 8 family, member A	GO:0016021 integral to membrane
312052	Steap2	six transmembrane epithelial antigen of the prostate 2	GO:0016021 integral to membrane
312135	RGD1307778,Tmem168	transmembrane protein 168	GO:0016021 integral to membrane
312689	M6pr,MGC94300	mannose-6-phosphate receptor, cation dependent	GO:0016021 integral to membrane
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0016021 integral to membrane
313067	Tmem67,Wpk	transmembrane protein 67	GO:0016021 integral to membrane
313339	Acer2,Asah3l	alkaline ceramidase 2	GO:0016021 integral to membrane
314224	Tmem30b	transmembrane protein 30B	GO:0016021 integral to membrane
314751	RGD1307241,Tmcc3	transmembrane and coiled-coil domain family 3	GO:0016021 integral to membrane
314785	RGD1306351,Tmtc3	transmembrane and tetratricopeptide repeat containing 3	GO:0016021 integral to membrane
315286	MGC105614,RGD1311532,Tmcc3	transmembrane protein 106C	GO:0016021 integral to membrane
315461	ll1r11,MGC108769,Tmed1	transmembrane emp24 protein transport domain containing 1	GO:0016021 integral to membrane
315716	B7RP-2,B7h3,Cd276	Cd276 molecule	GO:0016021 integral to membrane
315851	Elov4	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4	GO:0016021 integral to membrane
316018	Rtp3,Tmem7	receptor (chemosensory) transporter protein 3	GO:0016021 integral to membrane
316516	MGC94053,Tmbim1	transmembrane BAX inhibitor motif containing 1	GO:0016021 integral to membrane
316530	MGC72616,RGD735175	hypothetical protein MGC:72616	GO:0016021 integral to membrane
360549	Pls32,Plscr3	phospholipid scramblase 3	GO:0016021 integral to membrane

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360868	RGD1310623,Sft2d2	SFT2 domain containing 2	GO:0016021 integral to membrane
361207	MGC95048,RGD1307627,Tmet	transmembrane emp24 protein transport domain containing 9	GO:0016021 integral to membrane
361233	Ssr1	signal sequence receptor, alpha	GO:0016021 integral to membrane
361577	Kdelr1,MGC109169	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1	GO:0016021 integral to membrane
361729	Cybas3,RGD1304670	cytochrome b, ascorbate dependent 3	GO:0016021 integral to membrane
361836	Slc25a16	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16	GO:0016021 integral to membrane
362018	Mg29,Sypl2	synaptophysin-like 2	GO:0016021 integral to membrane
362065	Gpr177,Wls	G protein-coupled receptor 177	GO:0016021 integral to membrane
362521	RGD1305703,Tmem38b	transmembrane protein 38B	GO:0016021 integral to membrane
362629	Il22ra1,RGD1559655	interleukin 22 receptor, alpha 1	GO:0016021 integral to membrane
362699	MGC95126,RGD1310157,Yipf4	Yip1 domain family, member 4	GO:0016021 integral to membrane
362911	Mal2	mal, T-cell differentiation protein 2	GO:0016021 integral to membrane
362979	Panx2	pannexin 2	GO:0016021 integral to membrane
363013	RGD1305625,Tmem123	transmembrane protein 123	GO:0016021 integral to membrane
364678	Sfxn1	sideroflexin 1	GO:0016021 integral to membrane
364838	Dp12,Reep5	receptor accessory protein 5	GO:0016021 integral to membrane
365841	RGD1307244,Slc25a44	solute carrier family 25, member 44	GO:0016021 integral to membrane
366064	B3gal1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1	GO:0016021 integral to membrane
393087	Pcdha5,rCNRv05	protocadherin alpha 5	GO:0016021 integral to membrane
394266	CXN-26,Cx26,Gjb2,MGC93804	gap junction protein, beta 2	GO:0016021 integral to membrane
444983	Apold1,Verge	apolipoprotein L domain containing 1	GO:0016021 integral to membrane
497942	Cxcl16	chemokine (C-X-C motif) ligand 16	GO:0016021 integral to membrane
498281	Pvrl4,RGD1559826	poliovirus receptor-related 4	GO:0016021 integral to membrane
499991	Steap4	STEAP family member 4	GO:0016021 integral to membrane
500065	RGD1560915,Tspan33	tetraspanin 33	GO:0016021 integral to membrane
50555	Ugt8,Ugt8a	UDP glycosyltransferase 8	GO:0016021 integral to membrane
50563	Cx40,Gja5	gap junction protein, alpha 5	GO:0016021 integral to membrane
50676	BGT1,Gat1,RNU28927,Slc6a12	solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12	GO:0016021 integral to membrane
50719	E16,Slc7a5,TA1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	GO:0016021 integral to membrane
50938	Cdo,Cdon	Cdon homolog (mouse)	GO:0016021 integral to membrane
54312	MGC93478,Timm23	translocase of inner mitochondrial membrane 23 homolog (yeast)	GO:0016021 integral to membrane
57025	Adam15,MDC15,tMDCVI	a disintegrin and metallopeptidase domain 15 (metargidin)	GO:0016021 integral to membrane
57302	CB2,Cnr2	cannabinoid receptor 2 (macrophage)	GO:0016021 integral to membrane
58813	MGC112615,Nt5,Nt5e	5' nucleotidase, ecto	GO:0016021 integral to membrane
58868	Fzd1	frizzled homolog 1 (Drosophila)	GO:0016021 integral to membrane
59103	MGC124930,Pges,Ptges	prostaglandin E synthase	GO:0016021 integral to membrane
59303	Tmem33	transmembrane protein 33	GO:0016021 integral to membrane
60326	Kcnv1,Kv8.1	potassium channel, subfamily V, member 1	GO:0016021 integral to membrane
60391	Nrxn1,Nrxn1b	neurexin 1	GO:0016021 integral to membrane
60562	MGC93348,Stx6	syntaxin 6	GO:0016021 integral to membrane
60671	Gulo	gulonolactone (L-) oxidase	GO:0016021 integral to membrane
619558	Fam134b	family with sequence similarity 134, member B	GO:0016021 integral to membrane
63889	Ptgdr1,Ptgdr2,Ptgdr1	prostaglandin D receptor-like	GO:0016021 integral to membrane
64001	Cyb5,Cyb5a,MGC108694	cytochrome b5 type A (microsomal)	GO:0016021 integral to membrane
64076	Slc26a1,sat-1	solute carrier family 26 (sulfate transporter), member 1	GO:0016021 integral to membrane
64315	Cd151	CD151 molecule (Raph blood group)	GO:0016021 integral to membrane
64369	Ppap2a	phosphatidic acid phosphatase type 2A	GO:0016021 integral to membrane

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64469	Slc30a4	solute carrier family 30 (zinc transporter), member 4	GO:0016021 integral to membrane
64543	Sec14l3	SEC14-like 3 (<i>S. cerevisiae</i>)	GO:0016021 integral to membrane
65048	Fat2,Fath2	FAT tumor suppressor homolog 2 (<i>Drosophila</i>)	GO:0016021 integral to membrane
65165	MGC72390,Rnp24,Tmed2	transmembrane emp24 domain trafficking protein 2	GO:0016021 integral to membrane
65168	MGC94592,Scamp2	secretory carrier membrane protein 2	GO:0016021 integral to membrane
65183	Aldh3a2,Aldh4,FALDH	aldehyde dehydrogenase 3 family, member A2	GO:0016021 integral to membrane
65196	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6	GO:0016021 integral to membrane
66026	Otrpc4,Trpv4,Vroac	transient receptor potential cation channel, subfamily V, member 4	GO:0016021 integral to membrane
680229	Sgcb	sarcoglycan, beta (dystrophin-associated glycoprotein)	GO:0016021 integral to membrane
690366	Vangl1	vang-like 1 (van gogh, <i>Drosophila</i>)	GO:0016021 integral to membrane
691066	Tm4sf20	transmembrane 4 L six family member 20	GO:0016021 integral to membrane
691448	LOC691448	similar to solute carrier family 25 member 24 isoform 1	GO:0016021 integral to membrane
78947	Gcs11,Mogs	glucosidase 1	GO:0016021 integral to membrane
79032	MGC93415,Mrs2,Mrs2l,Rpt	MRS2 magnesium homeostasis factor homolog (<i>S. cerevisiae</i>)	GO:0016021 integral to membrane
79107	Duox2,Thox2	dual oxidase 2	GO:0016021 integral to membrane
79112	GPI-MT-1,Pigm	phosphatidylinositol glycan anchor biosynthesis, class M	GO:0016021 integral to membrane
79123	Accn2,Asic1	amiloride-sensitive cation channel 2, neuronal	GO:0016021 integral to membrane
79557	Chrna1	cholinergic receptor, nicotinic, alpha 1 (muscle)	GO:0016021 integral to membrane
80881	RAMP4,Serp1	stress-associated endoplasmic reticulum protein 1	GO:0016021 integral to membrane
80897	Appil,Arts1,Erap1,MGC11261	endoplasmic reticulum aminopeptidase 1	GO:0016021 integral to membrane
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0016021 integral to membrane
81919	Fut1,Futa	fucosyltransferase 1	GO:0016021 integral to membrane
83469	Lrp4,Megf7	low density lipoprotein receptor-related protein 4	GO:0016021 integral to membrane
83502	Cdh1	cadherin 1	GO:0016021 integral to membrane
83526	Atrn	attractin	GO:0016021 integral to membrane
83535	Kcnj11,Kir6.2	potassium inwardly rectifying channel, subfamily J, member 11	GO:0016021 integral to membrane
83576	Nt3,Nts3,Sort1	sortilin 1	GO:0016021 integral to membrane
83792	Scd,Scd2	stearoyl-CoA desaturase (delta-9-desaturase)	GO:0016021 integral to membrane
84356	ALDR,Abcd2	ATP-binding cassette, subfamily D (ALD), member 2	GO:0016021 integral to membrane
84360	Clc-3,Clcn3	chloride channel 3	GO:0016021 integral to membrane
84398	C1qRp,C1qr1,Cd93,Ly68	CD93 molecule	GO:0016021 integral to membrane
84487	Dnpi,Slc17a6,Vglut2	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	GO:0016021 integral to membrane
84550	Nckx2,Slc24a2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	GO:0016021 integral to membrane
94338	Smpd3,cca1	sphingomyelin phosphodiesterase 3, neutral membrane	GO:0016021 integral to membrane
100158232	MGC188133,Zfp9	zinc finger protein 9	GO:0005622 intracellular
100302405	Zinki	Arg3.1/Arc mRNA-binding zinc finger protein	GO:0005622 intracellular
116490	Sna,Snai1	snail homolog 1 (<i>Drosophila</i>)	GO:0005622 intracellular
116693	Sec73,Cyth3,MGC124579,Pscd	cytohesin 3	GO:0005622 intracellular
170902	Giot2,Zfp347	zinc finger protein 347	GO:0005622 intracellular
171090	Giot1	gonadotropin inducible ovarian transcription factor 1	GO:0005622 intracellular
171102	Cdc25a	cell division cycle 25 homolog A (<i>S. pombe</i>)	GO:0005622 intracellular
171581	Chp2,Arhv,MGC93183,Rhov	ras homolog gene family, member V	GO:0005622 intracellular
24379	Gad1,Gad67	glutamate decarboxylase 1	GO:0005622 intracellular
24388	Gfi1	growth factor independent 1 transcription repressor	GO:0005622 intracellular
24415	Grm2	glutamate receptor, metabotropic 2	GO:0005622 intracellular
24522	Kid1,Tcf17,Zfp354a,Znf354a	zinc finger protein 354A	GO:0005622 intracellular
24592	Nf1	neurofibromin 1	GO:0005622 intracellular

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245981	Rpl15	ribosomal protein L15	GO:0005622 intracellular
246282	Zfp91	zinc finger protein 91	GO:0005622 intracellular
24883	Wt1	Wilms tumor 1	GO:0005622 intracellular
252860	MGC114256,Rlzfy,Zfp99,Zksca	zinc finger protein 394	GO:0005622 intracellular
25336	CBF-B,CBFB,MGC108654,Nfya	nuclear transcription factor-Y beta	GO:0005622 intracellular
25367	Adar2,Adarb1,Red1	adenosine deaminase, RNA-specific, B1	GO:0005622 intracellular
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0005622 intracellular
25489	Nedd4,Nedd4a	neural precursor cell expressed, developmentally down-regulated 4	GO:0005622 intracellular
25509	Pax6	paired box 6	GO:0005622 intracellular
25671	Madh1,Smad1	SMAD family member 1	GO:0005622 intracellular
287061	MGC116147,Rogdi	rogdi homolog (Drosophila)	GO:0005622 intracellular
287094	Znf213	zinc finger protein 213	GO:0005622 intracellular
287417	Rpl26	ribosomal protein L26	GO:0005622 intracellular
287418	Arhgef15	Rho guanine nucleotide exchange factor (GEF) 15	GO:0005622 intracellular
287954	Dgcr8	DiGeorge syndrome critical region gene 8	GO:0005622 intracellular
289881	Dr1	down-regulator of transcription 1	GO:0005622 intracellular
290541	Arhgef3	Rho guanine nucleotide exchange factor (GEF) 3	GO:0005622 intracellular
291309	Usp6nl	USP6 N-terminal like	GO:0005622 intracellular
29150	Matr3,P130/MAT3	matrin 3	GO:0005622 intracellular
29154	Capn2	calpain 2	GO:0005622 intracellular
29332	Lap18,MGC72884,OP18,PP17,l	stathmin 1	GO:0005622 intracellular
293489	Giyd1,Giyd2,LRRGT00058,MGC	GIY-YIG domain containing 2	GO:0005622 intracellular
293620	Ptdss2	phosphatidylserine synthase 2	GO:0005622 intracellular
294208	Trim31,Trim31l	tripartite motif-containing 31	GO:0005622 intracellular
294343	RGD1565460,Zfp280b	zinc finger protein 280b	GO:0005622 intracellular
294429	RGD1560047,Ranbp2	RAN binding protein 2	GO:0005622 intracellular
296281	Plag12	pleiomorphic adenoma gene-like 2	GO:0005622 intracellular
296349	RGD1305754,Ttpal	tocopherol (alpha) transfer protein-like	GO:0005622 intracellular
296603	Vav2	vav 2 guanine nucleotide exchange factor	GO:0005622 intracellular
297065	Zfp282,Znf282	zinc finger protein 282	GO:0005622 intracellular
297173	MGC94489,RSA-14-44	RSA-14-44 protein	GO:0005622 intracellular
297334	Mrpl35	mitochondrial ribosomal protein L35	GO:0005622 intracellular
297804	MGC94626,Plag1	pleiomorphic adenoma gene 1	GO:0005622 intracellular
298084	Zbtb5	zinc finger and BTB domain containing 5	GO:0005622 intracellular
299197	RGD1307597	similar to mKIAA0317 protein	GO:0005622 intracellular
299897	Trps1	trichorhinophalangeal syndrome I homolog (human)	GO:0005622 intracellular
301709	Arhgap28,RGD1559882	Rho GTPase activating protein 28	GO:0005622 intracellular
303000	Solh	small optic lobes homolog (Drosophila)	GO:0005622 intracellular
303088	MGC188087,Trim41	tripartite motif-containing 41	GO:0005622 intracellular
303141	Rapgef6	Rap guanine nucleotide exchange factor (GEF) 6	GO:0005622 intracellular
303212	Zfp287,Znf287	zinc finger protein 287	GO:0005622 intracellular
303214	MGC93671,Trim16	tripartite motif-containing 16	GO:0005622 intracellular
303351	MGC1567901,Rhot1	ras homolog gene family, member T1	GO:0005622 intracellular
303836	Bcl6	B-cell CLL/lymphoma 6	GO:0005622 intracellular
304337	Zfp68	zinc finger protein 68	GO:0005622 intracellular
304809	Jarid1b,Kdm5b,RGD1565602	lysine (K)-specific demethylase 5B	GO:0005622 intracellular
304941	Pogk	pogo transposable element with KRAB domain	GO:0005622 intracellular

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305888	ZFH,Zfhx2	zinc finger homeobox 2	GO:0005622 intracellular
306260	Capn7,MGC124688	calpain 7	GO:0005622 intracellular
306695	Zfp367,Znf367	zinc finger protein 367	GO:0005622 intracellular
306873	Rreb1	ras responsive element binding protein 1	GO:0005622 intracellular
306974	Zfp192	zinc finger protein 192	GO:0005622 intracellular
307016	Arhgap12	Rho GTPase activating protein 12	GO:0005622 intracellular
307098	MGC114559,Net1	neuroepithelial cell transforming 1	GO:0005622 intracellular
307178	Arhgap21	Rho GTPase activating protein 21	GO:0005622 intracellular
308361	RGD1565029,Zfp329	zinc finger protein 329	GO:0005622 intracellular
308420	Zfp112	zinc finger protein 112	GO:0005622 intracellular
309164	Ovol1	ovo-like 1(Drosophila)	GO:0005622 intracellular
309613	MGC189499,Ng35,Zbtb12	Ng35 pseudogene	GO:0005622 intracellular
309758	Herc4	hect domain and RLD 4	GO:0005622 intracellular
310250	RGD1563022,Zfhx4	zinc finger homeobox 4	GO:0005622 intracellular
310641	Trim46	tripartite motif-containing 46	GO:0005622 intracellular
310838	Bcar3	breast cancer anti-estrogen resistance 3	GO:0005622 intracellular
311785	MGC124698,Psd4	pleckstrin and Sec7 domain containing 4	GO:0005622 intracellular
313874	Rasgrp3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	GO:0005622 intracellular
314584	RGD1308729,Zfp563	zinc finger protein 563	GO:0005622 intracellular
314586	Znf124,Znf763	zinc finger protein 763	GO:0005622 intracellular
314587	KRIM-1,Krim1,Zfp472	zinc finger protein 472	GO:0005622 intracellular
314596	RGD1309019,Rasal3	RAS protein activator like 3	GO:0005622 intracellular
314764	Eea1	early endosome antigen 1	GO:0005622 intracellular
360983	Hspc159,MGC188016,RGD130	galectin-related protein	GO:0005622 intracellular
361970	Trim2	tripartite motif-containing 2	GO:0005622 intracellular
362093	MGC114572,Wdr5	WD repeat domain 5	GO:0005622 intracellular
362385	Pole4	polymerase (DNA-directed), epsilon 4 (p12 subunit)	GO:0005622 intracellular
362491	Ripk2	receptor-interacting serine-threonine kinase 2	GO:0005622 intracellular
362591	Mtf1	metal-regulatory transcription factor 1	GO:0005622 intracellular
362923	Efr3a,RGD1305976	EFR3 homolog A (S. cerevisiae)	GO:0005622 intracellular
363062	Ccd1,Dixdc1	DIX domain containing 1	GO:0005622 intracellular
363170	MGC189403,Zfp167,Znf167	zinc finger protein 167	GO:0005622 intracellular
365751	Rnf29,Trim55	tripartite motif-containing 55	GO:0005622 intracellular
366311	Clavesin-1,Civs1,RGD1564200,	clavesin 1	GO:0005622 intracellular
404781	lqsec3,sag	IQ motif and Sec7 domain 3	GO:0005622 intracellular
498234	Arl8a,RGD1565940	ADP-ribosylation factor-like 8A	GO:0005622 intracellular
500133	Nod1,RGD1562269	nucleotide-binding oligomerization domain containing 1	GO:0005622 intracellular
502674	Dstn2	destrin	GO:0005622 intracellular
502894	LOC502894	hypothetical protein LOC502894	GO:0005622 intracellular
50552	Zfp292,Zn-15,Znf292	zinc finger protein 292	GO:0005622 intracellular
553106	Ncald	neurocalcin delta	GO:0005622 intracellular
64027	Bspry	B-box and SPRY domain containing	GO:0005622 intracellular
64543	Sec14l3	SEC14-like 3 (S. cerevisiae)	GO:0005622 intracellular
64862	MGC93422,Map1lc3,Map1lc3l	microtubule-associated protein 1 light chain 3 beta	GO:0005622 intracellular
65218	Agap2,Centg1,Pike	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	GO:0005622 intracellular
684961	MGC188207,Zmat4	zinc finger, matrin type 4	GO:0005622 intracellular
79120	Arf4	ADP-ribosylation factor 4	GO:0005622 intracellular

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79209	Frk	fyn-related kinase	GO:0005622 intracellular
84360	Clc-3,Clcn3	chloride channel 3	GO:0005622 intracellular
85428	Rhoq,Tc10	ras homolog gene family, member Q	GO:0005622 intracellular
94196	MGC72355,Rnf138,Rsd4,Trif	ring finger protein 138	GO:0005622 intracellular
25334	Bhlha15,Bhlhb8,Mist1,bHIH	basic helix-loop-helix family, member a15	GO:0048312 intracellular distribution of mitochondria
84018	Synj2	synaptojanin 2	GO:0048312 intracellular distribution of mitochondria
116470	Stx1a	syntaxin 1A (brain)	GO:0043229 intracellular organelle
25012	MGC105414,SNAP-25B,Snapt25	synaptosomal-associated protein 25	GO:0043229 intracellular organelle
25716	P65,Syt1	synaptotagmin I	GO:0043229 intracellular organelle
29528	MGC108618,Vamp3	vesicle-associated membrane protein 3	GO:0043229 intracellular organelle
29393	COL1A1,Col1a1	collagen, type I, alpha 1	GO:0001957 intramembranous ossification
81686	Mmp2	matrix metalloproteinase 2	GO:0001957 intramembranous ossification
114634	Six1	SIX homeobox 1	GO:0001822 kidney development
171396	Sulf1	sulfatase 1	GO:0001822 kidney development
24522	Kid1,Tcf17,Zfp354a,Znf354a	zinc finger protein 354A	GO:0001822 kidney development
24629	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	GO:0001822 kidney development
24883	Wt1	Wilms tumor 1	GO:0001822 kidney development
25671	Madh1,Smad1	SMAD family member 1	GO:0001822 kidney development
29139	Dcn,MGC94682	decorin	GO:0001822 kidney development
29591	MGC93659,Tgfr1	transforming growth factor, beta receptor 1	GO:0001822 kidney development
303586	Wnt9b	wingless-type MMTV integration site family, member 9B	GO:0001822 kidney development
307724	RGD1311099,Rpgrip1l	Rpgrip1-like	GO:0001822 kidney development
83469	Lrp4,Megf7	low density lipoprotein receptor-related protein 4	GO:0001822 kidney development
85272	BMP-7,Bmp7	bone morphogenetic protein 7	GO:0001822 kidney development
116490	Sna,Snai1	snail homolog 1 (Drosophila)	GO:0019900 kinase binding
24708	Rb1	retinoblastoma 1	GO:0019900 kinase binding
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0019900 kinase binding
29542	HCNP,Pbp,Pebp1,Rkip	phosphatidylethanolamine binding protein 1	GO:0019900 kinase binding
301574	Cab39	calcium binding protein 39	GO:0019900 kinase binding
313729	Errfi1,RGD1307599,Ralt,Xxx,ge	ERBB receptor feedback inhibitor 1	GO:0019900 kinase binding
313874	Rasgrp3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	GO:0019900 kinase binding
170567	Ata1,GlnT,Sat11,Slc38a1	solute carrier family 38, member 1	GO:0015179 L-amino acid transmembrane transporter activity
287532	RGD1305819,Slc43a2	solute carrier family 43, member 2	GO:0015179 L-amino acid transmembrane transporter activity
50719	E16,Slc7a5,TA1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	GO:0015179 L-amino acid transmembrane transporter activity
170567	Ata1,GlnT,Sat11,Slc38a1	solute carrier family 38, member 1	GO:0015807 L-amino acid transport
25648	Atrc1,CAT1,Cat-1,Slc7a1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	GO:0015807 L-amino acid transport
287532	RGD1305819,Slc43a2	solute carrier family 43, member 2	GO:0015807 L-amino acid transport
50719	E16,Slc7a5,TA1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	GO:0015807 L-amino acid transport
84487	Dnpi,Slc17a6,Vglut2	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	GO:0015807 L-amino acid transport
25557	Star	steroidogenic acute regulatory protein	GO:0006869 lipid transport
292697	Apoc2,RGD1560725	apolipoprotein C-II	GO:0006869 lipid transport
29336	Oprs1,Sigmar1	sigma non-opioid intracellular receptor 1	GO:0006869 lipid transport
305880	Lrp10,MGC124814	low-density lipoprotein receptor-related protein 10	GO:0006869 lipid transport
314543	CED-6,Gulp1	GULP, engulfment adaptor PTB domain containing 1	GO:0006869 lipid transport
444983	Apold1,Verge	apolipoprotein L domain containing 1	GO:0006869 lipid transport
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0060291 long-term synaptic potentiation
29366	Gdnpn1,PI-7,Pn-1,Serpine2,Sp	serine (or cysteine) peptidase inhibitor, clade E, member 2	GO:0060291 long-term synaptic potentiation

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84550	Nckx2,Slc24a2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	GO:0060291 long-term synaptic potentiation
305880	Lrp10,MGC124814	low-density lipoprotein receptor-related protein 10	GO:0005041 low-density lipoprotein receptor activity
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0005041 low-density lipoprotein receptor activity
497942	Cxcl16	chemokine (C-X-C motif) ligand 16	GO:0005041 low-density lipoprotein receptor activity
24174	Adra2b	adrenergic, alpha-2B-, receptor	GO:0000165 MAPKKK cascade
24592	Nf1	neurofibromin 1	GO:0000165 MAPKKK cascade
24703	Raf1	v-raf-leukemia viral oncogene 1	GO:0000165 MAPKKK cascade
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0000165 MAPKKK cascade
25671	Madh1,Smad1	SMAD family member 1	GO:0000165 MAPKKK cascade
29542	HCNP,Pbp,Pebp1,Rkip	phosphatidylethanolamine binding protein 1	GO:0000165 MAPKKK cascade
310506	Ppm1l	protein phosphatase 1 (formerly 2C)-like	GO:0000165 MAPKKK cascade
313121	Map3k7,Tak1	mitogen activated protein kinase kinase kinase 7	GO:0000165 MAPKKK cascade
54260	Itpkb	inositol 1,4,5-trisphosphate 3-kinase B	GO:0000165 MAPKKK cascade
84489	Fgfr3	fibroblast growth factor receptor 3	GO:0000165 MAPKKK cascade
29366	Gdnpn1,PI-7,Pn-1,Serpine2,Sp	serine (or cysteine) peptidase inhibitor, clade E, member 2	GO:0042628 mating plug formation
64679	Dp11,Tgm4	transglutaminase 4 (prostate)	GO:0042628 mating plug formation
25054	Ntrk2,RATTRKB1,TRKB1,Tkrb,t	neurotrophic tyrosine kinase, receptor, type 2	GO:0042490 mechanoreceptor differentiation
25730	NT4P,Ntf4,Ntf5	neurotrophin 4	GO:0042490 mechanoreceptor differentiation
116490	Sna,Snai1	snail homolog 1 (Drosophila)	GO:0001707 mesoderm formation
362065	Gpr177,Wls	G protein-coupled receptor 177	GO:0001707 mesoderm formation
58819	MGC93353,Tr1,Txnrd1	thioredoxin reductase 1	GO:0001707 mesoderm formation
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0001707 mesoderm formation
85272	BMP-7,Bmp7	bone morphogenetic protein 7	GO:0001707 mesoderm formation
291328	Slc39a12	solute carrier family 39 (zinc transporter), member 12	GO:0046873 metal ion transmembrane transporter activity
295455	MGC108852,Slc39a8	solute carrier family 39 (zinc transporter), member 8	GO:0046873 metal ion transmembrane transporter activity
295928	MGC124816,Slc39a13	solute carrier family 39 (zinc transporter), member 13	GO:0046873 metal ion transmembrane transporter activity
361986	Slc39a12	solute carrier family 39 (zinc transporter), member 1	GO:0046873 metal ion transmembrane transporter activity
114100	MGC93101,Sc5d,Sc5dl	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like	GO:0005792 microsome
170699	Atp2c1,MGC93231	ATPase, Ca ⁺⁺ transporting, type 2C, member 1	GO:0005792 microsome
192280	Ppp1r3b	protein phosphatase 1, regulatory (inhibitor) subunit 3B	GO:0005792 microsome
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0005792 microsome
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0005792 microsome
24299	Cyp2a3,Cyp2a3a,RATCYP2A3A	cytochrome P450, family 2, subfamily a, polypeptide 3	GO:0005792 microsome
24414	Gprc1a,Grm1	glutamate receptor, metabotropic 1	GO:0005792 microsome
24862	Ugt2b,Ugt2b2	UDP glycosyltransferase 2 family, polypeptide B	GO:0005792 microsome
25096	Pld1,Pld1a,Pld1b,Plda,Pldb	phospholipase D1	GO:0005792 microsome
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0005792 microsome
25426	Cyp1b1	cytochrome P450, family 1, subfamily b, polypeptide 1	GO:0005792 microsome
25427	Cyp51,Cyp51a1,MGC93630,RA	cytochrome P450, family 51	GO:0005792 microsome
266770	Acat-2,Soat2	sterol O-acyltransferase 2	GO:0005792 microsome
287633	Lrrc59,MGC105677	leucine rich repeat containing 59	GO:0005792 microsome
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0005792 microsome
29230	Sqle	squalene epoxidase	GO:0005792 microsome
29528	MGC108618,Vamp3	vesicle-associated membrane protein 3	GO:0005792 microsome
29573	G6pt1,Slc37a4	solute carrier family 37 (glucose-6-phosphate transporter), member 4	GO:0005792 microsome
29632	Hsd3b11,Hsd3b6,MGC109236	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 6	GO:0005792 microsome
296851	Pon2	paraoxonase 2	GO:0005792 microsome

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29693	Atp2a2,Serca2,Sercall	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	GO:0005792	microsome
298655	H6pd	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	GO:0005792	microsome
300668	Dpagt1,H2afx1	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminophosphotransferase 1 (Glc	GO:0005792	microsome
362383	Rpia	ribose 5-phosphate isomerase A	GO:0005792	microsome
58844	Grb14	growth factor receptor bound protein 14	GO:0005792	microsome
59103	MGC124930,Pges,Ptges	prostaglandin E synthase	GO:0005792	microsome
60671	Gulo	gulonolactone (L-) oxidase	GO:0005792	microsome
64001	Cyb5,Cyb5a,MGC108694	cytochrome b5 type A (microsomal)	GO:0005792	microsome
65165	MGC72390,Rnp24,Tmed2	transmembrane emp24 domain trafficking protein 2	GO:0005792	microsome
65183	Aldh3a2,Aldh4,FALDH	aldehyde dehydrogenase 3 family, member A2	GO:0005792	microsome
80897	Appils,Arts1,Erap1,MGC11261	endoplasmic reticulum aminopeptidase 1	GO:0005792	microsome
81681	Lss	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	GO:0005792	microsome
83535	Kcnj11,Kir6.2	potassium inwardly rectifying channel, subfamily J, member 11	GO:0005792	microsome
83576	Nt3,Nts3,Sort1	sortilin 1	GO:0005792	microsome
83792	Scd,Scd2	stearoyl-CoA desaturase (delta-9-desaturase)	GO:0005792	microsome
25334	Bhlha15,Bhlhb8,Mist1,bHLH	basic helix-loop-helix family, member a15	GO:0006851	mitochondrial calcium ion transport
83529	Vdac1	voltage-dependent anion channel 1	GO:0006851	mitochondrial calcium ion transport
291441	RGD1310784,Ska1	spindle and kinetochore associated complex subunit 1	GO:0000090	mitotic anaphase
296284	Kif3b	kinesin family member 3B	GO:0000090	mitotic anaphase
301555	Cul3,MGC189292	cullin 3	GO:0000090	mitotic anaphase
290046	Hnrnpc,Hnrpc,MGC114359,hn	heterogeneous nuclear ribonucleoprotein C (C1/C2)	GO:0003729	mRNA binding
360602	Crop,Luc7l3,RGD1307981	LUC7-like 3 (<i>S. cerevisiae</i>)	GO:0003729	mRNA binding
360726	Fyttd1,RGD1306899	forty-two-three domain containing 1	GO:0003729	mRNA binding
362152	Hnrnpa3,Hnrpa3	heterogeneous nuclear ribonucleoprotein A3	GO:0003729	mRNA binding
500409	Esrp1,RGD1560481	epithelial splicing regulatory protein 1	GO:0003729	mRNA binding
500538	Byb1,Cbfa,Dbpb,Ef1a,Msy1,Ns	Y box binding protein 1	GO:0003729	mRNA binding
681062	MGC187387,Slbp	stem-loop binding protein	GO:0003729	mRNA binding
113975	Pom121	nuclear pore membrane protein 121	GO:0051028	mRNA transport
25497	Npap60,Nup50,Rtp60	nuclear pore associated protein	GO:0051028	mRNA transport
362152	Hnrnpa3,Hnrpa3	heterogeneous nuclear ribonucleoprotein A3	GO:0051028	mRNA transport
681062	MGC187387,Slbp	stem-loop binding protein	GO:0051028	mRNA transport
140734	Dlc2,Dynl2,MGC72334	dynein light chain LC8-type 2	GO:0016459	myosin complex
192253	Myo16,Myr8	myosin XVI	GO:0016459	myosin complex
24582	Myh11	myosin, heavy chain 11, smooth muscle	GO:0016459	myosin complex
25132	Myo5b,Myr6	myosin Vb	GO:0016459	myosin complex
360570	Myo18a	myosin XVIIIa	GO:0016459	myosin complex
501203	RGD1309537,Rlc-a	similar to Myosin regulatory light chain 2-A, smooth muscle isoform (Myosin RLC-A)	GO:0016459	myosin complex
25096	Pld1,Pld1a,Pld1b,Plda,Pldb	phospholipase D1	GO:0070290	NAPE-specific phospholipase D activity
25097	Pld2,Pldc	phospholipase D2	GO:0070290	NAPE-specific phospholipase D activity
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0045759	negative regulation of action potential
57302	CB2,Cnr2	cannabinoid receptor 2 (macrophage)	GO:0045759	negative regulation of action potential
140593	Siah2	seven in absentia 2	GO:0090090	negative regulation of canonical Wnt receptor signaling pathway
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0090090	negative regulation of canonical Wnt receptor signaling pathway
282581	Fzd6	frizzled homolog 6 (<i>Drosophila</i>)	GO:0090090	negative regulation of canonical Wnt receptor signaling pathway
295445	Dkk2,Dkk41	dickkopf homolog 2 (<i>Xenopus laevis</i>)	GO:0090090	negative regulation of canonical Wnt receptor signaling pathway
314717	RGD1305665,Scyl2	SCY1-like 2 (<i>S. cerevisiae</i>)	GO:0090090	negative regulation of canonical Wnt receptor signaling pathway
315259	Rilp2,Prickle1	prickle homolog 1 (<i>Drosophila</i>)	GO:0090090	negative regulation of canonical Wnt receptor signaling pathway

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58868	Fzd1	frizzled homolog 1 (Drosophila)	GO:009090 negative regulation of canonical Wnt receptor signaling pathway
83469	Lrp4,Megf7	low density lipoprotein receptor-related protein 4	GO:009090 negative regulation of canonical Wnt receptor signaling pathway
89803	Sfrp4	secreted frizzled-related protein 4	GO:009090 negative regulation of canonical Wnt receptor signaling pathway
29659	P2rx4	purinergic receptor P2X, ligand-gated ion channel 4	GO:0010614 negative regulation of cardiac muscle hypertrophy
58815	Glrx3,MGC105380,PICOT,Txn1l2	glutaredoxin 3	GO:0010614 negative regulation of cardiac muscle hypertrophy
24592	Nf1	neurofibromin 1	GO:0001953 negative regulation of cell-matrix adhesion
303836	Bcl6	B-cell CLL/lymphoma 6	GO:0001953 negative regulation of cell-matrix adhesion
313339	Acer2,Asah3l	alkaline ceramidase 2	GO:0001953 negative regulation of cell-matrix adhesion
288937	Serpnb8	serpin peptidase inhibitor, clade B (ovalbumin), member 8	GO:0010951 negative regulation of endopeptidase activity
29216	Lrp2	low density lipoprotein-related protein 2	GO:0010951 negative regulation of endopeptidase activity
29366	Gdnpn1,PI-7,Pn-1,Serpine2,Sp	serine (or cysteine) peptidase inhibitor, clade E, member 2	GO:0010951 negative regulation of endopeptidase activity
299858	Lrp1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	GO:0010951 negative regulation of endopeptidase activity
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0045796 negative regulation of intestinal cholesterol absorption
155192	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0045796 negative regulation of intestinal cholesterol absorption
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0010949 negative regulation of intestinal phytosterol absorption
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0010949 negative regulation of intestinal phytosterol absorption
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0033004 negative regulation of mast cell activation
57302	CB2,Cnr2	cannabinoid receptor 2 (macrophage)	GO:0033004 negative regulation of mast cell activation
25145	Cd24,Cd24a,MGC93641	CD24 molecule	GO:0050768 negative regulation of neurogenesis
25509	Pax6	paired box 6	GO:0050768 negative regulation of neurogenesis
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0050768 negative regulation of neurogenesis
85272	BMP-7,Bmp7	bone morphogenetic protein 7	GO:0050768 negative regulation of neurogenesis
24592	Nf1	neurofibromin 1	GO:0046929 negative regulation of neurotransmitter secretion
79123	Accn2,Asic1	amiloride-sensitive cation channel 2, neuronal	GO:0046929 negative regulation of neurotransmitter secretion
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0010642 negative regulation of platelet-derived growth factor receptor signaling path
59114	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	GO:0010642 negative regulation of platelet-derived growth factor receptor signaling path
65038	Inpp1,Ship2	inositol polyphosphate phosphatase-like 1	GO:0010642 negative regulation of platelet-derived growth factor receptor signaling path
24854	APOJ,CLI,Clu,DAG,RATTRPM2E	clusterin	GO:0032463 negative regulation of protein homooligomerization
297498	Crbn	cereblon	GO:0032463 negative regulation of protein homooligomerization
287543	Edp1,Tnfaip1	tumor necrosis factor, alpha-induced protein 1 (endothelial)	GO:0035024 negative regulation of Rho protein signal transduction
301555	Cul3,MGC189292	cullin 3	GO:0035024 negative regulation of Rho protein signal transduction
303836	Bcl6	B-cell CLL/lymphoma 6	GO:0035024 negative regulation of Rho protein signal transduction
25489	Neddd4,Neddd4a	neural precursor cell expressed, developmentally down-regulated 4	GO:0010766 negative regulation of sodium ion transport
29366	Gdnpn1,PI-7,Pn-1,Serpine2,Sp	serine (or cysteine) peptidase inhibitor, clade E, member 2	GO:0010766 negative regulation of sodium ion transport
59114	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	GO:0010766 negative regulation of sodium ion transport
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0014033 neural crest cell differentiation
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0014033 neural crest cell differentiation
171458	Impk,lpk2,lpmk	inositol polyphosphate multikinase	GO:0001841 neural tube formation
304486	RGD1566266,Tctn1	tectonic family member 1	GO:0001841 neural tube formation
313121	Map3k7,Tak1	mitogen activated protein kinase kinase kinase 7	GO:0001841 neural tube formation
24379	Gad1,Gad67	glutamate decarboxylase 1	GO:0044306 neuron projection terminus
24590	CD10,MGC93576,Mme1,Nep	membrane metallo endopeptidase	GO:0044306 neuron projection terminus
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0001504 neurotransmitter uptake
84487	Dnpi,Slc17a6,Vglut2	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	GO:0001504 neurotransmitter uptake
170956	Yt521,Ythdc1	YTH domain containing 1	GO:0016604 nuclear body
309626	MGC112563,Ring1	ring finger protein 1	GO:0016604 nuclear body
360801	Ncor2	nuclear receptor co-repressor 2	GO:0016604 nuclear body

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54244	RTS2,CBP,Crebbp,RSTS	CREB binding protein	GO:0016604 nuclear body
60563	Hr	hairless	GO:0016604 nuclear body
117048	Cdh17	cadherin 17	GO:0006857 oligopeptide transport
246280	MGC105315,Slc15a4	solute carrier family 15, member 4	GO:0006857 oligopeptide transport
60577	MGC91625,Slc15a2	solute carrier family 15 (H+/peptide transporter), member 2	GO:0006857 oligopeptide transport
29139	Dcn,MGC94682	decorin	GO:0019800 peptide cross-linking via chondroitin 4-sulfate glycosaminoglycan
365691	Egflam,RGD1306592	EGF-like, fibronectin type III and laminin G domains	GO:0019800 peptide cross-linking via chondroitin 4-sulfate glycosaminoglycan
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	GO:0046934 phosphatidylinositol-4,5-bisphosphate 3-kinase activity
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	GO:0046934 phosphatidylinositol-4,5-bisphosphate 3-kinase activity
24333	Eno1	enolase 1, (alpha)	GO:0004634 phosphopyruvate hydratase activity
292138	Eno4,RGD1308333	enolase 4	GO:0004634 phosphopyruvate hydratase activity
24333	Eno1	enolase 1, (alpha)	GO:0000015 phosphopyruvate hydratase complex
292138	Eno4,RGD1308333	enolase 4	GO:0000015 phosphopyruvate hydratase complex
116720	Pik3c2g	phosphoinositide-3-kinase, class 2, gamma polypeptide	GO:0016773 phosphotransferase activity alcohol group as acceptor
170911	MGC116320,Pik3ca	phosphoinositide-3-kinase, catalytic, alpha polypeptide	GO:0016773 phosphotransferase activity alcohol group as acceptor
304885	Fam20b,RGD1311162	family with sequence similarity 20, member B	GO:0016773 phosphotransferase activity alcohol group as acceptor
315722	Adpgk,RGD1306103	ADP-dependent glucokinase	GO:0016773 phosphotransferase activity alcohol group as acceptor
366508	Pik3cd	phosphoinositide-3-kinase, catalytic, delta polypeptide	GO:0016773 phosphotransferase activity alcohol group as acceptor
56718	Frap1,Mtor,RAFT1	mechanistic target of rapamycin (serine/threonine kinase)	GO:0016773 phosphotransferase activity alcohol group as acceptor
114856	3CH134,CL100,Dusp1,MKP-1,N	dual specificity phosphatase 1	GO:0045768 positive regulation of anti-apoptosis
24499	IL6R1,IL6r,IL6ra	interleukin 6 receptor	GO:0045768 positive regulation of anti-apoptosis
24629	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	GO:0045768 positive regulation of anti-apoptosis
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0045768 positive regulation of anti-apoptosis
25557	Star	steroidogenic acute regulatory protein	GO:0045768 positive regulation of anti-apoptosis
25671	Madh1,Smad1	SMAD family member 1	GO:0045768 positive regulation of anti-apoptosis
299858	Lrp1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	GO:0045768 positive regulation of anti-apoptosis
63868	Hsp60,Hspd1,Hspd1-30p	heat shock protein 1 (chaperonin)	GO:0045768 positive regulation of anti-apoptosis
114111	Vegfc	vascular endothelial growth factor C	GO:0051781 positive regulation of cell division
24827	RATTGFAA,TGFAA,Tgfa	transforming growth factor alpha	GO:0051781 positive regulation of cell division
24924	Hbnf,Ptn	pleiotrophin	GO:0051781 positive regulation of cell division
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0051781 positive regulation of cell division
313507	Tal1	T-cell acute lymphocytic leukemia 1	GO:0051781 positive regulation of cell division
500538	Byb1,Cbfa,Dbpb,Ef1a,Msy1,Ns	Y box binding protein 1	GO:0051781 positive regulation of cell division
24388	Gfi1	growth factor independent 1 transcription repressor	GO:0042660 positive regulation of cell fate specification
25509	Pax6	paired box 6	GO:0042660 positive regulation of cell fate specification
24356	Ets-11,Ets1,Etsnbc,MGC1246	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	GO:0045648 positive regulation of erythrocyte differentiation
29263	Acvr2,Acvr2a,rActR-II	activin A receptor, type IIA	GO:0045648 positive regulation of erythrocyte differentiation
313507	Tal1	T-cell acute lymphocytic leukemia 1	GO:0045648 positive regulation of erythrocyte differentiation
54259	Inpp5d	inositol polyphosphate-5-phosphatase D	GO:0045648 positive regulation of erythrocyte differentiation
311430	MGC93707,Mavs,Visa	mitochondrial antiviral signaling protein	GO:0032727 positive regulation of interferon-alpha production
63868	Hsp60,Hspd1,Hspd1-30p	heat shock protein 1 (chaperonin)	GO:0032727 positive regulation of interferon-alpha production
171075	CD23,Fcer2,Fcer2a,MGC93219	Fc fragment of IgE, low affinity II, receptor for (CD23)	GO:0051000 positive regulation of nitric-oxide synthase activity
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0051000 positive regulation of nitric-oxide synthase activity
29142	MGC114385,Tiff66,Vnn1	vanin 1	GO:0033089 positive regulation of T cell differentiation in thymus
294797	Il7r	interleukin 7 receptor	GO:0033089 positive regulation of T cell differentiation in thymus
25145	Cd24,Cd24a,MGC93641	CD24 molecule	GO:0002842 positive regulation of T cell mediated immune response to tumor cell
63868	Hsp60,Hspd1,Hspd1-30p	heat shock protein 1 (chaperonin)	GO:0002842 positive regulation of T cell mediated immune response to tumor cell

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116477	Hsn2,Prkwnk1,Wnk1	WNK lysine deficient protein kinase 1	GO:0019870	potassium channel inhibitor activity
171552	Pprf18,Prpf18	PRP18 pre-mRNA processing factor 18 homolog (<i>S. cerevisiae</i>)	GO:0019870	potassium channel inhibitor activity
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0010107	potassium ion import
25560	Abcc9,Sur2	ATP-binding cassette, subfamily C (CFTR/MRP), member 9	GO:0010107	potassium ion import
83535	Kcnj11,Kir6.2	potassium inwardly rectifying channel, subfamily J, member 11	GO:0010107	potassium ion import
25145	Cd24,Cd24a,MGC93641	CD24 molecule	GO:0002329	pre-B cell differentiation
311846	Lrrc8,Lrrc8a	leucine rich repeat containing 8 family, member A	GO:0002329	pre-B cell differentiation
24379	Gad1,Gad67	glutamate decarboxylase 1	GO:0048786	presynaptic active zone
25054	Ntrk2,RATTRKB1,TRKB1,Tkrb,t	neurotrophic tyrosine kinase, receptor, type 2	GO:0048786	presynaptic active zone
25369	A2ar,ADENO,Adora2a,Adora2l	adenosine A2a receptor	GO:0048786	presynaptic active zone
114115	P2X2,P2rx2	purinergic receptor P2X, ligand-gated ion channel, 2	GO:0042734	presynaptic membrane
24414	Gprc1a,Grm1	glutamate receptor, metabotropic 1	GO:0042734	presynaptic membrane
24415	Grm2	glutamate receptor, metabotropic 2	GO:0042734	presynaptic membrane
24416	Grm3,mGluR3	glutamate receptor, metabotropic 3	GO:0042734	presynaptic membrane
25369	A2ar,ADENO,Adora2a,Adora2l	adenosine A2a receptor	GO:0042734	presynaptic membrane
25716	P65,Syt1	synaptotagmin I	GO:0042734	presynaptic membrane
60391	Nrxn1,Nrxn1b	neurexin 1	GO:0042734	presynaptic membrane
296259	Acas2l,Acas1	acyl-CoA synthetase short-chain family member 1	GO:0019542	propionate biosynthetic process
311569	Acas2,Acas2	acyl-CoA synthetase short-chain family member 2	GO:0019542	propionate biosynthetic process
113960	Cdc42bpb	CDC42 binding protein kinase beta (DMPK-like)	GO:0005515	protein binding
114115	P2X2,P2rx2	purinergic receptor P2X, ligand-gated ion channel, 2	GO:0005515	protein binding
114520	Gs2na,Sg2na,Strn3	striatin, calmodulin binding protein 3	GO:0005515	protein binding
116470	Stx1a	syntaxin 1A (brain)	GO:0005515	protein binding
116477	Hsn2,Prkwnk1,Wnk1	WNK lysine deficient protein kinase 1	GO:0005515	protein binding
116654	ALR2,Exoc4,Sec8,Sec8l1	exocyst complex component 4	GO:0005515	protein binding
116839	Nim22,Rim2,Rims2	regulating synaptic membrane exocytosis 2	GO:0005515	protein binding
117045	Eif4e,MGC93265	eukaryotic translation initiation factor 4E	GO:0005515	protein binding
117526	MGC93994,TFIID,Tbp	TATA box binding protein	GO:0005515	protein binding
117538	Waspip,Wip,Wipf1	WAS/WASL interacting protein family, member 1	GO:0005515	protein binding
140593	Siah2	seven in absentia 2	GO:0005515	protein binding
140734	Dlc2,Dynll2,MGC72334	dynein light chain LC8-type 2	GO:0005515	protein binding
170913	Abcb12,Abcb1a,Mdr1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	GO:0005515	protein binding
170956	Yt521,Ythdc1	YTH domain containing 1	GO:0005515	protein binding
171581	Chp2,Arhv,MGC93183,Rhov	ras homolog gene family, member V	GO:0005515	protein binding
191573	Grin3a,NR3,chi-1	glutamate receptor, ionotropic, N-methyl-D-aspartate 3A	GO:0005515	protein binding
192152	MGC108592,Tgn38,Tgoln1,Tgc	trans-golgi network protein	GO:0005515	protein binding
192253	Myo16,Myr8	myosin XVI	GO:0005515	protein binding
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0005515	protein binding
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0005515	protein binding
24356	Ets-11,Ets1,Etsoncb,MGC1246	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	GO:0005515	protein binding
24392	Cx43,Gja1,MGC93610	gap junction protein, alpha 1	GO:0005515	protein binding
24414	Gprc1a,Grm1	glutamate receptor, metabotropic 1	GO:0005515	protein binding
24520	Kcna,Kcna1,Kcpvd,Kv1.1	potassium voltage-gated channel, shaker-related subfamily, member 1	GO:0005515	protein binding
24592	Nf1	neurofibromin 1	GO:0005515	protein binding
24629	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	GO:0005515	protein binding
246332	KIS,Kist,MGC112620,Uhmk1	U2AF homology motif (UHM) kinase 1	GO:0005515	protein binding
24703	Raf1	v-raf-leukemia viral oncogene 1	GO:0005515	protein binding

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24708	Rb1	retinoblastoma 1	GO:0005515 protein binding
24805	RATSYNII,SYNII,Syt2	synaptotagmin II	GO:0005515 protein binding
24854	APOJ,CLI,Clu,DAG,RATTRPM2E	clusterin	GO:0005515 protein binding
24883	Wt1	Wilms tumor 1	GO:0005515 protein binding
25012	MGC105414,SNAP-25B,Snapt25	synaptosomal-associated protein 25	GO:0005515 protein binding
25023	Pkcb,Prkcb,Prkcb1	protein kinase C, beta	GO:0005515 protein binding
25054	Ntrk2,RATTRKB1,TRKB1,Tkrb,t	neurotrophic tyrosine kinase, receptor, type 2	GO:0005515 protein binding
25060	Hk3,RNU73859	hexokinase 3 (white cell)	GO:0005515 protein binding
25096	Pld1,Pld1a,Pld1b,Plda,Pldb	phospholipase D1	GO:0005515 protein binding
25097	Pld2,Pldc	phospholipase D2	GO:0005515 protein binding
25099	Foxa2,Hnf3b	forkhead box A2	GO:0005515 protein binding
25132	Myo5b,Myr6	myosin Vb	GO:0005515 protein binding
25230	Add3	adducin 3 (gamma)	GO:0005515 protein binding
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0005515 protein binding
25301	C/EBP,CEBPRNA,Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	GO:0005515 protein binding
25369	A2ar,ADENO,Adora2a,Adora2l	adenosine A2a receptor	GO:0005515 protein binding
25402	Casp3,Lice,MGC93645	caspase 3	GO:0005515 protein binding
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0005515 protein binding
25489	Nedd4,Nedd4a	neural precursor cell expressed, developmentally down-regulated 4	GO:0005515 protein binding
25557	Star	steroidogenic acute regulatory protein	GO:0005515 protein binding
25577	14-3-3t,Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	GO:0005515 protein binding
25615	HSPG2,Sdc2	syndecan 2	GO:0005515 protein binding
25671	Madh1,Smad1	SMAD family member 1	GO:0005515 protein binding
25716	P65,Syt1	synaptotagmin I	GO:0005515 protein binding
25719	7B2,Scg5,Sgne1	secretogranin V	GO:0005515 protein binding
26955	Af6,Mllt4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to,	GO:0005515 protein binding
287543	Edp1,Tnfaip1	tumor necrosis factor, alpha-induced protein 1 (endothelial)	GO:0005515 protein binding
29131	Cart,Cartpt	CART prepropeptide	GO:0005515 protein binding
29154	Capn2	calpain 2	GO:0005515 protein binding
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0005515 protein binding
29336	Oprs1,Sigmar1	sigma non-opioid intracellular receptor 1	GO:0005515 protein binding
294254	Hspa1b2,Hspa22,Hsp70-2,Hsp	heat shock 70kD protein 1B (mapped)	GO:0005515 protein binding
29489	Dnch1,Dnchc1,Dync1h1	dynein cytoplasmic 1 heavy chain 1	GO:0005515 protein binding
29553	Kcnk3,Task-1,rTASK	potassium channel, subfamily K, member 3	GO:0005515 protein binding
29581	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	GO:0005515 protein binding
29693	Atp2a2,Serca2,Sercall	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	GO:0005515 protein binding
297498	Crbn	cereblon	GO:0005515 protein binding
299858	Lrp1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	GO:0005515 protein binding
303351	MGC1567901,Rhot1	ras homolog gene family, member T1	GO:0005515 protein binding
306886	Ripk1	receptor (TNFRSF)-interacting serine-threonine kinase 1	GO:0005515 protein binding
313121	Map3k7,Tak1	mitogen activated protein kinase kinase kinase 7	GO:0005515 protein binding
314322	Fos,c-fos	FBJ osteosarcoma oncogene	GO:0005515 protein binding
316384	MGC94054,Sdpr	serum deprivation response	GO:0005515 protein binding
360801	Ncor2	nuclear receptor co-repressor 2	GO:0005515 protein binding
394266	CXN-26,Cx26,Gjb2,MGC93804	gap junction protein, beta 2	GO:0005515 protein binding
399489	E2f1	E2F transcription factor 1	GO:0005515 protein binding
498266	Blzf1	basic leucine zipper nuclear factor 1	GO:0005515 protein binding

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54259	Inpp5d	inositol polyphosphate-5-phosphatase D	GO:0005515 protein binding
54312	MGC93478,Timm23	translocase of inner mitochondrial membrane 23 homolog (yeast)	GO:0005515 protein binding
553106	Ncald	neurocalcin delta	GO:0005515 protein binding
56011	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	GO:0005515 protein binding
56029	P140,Snip,Srcin1	SNAP25-interacting protein	GO:0005515 protein binding
56718	Frap1,Mtor,RAFT1	mechanistic target of rapamycin (serine/threonine kinase)	GO:0005515 protein binding
59114	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	GO:0005515 protein binding
60391	Nrxn1,Nrxn1b	neurexin 1	GO:0005515 protein binding
60562	MGC93348,Stx6	syntaxin 6	GO:0005515 protein binding
63868	Hsp60,Hspd1,Hspd1-30p	heat shock protein 1 (chaperonin)	GO:0005515 protein binding
64027	Bspry	B-box and SPRY domain containing	GO:0005515 protein binding
65038	Inpp1,Ship2	inositol polyphosphate phosphatase-like 1	GO:0005515 protein binding
65168	MGC94592,Scamp2	secretory carrier membrane protein 2	GO:0005515 protein binding
65180	Kcnd2,Kv4.2,RK5,Shal1	potassium voltage-gated channel, Shal-related subfamily, member 2	GO:0005515 protein binding
79113	Fgr	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog	GO:0005515 protein binding
79250	Aco2	aconitase 2, mitochondrial	GO:0005515 protein binding
81818	Vim	vimentin	GO:0005515 protein binding
83502	Cdh1	cadherin 1	GO:0005515 protein binding
83529	Vdac1	voltage-dependent anion channel 1	GO:0005515 protein binding
89803	Sfrp4	secreted frizzled-related protein 4	GO:0005515 protein binding
24914	H-rev142,Lox,Rrg1	lysyl oxidase	GO:0004720 protein-lysine 6-oxidase activity
309380	Loxl4	lysyl oxidase-like 4	GO:0004720 protein-lysine 6-oxidase activity
303141	Rapgef6	Rap guanine nucleotide exchange factor (GEF) 6	GO:0017016 Ras GTPase binding
313874	Rasgrp3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	GO:0017016 Ras GTPase binding
688705	Dgki,rDGKi-3	diacylglycerol kinase, iota	GO:0017016 Ras GTPase binding
24592	Nf1	neurofibromin 1	GO:0001952 regulation of cell-matrix adhesion
25231	Hnf6,Onecut1	one cut homeobox 1	GO:0001952 regulation of cell-matrix adhesion
299766	Myf5	myogenic factor 5	GO:0001952 regulation of cell-matrix adhesion
24414	Gprc1a,Grm1	glutamate receptor, metabotropic 1	GO:0014048 regulation of glutamate secretion
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0014048 regulation of glutamate secretion
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0030300 regulation of intestinal cholesterol absorption
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0030300 regulation of intestinal cholesterol absorption
114514	Clasp2	cytoplasmic linker associated protein 2	GO:0031110 regulation of microtubule polymerization or depolymerization
291441	RGD1310784,Ska1	spindle and kinetochore associated complex subunit 1	GO:0031110 regulation of microtubule polymerization or depolymerization
24415	Grm2	glutamate receptor, metabotropic 2	GO:0046928 regulation of neurotransmitter secretion
25054	Ntrk2,RATTRKB1,TRKB1,Tkrb,t	neurotrophic tyrosine kinase, receptor, type 2	GO:0046928 regulation of neurotransmitter secretion
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0046928 regulation of neurotransmitter secretion
307309	Sncaip,Syph1	synuclein, alpha interacting protein	GO:0046928 regulation of neurotransmitter secretion
501005	Cplx3,RGD1560104	complexin 3	GO:0046928 regulation of neurotransmitter secretion
24708	Rb1	retinoblastoma 1	GO:0007090 regulation of S phase of mitotic cell cycle
292071	Cdt1,Ris2	chromatin licensing and DNA replication factor 1	GO:0007090 regulation of S phase of mitotic cell cycle
304486	RGD1566266,Tctn1	tectonic family member 1	GO:0008589 regulation of smoothened signaling pathway
307724	RGD1311099,Rpgrip1l	Rpgrip1-like	GO:0008589 regulation of smoothened signaling pathway
367242	Rab23	RAB23, member RAS oncogene family	GO:0008589 regulation of smoothened signaling pathway
24592	Nf1	neurofibromin 1	GO:0032228 regulation of synaptic transmission GABAergic
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0032228 regulation of synaptic transmission GABAergic
289584	RGD1564808,Usp46	ubiquitin specific peptidase 46	GO:0032228 regulation of synaptic transmission GABAergic

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24414	Gprc1a,Grm1	glutamate receptor, metabotropic 1	GO:0051966	regulation of synaptic transmission glutamatergic
24415	Grm2	glutamate receptor, metabotropic 2	GO:0051966	regulation of synaptic transmission glutamatergic
25248	Cnr11,SKR6R	cannabinoid receptor 1 (brain)	GO:0051966	regulation of synaptic transmission glutamatergic
29366	Gdnpn1,PI-7,Pn-1,Serpine2,Sp	serine (or cysteine) peptidase inhibitor, clade E, member 2	GO:0051966	regulation of synaptic transmission glutamatergic
24211	Atp1a1,Nkaa1b	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	GO:0002026	regulation of the force of heart contraction
24212	Atp1a2,RATATPA2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	GO:0002026	regulation of the force of heart contraction
29542	HCNP,Pbp,Pebp1,Rkip	phosphatidylethanolamine binding protein 1	GO:0002026	regulation of the force of heart contraction
29693	Atp2a2,Serca2,Sercall	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	GO:0002026	regulation of the force of heart contraction
58815	Glrx3,MGC105380,PICOT,Txnl	glutaredoxin 3	GO:0002026	regulation of the force of heart contraction
25648	Atrc1,CAT1,Cat-1,Slc7a1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	GO:0032006	regulation of TOR signaling cascade
305166	Agpat9,MGC114395	1-acylglycerol-3-phosphate O-acyltransferase 9	GO:0032006	regulation of TOR signaling cascade
114490	Cited2,MGC93288,Mrg1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	GO:0034405	response to fluid shear stress
24629	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	GO:0034405	response to fluid shear stress
29659	P2rx4	purinergic receptor P2X, ligand-gated ion channel 4	GO:0034405	response to fluid shear stress
25402	Casp3,Lice,MGC93645	caspase 3	GO:0010165	response to X-ray
29216	Lrp2	low density lipoprotein-related protein 2	GO:0010165	response to X-ray
310071	Ckn1,Ercc8	excision repair cross-complementing rodent repair deficiency, complementation group 8	GO:0010165	response to X-ray
499966	RGD1564823,Xrcc2	X-ray repair complementing defective repair in Chinese hamster cells 2	GO:0010165	response to X-ray
83580	Thbd	thrombomodulin	GO:0010165	response to X-ray
25054	Ntrk2,RATTRKB1,TRKB1,Tkrb,t	neurotrophic tyrosine kinase, receptor, type 2	GO:0046548	retinal rod cell development
300754	Bbs4	Bardet-Biedl syndrome 4	GO:0046548	retinal rod cell development
291314	Sephs1	selenophosphate synthetase 1	00450	Selenocompound metabolism
294103	MGC189455,Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	00450	Selenocompound metabolism
295443	Papss1	3'-phosphoadenosine 5'-phosphosulfate synthase 1	00450	Selenocompound metabolism
308993	MGC156840,Sephs2	selenophosphate synthetase 2	00450	Selenocompound metabolism
58819	MGC93353,Tr1,Txnrd1	thioredoxin reductase 1	00450	Selenocompound metabolism
114634	Six1	SIX homeobox 1	GO:0043565	sequence-specific DNA binding
116490	Sna,Snai1	snail homolog 1 (Drosophila)	GO:0043565	sequence-specific DNA binding
116545	Brn5,Pou6f1	POU class 6 homeobox 1	GO:0043565	sequence-specific DNA binding
24356	Ets-11,Ets1,Etsoncb,MGC1246	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	GO:0043565	sequence-specific DNA binding
24883	Wt1	Wilms tumor 1	GO:0043565	sequence-specific DNA binding
25099	Foxa2,Hnf3b	forkhead box A2	GO:0043565	sequence-specific DNA binding
25231	Hnf6,Onecut1	one cut homeobox 1	GO:0043565	sequence-specific DNA binding
252924	Nr2c1,Psg4,TR2-11,Tr21	nuclear receptor subfamily 2, group C, member 1	GO:0043565	sequence-specific DNA binding
25301	C/EBP,CEBPRNA,Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	GO:0043565	sequence-specific DNA binding
25336	CBF-B,CBFB,MGC108654,Nfya:	nuclear transcription factor-Y beta	GO:0043565	sequence-specific DNA binding
25509	Pax6	paired box 6	GO:0043565	sequence-specific DNA binding
25546	Shox2	short stature homeobox 2	GO:0043565	sequence-specific DNA binding
25620	Creml,Icer	cAMP responsive element modulator	GO:0043565	sequence-specific DNA binding
266813	Pmx1,Prrx1,Prx-1	paired related homeobox 1	GO:0043565	sequence-specific DNA binding
287185	Foxi1	forkhead box I1	GO:0043565	sequence-specific DNA binding
289881	Dr1	down-regulator of transcription 1	GO:0043565	sequence-specific DNA binding
290317	Sox7	SRY (sex determining region Y)-box 7	GO:0043565	sequence-specific DNA binding
291047	Gcm2	glial cells missing homolog 2 (Drosophila)	GO:0043565	sequence-specific DNA binding
292301	T	T, brachyury homolog (mouse)	GO:0043565	sequence-specific DNA binding
293701	ERRalpha,Errra,Esrra	estrogen related receptor, alpha	GO:0043565	sequence-specific DNA binding
299897	Trps1	trichorhinopalangeal syndrome I homolog (human)	GO:0043565	sequence-specific DNA binding

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302993	Sox8	SRY (sex determining region Y)-box 8	GO:0043565	sequence-specific DNA binding
303480	Hoxb13	homeo box B13	GO:0043565	sequence-specific DNA binding
303836	Bcl6	B-cell CLL/lymphoma 6	GO:0043565	sequence-specific DNA binding
304786	Elk4	ELK4, ETS-domain protein (SRF accessory protein 1)	GO:0043565	sequence-specific DNA binding
305888	ZFH,Zfhx2	zinc finger homeobox 2	GO:0043565	sequence-specific DNA binding
310250	RGD1563022,Zfhx4	zinc finger homeobox 4	GO:0043565	sequence-specific DNA binding
311311	Meis2	Meis homeobox 2	GO:0043565	sequence-specific DNA binding
311901	Lhx6	LIM homeobox 6	GO:0043565	sequence-specific DNA binding
313125	Bach21,RGD1562865	similar to BTB and CNC homology 1, basic leucine zipper transcription factor 2	GO:0043565	sequence-specific DNA binding
314221	Six6	SIX homeobox 6	GO:0043565	sequence-specific DNA binding
314322	Fos,c-fos	FBJ osteosarcoma oncogene	GO:0043565	sequence-specific DNA binding
314711	Spic	Spi-C transcription factor (Spi-1/PU.1 related)	GO:0043565	sequence-specific DNA binding
360801	Ncor2	nuclear receptor co-repressor 2	GO:0043565	sequence-specific DNA binding
360896	Esrrg,errg	estrogen-related receptor gamma	GO:0043565	sequence-specific DNA binding
362385	Pole4	polymerase (DNA-directed), epsilon 4 (p12 subunit)	GO:0043565	sequence-specific DNA binding
363831	Gsc2,Gscl	goosecoid homeobox 2	GO:0043565	sequence-specific DNA binding
365900	Alx3	aristaless-like homeobox 3	GO:0043565	sequence-specific DNA binding
367264	Stat4	signal transducer and activator of transcription 4	GO:0043565	sequence-specific DNA binding
368057	Hoxa10,MGC188427,RGD1564	homeo box A10	GO:0043565	sequence-specific DNA binding
399489	E2f1	E2F transcription factor 1	GO:0043565	sequence-specific DNA binding
497988	Hoxb4,RGD1560113	homeo box B4	GO:0043565	sequence-specific DNA binding
499929	MGC188777,RGD1564927,Tgif	similar to TGFB-induced factor 2	GO:0043565	sequence-specific DNA binding
500538	Byb1,Cbfa,Dbpb,Ef1a,Msy1,Ns	Y box binding protein 1	GO:0043565	sequence-specific DNA binding
502886	Foxj2,RGD1565101	forkhead box J2	GO:0043565	sequence-specific DNA binding
685102	Nkx6-3	NK6 homeobox 3	GO:0043565	sequence-specific DNA binding
689704	Vsx1	visual system homeobox 1	GO:0043565	sequence-specific DNA binding
81817	Usf2	upstream transcription factor 2, c-fos interacting	GO:0043565	sequence-specific DNA binding
114490	Cited2,MGC93288,Mrg1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	GO:0003700	sequence-specific DNA binding transcription factor activity
114520	Gs2na,Sg2na,Strn3	striatin, calmodulin binding protein 3	GO:0003700	sequence-specific DNA binding transcription factor activity
114634	Six1	SIX homeobox 1	GO:0003700	sequence-specific DNA binding transcription factor activity
116545	Brn5,Pou6f1	POU class 6 homeobox 1	GO:0003700	sequence-specific DNA binding transcription factor activity
117526	MGC93994,TFIID,Tbp	TATA box binding protein	GO:0003700	sequence-specific DNA binding transcription factor activity
24356	Ets-11,Ets1,Etsoncb,MGC1246	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	GO:0003700	sequence-specific DNA binding transcription factor activity
24522	Kid1,Tcf17,Zfp354a,Znf354a	zinc finger protein 354A	GO:0003700	sequence-specific DNA binding transcription factor activity
24883	Wt1	Wilms tumor 1	GO:0003700	sequence-specific DNA binding transcription factor activity
25099	Foxa2,Hnf3b	forkhead box A2	GO:0003700	sequence-specific DNA binding transcription factor activity
25231	Hnf6,Onecut1	one cut homeobox 1	GO:0003700	sequence-specific DNA binding transcription factor activity
252860	MGC114256,Rlzf,Zfp99,Zksca1	zinc finger protein 394	GO:0003700	sequence-specific DNA binding transcription factor activity
252924	Nr2c1,Psg4,TR2-11,Tr21	nuclear receptor subfamily 2, group C, member 1	GO:0003700	sequence-specific DNA binding transcription factor activity
25336	CBF-B,CBFB,MGC108654,Nfya:	nuclear transcription factor-Y beta	GO:0003700	sequence-specific DNA binding transcription factor activity
25509	Pax6	paired box 6	GO:0003700	sequence-specific DNA binding transcription factor activity
25546	Shox2	short stature homeobox 2	GO:0003700	sequence-specific DNA binding transcription factor activity
25620	Crem,Icer	cAMP responsive element modulator	GO:0003700	sequence-specific DNA binding transcription factor activity
25671	Madh1,Smad1	SMAD family member 1	GO:0003700	sequence-specific DNA binding transcription factor activity
266813	Pmx1,Prrx1,Prx-1	paired related homeobox 1	GO:0003700	sequence-specific DNA binding transcription factor activity
287094	Znf213	zinc finger protein 213	GO:0003700	sequence-specific DNA binding transcription factor activity
287185	Foxi1	forkhead box I1	GO:0003700	sequence-specific DNA binding transcription factor activity

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290317	Sox7	SRY (sex determining region Y)-box 7	GO:0003700 sequence-specific DNA binding transcription factor activity
292301	T	T, brachyury homolog (mouse)	GO:0003700 sequence-specific DNA binding transcription factor activity
293701	ERRalpha,Errra,Esrra	estrogen related receptor, alpha	GO:0003700 sequence-specific DNA binding transcription factor activity
296293	Cbfa2t2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2	GO:0003700 sequence-specific DNA binding transcription factor activity
299897	Trps1	trichorhinophalangeal syndrome I homolog (human)	GO:0003700 sequence-specific DNA binding transcription factor activity
301446	Carf	calcium response factor	GO:0003700 sequence-specific DNA binding transcription factor activity
302993	Sox8	SRY (sex determining region Y)-box 8	GO:0003700 sequence-specific DNA binding transcription factor activity
303212	Zfp287,Znf287	zinc finger protein 287	GO:0003700 sequence-specific DNA binding transcription factor activity
303480	Hoxb13	homeo box B13	GO:0003700 sequence-specific DNA binding transcription factor activity
303836	Bcl6	B-cell CLL/lymphoma 6	GO:0003700 sequence-specific DNA binding transcription factor activity
304103	Olig2	oligodendrocyte lineage transcription factor 2	GO:0003700 sequence-specific DNA binding transcription factor activity
304786	Elk4	ELK4, ETS-domain protein (SRF accessory protein 1)	GO:0003700 sequence-specific DNA binding transcription factor activity
305888	ZFH,Zfhx2	zinc finger homeobox 2	GO:0003700 sequence-specific DNA binding transcription factor activity
306695	Zfp367,Znf367	zinc finger protein 367	GO:0003700 sequence-specific DNA binding transcription factor activity
306974	Zfp192	zinc finger protein 192	GO:0003700 sequence-specific DNA binding transcription factor activity
310250	RGD1563022,Zfhx4	zinc finger homeobox 4	GO:0003700 sequence-specific DNA binding transcription factor activity
311311	Meis2	Meis homeobox 2	GO:0003700 sequence-specific DNA binding transcription factor activity
311901	Lhx6	LIM homeobox 6	GO:0003700 sequence-specific DNA binding transcription factor activity
311903	MGC93722,Mrrf	mitochondrial ribosome recycling factor	GO:0003700 sequence-specific DNA binding transcription factor activity
312451	Tcf32	transcription factor 3	GO:0003700 sequence-specific DNA binding transcription factor activity
313125	Bach21,RGD1562865	similar to BTB and CNC homology 1, basic leucine zipper transcription factor 2	GO:0003700 sequence-specific DNA binding transcription factor activity
313507	Tal1	T-cell acute lymphocytic leukemia 1	GO:0003700 sequence-specific DNA binding transcription factor activity
314221	Six6	SIX homeobox 6	GO:0003700 sequence-specific DNA binding transcription factor activity
314322	Fos,c-fos	FBJ osteosarcoma oncogene	GO:0003700 sequence-specific DNA binding transcription factor activity
314711	Spic	Spi-C transcription factor (Spi-1/PU.1 related)	GO:0003700 sequence-specific DNA binding transcription factor activity
315497	Tbx20	T-box 20	GO:0003700 sequence-specific DNA binding transcription factor activity
315870	Tbx18	T-box18	GO:0003700 sequence-specific DNA binding transcription factor activity
360896	Esrrg,errg	estrogen-related receptor gamma	GO:0003700 sequence-specific DNA binding transcription factor activity
362591	Mtf1	metal-regulatory transcription factor 1	GO:0003700 sequence-specific DNA binding transcription factor activity
363170	MGC189403,Zfp167,Znf167	zinc finger protein 167	GO:0003700 sequence-specific DNA binding transcription factor activity
363243	Klf7	Kruppel-like factor 7 (ubiquitous)	GO:0003700 sequence-specific DNA binding transcription factor activity
363831	Gsc2,Gscl	goosecoid homeobox 2	GO:0003700 sequence-specific DNA binding transcription factor activity
364081	Irf6	interferon regulatory factor 6	GO:0003700 sequence-specific DNA binding transcription factor activity
365900	Alx3	aristaless-like homeobox 3	GO:0003700 sequence-specific DNA binding transcription factor activity
367264	Stat4	signal transducer and activator of transcription 4	GO:0003700 sequence-specific DNA binding transcription factor activity
368057	Hoxa10,MGC188427,RGD1564	homeo box A10	GO:0003700 sequence-specific DNA binding transcription factor activity
399489	E2f1	E2F transcription factor 1	GO:0003700 sequence-specific DNA binding transcription factor activity
497988	Hoxb4,RGD1560113	homeo box B4	GO:0003700 sequence-specific DNA binding transcription factor activity
499929	MGC188777,RGD1564927,Tgif	similar to TGFB-induced factor 2	GO:0003700 sequence-specific DNA binding transcription factor activity
502886	Foxj2,RGD1565101	forkhead box J2	GO:0003700 sequence-specific DNA binding transcription factor activity
54244	RTS2,CBP,Crebbp,RSTS	CREB binding protein	GO:0003700 sequence-specific DNA binding transcription factor activity
680611	Bcl32	B-cell CLL/lymphoma 3	GO:0003700 sequence-specific DNA binding transcription factor activity
684980	MGC125073,Tsc22d4	TSC22 domain family, member 4	GO:0003700 sequence-specific DNA binding transcription factor activity
685102	Nkx6-3	NK6 homeobox 3	GO:0003700 sequence-specific DNA binding transcription factor activity
689704	Vsx1	visual system homeobox 1	GO:0003700 sequence-specific DNA binding transcription factor activity
81817	Usf2	upstream transcription factor 2, c-fos interacting	GO:0003700 sequence-specific DNA binding transcription factor activity
25012	MGC105414,SNAP-25B,Snap25	synaptosomal-associated protein 25	GO:0030431 sleep

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314322	Fos,c-fos	FBJ osteosarcoma oncogene	GO:0030431	sleep
63889	Ptgdr1,Ptgdr2,Ptgdr1	prostaglandin D receptor-like	GO:0030431	sleep
170842	Tob1	transducer of ErbB-2.1	GO:0046332	SMAD binding
25099	Foxa2,Hnf3b	forkhead box A2	GO:0046332	SMAD binding
29591	MGC93659,Tgfb1	transforming growth factor, beta receptor 1	GO:0046332	SMAD binding
300813	Rnf111	ring finger protein 111	GO:0046332	SMAD binding
54244	RTS2,CBP,Crebbp,RSTS	CREB binding protein	GO:0046332	SMAD binding
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0046332	SMAD binding
113960	Cdc42bpb	CDC42 binding protein kinase beta (DMPK-like)	GO:0005083	small GTPase regulator activity
293693	Cdc42bpg,RGD1307260	CDC42 binding protein kinase gamma (DMPK-like)	GO:0005083	small GTPase regulator activity
301363	Map4k4	mitogen-activated protein kinase kinase kinase 4	GO:0005083	small GTPase regulator activity
309774	Gopc	golgi associated PDZ and coiled-coil motif containing	GO:0005083	small GTPase regulator activity
116470	Stx1a	syntaxin 1A (brain)	GO:0000149	SNARE binding
25012	MGC105414,SNAP-25B,Snapt25	synaptosomal-associated protein 25	GO:0000149	SNARE binding
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0000149	SNARE binding
29528	MGC108618,Vamp3	vesicle-associated membrane protein 3	GO:0000149	SNARE binding
501005	Cplx3,RGD1560104	complexin 3	GO:0000149	SNARE binding
292301	T	T, brachyury homolog (mouse)	GO:0001756	somitogenesis
296787	MGC189535,Sema3c	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	GO:0001756	somitogenesis
299766	Myf5	myogenic factor 5	GO:0001756	somitogenesis
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0001756	somitogenesis
315870	Tbx18	T-box18	GO:0001756	somitogenesis
65165	MGC72390,Rnp24,Tmed2	transmembrane emp24 domain trafficking protein 2	GO:0001756	somitogenesis
81507	Bmpr1a	bone morphogenetic protein receptor, type IA	GO:0001756	somitogenesis
24854	APOJ,CLI,Clu,DAG,RATTRPM2E	clusterin	GO:0034366	spherical high-density lipoprotein particle
292697	Apoc2,RGD1560725	apolipoprotein C-II	GO:0034366	spherical high-density lipoprotein particle
300129	Cerk	ceramide kinase	00600	Sphingolipid metabolism
308909	MGC94748,Smpd1	sphingomyelin phosphodiesterase 1, acid lysosomal	00600	Sphingolipid metabolism
313339	Acer2,Asah3l	alkaline ceramidase 2	00600	Sphingolipid metabolism
50555	Ugt8,Ugt8a	UDP glycosyltransferase 8	00600	Sphingolipid metabolism
64369	Ppap2a	phosphatidic acid phosphatase type 2A	00600	Sphingolipid metabolism
65196	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6	00600	Sphingolipid metabolism
94338	Smpd3,cca1	sphingomyelin phosphodiesterase 3, neutral membrane	00600	Sphingolipid metabolism
296137	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	GO:0071173	spindle assembly checkpoint
311327	Casc5,Rad511	cancer susceptibility candidate 5	GO:0071173	spindle assembly checkpoint
117259	Sfrs10,Srsf10,Tra2b	transformer 2 beta homolog (Drosophila)	03040	Spliceosome
171552	Pprf18,Prpf18	PRP18 pre-mRNA processing factor 18 homolog (S. cerevisiae)	03040	Spliceosome
290046	Hnrnpc,Hnrpc,MGC114359,hn	heterogeneous nuclear ribonucleoprotein C (C1/C2)	03040	Spliceosome
291794	Snrpd1	small nuclear ribonucleoprotein D1	03040	Spliceosome
294254	Hspa1b2,Hspa22,Hsp70-2,Hsp70	heat shock 70kD protein 1B (mapped)	03040	Spliceosome
295607	Fnbp3,Prpf40a	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)	03040	Spliceosome
298374	Prpf38a,RGD1311129	PRP38 pre-mRNA processing factor 38 (yeast) domain containing A	03040	Spliceosome
305479	Sf3a1	splicing factor 3a, subunit 1	03040	Spliceosome
305884	Acin1	apoptotic chromatin condensation inducer 1	03040	Spliceosome
307474	Tcerg1	transcription elongation regulator 1	03040	Spliceosome
309651	MGC116359,Ppil1	peptidylprolyl isomerase (cyclophilin)-like 1	03040	Spliceosome
361814	Sfrs3,Srsf3	splicing factor, arginine/serine-rich 3	03040	Spliceosome

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362152	Hnrnpa3,Hnrpa3	heterogeneous nuclear ribonucleoprotein A3	03040	Spliceosome
363151	Ccdc12,RGD1306081	coiled-coil domain containing 12	03040	Spliceosome
498934	Lsm6,RGD1561937	LSM6 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)	03040	Spliceosome
85434	Cdc5l	CDC5 cell division cycle 5-like (<i>S. pombe</i>)	03040	Spliceosome
114100	MGC93101,Sc5d,Sc5dl	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, <i>S. cerevisiae</i>)-like	00100	Steroid biosynthesis
25427	Cyp51,Cyp51a1,MGC93630,RA	cytochrome P450, family 51	00100	Steroid biosynthesis
266770	Acat-2,Soat2	sterol O-acyltransferase 2	00100	Steroid biosynthesis
29230	Sqle	squalene epoxidase	00100	Steroid biosynthesis
81681	Lss	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	00100	Steroid biosynthesis
114628	Abcg5	ATP-binding cassette, subfamily G (WHITE), member 5	GO:0015918	sterol transport
155192	Abcg8	ATP-binding cassette, subfamily G (WHITE), member 8	GO:0015918	sterol transport
294103	MGC189455,Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	GO:0004781	sulfate adenyltransferase (ATP) activity
295443	Papss1	3'-phosphoadenosine 5'-phosphosulfate synthase 1	GO:0004781	sulfate adenyltransferase (ATP) activity
294103	MGC189455,Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	GO:0000103	sulfate assimilation
295443	Papss1	3'-phosphoadenosine 5'-phosphosulfate synthase 1	GO:0000103	sulfate assimilation
60393	Sult-n,Sult1d1,Sultn	sulfotransferase family 1D, member 1	GO:0000103	sulfate assimilation
116470	Stx1a	syntaxin 1A (brain)	GO:0016081	synaptic vesicle docking involved in exocytosis
29211	Spnb3,Sptbn2	spectrin, beta, non-erythrocytic 2	GO:0016081	synaptic vesicle docking involved in exocytosis
116470	Stx1a	syntaxin 1A (brain)	GO:0019717	synaptosome
171447	Cirl-2,Cirl2,Cl2ac,Lphn2	latrophilin 2	GO:0019717	synaptosome
24333	Eno1	enolase 1, (alpha)	GO:0019717	synaptosome
24592	Nf1	neurofibromin 1	GO:0019717	synaptosome
25012	MGC105414,SNAP-25B,Snapt25	synaptosomal-associated protein 25	GO:0019717	synaptosome
25132	Myo5b,Myr6	myosin Vb	GO:0019717	synaptosome
29219	MGC105443,Snca	synuclein, alpha (non A4 component of amyloid precursor)	GO:0019717	synaptosome
29528	MGC108618,Vamp3	vesicle-associated membrane protein 3	GO:0019717	synaptosome
29542	HCNP,Pbp,Pebp1,Rkip	phosphatidylethanolamine binding protein 1	GO:0019717	synaptosome
309774	Gopc	golgi associated PDZ and coiled-coil motif containing	GO:0019717	synaptosome
314322	Fos,c-fos	FBJ osteosarcoma oncogene	GO:0019717	synaptosome
56029	P140,Snip,Srcin1	SNAP25-interacting protein	GO:0019717	synaptosome
57302	CB2,Cnr2	cannabinoid receptor 2 (macrophage)	GO:0019717	synaptosome
58868	Fzd1	frizzled homolog 1 (<i>Drosophila</i>)	GO:0019717	synaptosome
64192	Qdpr	quinoid dihydropteridine reductase	GO:0019717	synaptosome
65180	Kcnd2,Kv4.2,RK5,Shal1	potassium voltage-gated channel, Shal-related subfamily, member 2	GO:0019717	synaptosome
79123	Accn2,Asic1	amiloride-sensitive cation channel 2, neuronal	GO:0019717	synaptosome
84487	Dnpi,Slc17a6,Vglut2	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	GO:0019717	synaptosome
292301	T	T, brachyury homolog (mouse)	GO:0035121	tail morphogenesis
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0035121	tail morphogenesis
65165	MGC72390,Rnp24,Tmed2	transmembrane emp24 domain trafficking protein 2	GO:0035121	tail morphogenesis
84489	Fgfr3	fibroblast growth factor receptor 3	GO:0035121	tail morphogenesis
289175	MGC124887,Slc19a2	solute carrier family 19 (thiamine transporter), member 2	GO:0042723	thiamine-containing compound metabolic process
305889	MGC94155,Thtpa	thiamine triphosphatase	GO:0042723	thiamine-containing compound metabolic process
140938	Gt198,Psmc3ip,Tbpip	PSMC3 interacting protein	GO:0046966	thyroid hormone receptor binding
303403	Med13,Thrap1	mediator complex subunit 13	GO:0046966	thyroid hormone receptor binding
306030	Med4,Vdrip	mediator complex subunit 4	GO:0046966	thyroid hormone receptor binding
316575	Gtl6,MGC124674,MGC125132	thyroid hormone receptor interactor 12	GO:0046966	thyroid hormone receptor binding
60563	Hr	hairless	GO:0046966	thyroid hormone receptor binding

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619436	Med24,Thrap4	mediator complex subunit 24	GO:0046966 thyroid hormone receptor binding
24686	PrP,Prn,Prnp	prion protein	GO:0015631 tubulin binding
291966	CGI-38,MGC105620,RGD13050	tubulin polymerization-promoting protein family member 3	GO:0015631 tubulin binding
29332	Lap18,MGC72884,OP18,PP17,Stathmin 1	stathmin 1	GO:0015631 tubulin binding
553106	Ncald	neurocalcin delta	GO:0015631 tubulin binding
64862	MGC93422,Map1lc3,Map1lc3l	microtubule-associated protein 1 light chain 3 beta	GO:0015631 tubulin binding
50555	Ugt8,Ugt8a	UDP glycosyltransferase 8	GO:0008489 UDP-galactose:glucosylceramide beta-1.4-galactosyltransferase activity
65196	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6	GO:0008489 UDP-galactose:glucosylceramide beta-1.4-galactosyltransferase activity
309449	Elovl3	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	GO:0042761 very long-chain fatty acid biosynthetic process
315851	Elovl4	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4	GO:0042761 very long-chain fatty acid biosynthetic process
25404	Cav,Cav1,MGC187299	caveolin 1, caveolae protein	GO:0016050 vesicle organization
83576	Nt3,Nts3,Sort1	sortilin 1	GO:0016050 vesicle organization
116477	Hsn2,Prkwnk1,Wnk1	WNK lysine deficient protein kinase 1	GO:0042598 vesicular fraction
24805	RATSYNII,SYNII,Syt2	synaptotagmin II	GO:0042598 vesicular fraction
252916	R,Rab38,Ruby	RAB38, member RAS oncogene family	GO:0042598 vesicular fraction
312052	Steap2	six transmembrane epithelial antigen of the prostate 2	GO:0042598 vesicular fraction
282581	Fzd6	frizzled homolog 6 (Drosophila)	GO:0017147 Wnt-protein binding
312781	Lrp6	low density lipoprotein receptor-related protein 6	GO:0017147 Wnt-protein binding
362065	Gpr177,Wls	G protein-coupled receptor 177	GO:0017147 Wnt-protein binding
58868	Fzd1	frizzled homolog 1 (Drosophila)	GO:0017147 Wnt-protein binding
89803	Sfrp4	secreted frizzled-related protein 4	GO:0017147 Wnt-protein binding
295455	MGC108852,Slc39a8	solute carrier family 39 (zinc transporter), member 8	GO:0006829 zinc ion transport
295928	MGC124816,Slc39a13	solute carrier family 39 (zinc transporter), member 13	GO:0006829 zinc ion transport
361986	Slc39a12	solute carrier family 39 (zinc transporter), member 1	GO:0006829 zinc ion transport
64469	Slc30a4	solute carrier family 30 (zinc transporter), member 4	GO:0006829 zinc ion transport